

STATE OF MARYLAND
BOARD OF NATURAL RESOURCES
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., Director

Bulletin 1

SUMMARY OF
RECORDS OF SURFACE WATERS
OF MARYLAND AND THE
POTOMAC RIVER BASIN
1892-1943

Prepared in cooperation with the
U. S. GEOLOGICAL SURVEY



BALTIMORE, MARYLAND—1944



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SUMMARY OF RECORDS OF SURFACE WATERS OF MARYLAND
AND THE POTOMAC RIVER BASIN, 1892-1943

INTRODUCTION

The purpose of this report is to bring together in one volume the records of monthly and yearly discharge for all gaging stations in Maryland and in the basin of the Potomac River for which records of flow have been collected prior to October 1, 1943. The Potomac River basin comprises not only the greater part of Maryland, but portions of Virginia, West Virginia, and Pennsylvania, and all of the District of Columbia. Inclusion of the records of flow for all gaging stations in the entire basin materially increases the utility and value of the summary. There are about 11,900 monthly records in all, equivalent to about 990 years.

The Geological Survey, United States Department of the Interior, began to collect records of stream flow in Maryland in June 1894 with the establishment of a gaging station on the Potomac River at Cumberland. This station was discontinued in 1897. A station was established on the Potomac at Point of Rocks in February 1895 and has been in operation ever since. This record is now nearly 50 years in length, which makes it one of the longest continuous records of stream flow in the United States. A gaging station was established on Rock Creek at Lyone Mill near Q Street, District of Columbia, in July 1892, but was discontinued in 1894. Rock Creek may be considered a Maryland stream as 80 percent of its drainage area is in Maryland.

COOPERATION

The State of Maryland began cooperation with the U. S. Geological Survey in investigation of the surface water resources of the State in 1896 through the payment of the services of gage readers by Prof. William Bullock Clark, State Geologist. Additional gaging stations on Broad Creek at Mill Green, Deer Creek near Churchville, Little Gunpowder Falls near Belair, and Gunpowder Falls at Glencoe were established in 1904. These streams were considered as possible sources of additional water supply for the city of Baltimore, but State cooperation in their maintenance was terminated in 1909, and the stations were discontinued. Cooperation by the State was resumed in 1924.

The city of Baltimore began cooperation in the investigation of stream flow in 1926 to determine the source of an additional water supply for that city. The stations on Deer Creek at Roche, Little Gunpowder Falls at Laurel Brook, and the North Branch Patapasco River near Reisterstown and near Marriottsville are so maintained.

In 1929 representatives of the city of Cumberland and the industries within the Luke-Cumberland area formed a voluntary organization called the Upper Potomac River Board, under the sponsorship of the Maryland State Department of Health. This Board, through the Maryland Geological Survey, started investigations of the flow of streams in the upper Potomac basin in cooperation with the U. S. Geological Survey. The stations on the Savage River and the North Branch of Potomac River at Bloomington, Evitte Creek and Wills Creek near Cumberland, and Georges Creek at Franklin were established in con-

nection with this investigation.

Other cooperating agencies in the area covered by the summary are the States of Pennsylvania, West Virginia, Virginia, the Corps of Engineers, U. S. Army, the cities of Salisbury and Annapolis, and the Washington Suburban Sanitary Commission. The Washington Suburban Sanitary Commission is cooperating by the operation of the stations on Patuxent River near Burtonsville, Northwest Branch Anacostia River near Colesville, Seneca Creek at Dawsonville, and Little Patuxent River at Savage. Acknowledgment of the cooperation by the different agencies has been made in the Geological Survey annual water-supply papers.

As the result of the cooperation by these various agencies, 39 gaging stations were being operated at the end of the 1943 water year. Three of these stations are outside of the State, two on streams tributary to the Potomac River and one on a stream tributary to the Casselman River. Eight of the stations on the Potomac River from Pinto to Washington and in or near the District of Columbia are maintained by Federal funds; the remaining 31 stations are operated in cooperation with the agencies mentioned.

ACKNOWLEDGMENTS

The records in the summary have been compiled and arranged for publication under the direction of A. H. Horton, district engineer, by V. R. Bennion, associate engineer, and assistants.

EXPLANATION OF DATA

This compilation includes a brief description of each gaging station and tables giving the following data: Monthly maximum, minimum, and mean daily discharge in cubic feet per second, discharge in second-feet per square mile, equivalent depth in inches on the drainage basin, and million gallons per day per square mile. However, at gaging stations where the natural flow is appreciably affected by storage reservoirs, diversions, or regulation, figures of discharge in second-feet and million gallons per day per square mile, and the depth in inches on the drainage basin are omitted, as the unit figure would be misleading. Records of the annual flow for each station are given in a separate table for general use.

Measurements of the flow of streams at places where there are no gaging stations are listed in the table headed "Miscellaneous measurements."

The records of discharges and other data in this summary may be accepted as correct where they differ from those previously published. The monthly figures usually will be sufficient for the use of practically all who may need information about stream flow. Those requiring information of the daily flow and its distribution during the month may consult the bibliography for the reports containing detailed data.

BIBLIOGRAPHY

The bibliography on pages 3-14 includes reference to all the publications containing the detailed records of flow at each gaging station for which monthly records are included in the summary. Many, if not all, of these publications may be consulted in most public libraries and in offices of the U. S. Geological Survey. Water-supply papers and other publications of the U. S. Geological Survey may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, upon application, furnish lists of those still available.

Bibliography of stream-flow data in Maryland and Potomac River Basin

Publications of the U. S. Geological Survey are indicated by the abbreviations: A, Annual Report; W, Water-Supply Paper; and of the Virginia Geological Survey by the abbreviation: B, Bulletin 31.

Wicomico River Basin		
Gaging station	Year	Publication
East Branch Wicomico River near Salisbury, Md.	1930	W 696, p. 206
	1931	W 711, p. 229
	1932	W 726, p. 253
	1933	W 741, p. 272
	1934	W 756, p. 269
	1935	W 781, p. 311
	1936	W 801, p. 294
	1937	W 821, p. 321
	1938	W 851, p. 333
	1939	W 871, p. 334
	1940	W 891, p. 382
	1941	W 921, p. 392
	1942	W 951, p. 412
	1943	W 971
Elk River Basin		
Big Elk Creek at Elk Mills, Md.....	1932	W 726, p. 254
	1933	W 741, p. 273
	1934	W 756, p. 270
	1935	W 781, p. 312
	1936	W 801, p. 295
	1937	W 821, p. 322
	1938	W 851, p. 334
	1939	W 871, p. 335
	1940	W 891, p. 383
	1941	W 921, p. 393
	1942	W 951, p. 413
	1943	W 971
	Susquehanna River Basin	
Broad Creek at Mill Green, Md.....	1905-6	W 203, p. 36
	1907-8	W 241, p. 314
	1909	W 261, p. 274
Deer Creek near Churchville, Md.....	1905-6	W 203, p. 37
	1907-8	W 241, p. 316
	1909	W 261, p. 276
Deer Creek above Kellogg Branch, at Rocks, Md.	-	Records not previously published.
Deer Creek at Rocks, Md.....	1927	W 641, p. 161
	1928	W 661, p. 199
	1929	W 681, p. 212
	1930	W 696, p. 226
	1931	W 711, p. 251
	1932	W 726, p. 305
	1933	W 741, p. 327
	1934	W 756, p. 325
	1935	W 781, p. 364
	1936	W 801, p. 347
	1937	W 821, p. 386
	1938	W 851, p. 429
	1939	W 871, p. 427
	1940	W 891, p. 493
	1941	W 921, p. 504
	1942	W 951, p. 520
	1943	W 971
Octoraro Creek near Rising Sun, Md..	1932	W 726, p. 304
	1933	W 741, p. 326
	1934	W 756, p. 324
	1935	W 781, p. 363
	1936	W 801, p. 346
	1937	W 821, p. 385
	1938	W 851, p. 428
	1939	W 871, p. 426
	1940	W 891, p. 492
	1941	W 921, p. 503
	1942	W 951, p. 518
1943	W 971	

Bibliography of stream-Flow data in Maryland and Potomac River Basin--Continued

Susquehanna River Basin--Continued			
Gaging station	Year	Publication	
Octoraro Creek at Rowlandville, Md.	1897	19th A, part 4, p. 128	
	1898	20th A, part 4, p. 111	
	1899	21st A, part 4, p. 93	
Gunpowder River Basin			
Gunpowder Falls at Glencoe, Md.....	1905-6	W 203, p. 40	
	1907-8	W 241, p. 319	
	1909	W 261, p. 277	
Little Gunpowder Falls near Belair, Md.	1905-6	W 203, p. 42	
	1907-8	W 241, p. 322	
	1909	W 261, p. 278	
Little Gunpowder Falls at Laurel Brook, Md.	1927-32	W 726, p. 306	
	1933	W 741, p. 328	
	1934	W 756, p. 326	
	1935	W 781, p. 365	
	1936	W 801, p. 348	
	1937	W 821, p. 367	
	1938	W 851, p. 430	
	1939	W 871, p. 428	
	1940	W 891, p. 494	
	1941	W 921, p. 505	
	1942	W 951, p. 521	
	1943	W 971	
	Patapsco River Basin		
North Branch Patapsco River near Marriottsville, Md.	1930	W 696, p. 229	
	1931	W 711, p. 254	
	1932	W 726, p. 311	
	1933	W 741, p. 330	
	1934	W 756, p. 328	
	1935	W 781, p. 367	
	1936	W 801, p. 350	
	1937	W 821, p. 389	
	1938	W 851, p. 432	
	1939	W 871, p. 430	
	1940	W 891, p. 496	
	1941	W 921, p. 507	
	1942	W 951, p. 523	
	1943	W 971	
North Branch Patapsco River near Reisterstown, Md.	1927	W 641, p. 163	
	1928	W 661, p. 201	
	1929	W 681, p. 214	
	1930	W 696, p. 228	
	1931	W 711, p. 253	
	1932	W 726, p. 310	
	1933	W 741, p. 329	
	1934	W 756, p. 327	
	1935	W 781, p. 366	
	1936	W 801, p. 349	
	1937	W 821, p. 388	
	1938	W 851, p. 431	
	1939	W 871, p. 429	
	1940	W 891, p. 495	
1941	W 921, p. 506		
1942	W 951, p. 522		
1943	W 971		
Patapsco River at Woodstock, Md.....	1896	18th A, part 4, p. 17	
	1897	19th A, part 4, p. 130	
	1898	20th A, part 4, p. 115	
	1899	21st A, part 4, p. 94	
	1900	22nd A, part 4, p. 130	
	1901	W 75, p. 33	
	1902	W 82, p. 165	
	1903	W 97, p. 303	
	1904-5	W 167, p. 49	
	1906	W 203, p. 45	
	1907-8	W 241, p. 325	
	1909	W 261, p. 280	
	Piney Run near Sykesville, Md.....	1931-32	W 726, p. 312
		1933	W 741, p. 331
1934		W 756, p. 329	
1935		W 781, p. 368	
1936		W 801, p. 351	
1937		W 821, p. 390	
1938		W 851, p. 433	
1939		W 871, p. 431	
1940		W 891, p. 497	
1941		W 921, p. 508	
1942		W 951, p. 524	
1943		W 971	

Bibliography of stream-flow data in Maryland and Potomac River Basin--Continued

South River Basin		
Gaging station	Year	Publication
Bacon Ridge Branch at Chesterfield, Md.	1943	W 971
North River near Annapolis, Md.....	1932	W 726, p. 313
	1933	W 741, p. 332
	1934	W 756, p. 330
	1935	W 781, p. 369
	1936	W 801, p. 352
	1937	W 821, p. 391
	1938	W 851, p. 434
	1939	W 871, p. 432
	1940	W 891, p. 498
	1941	W 921, p. 509
	1942	W 951, p. 525
	1943	W 971

Patuxent River Basin		
Little Patuxent River at Guilford, Md.	1932	W 726, p. 315
	1933	W 741, p. 334
	1934	W 756, p. 332
	1935	W 781, p. 371
	1936	W 801, p. 354
	1937	W 821, p. 393
	1938	W 851, p. 436
	1939	W 871, p. 434
	1940	W 891, p. 500
	1941	W 921, p. 511
	1942	W 951, p. 527
	1943	W 971
	Little Patuxent River at Savage, Md.	1940	W 891, p. 501
1941		W 921, p. 512
1942		W 951, p. 528
1943		W 971
Patuxent River near Burtonsville, Md.	1911-12	W 321, p. 218
	1913	W 351, p. 175
	1914	W 361, p. 180
	1915	W 401, p. 143
	1916	W 431, p. 163
	1917	W 451, p. 152
	1918	W 471, p. 174
	1919-20	W 501, p. 316
	1921	W 521, p. 281
	1922	W 541, p. 244
	1923	W 561, p. 245
	1924	W 581, p. 232
	1925	W 601, p. 239
	1926	W 621, p. 241
	1927	W 641, p. 164
	1928	W 661, p. 202
	1929	W 681, p. 215
	1930	W 696, p. 230
	1931	W 711, p. 255
	1932	W 726, p. 314
	1933	W 741, p. 333
	1934	W 756, p. 331
	1935	W 781, p. 370
	1936	W 801, p. 353
	1937	W 821, p. 392
	1938	W 851, p. 435
	1939	W 871, p. 433
	1940	W 891, p. 499
	1941	W 921, p. 510
	1942	W 951, p. 526
	1943	W 971

Potomac River Basin		
Antietam Creek near Sharpsburg, Md..	1897-1905	W 192, p. 82
	1928	W 661, p. 212
	1929	W 681, p. 229
	1930	W 696, p. 251
	1931	W 711, p. 277
	1932	W 726, p. 337
	1933	W 741, p. 354
	1934	W 756, p. 352
	1935	W 781, p. 390
	1936	W 801, p. 371
	1937	W 821, p. 409
	1938	W 851, p. 455
	1939	W 871, p. 455
	1940	W 891, p. 522
	1941	W 921, p. 538
	1942	W 951, p. 552
	1943	W 971

Bibliography of stream-flow data in Maryland and Potomac River Basin--Continued

Potomac River Basin--Continued		
Gaging station	Year	Publication
Back Creek near Redgesville, W. Va..	1928	W 661, p. 210
	1929	W 681, p. 227
	1930	W 696, p. 249
	1931	W 711, p. 275
Back Creek near Jones Springs, W. Va.	1938	W 851, p. 453
	1939	W 871, p. 453
	1940	W 891, p. 520
	1941	W 921, p. 536
	1942	W 951, p. 550
1943	W 971	
Beaverdam Branch Anacostia River at Kenilworth Avenue, Washington, D. C.	1911-12	W 321, p. 230
Cacapon River at Capon Bridge, W. Va.	1930	W 696, p. 246
	1931-32	W 726, p. 331
Cacapon River near Great Cacapon, W. Va.	1923	W 561, p. 250
	1924	W 581, p. 235
	1925	W 601, p. 245
	1926	W 621, p. 248
	1927	W 641, p. 168
	1928	W 661, p. 209
	1929	W 681, p. 226
	1930	W 696, p. 247
	1931	W 711, p. 273
	1932	W 726, p. 333
	1933	W 741, p. 351
	1934	W 756, p. 349
	1935	W 781, p. 387
	1936	W 801, p. 368
	1937	W 821, p. 406
	1938	W 851, p. 451
	1939	W 871, p. 451
1940	W 891, p. 518	
1941	W 921, p. 534	
1942	W 951, p. 548	
1943	W 971	
Cacapon River at Yellow Spring, W. Va.	1940-41	W 921, p. 532
	1942	W 951, p. 547
	1943	W 971
Catoctin Creek near Jefferson, Md...	1928	W 661, p. 220
	1929	W 681, p. 233
	1930	W 696, p. 260
	1931	W 711, p. 288
Cedar Creek near Winchester, Va.....	1937-38	W 851, p. 465
	1939	W 871, p. 466
	1940	W 891, p. 538
	1941	W 921, p. 548
	1942	W 951, p. 565
1943	W 971	
Chesapeake & Ohio Canal at Cumberland, Md.	1930	W 696, p. 232
	1931	W 711, p. 257
	1932	W 726, p. 325
	1933	W 741, p. 345
1934	W 756, p. 343	
Chesapeake & Ohio Canal at Point of Rocks, Md.	1931	W 711, p. 278
	1932	W 726, p. 338
	1933	W 741, p. 355
	1934	W 756, p. 353
	1935	W 781, p. 391
	1936	W 801, p. 372
Conococheague Creek at Fairview, Md.	1928	W 661, p. 211
	1929	W 681, p. 228
	1930	W 696, p. 250
	1931	W 711, p. 276
	1932	W 726, p. 336
	1933	W 741, p. 353
	1934	W 756, p. 351
	1935	W 781, p. 389
	1936	W 801, p. 370
	1937	W 821, p. 408
	1938	W 851, p. 454
	1939	W 871, p. 454
	1940	W 891, p. 521
	1941	W 921, p. 537
1942	W 951, p. 551	
1943	W 971	

Bibliography of stream-flow data in Maryland and Potomac River Basin--Continued

Potomac River Basin--Continued		
Gaging station	Year	Publication
Cooks Creek at Mount Crawford, Va...	1905-6	W 203, p. 67
Difficult Run near Great Falls, Va...	1935	W 781, p. 407
	1936	W 801, p. 388
	1937	W 821, p. 425
	1938	W 851, p. 476
	1939	W 871, p. 473
	1940	W 891, p. 545
	1941	W 921, p. 555
	1942	W 951, p. 573
	1943	W 971
	Elk Run at Elkton, Va.....	1905-6	W 203, p. 68
Evitts Creek near Bedford Valley, Pa.	1932-33	W 741, p. 346
	1934	W 756, p. 344
	1935	W 781, p. 382
	1936	W 801, p. 365
	1937	W 821, p. 403
	1938	W 851, p. 446
	1939	W 871, p. 446
	1940	W 891, p. 513
	1941	W 921, p. 524
	1942	W 951, p. 539
	1943	W 971
Evitts Creek near Cumberland, Md....	1929	W 681, p. 221
	1930	W 696, p. 240
	1931	W 711, p. 267
	1932-33	W 726, p. 326
Georges Creek at Franklin, Md.....	1930	W 696, p. 237
	1931	W 711, p. 264
	1932	W 726, p. 323
	1933	W 741, p. 343
	1934	W 756, p. 341
	1935	W 781, p. 380
	1936	W 801, p. 363
	1937	W 821, p. 401
	1938	W 851, p. 444
	1939	W 871, p. 444
	1940	W 891, p. 511
	1941	W 921, p. 522
	1942	W 951, p. 537
	1943	W 971
Georges Creek at Westernport, Md....	1905-6	W 203, p. 55
Goose Creek near Leesburg, Va.....	1909-13	B 31, p. 114
	1930-31	W 711, p. 291
	1932	W 726, p. 355
	1933	W 741, p. 368
	1934-38	W 851, p. 471
	1939	W 871, p. 471
	1940	W 891, p. 543
	1941	W 921, p. 553
	1942	W 951, p. 571
	1943	W 971
Great Seneca Creek near Gaithersburg, Md.	1925	W 601, p. 255
	1926	W 621, p. 260
	1927	W 641, p. 176
	1928	W 661, p. 222
	1929	W 681, p. 241
	1930	W 696, p. 263
	1931	W 711, p. 293
Hawksbill Creek near Luray, Va.....	1905-6	W 203, p. 70
Lewis Creek near Staunton, Va.....	1905-6	W 203, p. 65
Licking Creek near Sylvan, Pa.....	1930-32	W 726, p. 334
	1933	W 741, p. 352
	1934	W 756, p. 350
	1935	W 781, p. 388
	1936	W 801, p. 369
	1937	W 821, p. 407
	1938	W 851, p. 452
	1939	W 871, p. 452
	1940	W 891, p. 519
	1941	W 921, p. 535
	1942	W 951, p. 549

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Gaging station	Year	Publication	
Linganore Creek near Frederick, Md..	1932	W 726, p. 354	
	1934-35	W 781, p. 404	
	1936	W 801, p. 385	
	1937	W 821, p. 422	
	1938	W 851, p. 470	
	1939	W 871, p. 470	
	1940	W 891, p. 542	
	1941	W 921, p. 552	
	1942	W 951, p. 570	
	1943	W 971	
	Middle River near Grottoes, Va.....	1925-27	B 31, p. 60
		1928	W 661, p. 216
1929		W 681, p. 234	
1930		W 696, p. 255	
1931		W 711, p. 283	
1932		W 726, p. 343	
1933		W 741, p. 360	
1934		W 756, p. 358	
1935		W 781, p. 396	
1936		W 801, p. 377	
1937		W 821, p. 414	
1938		W 851, p. 460	
1939		W 871, p. 461	
1940		W 891, p. 528	
1941		W 921, p. 544	
1942		W 951, p. 558	
1943		W 971	
Monocecy River et Bridgeport, Md....	1942	W 951, p. 567	
	1943	W 971	
Monocecy River near Frederick, Md...	1897-1927	B 31, p. 91	
	1928	W 661, p. 221	
	1929	W 681, p. 240	
	1930	W 696, p. 261	
Monocecy River at Jug Bridge, near Frederick, Md.	1930-31	W 711, p. 289	
	1932	W 726, p. 352	
	1933	W 741, p. 366	
	1934	W 756, p. 364	
	1935	W 781, p. 402	
	1936	W 801, p. 383	
	1937	W 821, p. 420	
	1938	W 851, p. 468	
	1939	W 871, p. 468	
	1940	W 891, p. 540	
	1941	W 921, p. 550	
	1942	W 951, p. 568	
	1943	W 971	
New Creek near Keyser, W. Va.....	1930	W 696, p. 238	
	1931	W 711, p. 265	
North Branch Potomac River et Bloomington, Md.	1925	W 601, p. 241	
	1926	W 621, p. 243	
	1927	W 641, p. 165	
	1929	W 681, p. 216	
	1930	W 696, p. 231	
	1931	W 711, p. 256	
	1932	W 726, p. 316	
	1933	W 741, p. 335	
	1934	W 756, p. 333	
	1935	W 781, p. 372	
	1936	W 801, p. 355	
	1937	W 821, p. 394	
	1938	W 851, p. 437	
	1939	W 871, p. 435	
	1940	W 891, p. 502	
	1941	W 921, p. 513	
	1942	W 951, p. 529	
1943	W 971		
North Branch Potomac River et end near Cumberland, Md.	1894-98	W 192, p. 60	
	1929	W 681, p. 217	
	1930	W 696, p. 232	
	1931	W 711, p. 257	
	1932	W 726, p. 317	
	1933	W 741, p. 336	
	1934	W 756, p. 334	
	1935	W 781, p. 373	
	1936	W 801, p. 356	
	1937	W 821, p. 395	
	1938	W 851, p. 438	
	1939	W 871, p. 437	
	1940	W 891, p. 504	
	1941	W 921, p. 515	
	1942	W 951, p. 531	
1943	W 971		

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Gaging station	Year	Publication
North Branch Potomac River at Piedmont, W. Va.	1899-1900	22nd A, part 4, p. 132
	1901	W 75, p. 34
	1902	W 82, p. 167
	1903	W 97, p. 322
	1904-5	W 167, p. 53
	1906	W 203, p. 48
North Branch Potomac River at Pinto, Md.	1939	W 871, p. 436
	1940	W 891, p. 503
	1941	W 921, p. 514
	1942	W 951, p. 530
	1943	W 971
Northeast Branch Anacostia River at Hyattsville, Md.	1911-12	W 321, p. 225
Northeast Branch Anacostia River at Riverdale, Md.	1938	W 851, p. 478
	1939	W 871, p. 475
	1940	W 891, p. 547
	1941	W 921, p. 557
	1942	W 951, p. 575
1943	W 971	
Northwest Branch Anacostia River at Bladensburg, Md.	1911-12	W 321, p. 228
Northwest Branch Anacostia River near Colesville, Md.	1924	W 581, p. 238
	1925	W 601, p. 257
	1926	W 621, p. 261
	1927	W 641, p. 177
	1928	W 661, p. 223
	1929	W 681, p. 242
	1930	W 696, p. 266
	1931	W 711, p. 296
	1932	W 726, p. 360
	1933	W 741, p. 372
	1934	W 756, p. 369
	1935	W 781, p. 409
	1936	W 801, p. 390
	1937	W 821, p. 427
	1938	W 851, p. 479
	1939	W 871, p. 476
	1940	W 891, p. 548
1941	W 921, p. 558	
1942	W 951, p. 576	
1943	W 971	
Northwest Branch Anacostia River near Hyattsville, Md.	1938	W 851, p. 480
	1939	W 871, p. 477
	1940	W 891, p. 549
	1941	W 921, p. 559
	1942	W 951, p. 577
	1943	W 971
North Fork Shenandoah River at Cootee Store, Va.	1925-27	B 31, p. 78
	1928-32	W 726, p. 346
	1933	W 741, p. 363
	1934	W 756, p. 361
	1935	W 781, p. 399
	1936	W 801, p. 380
	1937	W 821, p. 417
	1938	W 851, p. 463
	1939	W 871, p. 464
	1940	W 891, p. 536
	1941	W 921, p. 546
	1942	W 951, p. 562
	1943	W 971
	North Fork Shenandoah River near Riverton, Va.	1899-1906	B 31, p. 84
North Fork Shenandoah River near Strasburg, Va.	1925-27	B 31, p. 81
	1928	W 661, p. 219
	1929	W 681, p. 239
	1930	W 696, p. 259
	1931	W 711, p. 287
	1932	W 726, p. 350
	1933	W 741, p. 364
	1934	W 756, p. 362
	1935	W 781, p. 400
	1936	W 801, p. 381
	1937	W 821, p. 418
	1938	W 851, p. 464
	1939	W 871, p. 465
	1940	W 891, p. 537
	1941	W 921, p. 547
1942	W 951, p. 564	
1943	W 971	

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Gaging station	Year	Publication
North Fork of South Branch Potomac River at Cabins, W. Va.	1940-41	W 921, p. 529
	1942	W 951, p. 545
	1943	W 971
North River near Burkettown, Va.....	1926-27	B 31, p. 32
	1928	W 661, p. 213
	1929	W 681, p. 230
	1930	W 696, p. 252
	1931	W 711, p. 279
	1932	W 726, p. 339
	1933	W 741, p. 356
	1934	W 756, p. 354
	1935	W 781, p. 392
	1936	W 801, p. 373
	1937	W 821, p. 410
	1938	W 851, p. 456
	1939	W 871, p. 456
	1940	W 891, p. 523
	1941	W 921, p. 539
	1942	W 951, p. 553
1943	W 971	
North River at Port Republic, Va....	1895-99	B 31, p. 34
Occoquan Creek near Occoquan, Va....	1913-16	B 31, p. 118
	1921-23	B 31, p. 118
	1937-42	W 951, p. 578
	1943	W 971
Opequon Creek near Martinsburg, W. Va.	1905-6	W 203, p. 58
Owens Creek at Lantz, Md.....	1932	W 726, p. 353
	1933	W 741, p. 367
	1934	W 756, p. 365
	1935	W 761, p. 403
	1936	W 801, p. 384
	1937	W 821, p. 421
	1938	W 851, p. 469
	1939	W 871, p. 469
	1940	W 891, p. 541
	1941	W 921, p. 551
	1942	W 951, p. 569
	1943	W 971
	Passage Creek at Buckton, Va.....	1932	W 726, p. 351
1933		W 741, p. 365
1934		W 756, p. 363
1935		W 761, p. 401
1936		W 801, p. 382
1937		W 821, p. 419
1938		W 851, p. 467
1939		W 871, p. 467
1940		W 891, p. 539
1941		W 921, p. 549
1942		W 951, p. 566
1943		W 971
Patterson Creek at Alaska, W. Va....		1930	W 696, p. 241
	1931	W 711, p. 268
Patterson Creek near Headsville, W. Va.	1938	W 851, p. 447
	1939	W 871, p. 447
	1940	W 891, p. 514
	1941	W 921, p. 525
	1942	W 951, p. 540
	1943	W 971
Potomac River at Hancock, Md.....	1933	W 741, p. 337
	1934	W 756, p. 335
	1935	W 761, p. 374
	1936	W 801, p. 357
	1937	W 821, p. 396
	1938	W 851, p. 439
	1939	W 871, p. 439
	1940	W 891, p. 506
	1941	W 921, p. 517
	1942-43	W 971
	Potomac River at Paw Paw, W. Va.....	1939
1940		W 891, p. 505
1941		W 921, p. 516
1942		W 951, p. 532
1943		W 971

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Gaging station	Year	Publication
Potomac River at Point of Rocks, Md.	1895-1927	R 31, p. 5
	1928	W 661, p. 204
	1929	W 681, p. 219
	1930	W 696, p. 233
	1931	W 711, p. 260
	1932	W 726, p. 319
	1933	W 741, p. 339
	1934	W 756, p. 337
	1935	W 781, p. 376
	1936	W 801, p. 359
	1937	W 821, p. 398
	1938	W 851, p. 441
	1939	W 871, p. 441
	1940	W 891, p. 508
	1941	W 921, p. 519
	1942	W 951, p. 534
	1943	W 971
Potomac River at Shepherdstown, Md..	1928	W 661, p. 203
	1929-31	W 711, p. 258
	1932	W 726, p. 318
	1933	W 741, p. 338
	1934	W 756, p. 336
	1935	W 781, p. 375
	1936	W 801, p. 358
	1937	W 821, p. 397
	1938	W 851, p. 440
	1939	W 871, p. 440
	1940	W 891, p. 507
	1941	W 921, p. 518
	1942	W 951, p. 533
	1943	W 971
Potomac River near Washington, D. C.	1930	W 696, p. 234
	1931	W 711, p. 261
	1932	W 726, p. 320
	1933	W 741, p. 340
	1934	W 756, p. 338
	1935	W 781, p. 377
	1936	W 801, p. 360
	1937	W 821, p. 399
	1938	W 851, p. 442
	1939	W 871, p. 442
	1940	W 891, p. 509
	1941	W 921, p. 520
	1942	W 951, p. 535
1943	W 971	
Rock Creek at Q Street (Lyons Mill), Washington, D. C.	1892-95	W 192, p. 173
	1930	W 696, p. 265
	1931-32	W 726, p. 358
	1933	W 741, p. 371
Rock Creek at Sherrill Drive, Washington, D. C.	1930	W 696, p. 264
	1931	W 711, p. 295
	1932	W 726, p. 357
	1933	W 741, p. 370
	1934	W 756, p. 368
	1935	W 781, p. 408
	1936	W 801, p. 389
	1937	W 821, p. 426
	1938	W 851, p. 477
	1939	W 871, p. 474
	1940	W 891, p. 546
	1941	W 921, p. 556
	1942	W 951, p. 574
	1943	W 971
Savage River at Bloomington, Md.....	1905-6	W 203, p. 53
	1925	W 601, p. 244
	1926	W 621, p. 246
	1927	W 641, p. 167
	1929	W 681, p. 220
	1930	W 696, p. 236
	1931	W 711, p. 263
	1932	W 726, p. 322
	1933	W 741, p. 342
	1934	W 756, p. 340
	1935	W 781, p. 379
	1936	W 801, p. 362
	1937	W 821, p. 400
	1938	W 851, p. 443
	1939	W 871, p. 443
1940	W 891, p. 510	
1941	W 921, p. 521	
1942	W 951, p. 536	
1943	W 971	

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Gaging station	Year	Publication
Seneca Creek at Dawsonville, Md.....	1931	W 711, p. 294
	1932	W 726, p. 356
	1933	W 741, p. 369
	1934	W 756, p. 367
	1935	W 781, p. 406
	1936	W 801, p. 387
	1937	W 821, p. 424
	1938	W 851, p. 475
	1939	W 871, p. 472
	1940	W 891, p. 544
	1941	W 921, p. 554
	1942	W 951, p. 572
	1943	W 971
	Shenandoah River at Millville, W.Va.	1895-1909	B 31, p. 47
1928		W 661, p. 215
1929		W 681, p. 232
1930		W 696, p. 254
1931		W 711, p. 282
1932		W 726, p. 342
1933		W 741, p. 359
1934		W 756, p. 357
1935		W 781, p. 395
1936		W 801, p. 376
1937		W 821, p. 413
1938		W 851, p. 459
1939		W 871, p. 460
1940		W 891, p. 527
1941		W 921, p. 543
1942		W 951, p. 557
1943		W 971
South Branch Potomac River near Franklin, W. Va.	1940-41	W 921, p. 526
	1942	W 951, p. 541
	1943	W 971
South Branch Potomac River near Petersburg, W. Va.	1928	W 661, p. 205
	1929	W 681, p. 222
	1930	W 696, p. 242
	1931	W 711, p. 269
	1932	W 726, p. 327
	1933	W 741, p. 347
	1934	W 756, p. 345
	1935	W 781, p. 385
	1936	W 801, p. 366
	1937	W 821, p. 404
	1938	W 851, p. 448
	1939	W 871, p. 448
	1940	W 891, p. 515
	1941	W 921, p. 527
1942	W 951, p. 542	
1943	W 971	
South Branch Potomac River near Springfield, W. Va.	1894-1906	W 192, p. 66
	1928	W 661, p. 206
	1929	W 681, p. 223
	1930	W 696, p. 243
	1931	W 711, p. 270
	1932	W 726, p. 328
	1933	W 741, p. 348
	1934	W 756, p. 346
	1935	W 781, p. 384
	1936	W 801, p. 367
	1937	W 821, p. 405
	1938	W 851, p. 449
	1939	W 871, p. 449
	1940	W 891, p. 516
1941	W 921, p. 528	
1942	W 951, p. 544	
1943	W 971	
South Fork Shenandoah River near Front Royal, Va.	1899-1906	B 31, p. 41
	1930-31	W 711, p. 281
	1932	W 726, p. 341
	1933	W 741, p. 358
	1934	W 756, p. 356
	1935	W 781, p. 394
	1936	W 801, p. 375
	1937	W 821, p. 412
	1938	W 851, p. 458
	1939	W 871, p. 459
	1940	W 891, p. 526
	1941	W 921, p. 542
	1942	W 951, p. 556
	1943	W 971

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Gaging station	Year	Publication
South Fork Shenandoah River near Luray, Va.	1926-27	B 31, p. 38
	1928	W 661, p. 214
	1929	W 681, p. 231
	1930	W 696, p. 253
	1939	W 871, p. 468
	1940	W 891, p. 525
	1941	W 921, p. 541
	1942	W 951, p. 555
	1943	W 971
South Fork Shenandoah River near Lynnwood, Va.	1930-31	W 711, p. 280
	1932	W 726, p. 340
	1933	W 741, p. 357
	1934	W 756, p. 355
	1935	W 781, p. 393
	1936	W 801, p. 374
	1937	W 821, p. 411
	1938	W 851, p. 457
	1939	W 871, p. 457
	1940	W 891, p. 524
	1941	W 921, p. 540
	1942	W 951, p. 554
	1943	W 971
South Fork of South Branch Potomac River near Moorefield, W. Va.	1928	W 661, p. 207
	1929	W 681, p. 224
	1930	W 696, p. 244
	1931	W 711, p. 271
	1932	W 726, p. 329
	1933	W 741, p. 349
	1934	W 756, p. 347
	1935	W 781, p. 385
	1938	W 851, p. 450
	1939	W 871, p. 450
	1940	W 891, p. 517
	1941	W 921, p. 531
	1942	W 951, p. 546
1943	W 971	
South River at Basic City, Va.....	1905-6	W 203, p. 63
South River at Harrison, Va.....	1925-27	B 31, p. 67
	1928	W 661, p. 217
	1929	W 681, p. 237
	1930	W 696, p. 257
	1931	W 711, p. 285
	1932	W 726, p. 345
	1933	W 741, p. 362
	1934	W 756, p. 360
	1935	W 781, p. 398
	1936	W 801, p. 379
	1937	W 821, p. 416
	1938	W 851, p. 462
	1939	W 871, p. 463
	1940	W 891, p. 535
	1941	W 921, p. 545
	1942	W 951, p. 561
1943	W 971	
South River at Port Republic, Va....	1895-99	B 31, p. 70
South River at Waynesboro, Va.....	1928-29	W 681, p. 235
	1930	W 696, p. 256
	1931	W 711, p. 284
	1932	W 726, p. 344
	1933-40	W 891, p. 529
	1941-42	W 951, p. 559
	1943	W 971
Town Creek near Oldtown, Md.....	1928	W 661, p. 208
	1929	W 681, p. 225
	1930	W 696, p. 245
	1931	W 711, p. 272
	1932	W 726, p. 330
	1933	W 741, p. 350
	1934	W 756, p. 348
1935	W 781, p. 386	
Wills Creek near Cumberland, Md.....	1905-6	W 203, p. 58
	1930	W 696, p. 239
	1931	W 711, p. 266
	1932	W 726, p. 324
	1933	W 741, p. 344
	1934	W 756, p. 342
	1935	W 781, p. 381
1936	W 801, p. 364	

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Gaging station	Year	Publication	
Wills Creek near Cumberland, Md.-- Continued	1937	W 821, p. 402	
	1938	W 821, p. 445	
	1939	W 871, p. 445	
	1940	W 891, p. 512	
	1941	W 821, p. 523	
	1942	W 921, p. 539	
	1943	W 971	
Monongahela River Basin			
Big Piney Run near Salisbury, Pa....	1932	W 728, p. 40	
	1933	W 743, p. 41	
	1934	W 756, p. 56	
	1935	W 783, p. 54	
	1936	W 803, p. 103	
	1937	W 823, p. 57	
	1938	W 853, p. 61	
	1939	W 873, p. 82	
	1940	W 893, p. 107	
	1941	W 923, p. 108	
	1942	W 953, p. 113	
	1943	W 973	
	Youghiogheny River at Friendsville, Md.	1898-1905	Report of Flood Commission of Pitts- burg, Pa. (1912), Appendix 1, p.234
		1927	Reports of Department of Foreste and Waters, Pennsylvania, p. 210
1928		Reports of Department of Foreete and Waters, Pennsylvania, p. 224	
1929-31		Reports of Department of Foreste and Waters, Pennsylvania, p. 326	
1941		W 923, p. 102	
1942	W 953, p. 107		
1943	W 973		
Youghiogheny River near Oakland, Md.	1941-42	W 953, p. 106	
	1943	W 973	

OAGINO STATION RECORDS

WICOMICO RIVER BASIN

East Branch Wicomico River near Salisbury, Md.

Location.- Water-stage recorder upstream from spillway of Schumaker Dam, lat. 38°21'05", long. 75°34'11", three-quarters of a mile upstream from Beaglin Branch and 2 miles southeast of Salisbury, Wicomico County. Datum of gage is 8.93 feet above mean sea level (city of Salisbury bench mark).

Drainage area.- 17.3 square miles.

Records available.- October 1929 to September 1943.

Extremes.- Maximum gage height, 14.02 feet, Aug. 23, 1933; minimum daily discharge recorded, 0.6 second-foot during several periods in 1938 and 1939 (leakage under dam and through flood gates).

Monthly discharge of East Branch Wicomico River near Salisbury, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October 4-31.....	12.0	6.6	8.30	0.480	0.50	0.310
November.....	19.0	7.2	11.8	.682	.76	.441
December.....	28.3	7.8	14.5	.838	.97	.542
January.....	24.0	8.4	15.3	.884	1.02	.571
February.....	34.1	12.8	20.2	1.17	1.22	.756
March.....	58.4	8.4	21.1	1.22	1.41	.789
April.....	20.0	8.4	11.7	.676	.75	.437
May.....	15.3	6.6	9.08	.525	.61	.339
June.....	14.4	5.4	7.62	.440	.49	.284
July.....	9.1	3.8	5.67	.328	.38	.212
August.....	7.2	3.3	4.92	.284	.33	.184
September.....	6.6	2.0	3.75	.217	.24	.140
1930-31						
October.....	6.6	2.0	3.52	.203	.23	.131
November.....	7.2	2.4	4.02	.232	.26	.150
December.....	6.5	2.8	3.78	.218	.25	.141
January.....	7.2	2.8	4.17	.241	.28	.156
February.....	6.6	2.8	3.96	.229	.24	.148
March.....	7.2	2.4	4.60	.266	.31	.172
April.....	20.0	7.2	11.5	.665	.74	.430
May.....	27.1	6.6	13.3	.769	.89	.497
June.....	14.4	5.4	8.23	.476	.53	.308
July.....	8.4	3.3	5.05	.292	.34	.189
August.....	22.0	3.3	8.41	.486	.56	.314
September.....	24.0	4.3	8.26	.477	.53	.308
The year.....	27.1	2.0	6.57	.380	5.16	.246
1931-32						
October.....	12.8	5.4	7.93	.458	.53	.296
November.....	11.2	4.8	6.86	.397	.44	.257
December.....	12.0	4.3	7.05	.408	.47	.264
January.....	76.1	4.8	21.7	1.25	1.44	.808
February.....	45.4	16.2	22.6	1.31	1.41	.847
March.....	98.2	12.0	31.0	1.79	2.06	1.16
April.....	57.8	16.2	26.8	1.55	1.73	1.00
May.....	86.0	9.1	23.5	1.36	1.57	.879
June.....	24.0	9.8	14.3	.827	.92	.535
July.....	12.0	6.6	8.00	.462	.53	.299
August.....	11.2	4.3	7.01	.405	.47	.262
September.....	16.2	3.3	6.39	.369	.41	.238
The year.....	98.2	3.3	15.2	.879	11.98	.568
1932-33						
October.....	18.0	4.8	8.56	.495	.57	.320
November.....	31.8	8.4	17.0	.983	1.10	.635
December.....	59.3	9.8	23.5	1.36	1.57	.879
January.....	68.2	18.0	31.9	1.84	2.12	1.19
February.....	111	23.0	48.1	2.78	2.90	1.80
March.....	31.8	17.1	23.3	1.35	1.56	.873
April.....	120	22.0	42.2	2.44	2.72	1.58
May.....	35.3	14.4	22.5	1.30	1.50	.840
June.....	20	7.2	11.0	.636	.71	.411
July.....	63.7	7.1	17.3	1.00	1.15	.646
August 1-21.....	44.4	9.2	13.2	.763	.89	.493
September.....						
1934						
May 8-31.....	140	26.1	61.6	3.56	3.18	2.30
June.....	42.5	12.3	21.5	1.24	1.38	.801
July 1-29, 31.....	65.4	8.9	15.1	.873	.97	.564
August.....	50.2	9.1	18.7	1.08	1.24	.698
September 1-7, 12-30.....	72.7	10.7	28.0	1.62	1.57	1.05

Monthly discharge of East Branch Wicomico River near Selisbury, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	58.5	13.2	26.7	1.54	1.78	0.995
November.....	41.0	16.1	22.1	1.28	1.43	.827
December.....	45.5	18.1	32.4	1.87	2.16	1.21
January 1-22.....	74.6	19.2	34.3	1.98	1.62	1.28
February 4-28.....	77.3	24.2	40.8	2.36	2.19	1.53
March 1-8, 22-31.....	35.8	18.8	27.2	1.57	1.05	.701
April.....	197	19.8	47.0	2.72	3.04	1.76
May.....	44.2	14.9	22.9	1.32	1.52	.853
June.....	65.2	10.6	20.1	1.16	1.29	.750
July.....	67.1	10.6	26.2	1.51	1.74	.976
August.....	29.0	9.0	13.8	.798	.92	.516
September.....						
1936						
May 8-31.....	21.3	11.8	14.5	.838	.75	.542
June.....	26.2	8.7	14.0	.809	.90	.523
July.....	20.2	8.5	11.8	.682	.79	.441
August.....	218	7.1	22.8	1.32	1.52	.853
September 1-15, 23-30.....	67.0	11.6	21.4	1.24	1.06	.801
1936-37						
October.....	127	15.1	30.4	1.76	2.03	1.14
November.....	24.4	10.8	15.8	.913	1.02	.590
December.....	124	14.2	39.4	2.28	2.63	1.47
January 1-17.....	200	38.8	78.7	4.55	2.88	2.94
February 17-28.....	79.2	38.8	56.4	3.26	1.45	2.11
March.....	150	20.0	44.7	2.58	2.97	1.67
April 1-26, 28-30.....	167	19.0	43.7	2.53	2.73	1.64
May.....	41.6	15.1	24.9	1.44	1.66	.931
June.....	120	10.8	20.6	1.19	1.33	.769
July.....	278	13.3	34.0	1.97	2.27	1.27
August 1-22, 30, 31.....	23.3	10.0	13.5	.780	.70	.504
September.....	28.3	8.0	12.5	.723	.81	.467
1937-38						
October.....	23.4	9.0	13.2	.763	.88	.493
November.....	68	10.5	26.6	1.54	1.72	.995
December.....	45	16.4	25.4	1.47	1.70	.950
January.....	76	20.3	32.2	1.86	2.14	1.20
February.....	79	15.5	29.8	1.72	1.79	1.11
March 20-31.....	37	19.1	26.8	1.55	.69	1.00
April 1-17.....	55	20.2	30.0	1.73	1.09	1.12
July.....	230	10.4	43.4	2.51	2.89	1.62
August.....	34	12.0	20.4	1.18	1.36	.763
September.....	210	.8	42.3	2.45	2.73	1.58
1938-39						
October.....	100	.6	28.4	1.64	1.88	1.06
November.....	75	17.3	30.9	1.79	2.00	1.16
December.....	40.0	16.4	27.6	1.60	1.84	1.03
January.....	80	22.3	43.6	2.52	2.90	1.63
February.....	84	34.6	54.5	3.15	3.28	2.04
March.....	219	30.6	52.4	3.03	3.49	1.96
April.....	198	29.3	57.7	3.34	3.73	2.16
May.....	41.3	13.6	21.4	1.24	1.43	.801
June.....	39.0	.6	14.3	.827	.92	.535
July.....	46	9.6	13.6	.786	.91	.508
August.....	31.8	5.6	13.1	.757	.87	.489
September.....	67	12	21.0	1.21	1.35	.782
The year.....	219	.6	31.4	1.82	24.61	1.18
1939-40						
October.....	200	17.5	37.4	2.16	2.49	1.40
November.....	60	16.5	26.4	1.53	1.71	.989
December.....	17.0	12.5	14.7	.850	.98	.549
January.....	29	12.5	16.9	.977	1.13	.631
February.....	80	16.0	40.1	2.32	2.50	1.50
March.....	72	25	39.6	2.29	2.64	1.48
April.....	89	22	37.5	2.17	2.42	1.40
May.....	68	12.0	21.6	1.25	1.44	.808
June.....	70	.7	17.5	1.01	1.13	.653
July.....	47	7.9	12.4	.717	.83	.463
August.....	20	8.0	10.7	.618	.71	.399
September.....	11.5	6.6	8.13	.470	.52	.304
The year.....	200	.7	23.5	1.36	18.50	.879

Monthly discharge of East Branch Wicomico River near Salisbury, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	12	6.5	7.98	0.461	0.53	0.298
November.....	35	6.4	14.6	.844	.94	.545
December.....	29	9.4	15.2	.879	1.01	.568
January.....	55	11	26.3	1.52	1.75	.982
February.....	44	20	27.1	1.57	1.63	1.01
March.....	92	20	32.0	1.85	2.13	1.20
April.....	106	19	36.0	2.08	2.32	1.34
May.....	18	10	13.6	.786	.91	.508
June.....	32	8.7	13.0	.751	.84	.485
July.....	20	8.7	12.1	.699	.81	.452
August.....	18	6.5	8.38	.484	.56	.313
September.....	11	5.3	6.67	.386	.43	.249
The year.....	106	5.3	17.7	1.02	13.86	.659
1941-42						
October.....	9.6	4.7	6.00	.347	.40	.224
November.....	7.3	5.4	6.12	.354	.39	.229
December.....	15	5.5	7.25	.419	.48	.271
January.....	13	5.5	6.87	.397	.46	.257
February.....	15	6.2	8.95	.517	.54	.334
March.....	357	6.2	43.0	2.49	2.86	1.61
April.....	126	18	32.8	1.90	2.11	1.23
May.....	20	11	15.0	.867	1.00	.560
June.....	35	8.5	15.0	.867	.97	.560
July.....	26	7.7	12.4	.717	.83	.463
August.....	32	9.3	15.5	.896	1.03	.579
September.....	20	7.9	10.4	.601	.67	.388
The year.....	357	4.7	15.0	.867	11.74	.560
1942-43						
October.....	25	7.9	12.6	.728	.84	.471
November.....	19	11	13.5	.780	.87	.504
December.....	30	14	18.8	1.09	1.25	.704
January.....	53	15	21.9	1.27	1.46	.821
February.....	79	24	36.0	2.08	2.17	1.34
March.....	35	21	28.0	1.62	1.87	1.05
April.....	59	18	26.3	1.52	1.70	.982
May.....	29	16	20.7	1.20	1.38	.776
June.....	17	8.6	11.8	.682	.76	.441
July.....	16	5.6	8.93	.516	.60	.333
August.....	60	6.2	9.59	.554	.64	.358
September.....	17	5.6	8.08	.467	.52	.302
The year.....	79	5.6	17.9	1.03	14.06	.666

Yearly discharge of East Branch Wicomico River near Salisbury, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	-	-	-	-	9.16	0.529	7.19	0.342
1931.....	6.57	.380	5.16	.246	7.45	.451	5.86	.279
1932.....	15.2	.879	11.98	.568	17.5	1.01	13.78	.653
1939.....	31.4	1.82	24.61	1.18	30.7	1.77	24.06	1.14
1940.....	23.5	1.36	18.50	.879	20.1	1.16	15.80	.760
1941.....	17.7	1.02	13.86	.659	16.1	.931	12.65	.602
1942.....	15.0	.867	11.74	.560	17.1	.988	13.43	.639
1943.....	17.9	1.03	14.06	.666	-	-	-	-

ELK RIVER BASIN

8ig Elk Creek at Elk Mills, Md.

Location.- Wire-weight gage, lat. 39°39'26", long. 75°49'20", on highway bridge at Elk Mills, Cecil County and 7 miles upstream from Little Elk Creek.

Drainage area.- 52.6 square miles.

Records available.- April 1932 to September 1943.

Extremes.- Maximum discharge, 10,600 second-feet July 5, 1937 (gage height, 14.5 feet, from floodmarks), from rating curve extended above 2,000 second-feet on basis of velocity-area study; minimum observed, 7 second-feet Sept. 19, 22-24, 1932 (gage height 2.09 feet).

Maximum stage known, about 19 feet in June 1884.

Remarks.- Slight regulation from mills above station.

Monthly discharge of 8ig Elk Creek at Elk Mills, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932						
April 10-30.....	125	58	53.9	1.02	0.80	0.659
May.....	373	33	65.4	1.24	1.43	.801
June.....	400	23	50.5	.960	1.07	.620
July.....	33	13	19.0	.361	.42	.233
August.....	60	10	17.2	.327	.38	.211
September.....	16	7	9.95	.189	.21	.122
1932-33						
October.....	601	9.5	50.7	.964	1.11	.623
November.....	282	26	61.8	1.17	1.30	.756
December.....	104	29	46.9	.892	1.05	.577
January.....	534	32	64.8	1.23	1.42	.795
February.....	320	40	70.7	1.34	1.40	.866
March.....	407	43	99.4	1.89	2.18	1.22
April.....	747	70	146	2.78	3.10	1.80
May.....	152	57	88.4	1.68	1.94	1.09
June.....	251	32	57.5	1.09	1.22	.704
July.....	402	24	63.9	1.21	1.40	.782
August.....	2,710	21	224	4.26	4.91	2.75
September.....	370	49	83.0	1.58	1.76	1.02
The year.....	2,710	9.5	88.3	1.68	22.77	1.09
1933-34						
October.....	416	43	63.1	1.20	1.38	.776
November.....	136	45	62.6	1.19	1.33	.769
December.....	176	22	52.0	.989	1.14	.639
January.....	242	16	74.5	1.42	1.64	.918
February.....	158	28	50.4	.958	1.00	.619
March.....	651	40	129	2.45	2.82	1.58
April.....	377	69	106	2.02	2.25	1.31
May.....	256	53	86.2	1.64	1.89	1.06
June.....	348	37	63.7	1.21	1.35	.782
July.....	51	22	32.8	.624	.72	.403
August.....	242	20	44.9	.854	.98	.552
September.....	271	19	53.3	1.01	1.13	.653
The year.....	651	16	68.3	1.30	17.63	.840
1934-35						
October.....	142	31	39.8	.757	.87	.489
November.....	174	29	46.7	.888	.99	.574
December.....	240	31	64.1	1.22	1.41	.789
January.....	280	37	78.8	1.50	1.73	.969
February.....	500	55	115	2.19	2.28	1.42
March.....	226	67	91.3	1.74	2.01	1.12
April.....	525	59	101	1.92	2.14	1.24
May.....	208	46	67.8	1.29	1.49	.834
June.....	280	37	67.5	1.28	1.43	.827
July.....	1,100	35	109	2.07	2.39	1.34
August.....	101	27	40.6	.772	.89	.499
September.....	550	30	89.3	1.70	1.90	1.10
The year.....	1,100	27	75.5	1.44	19.53	.931
1936						
January 15-31.....	272	95	136	2.59	1.64	1.67
February.....	1,000	90	236	4.49	4.84	2.90
March.....	1,280	80	225	4.28	4.93	2.77
April.....	800	80	137	2.60	2.90	1.68
May.....	184	46	71.8	1.37	1.58	.885
June.....	138	35	49.8	.947	1.06	.612
July.....	256	23	39.9	.759	.88	.491
August.....	97	17	27.9	.530	.61	.343
September.....	21	15	17.4	.331	.37	.214

Monthly discharge of Big Elk Creek at Elk Mills, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	114	17	27.6	0.525	0.61	0.339
November.....	37	17	22.1	.420	.47	.271
December.....	304	21	68.1	1.29	1.49	.834
January.....	241	40	109	2.07	2.39	1.34
February.....	410	59	90.5	1.72	1.79	1.11
March.....	158	50	72.6	1.38	1.59	.892
April.....	256	47	85.6	1.63	1.82	1.05
May.....	145	37	58.8	1.12	1.29	.724
June.....	170	28	48.3	.918	1.02	.593
July.....	1,630	18	120	2.28	2.63	1.47
August.....	1,450	11	154	2.93	3.38	1.89
September.....	76	31	46.0	.875	.98	.566
The year.....	1,630	11	75.3	1.43	19.46	.924
1937-38						
October.....	768	34	89.6	1.70	1.96	1.10
November.....	1,210	39	102	1.94	2.16	1.25
December.....	104	40	56.4	1.07	1.23	.692
January.....	380	43	68.2	1.30	1.50	.840
February.....	245	41	76.1	1.45	1.51	.937
March.....	182	36	70.8	1.35	1.56	.873
April.....	125	44	58.7	1.12	1.25	.724
May.....	113	39	49.8	.947	1.09	.612
June.....	800	25	89.8	1.71	1.91	1.11
July.....	840	31	122	2.32	2.68	1.50
August.....	192	31	62.6	1.19	1.37	.769
September.....	860	30	112	2.13	2.38	1.38
The year.....	1,210	25	79.7	1.52	20.60	.992
1938-39						
October.....	72	37	49.5	.941	1.08	.608
November.....	65	39	46.5	.884	.99	.571
December.....	224	43	70.7	1.34	1.54	.866
January.....	695	40	80.5	1.53	1.76	.989
February.....	1,190	86	199	3.78	3.94	2.44
March.....	235	88	127	2.41	2.78	1.56
April.....	340	86	143	2.72	3.04	1.76
May.....	95	47	70.7	1.34	1.54	.866
June.....	158	37	58.4	1.11	1.24	.717
July.....	74	20	33.9	.644	.74	.416
August.....	1,340	13	75.7	1.44	1.66	.931
September.....	95	19	29.2	.555	.62	.359
The year.....	1,340	13	81.2	1.54	20.93	.995
1939-40						
October.....	247	28	54.6	1.04	1.20	.672
November.....	108	31	40.1	.762	.85	.492
December.....	65	25	37.0	.703	.81	.454
January.....	461	24	51.0	.970	1.12	.627
February.....	760	26	99.1	1.88	2.03	1.22
March.....	978	35	156	2.97	3.42	1.92
April.....	626	54	118	2.24	2.50	1.45
May.....	348	55	99.7	1.90	2.19	1.23
June.....	114	33	56.7	1.08	1.20	.698
July.....	48	24	31.8	.605	.70	.391
August.....	128	22	32.0	.608	.70	.393
September.....	254	22	37.7	.717	.80	.463
The year.....	978	22	67.6	1.29	17.52	.834
1940-41						
October.....	105	24	33.6	.639	.74	.413
November.....	313	28	66.3	1.26	1.41	.814
December.....	285	31	50.1	.952	1.10	.615
January.....	328	21	68.4	1.30	1.50	.840
February.....	950	26	94.4	1.79	1.87	1.16
March.....	596	35	91.7	1.74	2.01	1.12
April.....	210	36	61.0	1.16	1.29	.750
May.....	51	26	32.7	.622	.72	.402
June.....	70	22	32.2	.612	.68	.396
July.....	1,110	18	84.2	1.60	1.84	1.03
August.....	233	16	28.1	.534	.62	.345
September.....	18	12	14.0	.266	.30	.172
The year.....	1,110	12	54.5	1.04	14.08	.672

Monthly discharge of Big Elk Creek at Elk Mills, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	27	10	14.3	0.272	0.31	0.176
November.....	47	11	17.4	.331	.37	.214
December.....	200	13	32.7	.622	.72	.402
January.....	260	13	31.4	.597	.69	.386
February.....	942	18	68.4	1.30	1.35	.840
March.....	829	21	87.3	1.66	1.91	1.07
April.....	171	29	46.1	.876	.96	.566
May.....	250	26	46.0	.875	1.01	.566
June.....	86	19	27.1	.515	.58	.333
July.....	310	15	56.8	1.05	1.24	.698
August.....	661	22	117	2.22	2.57	1.43
September.....	284	22	43.6	.829	.92	.536
The year.....	942	10	49.0	.932	12.65	.602
1942-43						
October.....	441	22	69.9	1.33	1.53	.860
November.....	176	33	56.4	1.07	1.20	.692
December.....	547	40	103	1.96	2.25	1.27
January.....	140	55	68.7	1.31	1.51	.847
February.....	341	50	96.7	1.84	1.91	1.19
March.....	250	60	94.4	1.79	2.07	1.16
April.....	816	64	106	2.02	2.26	1.31
May.....	1,430	54	168	3.19	3.69	2.06
June.....	395	40	95.8	1.82	2.03	1.18
July.....	102	33	59.4	1.13	1.30	.730
August.....	31	16	23.7	.451	.52	.291
September.....	33	14	17.8	.338	.38	.218
The year.....	1,430	14	80.0	1.52	20.65	.982

Yearly Discharge of Big Elk Creek at Elk Mills, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1933.....	88.3	1.68	22.77	1.09	89.9	1.71	23.18	1.11
1934.....	68.3	1.30	17.63	.840	66.0	1.25	17.05	.808
1935.....	75.5	1.44	19.53	.931	-	-	-	-
1937.....	75.3	1.43	19.46	.924	86.2	1.64	22.24	1.06
1938.....	79.7	1.52	20.60	.982	73.0	1.39	18.86	.898
1939.....	81.2	1.54	20.93	.995	78.2	1.49	20.18	.963
1940.....	67.6	1.29	17.52	.834	69.1	1.31	17.91	.847
1941.....	54.5	1.04	14.08	.672	47.4	.901	12.23	.582
1942.....	49.0	.932	12.65	.602	62.9	1.20	16.23	.776
1943.....	80.0	1.52	20.65	.982	-	-	-	-
Highest....	88.3	1.68	22.77	1.09	89.9	1.71	23.18	1.11
Average....	71.9	1.37	18.58	.885	71.6	1.36	18.48	.879
Lowest.....	49.0	.932	12.65	.602	47.4	.901	12.23	.582

SUSQUEHANNA RIVER BASIN

Broad Creek at Mill Green, Md.

Location.- Chain gage, lat. 39°39'53", long. 76°19'30", at highway bridge in Mill Green, Harford County, and 8 miles upstream from mouth.

Drainage area.- 16.4 square miles.

Records available.- December 1904 to March 1909.

Extremes.- Maximum daily discharge observed, 509 second-feet Feb. 26, 1908; minimum daily observed, 8 second-feet Oct. 18, 1905.

Monthly discharge of Broed Creek at Mill Green, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1904-5						
December 14-31.....	76	-	15.0	0.915	0.61	0.591
January.....	184	-	31.7	1.93	2.22	1.25
February.....	60	-	14.2	.866	.90	.560
March.....	187	29	54.2	3.30	3.80	2.13
April.....	64	26	33.7	2.05	2.29	1.32
May.....	84	16	23.6	1.44	1.66	.931
June.....	86	13	19.8	1.21	1.35	.782
July.....	246	11	29.3	1.79	2.06	1.16
August.....	286	11	29.7	1.81	2.09	1.17
September.....	49	13	16.1	.982	1.10	.635
1905-6						
October.....	111	8	16.0	.976	1.13	.631
November.....	45	9	13.0	.793	.88	.513
December.....	184	11	26.1	1.59	1.83	1.03
January.....	72	16	24.3	1.48	1.71	.957
February.....	132	19	28.9	1.77	1.94	1.14
March.....	139	23	33.0	2.01	2.32	1.30
April.....	181	25	40.3	2.46	2.74	1.59
May.....	28	18	21.8	1.33	1.53	.860
June.....	74	13	20.1	1.23	1.37	.795
July.....	27	11	15.0	.915	1.05	.591
August.....	123	10	21.8	1.33	1.53	.860
September.....	13	9	9.93	.605	.67	.391
The year.....	184	8	22.5	1.37	18.60	.885
1906-7						
October.....	107	9	19.0	1.16	1.34	.750
November.....	36	12	16.4	1.00	1.12	.646
December.....	103	12	23.1	1.41	1.63	.911
January.....	92	-	30.4	1.85	2.13	1.20
February.....	-	-	20.0	1.22	1.27	.789
March.....	278	19	56.8	3.46	3.99	2.24
April.....	43	17	21.2	1.29	1.44	.834
May.....	32	15	18.5	1.13	1.30	.730
June.....	39	13	20.1	1.23	1.37	.795
July.....	64	11	18.4	1.12	1.29	.724
August.....	101	11	20.4	1.24	1.43	.801
September.....	199	10	22.4	1.37	1.53	.885
The year.....	278	10	24.0	1.46	19.84	.944
1907-8						
October.....	26	11	17.1	1.04	1.20	.672
November.....	227	13	36.1	2.20	2.46	1.42
December.....	320	25	58.2	3.55	4.09	2.29
January.....	184	31	46.3	2.82	3.25	1.82
February.....	509	27	65.9	4.02	4.34	2.60
March.....	291	26	41.5	2.53	2.92	1.64
April.....	33	19	24.3	1.48	1.65	.957
May.....	136	18	27.1	1.65	1.90	1.07
June.....	28	13	16.3	.994	1.11	.642
July.....	398	10	31.6	1.93	2.22	1.25
August.....	103	10	16.6	1.01	1.16	.653
September.....	20	10	10.8	.659	.74	.426
The year.....	509	10	32.6	1.99	27.04	1.29
1908-9						
October.....	36	9	12.8	.780	.90	.504
November.....	19	11	13.3	.811	.90	.524
December.....	39	11	14.4	.878	1.01	.567
January.....	69	13	18.8	1.15	1.33	.743
February.....	100	13	26.4	1.61	1.68	1.04
March.....	74	20	33.7	2.05	2.36	1.32

Yearly discharge of Broad Creek at Mill Green, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1905.....	-	-	-	-	25.6	1.56	21.31	1.01
1906.....	22.5	1.37	18.60	.885	22.8	1.39	18.85	.898
1907.....	24.0	1.46	19.84	.944	26.3	1.72	23.50	1.11
1908.....	32.6	1.99	27.04	1.29	26.7	1.63	22.10	1.05

Octoraro Creek near Rising Sun, Md.

Location.- Wire-weight gage, lat. 39°41'27", long. 76°07'38", on Porter Bridge, just downstream from Love Run, and 3½ miles west of Rising Sun, Cecil County. Datum of gage is 73.77 feet above mean sea level, adjustment of 1912.

Drainage area.- 191 square miles.

Records available.- April 1932 to September 1943.

Extremes.- Maximum discharge, 35,000 second-feet Aug. 9, 1942 (gage height, 17.57 feet), from rating curve extended above 5,000 second-feet on basis of area-velocity studies; minimum observed, 24 second-feet Sept. 19, 1932 (gage height, 3.48 feet).

Floods of 1884, 1916, and 1933 reached stages of 24.3, 16.5, and 17.5 feet, respectively, present datum, from floodmarks.

Remarks.- Records do not include a small amount of water diverted by Octoraro Water Co. for use in locomotives. Slight regulation by mills.

Monthly discharge of Octoraro Creek near Rising Sun, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932						
April 9-30.....	394	125	189	0.990	0.81	0.640
May.....	814	125	210	1.10	1.27	.711
June.....	290	71	120	.628	.70	.406
July.....	292	55	77.3	.405	.47	.262
August.....	215	40	61.7	.323	.37	.209
September.....	61	30	40.3	.211	.24	.136
1932-33						
October.....	570	34	98.2	.514	.59	.332
November.....	1,250	103	288	1.51	1.68	.976
December.....	694	107	194	1.02	1.18	.659
January.....	610	139	197	1.03	1.19	.666
February.....	814	129	261	1.37	1.43	.885
March.....	1,590	169	393	2.06	2.38	1.33
April.....	1,810	292	521	2.73	3.05	1.76
May.....	584	255	364	1.91	2.20	1.23
June.....	584	137	217	1.14	1.27	.737
July.....	2,300	96	242	1.27	1.45	.921
August.....	13,700	87	1,074	6.15	7.09	3.97
September.....	980	238	368	1.93	2.15	1.25
The year.....	13,700	34	361	1.89	25.66	1.22
1933-34						
October.....	415	189	232	1.21	1.40	.782
November.....	274	139	176	.921	1.03	.595
December.....	352	116	170	.890	1.03	.575
January.....	584	118	260	1.36	1.57	.879
February.....	250	120	159	.832	.87	.538
March.....	1,540	160	392	2.05	2.36	1.32
April.....	1,630	268	406	2.13	2.38	1.38
May.....	1,280	214	346	1.81	2.09	1.17
June.....	722	158	216	1.13	1.26	.730
July.....	721	101	159	.832	.96	.538
August.....	367	85	135	.707	.82	.457
September.....	980	75	269	1.41	1.57	.911
The year.....	1,630	75	244	1.28	17.34	.827

Monthly discharge of Octoraro Creek near Rising Sun, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	306	115	160	0.838	0.97	0.542
November.....	556	123	189	.990	1.10	.640
December.....	845	182	275	1.44	1.66	.931
January.....	752	170	274	1.43	1.65	.924
February.....	1,200	210	396	2.07	2.16	1.34
March.....	980	286	358	1.87	2.16	1.21
April.....	1,360	249	403	2.11	2.35	1.56
May.....	556	182	269	1.41	1.63	.911
June.....	1,120	158	277	1.45	1.62	.937
July.....	6,540	148	490	2.51	2.89	1.62
August.....	458	115	172	.901	1.04	.562
September.....	1,540	124	287	1.50	1.67	.969
The year.....	6,540	115	294	1.54	20.90	.995
1936						
January 15-31.....	845	250	402	2.10	1.32	1.36
February.....	2,780	210	498	2.61	2.32	1.49
March.....	2,810	327	786	4.12	4.75	2.66
April.....	1,280	308	489	2.55	2.86	1.65
May.....	665	184	271	1.42	1.64	.918
June.....	270	135	176	.821	1.03	.595
July.....	193	93	129	.675	.78	.436
August.....	234	63	103	.539	.62	.348
September.....	91	55	76.9	.403	.45	.260
1936-37						
October.....	187	72	90.5	.474	.55	.306
November.....	106	69	80.0	.419	.47	.271
December.....	1,360	77	203	1.06	1.22	.685
January.....	722	161	336	1.76	2.03	1.14
February.....	1,540	211	323	1.69	1.76	1.09
March.....	584	193	249	1.30	1.50	.840
April.....	814	182	292	1.53	1.71	.989
May.....	435	171	238	1.25	1.44	.808
June.....	435	125	177	.927	1.03	.599
July.....	1,540	104	202	1.06	1.22	.685
August.....	827	96	226	1.18	1.36	.763
September.....	193	96	125	.654	.73	.423
The year.....	1,540	69	211	1.10	15.02	.711
1937-38						
October.....	2,810	96	295	1.54	1.78	.995
November.....	2,210	160	306	1.60	1.78	1.03
December.....	251	175	202	1.06	1.22	.685
January.....	752	150	219	1.15	1.33	.743
February.....	638	165	252	1.32	1.38	.853
March.....	752	217	285	1.49	1.72	.963
April.....	412	165	215	1.13	1.26	.730
May.....	308	129	172	.901	1.04	.582
June.....	3,780	117	323	1.69	1.89	1.09
July.....	1,280	133	342	1.79	2.06	1.16
August.....	980	111	221	1.16	1.34	.750
September.....	1,050	97	206	1.08	1.20	.698
The year.....	3,780	96	253	1.32	18.00	.853
1938-39						
October.....	389	130	167	.874	1.01	.565
November.....	249	120	149	.780	.87	.504
December.....	1,120	173	296	1.55	1.79	1.00
January.....	1,790	130	255	1.34	1.54	.866
February.....	1,530	346	557	2.92	3.04	1.89
March.....	1,120	367	478	2.50	2.88	1.62
April.....	910	367	482	2.52	2.81	1.63
May.....	814	198	297	1.55	1.79	1.00
June.....	1,750	170	273	1.43	1.60	.924
July.....	458	127	194	1.02	1.18	.659
August.....	934	99	190	.995	1.15	.643
September.....	308	91	119	.623	.70	.403
The year.....	1,790	91	286	1.50	20.36	.969

Monthly discharge of Octoraro Creek near Rising Sun, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	2,050	113	250	1.31	1.51	0.847
November.....	458	112	147	.770	.86	.498
December.....	288	110	138	.723	.83	.467
January.....	1,300	105	172	.901	1.04	.582
February.....	980	110	258	1.35	1.46	.873
March.....	1,690	174	352	1.64	2.12	1.19
April.....	1,830	215	450	2.36	2.63	1.53
May.....	752	215	310	1.62	1.87	1.05
June.....	482	159	220	1.15	1.28	.743
July.....	262	96	137	.717	.83	.463
August.....	296	83	128	.670	.77	.433
September.....	1,320	83	191	1.00	1.12	.646
The year.....	2,050	83	229	1.20	16.32	.776
1940-41						
October.....	314	96	135	.707	.82	.457
November.....	1,280	111	262	1.37	1.53	.885
December.....	583	164	233	1.22	1.41	.789
January.....	991	170	263	1.38	1.68	.892
February.....	1,330	150	288	1.51	1.87	.976
March.....	1,250	151	341	1.78	2.06	1.16
April.....	502	162	235	1.23	1.37	.795
May.....	194	107	137	.717	.83	.463
June.....	413	94	154	.806	.90	.521
July.....	858	82	192	1.01	1.16	.653
August.....	528	58	90.8	.475	.55	.307
September.....	282	44	66.3	.347	.39	.224
The year.....	1,330	44	199	1.04	14.17	.672
1941-42						
October.....	66	33	53.3	.279	.32	.180
November.....	137	47	67.4	.353	.39	.228
December.....	722	47	111	.581	.67	.376
January.....	371	70	101	.529	.61	.342
February.....	1,930	80	210	1.10	1.14	.711
March.....	1,380	83	256	1.34	1.55	.866
April.....	352	115	173	.906	1.01	.586
May.....	9,270	96	625	3.27	3.77	2.11
June.....	482	123	202	1.06	1.18	.685
July.....	1,120	101	197	1.03	1.19	.666
August.....	15,000	125	790	4.14	4.77	2.68
September.....	545	105	161	.843	.94	.545
The year.....	15,000	33	247	1.29	17.54	.834
1942-43						
October.....	996	113	248	1.30	1.50	.840
November.....	600	157	236	1.24	1.38	.801
December.....	1,740	160	384	2.01	2.32	1.30
January.....	560	218	286	1.50	1.72	.969
February.....	1,330	143	403	2.11	2.20	1.36
March.....	911	218	382	2.00	2.30	1.29
April.....	962	234	327	1.71	1.91	1.11
May.....	1,500	218	380	1.99	2.29	1.29
June.....	305	157	218	1.14	1.27	.737
July.....	1,520	129	231	1.21	1.39	.782
August.....	134	68	96.7	.506	.58	.327
September.....	83	45	66.4	.348	.39	.225
The year.....	1,740	45	271	1.42	19.25	.918

Yearly discharge of Octoraro Creek near Rising Sun, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1937.....	361	1.89	25.66	1.22	361	1.89	25.67	1.22
1934.....	244	1.28	17.34	.827	247	1.29	17.61	.834
1935.....	294	1.54	20.90	.995	-	-	-	-
1937.....	211	1.10	15.02	.711	247	1.29	17.56	.834
1938.....	253	1.32	18.00	.853	237	1.24	16.89	.801
1939.....	286	1.50	20.36	.969	280	1.47	19.89	.950
1940.....	229	1.20	16.32	.776	237	1.24	16.88	.801
1941.....	199	1.04	14.17	.672	166	.869	11.79	.562
1942.....	247	1.29	17.54	.834	300	1.57	21.36	1.01
1943.....	271	1.42	19.25	.918	-	-	-	-
Highest.....	361	1.89	25.66	1.22	361	1.89	25.67	1.22
Average.....	260	1.36	18.46	.879	259	1.36	18.46	.879
Lowest.....	199	1.04	14.17	.672	166	.869	11.79	.562

Octoraro Creek at Rowlandsville, Md.

Location.- Wira gage, lat. 39°39'40", long. 76°08'45", fastened to highway bridge at Rowlandsville, Cecil County, immediately downstream from Basin Run, and 0.7 mile upstream from Susquehanna River.

Drainage area.- 217 square miles.

Records available.- November 1896 to September 1899.

Extremes.- Maximum daily discharge, 6,150 second-feet Feb. 7, 1897; minimum daily, 102 second-feet Sept. 6, 1899.

Remarks.- High stages of Susquehanna River probably causes backwater at this station.

Monthly discharge of Octoraro Creek at Rowlandsville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1896-97						
November 22-30.....	540	145	211	0.972	0.33	0.628
December.....	225	145	158	.728	.84	.471
January.....	2,580	155	329	1.52	1.75	.982
February.....	6,150	170	1,021	4.71	4.90	3.04
March.....	500	170	230	1.06	1.22	.685
April.....	2,000	170	370	1.71	1.90	1.11
May.....	920	170	321	1.48	1.70	.957
June.....	1,270	145	222	1.02	1.14	.659
July.....	520	135	192	.885	1.02	.572
August.....	960	130	186	.857	.99	.554
September.....	170	130	136	.627	.70	.405
1897-98						
October.....	170	130	141	.650	.75	.420
November.....	1,840	155	298	1.37	1.53	.885
December.....	820	185	275	1.27	1.46	.821
January.....	705	220	306	1.41	1.62	.911
February.....	985	220	325	1.50	1.56	.969
March.....	985	245	315	1.45	1.67	.937
April.....	535	245	322	1.48	1.66	.957
May.....	1,070	300	523	2.41	2.76	1.56
June.....	562	220	282	1.30	1.45	.840
July.....	375	200	250	1.06	1.22	.685
August.....	1,690	200	415	1.91	2.20	1.23
September.....	480	180	243	1.12	1.25	.724
The year.....	1,840	130	306	1.41	1.62	.911
1898-99						
October.....	375	200	225	1.04	1.20	.672
November.....	1,600	220	650	3.00	3.34	1.94
December.....	3,320	245	951	4.38	5.05	2.83
January.....	1,470	225	642	2.96	3.41	1.91
February.....	1,950	325	822	3.79	3.95	2.45
March.....	2,090	285	763	3.52	4.05	2.28
April.....	960	345	506	2.34	2.61	1.51
May.....	525	305	338	1.79	2.06	1.16
June.....	345	185	254	1.17	1.30	.756
July.....	345	130	186	.866	1.00	.560
August.....	960	120	181	.834	.96	.539
September.....	1,470	102	262	1.21	1.35	.792
The year.....	3,320	102	484	2.23	30.28	1.44

Yearly discharge of Octoraro Creek at Rowlandsville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1897.....	-	-	-	-	305	1.41	19.06	0.911
1898.....	306	1.41	19.15	0.911	400	1.94	25.00	1.19
1899.....	484	2.23	30.28	1.44	-	-	-	-

Deer Creek above Kellogg Branch, at Rocks, Md.

Location.- Staff gage, lat. 39°38'08", long. 76°24'41", at Rocks, Harford County, and 0.2 mile upstream from Kellogg Branch. Prior to Aug. 17, 1933 water-stage recorder at same site and datum.

Drainage area.- 92.1 square miles.

Records available.- July 1933 to February 1934.

Extremes.- Maximum daily discharge, 6,760 second-feet Aug. 23, 1933; minimum daily, 55 second-feet Dec. 12, 1932, Feb. 17-20, 25-28, 1934.

Remarks.- Low flow slightly regulated by mills above station. Records not previously published.

Monthly discharge of Deer Creek above Kellogg Branch at Rocks, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933						
July 27-31.....	94	71	79.2	0.860	0.16	0.556
August.....	6,780	66	471	5.11	5.89	3.30
September.....	436	104	144	1.56	1.74	1.01
1933-34						
October.....	201	88	102	1.11	1.28	.717
November.....	129	75	86.5	.939	1.05	.607
December.....	130	65	79.6	.864	1.00	.558
January.....	257	68	110	1.19	1.37	.769
February.....	80	65	70.9	.770	.80	.496

Deer Creek at Rocks, Md.

Location.- Water-stage recorder, lat. 39°37'49", long. 76°24'13", three-quarters of a mile southeast of Rocks, Harford County, 1.2 miles upstream from Stirrup Run.

Datum of gage is 250.401 feet above mean sea level (city of Baltimore bench mark).

Drainage area.- 94.4 square miles.

Records available.- October 1926 to September 1943.

Extremes.- Maximum discharge, 22,000 second-feet Aug. 23, 1933 (gage height, 17.7 feet, from floodmarks), by slope-area method; minimum 8 second-feet (regulated) Dec. 16, 1930, and Jan. 26, 1939; minimum daily, 13 second-feet Aug. 2, 1931.

Remarks.- Low flow slightly regulated by mills above station.

Monthly discharge of Deer Creek at Rocks, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1926-27						
October.....	564	92	139	1.46	1.68	0.944
November 1-15.....	300	112	148	1.57	.87	1.01
December 2-31.....	726	92	168	1.76	1.99	1.15
January.....	618	101	182	1.93	2.22	1.25
February.....	308	112	170	1.80	1.87	1.16
March.....	212	112	137	1.45	1.67	.937
April.....	822	101	165	1.75	1.95	1.13
May.....	212	101	134	1.42	1.64	.918
June.....	145	68	91.4	.968	1.08	.626
July.....	476	62	87.7	.929	1.07	.600
August.....	289	51	77.9	.825	.95	.533
September.....	292	44	59.8	.633	.71	.409

Monthly discharge of Deer Creek at Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1927-28						
October.....	427	44	114	1.21	1.40	0.782
November.....	420	63	95.6	1.01	1.13	.653
December.....	499	70	131	1.39	1.60	.898
January.....	162	72	92.3	.978	1.13	.632
February.....	979	-	233	2.47	2.66	1.60
March.....	186	105	138	1.46	1.68	.944
April.....	1,230	101	189	2.00	2.23	1.29
May.....	308	114	164	1.74	2.01	1.12
June.....	758	101	205	2.17	2.42	1.40
July.....	695	112	181	1.92	2.21	1.24
August.....	2,800	99	327	3.46	3.99	2.24
September.....	279	148	190	2.01	2.24	1.30
The year.....	2,800	44	171	1.91	24.70	1.17
1928-29						
October.....	184	109	130	1.39	1.59	.692
November.....	209	94	110	1.17	1.30	.756
December.....	181	-	102	1.08	1.24	.648
January.....	400	-	127	1.35	1.56	.873
February.....	1,050	-	205	2.17	2.26	1.40
March.....	1,400	91	210	2.22	2.56	1.43
April.....	1,320	89	219	2.32	2.59	1.50
May.....	376	119	160	1.69	1.95	1.08
June.....	656	86	129	1.37	1.53	.885
July.....	-	-	77.5	.821	.95	.531
August.....	117	49	63.3	.671	.77	.434
September.....	388	49	87.2	.924	1.03	.597
The year.....	1,400	49	134	1.42	19.33	.916
1929-30						
October.....	1,410	89	188	1.99	2.29	1.29
November.....	372	80	130	1.38	1.54	.892
December.....	151	-	93.1	.986	1.14	.637
January.....	120	-	83.8	.886	1.02	.574
February.....	408	-	137	1.45	1.51	.937
March.....	496	105	141	1.49	1.72	.963
April.....	363	99	138	1.46	1.63	.944
May.....	157	73	91.9	.974	1.12	.630
June.....	208	61	86.6	.939	1.05	.607
July.....	75	35	50.0	.530	.61	.343
August.....	49	22	33.9	.359	.41	.232
September.....	134	26	42.7	.452	.50	.282
The year.....	1,410	22	101	1.07	14.54	.692
1930-31						
October.....	40	21	30.4	.322	.37	.208
November.....	-	-	35.9	.380	.42	.246
December.....	448	-	62.2	.659	.76	.426
January.....	-	-	106	1.12	1.29	.724
February.....	-	-	73.5	.779	.81	.503
March.....	223	44	72.3	.766	.88	.495
April.....	193	50	78.3	.829	.92	.536
May.....	184	46	66.8	.730	.84	.472
June.....	260	32	57.7	.611	.68	.395
July.....	55	21	34.6	.367	.42	.237
August.....	477	13	83.7	.887	1.02	.973
September.....	148	25	40.8	.432	.48	.279
The year.....	-	13	62.0	.657	8.89	.425
1931-32						
October.....	56	23	30.2	.320	.37	.207
November.....	42	27	32.5	.344	.38	.222
December.....	89	30	41.7	.442	.51	.286
January.....	239	47	79.6	.843	.97	.545
February.....	120	46	60.2	.638	.69	.412
March.....	937	47	113	1.20	1.36	.776
April.....	197	67	86.0	1.02	1.14	.659
May.....	522	68	106	1.12	1.29	.724
June.....	135	48	70.6	.748	.83	.483
July.....	213	33	55.3	.588	.68	.380
August.....	143	29	52.1	.552	.64	.357
September.....	300	22	42.2	.447	.50	.288
The year.....	937	22	65.1	.690	9.38	.446

Monthly discharge of Deer Creek at Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	539	26	97.5	1.03	1.19	0.666
November.....	720	78	139	1.47	1.64	.950
December.....	231	50	91.6	.969	1.12	.626
January.....	441	80	107	1.13	1.30	.730
February.....	268	90	123	1.30	1.35	.840
March.....	457	91	163	1.73	1.99	1.12
April.....	873	150	275	2.91	3.25	1.88
May.....	349	154	210	2.22	2.56	1.43
June.....	642	89	136	1.44	1.61	.931
July.....	485	67	106	1.12	1.29	.724
August.....	6,950	64	481	5.10	5.88	3.30
September.....	447	105	146	1.54	1.72	.995
The year.....	6,950	26	173	1.83	24.90	1.18
1933-34						
October.....	207	89	105	1.11	1.28	.717
November.....	135	78	86.6	.917	1.02	.593
December.....	125	65	82.4	.873	1.01	.564
January.....	266	70	114	1.21	1.40	.782
February.....	80	65	70.9	.751	.78	.485
March.....	920	65	169	1.79	2.06	1.16
April.....	260	109	144	1.53	1.71	.989
May.....	632	107	154	1.63	1.88	1.05
June.....	256	75	106	1.12	1.25	.724
July.....	298	52	74.0	.784	.90	.507
August.....	382	54	108	1.14	1.31	.737
September.....	1,950	51	211	2.24	2.50	1.45
The year.....	1,950	51	119	1.26	17.10	.814
1934-35						
October.....	146	78	92.0	.975	1.12	.630
November.....	513	70	97.5	1.03	1.15	.666
December.....	623	90	137	1.45	1.67	.937
January.....	266	90	123	1.30	1.50	.840
February.....	406	100	167	1.77	1.84	1.14
March.....	272	129	157	1.66	1.91	1.07
April.....	573	125	197	2.09	2.33	1.35
May.....	243	100	134	1.42	1.64	.918
June.....	153	78	103	1.09	1.22	.704
July.....	353	72	115	1.22	1.41	.789
August.....	203	47	67.9	.719	.83	.465
September.....	1,510	46	146	1.55	1.73	1.00
The year.....	1,510	46	128	1.36	18.35	.879
1935-36						
October.....	170	51	61.5	.651	.75	.421
November.....	660	54	108	1.14	1.27	.737
December.....	125	65	84.6	.896	1.03	.579
January.....	1,730	80	250	2.65	3.06	1.71
February.....	1,340	90	260	2.75	2.97	1.78
March.....	1,160	144	311	3.29	3.79	2.13
April.....	514	142	199	2.11	2.35	1.36
May.....	228	91	122	1.29	1.49	.834
June.....	186	70	92.7	.982	1.10	.635
July.....	173	52	74.9	.793	.91	.513
August.....	86	40	52.2	.553	.64	.357
September.....	66	33	42.4	.449	.50	.290
The year.....	1,780	33	138	1.46	19.86	.944
1936-37						
October.....	118	40	55.4	.587	.68	.379
November.....	62	41	46.5	.493	.55	.319
December.....	428	45	107	1.13	1.30	.730
January.....	252	83	145	1.54	1.73	.995
February.....	1,370	108	198	2.10	2.19	1.36
March.....	184	116	142	1.50	1.73	.969
April.....	690	108	189	2.00	2.23	1.29
May.....	226	110	148	1.57	1.81	1.01
June.....	298	92	139	1.47	1.64	.950
July.....	1,590	77	160	1.69	1.95	1.09
August.....	326	58	103	1.09	1.26	.704
September.....	93	56	67.3	.713	.80	.461
The year.....	1,590	40	125	1.32	17.92	.853

Monthly discharge of Deer Creek at Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	1,290	54	147	1.56	1.80	1.01
November.....	1,960	82	191	2.02	2.25	1.31
December.....	130	92	108	1.14	1.31	.737
January.....	249	80	107	1.13	1.30	.730
February.....	257	84	114	1.21	1.26	.782
March.....	266	97	129	1.37	1.58	.885
April.....	189	91	109	1.15	1.28	.745
May.....	173	76	94.1	.997	1.15	.644
June.....	529	56	90.0	.953	1.06	.616
July.....	514	55	132	1.40	1.61	.905
August.....	922	50	110	1.17	1.35	.756
September.....	404	51	80.7	.855	.95	.553
The year.....	1,960	50	118	1.25	16.90	.808
1938-39						
October.....	99	54	61.8	.655	.76	.423
November.....	92	56	63.3	.671	.75	.434
December.....	324	67	105	1.11	1.28	.717
January.....	923	50	106	1.12	1.29	.724
February.....	734	134	220	2.33	2.43	1.51
March.....	302	144	185	1.96	2.26	1.27
April.....	446	142	204	2.16	2.41	1.40
May.....	183	100	135	1.43	1.65	.924
June.....	610	82	128	1.36	1.52	.879
July.....	168	60	79.7	.844	.97	.545
August.....	374	44	72.8	.771	.89	.498
September.....	201	40	59.5	.630	.70	.407
The year.....	923	40	118	1.25	16.91	.808
1939-40						
October.....	532	50	90.1	.954	1.10	.617
November.....	130	50	62.0	.657	.73	.425
December.....	90	46	58.3	.618	.71	.399
January.....	357	46	69.8	.739	.85	.478
February.....	1,090	50	136	1.44	1.55	.931
March.....	928	78	168	1.78	2.05	1.15
April.....	906	93	234	2.48	2.77	1.60
May.....	405	116	167	1.77	2.04	1.14
June.....	214	84	111	1.18	1.32	.763
July.....	138	52	72.9	.772	.89	.499
August.....	161	48	79.2	.839	.97	.542
September.....	1,110	49	112	1.19	1.33	.769
The year.....	1,110	46	113	1.20	16.31	.776
1940-41						
October.....	132	58	70.3	.745	.86	.482
November.....	390	66	129	1.37	1.53	.855
December.....	209	85	114	1.21	1.40	.782
January.....	288	96	132	1.40	1.61	.905
February.....	616	99	160	1.69	1.76	1.09
March.....	495	94	172	1.82	2.10	1.18
April.....	334	96	134	1.42	1.59	.916
May.....	431	76	104	1.10	1.28	.711
June.....	1,060	74	159	1.68	1.88	1.09
July.....	195	54	87.1	.923	1.06	.597
August.....	166	40	54.6	.578	.67	.374
September.....	88	25	39.8	.422	.47	.273
The year.....	1,060	25	113	1.20	16.21	.776
1941-42						
October.....	45	28	33.9	.359	.41	.232
November.....	69	32	41.4	.439	.49	.284
December.....	202	34	59.8	.633	.73	.409
January.....	216	34	55.9	.592	.68	.383
February.....	1,050	50	105	1.11	1.16	.717
March.....	668	48	116	1.23	1.42	.795
April.....	236	68	107	1.13	1.27	.730
May.....	828	56	117	1.24	1.43	.801
June.....	281	58	91.6	.970	1.08	.627
July.....	422	50	107	1.13	1.31	.730
August.....	1,400	63	245	2.60	2.99	1.68
September.....	448	66	101	1.07	1.20	.692
The year.....	1,400	28	98.6	1.04	14.17	.672

Monthly discharge of Deer Creek at Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	812	70	184	1.95	2.25	1.26
November.....	238	113	146	1.55	1.73	1.00
December.....	918	94	176	1.86	2.15	1.20
January.....	246	130	156	1.65	1.90	1.07
February.....	549	132	202	2.14	2.23	1.38
March.....	342	128	197	2.09	2.40	1.35
April.....	410	135	171	1.81	2.02	1.17
May.....	802	126	199	2.11	2.43	1.36
June.....	219	99	130	1.38	1.54	.892
July.....	826	72	127	1.35	1.55	.873
August.....	159	50	64.7	.685	.79	.443
September.....	54	36	45.0	.477	.53	.308
The year.....	918	36	150	1.59	21.52	1.03

Yearly discharge of Deer Creek at Rocks, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1927.....	-	-	-	-	120	1.27	17.29	0.821
1928.....	171	1.81	24.70	1.17	171	1.81	24.70	1.17
1929.....	134	1.42	19.33	.918	140	1.48	20.17	.957
1930.....	101	1.07	14.54	.692	77.5	.821	11.12	.531
1931.....	62.0	.657	8.89	.425	60.0	.636	8.60	.411
1932.....	65.1	.690	9.38	.446	83.7	.867	12.07	.573
1933.....	173	1.83	24.90	1.18	169	1.79	24.26	1.16
1934.....	119	1.26	17.10	.814	123	1.30	17.73	.840
1935.....	128	1.36	18.35	.879	121	1.28	17.46	.827
1936.....	138	1.46	19.86	.944	134	1.42	19.34	.918
1937.....	125	1.32	17.92	.853	144	1.53	20.75	.989
1938.....	118	1.25	16.90	.808	99.6	1.06	14.33	.685
1939.....	118	1.25	16.91	.808	116	1.23	16.66	.785
1940.....	113	1.20	16.31	.776	122	1.29	17.56	.834
1941.....	113	1.20	16.21	.776	97.7	1.03	14.05	.666
1942.....	98.6	1.04	14.17	.672	130	1.38	18.67	.892
1943.....	150	1.59	21.52	1.03	-	-	-	-
Highest.....	173	1.83	24.90	1.18	171	1.81	24.70	1.17
Average.....	120	1.27	17.31	.821	119	1.26	17.17	.814
Lowest.....	62.0	.657	8.89	.425	60.0	.636	8.60	.411

Deer Creek near Churchville, Md.

Location.-- Chain gage, lat. 39°36'07", long. 76°15'39", at highway bridge 3.0 miles north of Churchville, Harford County, and 0.9 mile upstream from Coolbranch Run.

Drainage area.-- 141 square miles.

Records available.-- December 1904 to March 1909.

Extremes.-- Maximum daily discharge, 8,460 second-feet Feb. 26, 1908; minimum daily, 80 second-feet July 20, 21, Aug. 22-24, Oct. 17-24, 1908.

Monthly discharge of Deer Creek near Churchville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1904-5						
December 14-31.....	522	-	130	0.922	0.62	0.596
January.....	3,200	-	264	1.87	2.16	1.21
February.....	695	-	162	1.15	1.20	.745
March.....	955	164	377	2.67	3.08	1.73
April.....	635	178	254	1.80	2.01	1.16
May.....	296	105	153	1.09	1.26	.704
June.....	335	96	144	1.02	1.14	.659
July.....	495	96	162	1.15	1.33	.745
August.....	2,680	96	249	1.77	2.04	1.14
September.....	920	105	194	1.38	1.54	.892
1905-6						
October.....	822	105	168	1.19	1.37	.769
November.....	323	105	130	.922	1.03	.596
December.....	2,230	115	265	1.88	2.17	1.22
January.....	790	150	273	1.94	2.24	1.25
February.....	377	126	219	1.55	1.61	1.00
March.....	855	178	301	2.13	2.46	1.38
April.....	2,180	225	426	3.02	3.37	1.95
May.....	277	178	211	1.50	1.73	.969
June.....	725	126	212	1.50	1.67	.969
July.....	887	115	251	1.78	2.05	1.15
August.....	1,580	109	187	1.33	1.53	.860
September.....	126	87	99.2	.704	.79	.455
The year.....	2,230	87	229	1.62	22.02	1.05
1906-7						
October.....	758	87	165	1.17	1.35	.756
November.....	400	105	132	.936	1.04	.605
December.....	1,140	105	243	1.72	1.98	1.11
January.....	605	120	240	1.70	1.96	1.10
February.....	-	-	180	1.28	1.33	.827
March.....	1,330	178	394	2.79	3.22	1.80
April.....	445	164	204	1.45	1.62	.937
May.....	445	145	183	1.30	1.50	.840
June.....	758	126	200	1.42	1.58	.918
July.....	323	105	142	1.01	1.16	.653
August.....	653	105	156	1.11	1.28	.717
September.....	2,650	87	272	1.93	2.15	1.25
The year.....	2,650	87	210	1.49	20.17	.963
1907-8						
October.....	296	126	166	1.18	1.36	.763
November.....	1,620	150	372	2.64	2.94	1.71
December.....	1,510	138	420	2.98	3.44	1.93
January.....	1,540	242	383	2.72	3.14	1.76
February.....	8,460	250	718	5.08	5.48	3.28
March.....	790	277	379	2.69	3.10	1.74
April.....	378	178	249	1.77	1.98	1.14
May.....	2,480	164	359	2.55	2.94	1.65
June.....	270	105	145	1.03	1.15	.666
July.....	4,220	80	274	1.94	2.24	1.25
August.....	2,200	80	189	1.34	1.54	.866
September.....	495	87	110	.750	.87	.504
The year.....	8,460	80	312	2.21	30.18	1.43
1908-9						
October.....	2,480	80	192	1.36	1.57	.879
November.....	194	87	119	.844	.94	.545
December.....	285	105	142	1.01	1.16	.653
January.....	561	126	205	1.45	1.67	.937
February.....	842	126	281	1.99	2.07	1.29
March.....	605	178	339	2.40	2.77	1.55

Yearly discharge of Deer Creek near Churchville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1905.....	-	-	-	-	210	1.49	20.33	0.963
1906.....	229	1.62	22.02	1.05	227	1.60	21.82	1.03
1907.....	210	1.49	20.17	.963	244	1.73	23.54	1.12
1908.....	312	2.21	30.18	1.43	272	1.93	26.11	1.25

GUNPOWDER RIVER BASIN

Little Gunpowder Falls at Laurel Brook, Md.

Location.- Water-stage recorder, lat 39°30'18", long. 76°25'56", 700 feet upstream from Laurel Brook, 0.4 mile southwest of Laurel Brook railroad station, Harford County.

Datum of gage is 261.43 feet above mean sea level (city of Baltimore bench mark).
Drainage area.- 36.1 square miles.

Records available.- December 1926 to September 1943.

Extremes.- Maximum discharge, 9,200 second-feet Aug. 23, 1933, by slope-area method; minimum, 3.1 second-feet Feb. 15, 1931, Mar. 15, 1932; minimum gage height, 0.65 foot Mar. 15, 1932.

Monthly discharge of Little Gunpowder Falls at Laurel Brook, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1926-27						
December 7-25.....	62	-	48.3	1.34	0.95	0.866
February 24-28.....	108	57	77.4	2.14	.40	1.38
March.....	73	41	47.3	1.31	1.51	.847
April.....	840	38	80.0	2.22	2.48	1.43
May.....	67	38	46.8	1.30	1.50	.840
June.....	75	27	36.4	1.01	1.13	.653
July.....	38	20	25.2	.698	.80	.451
August.....	99	16	24.4	.676	.78	.437
September.....	82	16	21.4	.593	.66	.383
1927-28						
October.....	352	16	52.7	1.46	1.68	.944
November.....	261	23	40.4	1.12	1.25	.724
December.....	188	26	47.0	1.30	1.50	.840
January.....	70	-	30.1	.834	.96	.539
February.....	-	-	85.0	2.35	2.53	1.52
March.....	83	38	51.2	1.42	1.64	.918
April.....	537	34	66.8	1.85	2.06	1.20
May.....	71	41	49.1	1.36	1.57	.879
June.....	1,080	38	161	4.46	4.98	2.88
July.....	260	30	72.3	2.00	2.31	1.29
August.....	2,340	34	215	5.96	6.87	3.85
September.....	169	53	77.6	2.15	2.40	1.39
The year.....	2,340	16	78.9	2.19	29.75	1.42
1928-29						
October.....	67	43	50.5	1.40	1.61	.905
November.....	88	38	45.6	1.26	1.41	.814
December.....	86	-	40.8	1.13	1.30	.730
January.....	234	-	52.4	1.45	1.67	.937
February.....	539	-	83.1	2.30	2.40	1.49
March.....	475	37	77.2	2.14	2.47	1.38
April.....	751	34	95.9	2.60	2.90	1.68
May.....	-	37	53.4	1.48	1.71	.957
June.....	63	26	34.8	.964	1.08	.623
July.....	80	16	23.5	.651	.75	.421
August.....	123	14	26.3	.729	.84	.471
September.....	82	17	27.1	.751	.84	.485
The year.....	731	14	50.7	1.40	18.98	.905

Monthly discharge of Little Gunpowder Falls at Laurel Brook, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	813	24	81.8	2.27	2.62	1.47
November.....	177	26	43.8	1.21	1.35	.782
December.....	53	-	32.2	.892	1.03	.577
January.....	43	-	27.9	.773	.89	.500
February.....	156	-	51.1	1.42	1.48	.918
March.....	232	-	51.1	1.42	1.64	.918
April.....	305	37	55.3	1.53	1.71	.989
May.....	65	26	33.2	.920	1.06	.595
June.....	92	18	28.5	.759	.88	.610
July.....	19	10	14.1	.391	.45	.253
August.....	13	7.4	9.45	.262	.30	.169
September.....	23	8.0	11.5	.319	.36	.206
The year.....	813	7.4	36.6	1.01	13.77	.653
1930-31						
October.....	14	8.0	10.2	.299	.34	.193
November.....	19	-	14.2	.393	.44	.254
December.....	152	-	20.1	.557	.64	.360
January.....	233	-	26.9	.745	.86	.482
February.....	85	14	21.9	.607	.63	.392
March.....	92	18	29.1	.806	.93	.521
April.....	96	18	28.9	.801	.89	.518
May.....	92	15	26.9	.745	.86	.464
June.....	31	8.6	14.4	.399	.45	.258
July.....	198	6.0	18.9	.524	.60	.339
August.....	107	5.8	21.4	.593	.68	.363
September.....	13	6.5	9.16	.254	.28	.164
The year.....	233	5.8	20.2	.560	7.60	.362
1931-32						
October.....	25	6.2	7.83	.217	.25	.140
November.....	12	8.5	9.29	.257	.29	.166
December.....	25	9.5	12.1	.335	.39	.217
January.....	85	14	27.9	.773	.89	.500
February.....	61	14	20.8	.576	.62	.372
March.....	462	13	40.0	1.11	1.28	.717
April.....	62	21	28.3	.784	.87	.507
May.....	242	21	38.4	1.06	1.22	.685
June.....	61	12	21.4	.593	.66	.383
July.....	36	8.1	12.7	.352	.41	.228
August.....	93	7.1	15.0	.416	.48	.269
September.....	42	6.1	8.79	.243	.27	.157
The year.....	462	6.1	20.2	.560	7.63	.362
1932-33						
October.....	218	6.5	29.1	.806	.93	.521
November.....	454	25	56.6	1.57	1.75	1.01
December.....	106	15	30.5	.845	.97	.546
January.....	267	25	40.3	1.13	1.30	.730
February.....	113	28	43.1	1.19	1.24	.769
March.....	196	32	63.7	1.76	2.03	1.14
April.....	468	52	108	2.99	3.34	1.93
May.....	133	54	77.7	2.15	2.48	1.39
June.....	108	31	44.8	1.24	1.38	.801
July.....	153	23	36.6	1.01	1.16	.653
August.....	2,800	21	175	4.93	5.68	3.19
September.....	143	34	52.4	1.45	1.62	.937
The year.....	2,800	6.5	63.5	1.76	23.88	1.14
1933-34						
October.....	93	32	36.7	1.07	1.23	.692
November.....	56	29	32.6	.903	1.01	.584
December.....	55	26	33.1	.917	1.06	.593
January.....	120	29	46.1	1.33	1.53	.860
February.....	40	26	30.1	.834	.87	.539
March.....	300	28	74.7	2.07	2.39	1.34
April.....	102	41	54.7	1.52	1.70	.882
May.....	243	36	61.9	1.44	1.66	.931
June.....	207	25	38.7	1.07	1.19	.692
July.....	35	15	21.7	.601	.69	.388
August.....	61	15	24.5	.679	.73	.439
September.....	892	15	117	3.24	3.62	2.09
The year.....	892	15	47.1	1.30	17.73	.840

Monthly discharge of Little Gunpowder Falls at Laurel Brook, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	48	27	30.6	0.848	0.98	0.548
November.....	356	27	42.1	1.17	1.30	.756
December.....	310	34	56.4	1.56	1.80	1.01
January.....	112	33	48.1	1.33	1.53	.860
February.....	163	37	63.9	1.77	1.84	1.14
March.....	141	50	61.6	1.71	1.97	1.11
April.....	313	49	74.4	2.06	2.30	1.33
May.....	126	38	51.5	1.45	1.65	.924
June.....	220	33	53.3	1.48	1.65	.957
July.....	229	26	56.0	1.55	1.79	1.00
August.....	27	17	21.9	.607	.70	.392
September.....	236	17	47.8	1.52	1.47	.853
The year.....	336	17	50.5	1.40	18.98	.905
1935-36						
October.....	110	18	25.1	.695	.80	.449
November.....	418	22	58.2	1.61	1.80	1.04
December.....	70	28	38.9	1.08	1.24	.698
January.....	954	32	110	3.05	3.52	1.97
February.....	637	34	115	3.19	3.44	2.06
March.....	648	58	129	3.57	4.12	2.31
April.....	192	54	75.8	2.10	2.34	1.36
May.....	89	33	45.8	1.27	1.46	.821
June.....	40	24	30.7	.850	.95	.549
July.....	89	18	27.4	.759	.88	.491
August.....	70	14	21.6	.598	.69	.386
September.....	20	12	14.7	.407	.45	.263
The year.....	954	12	57.5	1.59	21.69	1.03
1936-37						
October.....	51	15	19.8	.548	.63	.354
November.....	26	15	17.3	.479	.53	.310
December.....	194	15	45.7	1.27	1.46	.821
January.....	123	32	60.4	1.67	1.62	1.08
February.....	914	42	88.8	2.46	2.56	1.59
March.....	76	42	51.3	1.42	1.64	.918
April.....	586	40	86.7	2.40	2.68	1.55
May.....	84	42	55.9	1.55	1.79	1.00
June.....	191	35	57.0	1.58	1.76	1.02
July.....	516	28	60.5	1.68	1.94	1.09
August.....	354	24	77.0	2.13	2.46	1.35
September.....	38	24	29.3	.812	.91	.525
The year.....	914	15	53.9	1.49	20.28	.963
1937-38						
October.....	912	24	79.8	2.21	2.55	1.43
November.....	993	38	84.3	2.34	2.61	1.51
December.....	62	39	46.7	1.29	1.49	.834
January.....	126	34	48.5	1.34	1.54	.866
February.....	126	36	49.0	1.36	1.42	.879
March.....	78	39	47.9	1.33	1.53	.860
April.....	65	33	40.6	1.12	1.25	.724
May.....	55	29	35.1	.972	1.12	.628
June.....	143	20	32.2	.892	1.00	.577
July.....	443	18	54.5	1.51	1.74	.976
August.....	187	18	35.1	.972	1.12	.628
September.....	87	18	28.1	.778	.87	.503
The year.....	993	18	48.5	1.34	18.24	.866
1938-39						
October.....	42	20	24.7	.684	.79	.442
November.....	37	22	25.6	.709	.79	.458
December.....	119	26	41.6	1.15	1.33	.743
January.....	728	21	67.5	1.87	2.16	1.21
February.....	360	42	82.9	2.30	2.40	1.49
March.....	118	52	68.2	1.89	2.18	1.22
April.....	432	53	88.0	2.44	2.72	1.58
May.....	69	37	50.4	1.40	1.61	.905
June.....	385	33	66.2	1.83	2.04	1.18
July.....	73	29	36.9	1.02	1.18	.659
August.....	100	18	28.4	.787	.91	.509
September.....	50	19	24.4	.676	.75	.437
The year.....	728	18	50.1	1.39	18.86	.898

Monthly discharge of Little Gunpowder Falls at Laurel Brook, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	260	23	39.7	1.10	1.27	0.711
November.....	50	23	27.5	.762	.85	.492
December.....	38	20	26.0	.720	.83	.465
January.....	150	18	29.4	.814	.94	.526
February.....	338	18	49.9	1.38	1.49	.892
March.....	273	33	61.1	1.69	1.95	1.09
April.....	445	36	90.6	2.51	2.80	1.62
May.....	638	45	78.1	2.16	2.49	1.40
June.....	379	31	50.5	1.40	1.56	.905
July.....	63	20	29.1	.806	.93	.521
August.....	186	18	36.3	1.01	1.16	.653
September.....	145	18	30.8	.853	.95	.551
The year.....	638	18	45.7	1.27	17.22	.821
1940-41						
October.....	43	20	24.1	-.668	-.77	-.432
November.....	218	23	50.9	1.41	1.57	.911
December.....	90	29	40.7	1.13	1.30	.730
January.....	122	33	49.1	1.36	1.57	.879
February.....	190	33	50.5	1.40	1.46	.905
March.....	126	33	53.1	1.47	1.69	.950
April.....	188	33	48.3	1.34	1.49	.866
May.....	55	23	32.9	-.911	1.05	.589
June.....	197	23	45.3	1.25	1.40	.808
July.....	61	17	27.0	-.748	-.86	-.483
August.....	57	12	18.0	-.499	-.57	-.323
September.....	15	8.2	10.1	-.280	-.31	-.181
The year.....	218	8.2	37.4	1.04	14.04	.672
1941-42						
October.....	18	7.3	11.0	.305	.35	.197
November.....	33	12	14.8	.410	.46	.265
December.....	97	13	22.9	.634	.73	.410
January.....	98	12	21.3	.590	.68	.381
February.....	429	18	39.9	1.11	1.15	.717
March.....	227	18	41.7	1.16	1.33	.750
April.....	114	23	36.9	1.02	1.14	.659
May.....	153	19	30.4	.842	.97	.544
June.....	82	17	26.6	.737	.82	.476
July.....	263	13	30.6	.848	.98	.548
August.....	418	18	57.5	1.59	1.83	1.03
September.....	114	17	25.0	.693	.77	.448
The year.....	429	7.3	29.8	.825	11.21	.533
1942-43						
October.....	410	18	64.3	1.78	2.05	1.15
November.....	87	35	44.4	1.23	1.37	.795
December.....	303	29	56.6	1.57	1.81	1.01
January.....	67	39	46.4	1.29	1.48	.834
February.....	178	42	66.4	1.84	1.92	1.19
March.....	146	42	68.9	1.91	2.20	1.23
April.....	161	46	57.7	1.60	1.78	1.03
May.....	380	41	80.5	2.23	2.57	1.44
June.....	91	31	43.2	1.20	1.33	.776
July.....	95	24	35.8	.992	1.14	.641
August.....	31	15	19.2	.532	.61	.344
September.....	19	12	14.5	.402	.45	.260
The year.....	410	12	49.8	1.38	16.71	.892

Yearly discharge of Little Gunpowder Falls at Laurel Brook, Md.

Year	Year ending Sept. 30			Calendar year				
	Discharge in second-feet		Runoff in inches	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	
	Mean	Per square mile		Mean	Per square mile			
1928.....	78.9	2.19	29.75	1.42	78.7	2.18	29.64	1.41
1929.....	50.7	1.40	18.98	.905	52.4	1.45	19.66	.937
1930.....	36.6	1.01	13.77	.653	27.1	.751	10.19	.485
1931.....	20.2	.560	7.60	.362	18.9	.524	7.11	.339
1932.....	20.2	.560	7.63	.362	27.5	.762	10.35	.492

Yearly discharge of Little Ounpowder Falls at Laural Brook, Md.--Continued

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1933.....	63.5	1.76	23.88	1.14	62.6	1.73	23.53	1.12
1934.....	47.1	1.30	17.73	.840	49.2	1.36	18.51	.879
1935.....	50.5	1.40	18.98	.905	49.9	1.38	18.74	.892
1936.....	57.5	1.59	21.69	1.03	54.3	1.50	20.47	.969
1937.....	53.9	1.49	20.28	.963	64.6	1.79	24.31	1.16
1938.....	48.5	1.34	18.24	.866	38.6	1.07	14.50	.692
1939.....	50.1	1.39	18.86	.898	50.2	1.39	18.90	.898
1940.....	45.7	1.27	17.22	.821	47.5	1.32	17.91	.853
1941.....	37.4	1.04	14.04	.672	31.8	.881	11.94	.569
1942.....	29.8	.825	11.21	.533	39.6	1.10	14.90	.711
1943.....	49.8	1.38	18.71	.892	-	-	-	-
Highest.....	78.9	2.19	29.75	1.42	78.7	2.18	29.64	1.41
Average.....	46.3	1.28	17.41	.827	46.2	1.28	17.38	.827
Lowest.....	20.2	.560	7.60	.362	18.9	.524	7.11	.339

Little Gunpowder Falls near Belair, Md.

Location.- Chain gage, lat. 39°28'31", long. 76°24'32", at highway bridge 0.6 mile upstream from Wildcat Branch and 5.3 miles southwest of Belair, Harford County.

Drainage area.- 43 square miles.

Records available.- December 1904 to March 1909.

Extremes.- Maximum daily discharge, 1,600 second-feet Feb. 26, 1908; minimum daily, 12 second-feet Sept. 25, 1908.

Monthly discharge of Little Gunpowder Falls near Belair, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1904-5						
December 13-31.....	-	-	40	0.930	0.66	0.601
January.....	486	-	75.5	1.76	2.03	1.14
February.....	175	-	50.2	1.17	1.22	.756
March.....	416	74	127	2.95	3.40	1.91
April.....	195	62	80.5	1.87	2.09	1.21
May.....	89	41	58.9	1.37	1.58	.885
June.....	171	30	55.1	1.28	1.43	.827
July.....	444	32	80.0	1.86	2.14	1.20
August.....	136	25	41.6	.967	1.11	.625
September.....	165	32	44.6	1.04	1.16	.672
1905-6						
October.....	116	25	44.0	1.02	1.18	.659
November.....	136	20	42.2	.981	1.09	.634
December.....	630	26	74.7	1.74	2.01	1.12
January.....	205	45	71.7	1.67	1.92	1.08
February.....	191	51	84.6	1.97	2.05	1.27
March.....	221	55	91.1	2.12	2.44	1.37
April.....	654	70	124	2.88	3.21	1.86
May.....	193	57	79.3	1.84	2.12	1.19
June.....	179	47	70.8	1.65	1.84	1.07
July.....	179	34	58.4	1.36	1.57	.879
August.....	405	32	82.4	1.92	2.21	1.24
September.....	55	31	39.4	.916	1.02	.592
The year.....	654	20	71.8	1.67	22.66	1.08

Monthly discharge of Little Gunpowder Falls near Belair, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1906-7						
October.....	195	37	67.9	1.58	1.82	1.02
November.....	199	43	60.0	1.40	1.56	.905
December.....	241	42	83.5	1.94	2.24	1.25
January.....	345	45	101	2.35	2.71	1.52
February.....	-	-	60	1.40	1.46	.905
March.....	708	74	152	3.53	4.07	2.28
April.....	278	60	84.2	1.96	2.19	1.27
May.....	159	52	68.2	1.59	1.83	1.03
June.....	286	47	77.2	1.80	2.01	1.16
July.....	161	31	52.4	1.22	1.41	.769
August.....	134	30	47.9	1.11	1.28	.717
September.....	405	25	76.9	1.76	2.00	1.16
The year.....	708	25	77.8	1.81	24.58	1.17
1907-8						
October.....	89	41	52.8	1.23	1.42	.795
November.....	636	43	104	2.42	2.70	1.56
December.....	690	69	151	3.51	4.05	2.27
January.....	600	86	134	3.12	3.60	2.02
February.....	1,600	99	209	4.86	5.24	3.14
March.....	337	80	113	2.63	3.03	1.70
April.....	100	61	76.1	1.77	1.96	1.14
May.....	256	50	78.2	1.82	2.10	1.18
June.....	167	24	46.2	1.07	1.19	.692
July.....	206	16	43.9	1.02	1.18	.659
August.....	462	22	48.6	1.13	1.30	.730
September.....	92	13	32.3	.751	.84	.485
The year.....	1,600	13	90.3	2.10	28.63	1.36
1908-9						
October.....	351	20	48.3	1.12	1.29	.724
November.....	64	29	42.5	.988	1.10	.639
December.....	84	28	49.3	1.15	1.33	.743
January.....	126	42	63.8	1.48	1.71	.957
February.....	273	49	81.6	1.90	1.98	1.23
March.....	244	71	103	2.40	2.77	1.55

Yearly discharge of Little Gunpowder Falls near Belair, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1905.....	-	-	-	-	64.5	1.50	20.44	0.969
1906.....	71.8	1.67	22.66	1.08	76.1	1.77	24.00	1.14
1907.....	77.8	1.81	24.58	1.17	85.6	1.99	27.13	1.29
1908.....	90.3	2.10	28.63	1.36	76.8	1.79	24.18	1.16

Gunpowder Falls at Glencoe, Md.

Location.- Chain gage, lat. 39°33'00", long. 76°38'10", at highway bridge in Glencoe, Baltimore County, and 0.7 mile upstream from Piney Creek.

Drainage area.- 160 square miles.

Records available.- December 1904 to March 1909.

Extremes.- Maximum daily discharge, 5,530 second-feet Feb. 26, 1904; minimum daily, 71 second-feet July 19-21, 1908.

Monthly discharge of Gunpowder Falls at Glencoe, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1904-5						
December 15-31.....	-	-	160	0.938	0.59	0.606
January.....	3,510	-	311	1.94	2.24	1.25
February.....	-	-	160	.938	.98	.606
March.....	1,140	-	463	2.89	3.33	1.87
April.....	810	203	298	1.86	2.08	1.20
May.....	242	114	172	1.06	1.24	.698
June.....	602	114	192	1.20	1.34	.776
July.....	670	111	240	1.50	1.73	.969
August.....	3,940	147	361	2.26	2.61	1.46
September.....	820	107	218	1.36	1.52	.879
1905-6						
October.....	1,270	93	211	1.32	1.52	.853
November.....	503	111	147	.919	1.03	.594
December.....	2,260	143	310	1.94	2.24	1.25
January.....	772	174	255	1.59	1.83	1.03
February.....	720	170	268	1.68	1.75	1.09
March.....	820	190	330	2.06	2.38	1.33
April.....	1,840	260	461	2.88	3.21	1.86
May.....	344	174	239	1.49	1.72	.963
June.....	433	132	205	1.28	1.43	.827
July.....	1,360	111	227	1.42	1.64	.918
August.....	1,310	111	237	1.48	1.71	.957
September.....	149	80	104	.650	.72	.420
The year.....	2,260	80	250	1.56	21.18	1.01
1906-7						
October.....	527	86	179	1.12	1.29	.724
November.....	235	104	132	.825	.92	.533
December.....	457	101	203	1.27	1.46	.821
January.....	612	-	250	1.56	1.80	1.01
February.....	-	-	192	1.20	1.25	.776
March.....	3,800	-	505	3.16	3.64	2.04
April.....	552	152	209	1.31	1.46	.847
May.....	265	135	167	1.04	1.20	.672
June.....	668	101	186	1.16	1.29	.750
July.....	2,580	104	280	1.75	2.02	1.13
August.....	538	80	131	.819	.94	.529
September.....	1,480	77	231	1.44	1.61	.931
The year.....	3,800	77	223	1.39	18.88	.898
1907-8						
October.....	457	104	153	.956	1.10	.618
November.....	1,080	135	296	1.85	2.06	1.20
December.....	2,060	194	447	2.79	3.22	1.80
January.....	3,070	200	417	2.61	3.01	1.69
February.....	5,530	-	656	4.10	4.42	2.65
March.....	1,740	273	433	2.71	3.12	1.75
April.....	344	180	242	1.51	1.68	.976
May.....	1,390	170	299	1.87	2.16	1.21
June.....	208	97	106	.662	.74	.428
July.....	3,040	71	270	1.69	1.95	1.09
August.....	1,420	111	191	1.19	1.37	.769
September.....	407	90	119	.744	.83	.481
The year.....	5,530	71	304	1.90	25.66	1.23
1908-9						
October.....	1,930	97	186	1.16	1.34	.750
November.....	180	122	142	.888	.99	.574
December.....	180	-	130	.812	.94	.525
January.....	401	80	181	1.13	1.30	.730
February.....	668	144	240	1.50	1.56	.969
March.....	748	212	298	1.86	2.14	1.20

Yearly discharge of Gunpowder Falls at Glencoe, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1905.....	-	-	-	-	256	1.60	21.86	1.03
1906.....	250	1.56	21.18	1.01	237	1.48	20.06	.957
1907.....	223	1.39	18.88	.898	254	1.59	21.59	1.03
1908.....	304	1.90	25.66	1.23	266	1.66	22.55	1.07

PATAPSCO RIVER BASIN

North Branch Patapsco River near Reisterstown, Md.

Location.- Water-stage recorder, lat. 39°26'31", long. 76°53'14", at highway bridge on Louisville-Delight road, 3½ miles southwest of Reisterstown, Baltimore County. Datum of gage is 344.35 feet above mean sea level, adjustment of 1912.

Drainage area.- 91.0 square miles.

Records available.- June 1927 to September 1943.

Extremes.- Maximum discharge, 11,000 second-feet Aug. 24, 1933 (gage height 14.6 feet), from rating curve extended above 2,400 second-feet; minimum, 10 second-feet Oct. 4, 6, 1931 and Oct. 9, 1941.

Remarks.- Slight regulation at low and medium stages by mill above station. Records do not include small amount of water diverted above station into Monocacy River Basin for municipal supply of Westminster.

Monthly discharge of North Branch Patapsco River near Reisterstown, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1927						
July.....	149	76	92.5	1.02	1.18	0.659
August.....	249	42	64.6	.710	.82	.459
September.....	573	35	59.4	.653	.73	.422
1927-28						
October.....	773	36	142	1.56	1.80	1.01
November.....	403	64	92.7	1.02	1.14	.659
December.....	434	70	135	1.48	1.71	.957
January.....	172	-	85.7	.942	1.09	.609
February.....	702	-	196	2.15	2.32	1.39
March.....	204	97	136	1.49	1.72	.963
April.....	1,040	91	179	1.96	2.19	1.27
May.....	237	93	141	1.55	1.79	1.00
June.....	553	82	208	2.28	2.54	1.47
July.....	452	85	157	1.72	1.96	1.11
August.....	708	74	127	1.40	1.61	.905
September.....	177	76	98.7	1.08	1.20	.698
The year.....	1,040	36	141	1.55	21.09	1.00
1928-29						
October.....	104	68	75.2	.833	.96	.538
November.....	120	58	66.7	.733	.82	.474
December.....	168	-	69.5	.764	.81	.494
January.....	306	-	105	1.15	1.33	.743
February.....	806	-	158	1.74	1.81	1.12
March.....	607	95	180	1.98	2.28	1.28
April.....	849	87	182	2.00	2.23	1.29
May.....	331	93	131	1.44	1.66	.931
June.....	776	64	154	1.69	1.89	1.09
July.....	136	49	70.8	.778	.90	.503
August.....	112	-	50.0	.541	.63	.355
September.....	-	-	60	.659	.74	.426
The year.....	849	-	108	1.19	16.13	.769

Monthly discharge of North Branch Patapsco River near Reisterstown, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	1,100	58	132	1.45	1.67	0.937
November.....	346	60	105	1.15	1.28	.743
December.....	140	-	87.4	.960	1.11	.620
January.....	120	-	75.3	.827	.95	.535
February.....	559	-	149	1.64	1.71	1.06
March.....	519	84	137	1.51	1.74	.976
April.....	569	91	142	1.56	1.74	1.01
May.....	95	60	76.4	.840	.97	.543
June.....	303	43	84.4	.927	1.03	.599
July.....	91	24	37.4	.411	.47	.266
August.....	39	18	24.7	.271	.31	.175
September.....	126	19	30.0	.330	.37	.213
The year.....	1,100	18	89.7	.986	13.35	.637
1930-31						
October.....	29	19	23.5	.258	.30	.167
November.....	51	23	28.4	.312	.35	.202
December.....	455	19	49.6	.545	.63	.352
January.....	479	29	66.6	.732	.84	.473
February.....	191	27	46.8	.514	.54	.332
March.....	288	36	63.5	.698	.80	.451
April.....	192	38	68.2	.749	.84	.484
May.....	96	27	46.4	.510	.59	.330
June.....	174	23	42.0	.462	.52	.299
July.....	40	14	23.0	.253	.29	.164
August.....	329	11	55.5	.610	.70	.394
September.....	66	13	20.8	.229	.26	.148
The year.....	479	11	44.6	.490	6.66	.317
1931-32						
October.....	44	13	17.8	.196	.23	.127
November.....	32	18	22.0	.242	.27	.156
December.....	67	19	28.3	.311	.36	.201
January.....	199	33	64.0	.703	.81	.454
February.....	146	33	50.5	.555	.60	.359
March.....	681	33	94.0	1.03	1.19	.666
April.....	186	50	82.9	.911	1.02	.589
May.....	377	45	80.1	.880	1.01	.569
June.....	80	28	40.7	.447	.50	.289
July.....	97	19	29.7	.326	.38	.211
August.....	110	11	25.8	.284	.33	.184
September.....	205	14	32.2	.354	.40	.229
The year.....	681	11	47.3	.520	7.10	.336
1932-33						
October.....	624	16	86.1	.946	1.09	.611
November.....	763	76	164	1.80	2.01	1.16
December.....	252	50	90.9	.999	1.15	.646
January.....	554	74	110	1.21	1.40	.782
February.....	336	90	127	1.40	1.46	.905
March.....	505	89	175	1.92	2.21	1.24
April.....	826	138	280	3.08	3.44	1.99
May.....	398	122	191	2.10	2.42	1.36
June.....	305	70	101	1.11	1.24	.717
July.....	486	49	80.6	.886	1.02	.573
August.....	3,550	42	284	3.12	3.60	2.02
September.....	211	72	97.2	1.07	1.19	.692
The year.....	3,550	16	149	1.64	22.23	1.06
1933-34						
October.....	150	64	76.4	.840	.97	.543
November.....	117	57	67.1	.737	.82	.476
December.....	108	50	62.4	.686	.79	.443
January.....	225	45	94.1	1.03	1.19	.666
February.....	85	45	55.6	.611	.64	.395
March.....	900	50	149	1.64	1.89	1.06
April.....	254	87	127	1.40	1.56	.905
May.....	281	72	100	1.10	1.27	.711
June.....	407	48	81.4	.895	1.00	.578
July.....	91	26	36.8	.404	.47	.261
August.....	95	23	39.0	.429	.49	.277
September.....	1,630	23	214	2.35	2.62	1.52
The year.....	1,630	23	92.0	1.01	13.71	.653

Monthly discharge of North Branch Patapsco River near Reisterstown, Md.--Continued.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	132	65	78.5	0.863	0.99	0.558
November.....	271	60	80.1	.880	.98	.569
December.....	682	75	127	1.40	1.61	.905
January.....	269	84	116	1.27	1.46	1.821
February.....	423	90	166	1.82	1.90	1.18
March.....	292	115	151	1.66	1.91	1.07
April.....	440	101	149	1.64	1.83	1.06
May.....	196	67	95.5	1.05	1.21	.679
June.....	172	50	70.8	.778	.87	.503
July.....	235	37	58.7	.645	.74	.417
August.....	151	26	36.8	.404	.47	.261
September.....	753	26	99.4	1.09	1.22	.704
The year.....	753	26	102	1.12	15.19	.724
1935-36						
October.....	233	39	50.0	.549	.63	.355
November.....	212	43	73.0	.802	.89	.518
December.....	101	49	64.4	.708	.82	.458
January.....	900	65	179	1.97	2.27	1.27
February.....	2,010	80	312	3.43	3.70	2.22
March.....	850	138	290	3.19	3.68	2.06
April.....	424	110	162	1.78	1.99	1.15
May.....	170	72	94.0	1.03	1.19	.666
June.....	78	51	65.1	.715	.80	.462
July.....	313	36	66.0	.725	.84	.469
August.....	525	28	54.9	.603	.70	.390
September.....	38	22	27.0	.297	.33	.192
The year.....	2,010	22	119	1.31	17.84	.847
1936-37						
October.....	167	27	44.4	.488	.56	.315
November.....	54	30	36.6	.402	.45	.260
December.....	348	28	93.5	1.03	1.19	.666
January.....	266	72	140	1.54	1.78	.995
February.....	1,010	106	198	2.07	2.16	1.34
March.....	177	92	120	1.32	1.52	.853
April.....	1,260	81	178	1.96	2.19	1.27
May.....	222	87	132	1.45	1.67	.937
June.....	474	72	138	1.52	1.70	.982
July.....	664	60	109	1.20	1.38	.776
August.....	274	47	88.7	.975	1.12	.630
September.....	82	44	55.3	.608	.68	.393
The year.....	1,260	27	110	1.21	16.40	.782
1937-38						
October.....	1,260	44	144	1.58	1.82	1.02
November.....	2,530	78	214	2.35	2.62	1.52
December.....	138	81	97.2	1.07	1.23	.692
January.....	212	70	88.9	.977	1.13	.631
February.....	215	68	91.3	1.00	1.04	.646
March.....	184	79	100	1.10	1.27	.711
April.....	197	68	87.0	.956	1.07	.618
May.....	117	52	67.3	.740	.85	.478
June.....	316	40	63.1	.693	.77	.448
July.....	296	34	70.3	.773	.89	.500
August.....	297	27	56.7	.623	.72	.403
September.....	194	32	53.5	.588	.66	.380
The year.....	2,530	27	94.4	1.04	14.07	.672
1938-39						
October.....	79	36	42.8	.470	.54	.304
November.....	67	37	45.1	.496	.55	.321
December.....	340	50	85.9	.944	1.09	.610
January.....	905	40	93.0	1.02	1.18	.659
February.....	587	106	190	2.09	2.18	1.35
March.....	286	111	154	1.69	1.95	1.09
April.....	229	100	143	1.57	1.75	1.01
May.....	152	63	92.2	1.01	1.16	.653
June.....	417	56	96.8	1.06	1.18	.685
July.....	85	39	51.3	.564	.65	.365
August.....	79	26.0	36.8	.404	.47	.261
September.....	125	27.5	39.6	.435	.49	.281
The year.....	905	26.0	88.5	.973	13.19	.629

Monthly discharge of North Branch Patapsco River near Reisterstown, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	357	33	61.4	0.675	0.78	0.436
November.....	98	34	44.1	.485	.54	.313
December.....	74	33	40.7	.447	.52	.289
January.....	230	28	44.2	.486	.56	.314
February.....	801	29	108	1.19	1.28	.768
March.....	571	72	132	1.45	1.67	.937
April.....	1,330	66	242	2.66	2.97	1.72
May.....	202	89	120	1.32	1.52	.853
June.....	119	48	70.6	.776	.87	.502
July.....	112	33	48.0	.527	.61	.341
August.....	188	30	51.2	.563	.65	.364
September.....	1,120	34	86.5	.951	1.06	.615
The year.....	1,330	28	87.0	.956	13.03	.618
1940-41						
October.....	145	42	53.7	.590	.68	.381
November.....	334	48	112	1.23	1.38	.795
December.....	237	75	106	1.16	1.34	.750
January.....	207	83	112	1.23	1.42	.795
February.....	339	80	118	1.30	1.36	.840
March.....	552	78	138	1.52	1.75	.982
April.....	404	78	124	1.36	1.52	.879
May.....	98	50	68.0	.747	.86	.483
June.....	214	45	73.1	.803	.90	.519
July.....	100	32	50.7	.557	.64	.360
August.....	47	23	29.4	.323	.37	.209
September.....	31	12	18.1	.199	.22	.129
The year.....	552	12	83.4	.916	12.44	.582
1941-42						
October.....	26	12	17.6	.193	.22	.125
November.....	58	25	29.7	.326	.36	.211
December.....	136	30	44.6	.490	.57	.317
January.....	160	20	39.6	.435	.50	.261
February.....	400	33	63.7	.700	.73	.452
March.....	312	34	75.6	.831	.96	.537
April.....	383	50	113	1.24	1.39	.801
May.....	257	38	61.6	.677	.78	.438
June.....	130	33	54.3	.597	.67	.386
July.....	210	28	62.8	.690	.80	.446
August.....	1,400	46	230	2.53	2.91	1.64
September.....	497	46	82.6	.908	1.01	.587
The year.....	1,400	12	73.0	.802	10.90	.518
1942-43						
October.....	1,100	51	191	2.10	2.42	1.36
November.....	210	92	123	1.35	1.60	.873
December.....	874	82	146	1.60	1.85	1.03
January.....	218	105	130	1.43	1.65	.924
February.....	416	92	176	1.93	2.01	1.26
March.....	278	104	168	1.85	2.13	1.20
April.....	312	109	143	1.57	1.75	1.01
May.....	467	88	126	1.38	1.59	.892
June.....	128	54	74.5	.819	.91	.529
July.....	84	35	50.8	.558	.64	.361
August.....	46	20	27.1	.298	.34	.193
September.....	35	16	22.2	.244	.27	.136
The year.....	1,100	16	114	1.25	17.06	.808

PATAPSCO RIVER BASIN

Yearly discharge of North Branch Patapsco River near Reisterstown, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1928.....	141	1.55	21.09	1.00	128	1.41	19.10	0.911
1929.....	108	1.19	16.13	.769	118	1.30	17.53	.840
1930.....	89.7	.986	13.35	.637	71.0	.780	10.57	.504
1931.....	44.6	.490	6.66	.317	41.7	.458	6.24	.296
1932.....	47.3	.520	7.10	.336	70.0	.769	10.49	.497
1933.....	149	1.64	22.23	1.06	139	1.52	20.56	.982
1934.....	92.0	1.01	13.71	.653	99.7	1.08	14.71	.658
1935.....	102	1.12	15.19	.724	93.6	1.03	13.95	.666
1936.....	119	1.31	17.84	.847	118	1.30	17.70	.840
1937.....	110	1.21	16.40	.782	133	1.46	19.87	.944
1938.....	94.4	1.04	14.07	.672	70.9	.779	10.58	.503
1939.....	88.5	.973	13.19	.629	86.1	.946	12.85	.611
1940.....	87.0	.956	13.03	.618	97.5	1.07	14.59	.692
1941.....	85.4	.916	12.44	.592	68.3	.751	10.19	.485
1942.....	73.0	.802	10.90	.518	104	1.14	15.52	.737
1943.....	114	1.25	17.06	.808	-	-	-	-
Highest.....	149	1.64	22.23	1.06	139	1.52	20.56	.982
Average.....	96.4	1.06	14.40	.685	95.8	1.05	14.30	.679
Lowest.....	44.6	.490	6.66	.317	41.7	.458	6.24	.296

North Branch Patapsco River near Marriottsville, Md.

Location.- Water-stage recorder, lat. 39°21'56", long. 76°53'06", at highway bridge 1.2 miles northeast of Marriottsville, Roward County, and 2.3 miles upstream from confluence with South Branch. Datum of gage is 269.78 feet above mean sea level (city of Baltimore bench mark).

Drainage area.- 165 square miles.

Records available.- October 1929 to September 1943.

Extremes.- Maximum discharge, 19,500 second-feet Aug. 24, 1933 (gage height, 20.8 feet), from rating curve extended above 2,300 second-feet on basis of velocity-area studies; minimum 6 second-feet (regulated) Sept. 29, 1941; minimum daily, 9 second-feet (regulated) Sept. 30, 1941.

Remarks.- Considerable regulation at low stages caused by operation of power plants above station. Records do not include small amount of water diverted above station into Monocacy River Basin for municipal supply of Westminster.

Monthly discharge of North Branch Patapsco River near Marriottsville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	-	-	239	1.45	1.67	0.937
November.....	725	92	191	1.16	1.29	.750
December.....	259	-	156	.945	1.09	.611
January.....	209	-	138	.836	.96	.540
February.....	654	-	249	1.51	1.57	.976
March.....	1,100	164	262	1.59	1.83	1.03
April.....	1,200	164	257	1.56	1.74	1.01
May.....	176	109	136	.824	.95	.533
June.....	454	80	144	.873	.97	.564
July.....	104	36	58.0	.352	.41	.228
August.....	49	29	35.5	.215	.25	.139
September.....	150	26	43.9	.266	.30	.172
The year.....	-	26	158	.958	13.03	.619
1930-31						
October.....	47	25	34.4	.208	.24	.134
November.....	70	31	47.9	.290	.32	.187
December.....	636	35	76.0	.461	.53	.298
January.....	545	44	97.4	.590	.68	.381
February.....	253	40	83.7	.507	.53	.328
March.....	494	65	114	.691	.80	.447
April.....	335	70	120	.727	.81	.470
May.....	224	47	87.6	.531	.61	.343
June.....	223	28	69.2	.419	.47	.271
July.....	222	25	51.2	.310	.36	.200
August.....	480	17	90.7	.550	.63	.355
September.....	87	24	36.9	.224	.25	.145
The year.....	636	17	75.8	.459	6.23	.297

Monthly discharge of North Branch Patapsco River near Marriottsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
October.....	89	22	35.0	0.212	0.24	0.137
November.....	54	30	39.6	.240	.27	.155
December.....	142	39	55.3	.335	.39	.217
January.....	355	59	110	.667	.77	.431
February.....	305	60	95.6	.579	.62	.374
March.....	1,090	58	168	1.02	1.18	.659
April.....	364	92	160	.970	1.08	.627
May.....	708	84	157	.952	1.10	.615
June.....	457	51	90.8	.550	.61	.355
July.....	154	31	50.5	.306	.35	.198
August.....	130	22	46.9	.284	.33	.184
September.....	301	19	44.3	.268	.30	.173
The year.....	1,090	19	87.8	.532	7.24	.344
1932-33						
October.....	906	21	137	.830	.96	.536
November.....	1,200	123	273	1.65	1.84	1.07
December.....	459	80	154	.933	1.08	.603
January.....	949	123	193	1.17	1.35	.756
February.....	579	142	215	1.30	1.35	.840
March.....	883	148	307	1.86	2.14	1.20
April.....	1,430	246	490	2.97	3.31	1.92
May.....	864	225	350	2.12	2.44	1.37
June.....	384	125	180	1.09	1.22	.704
July.....	946	80	147	.891	1.03	.576
August.....	6,850	71	524	3.18	3.67	2.06
September.....	419	127	173	1.05	1.17	.679
The year.....	6,850	21	262	1.59	21.56	1.03
1933-34						
October.....	257	114	136	.824	.95	.533
November.....	214	99	115	.697	.78	.450
December.....	188	90	112	.679	.78	.439
January.....	384	78	169	1.02	1.18	.659
February.....	158	76	102	.618	.64	.399
March.....	1,620	105	271	1.64	1.89	1.06
April.....	522	153	232	1.41	1.57	.911
May.....	492	125	182	1.10	1.27	.711
June.....	738	93	151	.915	1.02	.591
July.....	158	45	70.7	.428	.49	.277
August.....	209	35	75.4	.457	.53	.295
September.....	2,520	44	346	2.10	2.34	1.36
The year.....	2,520	35	164	.994	13.44	.642
1934-35						
October.....	223	109	135	.818	.94	.529
November.....	498	103	141	.855	.95	.553
December.....	1,150	134	226	1.37	1.58	.885
January.....	506	144	211	1.28	1.48	.827
February.....	770	160	308	1.87	1.95	1.21
March.....	534	207	268	1.62	1.87	1.05
April.....	878	188	275	1.67	1.86	1.08
May.....	390	134	164	1.12	1.29	.724
June.....	495	98	147	.891	.99	.576
July.....	467	67	118	.715	.82	.462
August.....	447	36	81.3	.493	.57	.319
September.....	1,480	44	177	1.07	1.19	.692
The year.....	1,480	36	188	1.14	15.49	.737
1935-36						
October.....	394	61	89.4	.542	.62	.350
November.....	441	79	141	.855	.95	.553
December.....	229	92	127	.770	.89	.498
January.....	1,600	120	342	2.07	2.39	1.34
February.....	2,180	140	502	3.04	3.28	1.96
March.....	1,420	247	516	3.13	3.61	2.02
April.....	677	199	290	1.76	1.96	1.14
May.....	303	117	165	1.00	1.15	.646
June.....	166	83	113	.685	.76	.443
July.....	407	64	112	.679	.78	.439
August.....	779	38	93.7	.568	.65	.367
September.....	85	33	56.1	.340	.38	.220
The year.....	2,180	33	211	1.28	17.42	.827

Monthly discharge of North Branch Petepasco River near Marriottsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Meen	Per square mile		
1936-37						
October.....	288	43	81.9	0.496	0.57	0.321
November.....	90	50	66.6	.404	.45	.261
December.....	689	53	168	1.02	1.18	.659
January.....	520	132	257	1.56	1.80	1.01
February.....	1,870	186	336	2.04	2.12	1.32
March.....	348	169	216	1.31	1.51	.847
April.....	2,170	148	342	2.07	2.31	1.34
May.....	354	168	237	1.44	1.66	.931
June.....	714	132	228	1.38	1.54	.892
July.....	808	108	170	1.03	1.19	.666
August.....	512	81	161	.976	1.13	.631
September.....	136	72	92.8	.562	.63	.363
The year.....	2,170	43	195	1.18	16.09	.763
1937-38						
October.....	2,230	69	254	1.54	1.78	.995
November.....	5,340	141	407	2.47	2.76	1.60
December.....	229	154	177	1.07	1.23	.692
January.....	373	126	167	1.01	1.16	.653
February.....	430	143	185	1.12	1.17	.724
March.....	300	151	188	1.14	1.31	.737
April.....	334	136	168	1.02	1.14	.659
May.....	207	114	135	.818	.94	.529
June.....	491	67	116	.703	.78	.454
July.....	451	58	131	.794	.92	.513
August.....	426	41	88.5	.536	.62	.346
September.....	553	54	108	.655	.73	.423
The year.....	5,340	41	177	1.07	14.54	.692
1938-39						
October.....	140	63	77.8	.472	.54	.305
November.....	125	67	82.7	.501	.56	.324
December.....	765	91	156	.946	1.09	.611
January.....	1,720	75	179	1.08	1.24	.698
February.....	1,040	201	374	2.27	2.36	1.47
March.....	624	208	303	1.84	2.12	1.19
April.....	488	192	283	1.72	1.92	1.11
May.....	286	107	167	1.01	1.16	.653
June.....	628	94	168	1.02	1.14	.659
July.....	179	72	97.5	.591	.68	.382
August.....	235	44	80.7	.489	.56	.316
September.....	290	33	72.8	.441	.49	.285
The year.....	1,720	33	169	1.02	13.86	.659
1939-40						
October.....	586	62	120	.727	.84	.470
November.....	231	66	89.5	.542	.60	.350
December.....	210	66	89.2	.541	.62	.350
January.....	500	58	91.7	.556	.64	.359
February.....	1,210	60	192	1.16	1.25	.750
March.....	975	132	234	1.42	1.64	.918
April.....	1,940	118	425	2.58	2.88	1.67
May.....	364	152	213	1.29	1.49	.834
June.....	205	85	119	.721	.80	.466
July.....	195	61	85.7	.519	.60	.355
August.....	280	50	82.6	.501	.58	.324
September.....	1,050	52	115	.697	.78	.450
The year.....	1,940	50	154	.933	12.72	.603
1940-41						
October.....	228	73	91.7	.556	.64	.359
November.....	730	90	198	1.20	1.34	.776
December.....	394	118	169	1.02	1.18	.659
January.....	404	129	181	1.10	1.26	.711
February.....	586	125	199	1.21	1.26	.782
March.....	770	120	221	1.34	1.55	.866
April.....	718	135	217	1.32	1.47	.853
May.....	148	82	112	.679	.78	.439
June.....	322	71	116	.703	.78	.454
July.....	174	51	85.3	.517	.60	.334
August.....	84	35	48.0	.291	.34	.188
September.....	50	9	30.5	.185	.21	.120
The year.....	770	9	139	.842	11.41	.544

Monthly discharge of North Branch Patapsco River near Marriottsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	47	14	33.7	0.204	0.24	0.132
November.....	88	35	49.1	.298	.33	.193
December.....	258	44	72.4	.439	.51	.284
January.....	292	36	70.3	.426	.49	.275
February.....	690	60	114	.691	.72	.447
March.....	548	59	136	.824	.95	.533
April.....	812	95	221	1.34	1.49	.866
May.....	432	68	108	.655	.76	.423
June.....	237	56	95.6	.579	.65	.374
July.....	502	48	105	.636	.73	.411
August.....	2,020	70	341	2.07	2.38	1.34
September.....	604	71	130	.788	.88	.509
The year.....	2,020	14	123	.745	10.13	.482
1942-43						
October.....	1,610	86	323	1.96	2.26	1.27
November.....	389	167	215	1.30	1.45	.840
December.....	1,610	144	260	1.58	1.82	1.02
January.....	395	185	230	1.39	1.61	.898
February.....	712	206	319	1.93	2.01	1.25
March.....	558	190	312	1.89	2.18	1.22
April.....	542	206	267	1.62	1.81	1.05
May.....	680	172	232	1.41	1.62	.911
June.....	198	100	140	.848	.95	.548
July.....	155	59	93.3	.565	.65	.365
August.....	90	33	46.4	.281	.32	.182
September.....	62	31	37.1	.225	.25	.145
The year.....	1,610	31	206	1.25	16.93	.808

Yearly discharge of North Branch Patapsco River near Marriottsville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	158	0.958	13.03	0.619	122	0.739	10.07	0.478
1931.....	75.8	.459	6.23	.297	73.4	.445	6.04	.288
1932.....	87.8	.532	7.24	.344	124	.752	10.22	.486
1933.....	262	1.59	21.56	1.03	245	1.48	20.19	.957
1934.....	164	.994	13.44	.642	175	1.06	14.40	.685
1935.....	188	1.14	15.49	.737	176	1.07	14.48	.692
1936.....	211	1.28	17.42	.827	208	1.26	17.16	.814
1937.....	195	1.18	16.09	.763	239	1.45	19.66	.937
1938.....	177	1.07	14.54	.692	133	.806	10.96	.521
1939.....	169	1.02	13.86	.659	167	1.01	13.73	.653
1940.....	154	.933	12.72	.603	167	1.01	13.82	.653
1941.....	139	.842	11.41	.544	113	.685	9.33	.443
1942.....	123	.745	10.13	.482	177	1.07	14.58	.692
1943.....	206	1.25	16.93	.808	-	-	-	-
Highest.....	262	1.59	21.56	1.03	245	1.48	20.19	.957
Average.....	165	1.00	13.58	.646	163	.988	13.43	.639
Lowest.....	75.8	.459	6.23	.297	73.4	.445	6.04	.288

Patapsco River at Woodstock, Md.

Location.- Chain gage, lat. 39°19'52", long. 76°52'23", at highway bridge at Woodstock, Howard County, 1.7 miles downstream from confluence of North and South Branches.
 Prior to Nov. 11, 1903 wire gage at same site and datum.
 Drainage area.- 251 square miles.
 Records available.- August 1896 to March 1909.
 Extremes.- Maximum daily discharge, 11,000 second-feet Feb. 26, 1908; minimum daily, 50 second-feet July 17, 21, Aug. 7-9, 12, 14-16, 18, 1900, June 25, Sept. 11, 1904.
 Remarks.- Low and medium flow regulated by operation of mills above station.

Monthly discharge of Patapsco River at Woodstock, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1896						
August 16-31.....	150	77	120	0.478	0.28	0.309
September.....	195	55	116	.462	.52	.299
1896-97						
October.....	230	100	151	.602	.69	.389
November.....	740	100	210	.837	.93	.541
December.....	275	92	161	.641	.74	.414
January.....	4,400	80	331	1.32	1.52	.853
February.....	5,890	115	783	3.12	3.25	2.02
March.....	705	230	332	1.32	1.52	.853
April.....	740	150	334	1.33	1.48	.860
May.....	2,240	210	473	1.88	2.17	1.22
June.....	315	150	259	1.03	1.15	.666
July.....	3,540	130	588	2.34	2.70	1.51
August.....	3,330	133	598	2.38	2.75	1.54
September.....	187	65	127	.506	.57	.327
The year.....	5,890	65	360	1.43	19.47	.924
1897-98						
October.....	280	80	140	.558	.63	.361
November.....	7,250	240	591	2.35	2.62	1.52
December.....	1,550	240	503	2.00	2.31	1.29
January.....	1,000	161	388	1.55	1.79	1.00
February.....	1,200	148	365	1.45	1.51	.937
March.....	835	253	344	1.37	1.58	.885
April.....	590	148	324	1.29	1.44	.834
May.....	1,100	235	454	1.81	2.09	1.17
June.....	425	122	207	.825	.91	.533
July.....	355	75	156	.622	.71	.402
August.....	2,050	122	331	1.32	1.52	.853
September.....	173	58	106	.422	.47	.273
The year.....	7,250	58	323	1.29	17.58	.834
1898-99						
October.....	450	83	174	.693	.77	.448
November.....	1,150	111	250	1.00	1.11	.646
December 1-14.....	1,950	270	509	2.03	1.06	1.51
March.....	4,560	520	997	3.97	4.58	2.57
April.....	1,900	400	556	2.22	2.48	1.43
May.....	875	310	420	1.67	1.93	1.08
June.....	400	217	294	1.17	1.31	.756
July.....	425	148	254	1.01	1.16	.653
August.....	450	148	216	.861	.99	.556
September.....	1,900	111	246	.980	1.09	.633
1899-1900						
October.....	235	92	170	.677	.78	.438
November.....	235	148	195	.777	.87	.502
December.....	670	83	237	.944	1.08	.610
January.....	1,600	235	366	1.46	1.68	.944
February.....	4,770	122	681	2.71	2.82	1.75
March.....	2,620	310	620	2.47	2.85	1.60
April.....	485	235	368	1.47	1.64	.950
May.....	450	111	279	1.11	1.28	.717
June 1-15.....	310	100	190	.757	.85	.489
July.....	3,180	50	425	1.69	1.95	1.09
August.....	2,100	50	650	2.59	2.99	1.67
September.....	1,550	148	1,138	4.53	5.05	2.93
1900-1						
October.....	218	92	140	.558	.65	.361
November.....	252	100	139	.554	.61	.358
January.....	450	122	207	.825	.95	.533
February.....	290	186	239	.952	.99	.615
March.....	4,410	252	792	3.16	3.64	2.04
April.....	2,100	160	508	2.02	2.25	1.31
May.....	1,500	160	380	1.51	1.74	.976
June.....	1,000	91	276	1.10	1.23	.711
July.....	670	100	245	.976	1.13	.631
August.....	2,410	66	366	1.46	1.68	.944

Monthly discharge of Patapsco River at Woodstock, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1901-2						
October.....	355	111	209	0.833	0.96	0.538
November.....	1,850	91	239	.952	1.06	.615
December.....	7,690	310	1,014	4.04	4.66	2.61
January.....	2,310	235	432	1.72	1.98	1.11
February.....	9,480	332	1,348	5.38	5.60	3.48
March.....	1,550	425	797	3.18	3.67	2.06
April.....	3,020	400	649	2.58	2.88	1.67
May.....	450	200	313	1.24	1.43	.801
June.....	1,250	135	305	1.22	1.36	.789
July.....	355	91	174	.693	.80	.448
August.....	710	122	225	.896	1.04	.579
September.....	1,500	111	245	.976	1.09	.631
The year.....	9,480	91	489	1.95	26.53	1.26
1902-3						
October.....	2,510	200	351	1.40	1.61	.905
November.....	750	200	292	1.16	1.29	.750
December.....	2,450	425	651	2.59	2.99	1.67
January.....	5,000	330	902	3.59	4.14	2.32
February.....	3,800	520	751	2.99	3.11	1.93
March.....	7,200	460	1,014	4.04	4.66	2.61
April.....	2,350	500	948	3.78	4.22	2.44
May.....	2,100	350	592	2.36	2.72	1.53
June.....	9,700	400	1,018	4.06	4.53	2.62
July.....	2,750	330	766	3.05	3.52	1.97
August.....	3,250	310	535	2.13	2.46	1.38
September.....	555	270	333	1.33	1.48	.860
The year.....	9,700	200	679	2.71	36.73	1.75
1903-4						
October.....	290	250	287	1.14	1.31	.737
November.....	290	185	252	1.00	1.12	.646
December.....	2,100	185	352	1.40	1.61	.905
January 22-31.....	2,880	223	775	3.09	1.15	2.00
February.....	7,170	139	498	1.98	2.14	1.28
March.....	1,440	187	345	1.37	1.58	.885
April.....	308	125	194	.773	.86	.500
May.....	332	76	145	.578	.67	.374
June.....	285	50	120	.478	.53	.309
July.....	1,350	66	207	.825	.95	.533
August.....	308	58	117	.466	.54	.301
September.....	898	50	110	.438	.49	.283
1904-5						
October.....	1,160	58	137	.546	.63	.353
November.....	285	66	135	.542	.60	.350
December.....	1,160	58	245	.976	1.13	.631
January.....	3,820	170	412	1.64	1.89	1.06
March.....	2,280	223	739	2.94	3.39	1.90
April.....	1,030	242	390	1.55	1.73	1.00
May.....	561	154	230	.917	1.06	.593
June.....	1,210	125	285	1.14	1.27	.737
July.....	2,210	139	463	1.84	2.12	1.19
August.....	5,890	139	463	1.84	2.12	1.19
September.....	701	125	226	.900	1.00	.582
1905-6						
October.....	438	125	203	.809	.93	.523
November.....	529	111	174	.693	.77	.448
December.....	5,250	170	520	2.07	2.39	1.34
January.....	1,540	285	410	1.63	1.88	1.05
February.....	739	264	388	1.55	1.61	1.00
March.....	2,380	308	596	2.37	2.73	1.53
April.....	5,250	383	692	2.76	3.08	1.78
May.....	701	223	355	1.41	1.63	.911
June.....	817	187	303	1.21	1.35	.782
July.....	2,330	155	341	1.36	1.57	.879
August.....	8,440	204	1,020	4.08	4.70	2.64
September.....	383	187	264	1.05	1.17	.679
The year.....	8,440	111	441	1.76	23.81	1.14

Monthly discharge of Patapsco River at Woodstock, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1906-7						
October.....	2,980	170	446	1.78	2.05	1.15
November.....	777	170	281	1.12	1.25	.724
December.....	1,590	223	452	1.80	2.08	1.16
January.....	1,440	250	559	2.23	2.57	1.44
February.....	-	-	300	1.20	1.25	.776
March.....	4,380	308	811	3.23	3.72	2.09
April.....	940	285	403	1.61	1.80	1.04
May.....	561	198	309	1.23	1.42	.795
June.....	1,160	262	418	1.67	1.86	1.08
July.....	898	219	347	1.38	1.59	.892
August.....	857	198	331	1.32	1.52	.853
September.....	1,840	179	383	1.53	1.71	.989
The year.....	4,380	170	421	1.68	22.82	1.09
1907-8						
October.....	308	142	229	.912	1.05	.589
November.....	438	179	234	1.13	1.26	.730
December.....	1,210	219	372	1.48	1.71	.957
January.....	2,180	198	418	1.67	1.92	1.08
February.....	11,000	332	1,160	4.62	4.98	2.99
March.....	2,730	308	597	2.38	2.74	1.54
April.....	561	383	447	1.78	1.99	1.15
May.....	1,890	358	528	2.10	2.42	1.30
June.....	595	159	397	1.54	1.72	.985
July.....	5,770	84	488	1.94	2.24	1.25
August.....	898	142	234	.932	1.07	.602
September.....	438	84	157	.625	.70	.404
The year.....	11,000	84	439	1.75	23.80	1.13
1908-9						
October.....	332	84	165	.657	.76	.425
November.....	265	95	144	.574	.64	.371
December.....	358	72	156	.622	.72	.402
January.....	665	95	249	.992	1.14	.641
February.....	1,790	159	440	1.75	1.82	1.13
March.....	1,350	332	570	2.27	2.62	1.47

Yearly discharge of Patapsco River at Woodstock, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1897.....	360	1.43	19.47	0.924	417	1.66	22.67	1.07
1898.....	323	1.29	17.58	.834	-	-	-	-
1902.....	489	1.95	26.53	1.26	476	1.90	25.74	1.23
1903.....	679	2.71	36.73	1.75	645	2.57	34.88	1.66
1906.....	441	1.76	23.81	1.14	464	1.85	25.10	1.20
1907.....	421	1.68	22.82	1.09	397	1.58	21.46	1.02
1908.....	439	1.75	23.80	1.13	404	1.61	21.90	1.04

Piney Run near Sykesville, Md.

Location.- Water-gage recorder and concrete control, lat. 39°22'55", long. 76°58'00", at Highway bridge $1\frac{1}{4}$ miles north of Sykesville, Carroll County, end $5\frac{1}{4}$ miles upstream from mouth.

Drainage area.- 11.4 square miles.

Records available.- September 1931 to September 1943.

Extremes.- Maximum discharge, 2,430 second-feet Aug. 23, 1933 (gage height, 6.3 feet), from rating curve extended above 700 second-feet on basis of velocity-area studies; minimum, 0.4 second-foot Jan. 25, 1939; minimum daily, 1.2 second-feet Sept. 17-21, 25, 26, 1932.

Monthly discharge of Piney Run near Sykesville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931						
September 22-30.....	2.8	1.6	1.97	0.173	0.06	0.112
1931-32						
October.....	5.9	1.3	1.93	.168	.19	.109
November.....	3.4	1.8	2.16	.189	.21	.122
December.....	7.3	2.1	3.33	.292	.34	.189
January.....	20	4.1	7.47	.655	.76	.423
February.....	46	4.4	7.53	.661	.71	.427
March.....	85	4.1	11.4	1.00	1.15	.646
April.....	26	6.5	10.4	.912	1.02	.589
May.....	41	5.8	10.8	.947	1.09	.612
June.....	117	3.5	10.5	.921	1.03	.595
July.....	8.6	2.2	3.36	.295	.34	.191
August.....	35	1.6	3.87	.339	.39	.219
September.....	6.0	1.2	1.82	.160	.18	.103
The year.....	117	1.2	6.21	.545	7.41	.352
1932-33						
October.....	53	1.4	8.25	.724	.83	.468
November.....	125	7.1	18.4	1.61	1.80	1.04
December.....	30	5.4	10.5	.921	1.06	.595
January.....	59	8.2	13.2	1.16	1.34	.750
February.....	49	10.5	16.1	1.41	1.47	.911
March.....	53	11.5	20.8	1.82	2.10	1.18
April.....	99	17	30.3	2.65	2.96	1.71
May.....	59	14.5	22.4	1.96	2.26	1.27
June.....	41	8.7	12.9	1.13	1.26	.730
July.....	102	5.8	13.7	1.20	1.38	.776
August.....	685	5.0	36.8	3.23	3.72	2.09
September.....	45	8.5	11.8	1.04	1.16	.672
The year.....	685	1.4	17.9	1.87	21.34	1.01
1933-34						
October.....	18	7.3	8.82	.774	.89	.500
November.....	15	6.5	7.78	.682	.76	.441
December.....	19	5.7	7.68	.674	.78	.436
January.....	34	5.0	11.4	1.00	1.15	.646
February.....	15	5.0	7.01	.615	.64	.397
March.....	182	7.0	22.7	1.99	2.29	1.29
April.....	39	11	15.5	1.36	1.52	.879
May.....	38	8.2	12.5	1.10	1.27	.711
June.....	50	6.0	11.3	.991	1.11	.641
July.....	15	3.0	4.32	.379	.44	.245
August.....	15	2.5	4.45	.393	.45	.254
September.....	269	2.7	22.5	1.97	2.20	1.27
The year.....	269	2.5	11.3	.991	13.50	.641
1934-35						
October.....	19	6.5	8.17	.717	.83	.465
November.....	32	6.2	9.13	.801	.86	.518
December.....	91	7.8	14.3	1.25	1.44	.808
January.....	41	9.0	14.3	1.25	1.44	.808
February.....	63	11	21.4	1.88	1.96	1.22
March.....	41	15	18.5	1.62	1.87	1.05
April.....	74	13	19.6	1.72	1.92	1.11
May.....	31	8.9	12.8	1.12	1.29	.724
June.....	60	6.7	13.0	1.14	1.27	.737
July.....	64	5.0	10.8	.947	1.09	.612
August.....	60	3.6	6.72	.589	.68	.381
September.....	117	3.6	13.6	1.19	1.33	.769
The year.....	117	3.6	13.5	1.18	16.01	.763

Monthly discharge of Piney Run near Sykesville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1935-36						
October.....	41	4.6	6.71	0.589	0.68	0.361
November.....	45	5.5	10.8	.947	1.06	.612
December.....	20	6.6	9.33	.818	.94	.529
January.....	224	8.2	27.5	2.41	2.78	1.56
February.....	209	10	40.2	3.53	3.81	2.28
March.....	94	16	32.7	2.87	3.31	1.85
April.....	46	15	20.6	1.61	2.02	1.17
May.....	53	8.2	13.0	1.14	1.31	.737
June.....	13	5.1	7.95	.697	.78	.450
July.....	30	4.4	7.10	.623	.72	.403
August.....	28	3.1	6.40	.561	.65	.363
September.....	7.0	2.6	3.69	.324	.36	.209
The year.....	224	2.6	15.4	1.35	18.42	.873
1936-37						
October.....	18	3.6	5.08	.446	.51	.288
November.....	6.2	3.4	4.23	.371	.41	.240
December.....	38	3.4	12.3	1.08	1.24	.698
January.....	52	8.8	19.3	1.69	1.95	1.09
February.....	108	14	22.9	2.01	2.09	1.30
March.....	28	12	15.8	1.39	1.60	.898
April.....	235	10	25.7	2.25	2.51	1.45
May.....	42	11	17.6	1.54	1.78	.995
June.....	164	8.6	18.0	1.58	1.76	1.02
July.....	14	5.9	8.04	.705	.81	.456
August.....	95	5.3	12.2	1.07	1.23	.692
September.....	7.0	4.5	5.53	.485	.54	.313
The year.....	235	3.4	13.8	1.21	16.43	.782
1937-36						
October.....	202	4.8	18.2	1.60	1.84	1.03
November.....	401	8.8	27.1	2.38	2.66	1.54
December.....	18	8.5	11.0	.965	1.11	.624
January.....	28	8.5	11.9	1.04	1.20	.672
February.....	38	9.4	13.1	1.15	1.20	.743
March.....	19	10	13.1	1.15	1.33	.743
April.....	38	8.8	12.2	1.07	1.19	.692
May.....	17	7.2	9.67	.848	.98	.548
June.....	41	5.1	9.94	.872	.97	.564
July.....	134	3.9	16.0	1.40	1.61	.905
August.....	87	3.6	10.1	.886	1.02	.573
September.....	40	4.1	8.71	.764	.85	.494
The year.....	401	3.6	13.4	1.18	15.96	.763
1938-39						
October.....	8.8	4.7	5.55	.487	.56	.315
November.....	13	4.9	6.51	.571	.64	.369
December.....	40	6.9	12.4	1.09	1.26	.704
January.....	195	5.0	15.3	1.34	1.54	.866
February.....	102	16	28.2	2.47	2.57	1.60
March.....	34	15	21.3	1.87	2.16	1.21
April.....	38	14	19.3	1.69	1.89	1.09
May.....	20	7.6	12.1	1.06	1.22	.685
June.....	64	6.6	11.8	1.04	1.16	.672
July.....	11	5.1	6.85	.601	.69	.388
August.....	31	3.2	6.16	.540	.62	.349
September.....	19	3.0	4.64	.407	.45	.263
The year.....	195	3.0	12.4	1.09	14.76	.704
1939-40						
October.....	58	4.4	7.78	.682	.79	.441
November.....	19	4.6	6.17	.541	.60	.350
December.....	15	4.0	5.49	.482	.56	.312
January.....	42	3.5	5.73	.503	.58	.325
February.....	120	3.5	14.4	1.20	1.36	.814
March.....	53	8.5	15.4	1.35	1.56	.873
April.....	211	7.9	31.2	2.74	3.06	1.77
May.....	23	10	13.2	1.16	1.34	.750
June.....	13	5.7	7.98	.700	.78	.452
July.....	19	4.0	6.35	.557	.64	.360
August.....	16	3.4	5.09	.446	.51	.288
September.....	90	3.0	7.24	.635	.71	.410
The year.....	211	3.0	10.5	.921	12.49	.595

Monthly discharge of Piney Run near Sykesville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	16	4.4	5.59	0.490	0.57	0.317
November.....	52	5.3	13.2	1.16	1.29	.750
December.....	25	6.8	10.1	.866	1.02	.573
January.....	25	7.7	11.3	.991	1.14	.641
February.....	48	8.3	12.6	1.11	1.15	.717
March.....	49	7.6	14.3	1.25	1.45	.808
April.....	59	8.1	14.0	1.23	1.37	.795
May.....	10	4.9	6.85	.601	.69	.388
June.....	28	4.3	7.63	.669	.75	.432
July.....	18	3.0	5.95	.522	.60	.337
August.....	3.8	2.2	2.81	.246	.28	.159
September.....	3.0	1.3	1.73	.152	.17	.098
The year.....	59	1.3	8.80	.772	10.48	.498
1941-42						
October.....	2.7	1.3	1.96	.172	.20	.111
November.....	6.5	2.7	3.09	.271	.30	.175
December.....	23	2.9	4.66	.409	.47	.264
January.....	12	2.8	4.34	.381	.44	.246
February.....	38	3.9	7.00	.614	.64	.397
March.....	41	4.2	8.55	.750	.87	.485
April.....	56	5.7	12.5	1.10	1.23	.711
May.....	18	4.2	6.23	.546	.63	.353
June.....	52	3.7	7.80	.684	.76	.442
July.....	103	3.5	10.5	.921	1.06	.595
August.....	171	4.0	17.6	1.54	1.78	.895
September.....	59	3.7	7.19	.631	.70	.408
The year.....	171	1.3	7.62	.668	9.08	.432
1942-43						
October.....	139	4.7	22.1	1.94	2.23	1.25
November.....	20	9.4	11.9	1.04	1.17	.672
December.....	107	8.0	16.4	1.44	1.66	.931
January.....	22	10	13.0	1.14	1.32	.737
February.....	53	11	19.8	1.74	1.81	1.12
March.....	39	11	19.1	1.68	1.93	1.09
April.....	45	12	15.6	1.37	1.53	.885
May.....	23	9.4	12.3	1.08	1.24	.698
June.....	10	5.4	7.80	.684	.76	.442
July.....	10	3.7	5.45	.478	.55	.309
August.....	4.1	2.1	2.77	.243	.28	.157
September.....	3.2	1.8	2.22	.195	.22	.126
The year.....	139	1.8	12.3	1.08	14.70	.698

Yearly discharge of Piney Run near Sykesville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1932.....	6.21	0.545	7.41	0.352	8.68	0.761	10.36	0.492
1933.....	17.9	1.57	21.34	1.01	16.9	1.48	20.08	.957
1934.....	11.3	.991	13.50	.641	11.9	1.04	14.23	.672
1935.....	13.5	1.18	16.01	.763	13.0	1.14	15.53	.737
1936.....	15.4	1.35	18.42	.873	15.0	1.32	17.90	.853
1937.....	13.8	1.21	16.43	.782	16.7	1.46	19.88	.944
1938.....	13.4	1.18	15.96	.763	10.7	.939	12.81	.607
1938.....	12.4	1.09	14.76	.704	12.0	1.05	14.25	.679
1940.....	10.5	.921	12.49	.595	11.2	.982	13.42	.635
1941.....	8.80	.772	10.48	.499	7.20	.632	8.57	.408
1942.....	7.62	.668	9.08	.432	11.0	.965	13.17	.624
1943.....	12.3	1.08	14.70	.698	-	-	-	-
Highest.....	17.9	1.57	21.34	1.01	16.9	1.48	20.08	.957
Average.....	11.9	1.04	14.22	.672	12.2	1.07	14.56	.692
Lowest.....	6.21	.545	7.41	.352	7.20	.632	8.57	.408

North River near Annapolis, Md.

Location.- Water-stage recorder, lat. 38°59'09", long. 76°37'21", 500 feet downstream from bridge on U. S Highway 50, 0.8 mile upstream from mouth, and 7 miles west of Annapolis, Anne Arundel County. Prior to Nov. 2, 1933, staff gage at same site and datum.

Drainage area.- 8.5 square miles.

Records available.- December 1931 to September 1943.

Extremes.- Maximum discharge, about 675 second-feet April 26, 1937 (gage height, 2.78 feet); minimum, 1.5 second-feet Sept. 1, 2, 4, 1932.

Monthly discharge of North River near Annapolis, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
December 15-31.....	13	4.2	5.39	0.634	0.40	0.410
January.....	23	3.9	8.99	1.05	1.22	.685
February.....	22	4.7	7.51	.884	.95	.571
March.....	31	5.5	10.5	1.24	1.43	.801
April.....	28	6.0	9.90	1.16	1.29	.750
May.....	39	5.0	9.92	1.17	1.35	.756
June.....	14	3.2	6.38	.633	.71	.409
July.....	18	2.8	5.02	.591	.68	.382
August.....	6	1.8	2.95	.347	.40	.224
September.....	9.5	1.5	2.55	.300	.33	.194
1932-33						
October.....	45	2.0	7.21	.848	.98	.548
November.....	27	5.5	10.6	1.25	1.40	.808
December.....	28	5.5	9.45	1.11	1.28	.717
January.....	62	7.0	11.6	1.36	1.57	.879
February.....	19	7.5	10.3	1.21	1.26	.782
March.....	26	7.0	11.1	1.30	1.50	.840
April.....	71	9.0	18.0	2.12	2.36	1.37
May.....	20	8.0	11.6	1.36	1.57	.879
June.....	24	5.0	7.38	.868	.97	.561
July.....	48	4.8	9.32	1.10	1.27	.711
August.....	115	4.8	14.2	1.67	1.92	1.08
September.....	18	6.0	9.78	1.15	1.28	.745
The year.....	115	2.0	10.9	1.28	17.36	.827
1933-34						
October.....	19	7.2	9.40	1.11	1.28	.717
November.....	20	6.8	8.77	1.03	1.15	.666
December.....	24	6.2	9.64	1.13	1.30	.730
January.....	23	5.3	11.1	1.31	1.51	.847
February.....	14	5.6	8.20	.965	1.00	.624
March.....	106	8.0	22.5	2.65	3.06	1.71
April.....	28	10	14.9	1.75	1.95	1.13
May.....	31	8.4	13.1	1.54	1.78	.995
June.....	27	5.9	8.30	.976	1.09	.631
July.....	24	4.0	6.51	.766	.88	.495
August.....	17	4.0	5.45	.641	.74	.414
September.....	151	4.0	22.2	2.61	2.91	1.69
The year.....	151	4.0	11.7	1.38	18.65	.892
1934-35						
October.....	17	7.5	8.91	1.05	1.21	.679
November.....	30	7.5	9.87	1.16	1.29	.750
December.....	26	7.8	11.4	1.34	1.54	.866
January.....	34	7.8	13.6	1.60	1.84	1.03
February.....	29	9.2	14.8	1.74	1.81	1.12
March.....	36	10	13.5	1.59	1.85	1.03
April.....	143	11	22.1	2.60	2.90	1.62
May.....	25	7.8	11.8	1.39	1.60	.898
June.....	25	6.4	8.90	1.05	1.17	.679
July.....	32	5.6	8.82	1.04	1.20	.672
August.....	26	4.7	7.39	.869	1.00	.562
September.....	80	6.0	12.4	1.46	1.63	.944
The year.....	143	4.7	11.9	1.40	19.02	.905
1935-36						
October.....	20	6.4	8.13	.956	1.10	.618
November.....	48	8.3	14.6	1.72	1.92	1.11
December.....	18	6.7	9.97	1.17	1.35	.756
January.....	46	8.0	19.2	2.26	2.61	1.46
February.....	70	8.5	22.6	2.66	2.87	1.72
March.....	46	14	21.9	2.58	2.97	1.67
April.....	28	11	16.7	1.96	2.19	1.27
May.....	49	8.3	13.8	1.62	1.87	1.05
June.....	19	6.0	8.10	.953	1.06	.616
July.....	22	6.0	10.1	1.19	1.37	.769
August.....	32	5.4	8.29	.975	1.12	.630
September.....	11	4.9	5.99	.705	.79	.456
The year.....	70	4.9	13.2	1.55	21.22	1.00

Monthly discharge of North River near Annapolis, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	30	6.0	8.67	1.02	1.18	0.659
November.....	11	6.0	7.24	.852	.95	.551
December.....	32	5.7	11.5	1.35	1.56	.873
January.....	55	11	18.9	2.22	2.56	1.43
February.....	42	11	15.8	1.86	1.94	1.20
March.....	17	9.2	11.9	1.40	1.61	.905
April.....	307	9.2	30.4	3.58	3.99	2.31
May.....	23	9.7	14.8	1.74	2.01	1.12
June.....	20	6.7	10.0	1.18	1.32	.763
July.....	19	5.4	8.38	.986	1.14	.637
August.....	169	4.9	17.6	2.07	2.39	1.34
September.....	11	5.7	7.23	.851	.95	.550
The year.....	307	4.9	13.5	1.59	21.60	1.03
1937-38						
October.....	108	6.0	17.9	2.11	2.43	1.36
November.....	342	8.7	26.4	3.11	3.47	2.01
December.....	19	8.5	11.9	1.40	1.61	.905
January.....	23	8.2	12.2	1.44	1.66	.931
February.....	26	9.4	13.1	1.54	1.60	.995
March.....	18	9.8	12.2	1.44	1.66	.931
April.....	21	9.0	10.9	1.28	1.43	.827
May.....	28	7.4	10.9	1.28	1.48	.827
June.....	20	6.0	8.20	.965	1.08	.624
July.....	24	4.4	8.25	.971	1.12	.628
August.....	11	4.4	5.74	.675	.78	.436
Septambar.....	42	4.7	9.00	1.06	1.18	.685
The year.....	342	4.4	12.2	1.44	19.50	.931
1938-39						
October.....	16	5.4	7.26	.854	.98	.552
November.....	15	6.4	7.63	.898	1.00	.580
December.....	26	6.0	9.38	1.10	1.27	.711
January.....	71	5.7	10.4	1.22	1.41	.789
February.....	35	9.7	17.2	2.02	2.10	1.31
March.....	63	11	16.6	1.95	2.25	1.26
April.....	30	11	16.8	1.98	2.21	1.28
May.....	15	6.0	9.65	1.14	1.31	.737
June.....	68	5.3	9.25	1.09	1.22	.704
July.....	14	5.3	7.07	.832	.96	.538
August.....	46	4.5	7.36	.866	1.00	.560
Septamber.....	35	5.1	7.06	.831	.93	.537
The year.....	71	4.5	10.4	1.22	16.64	.789
1939-40						
October.....	45	6.1	10.2	1.20	1.38	.776
November.....	23	6.4	8.41	.989	1.10	.639
December.....	12	6.0	7.45	.876	1.01	.566
January.....	25	4.5	6.19	.728	.84	.471
February.....	55	4.5	12.5	1.47	1.58	.950
March.....	42	7.2	11.7	1.38	1.59	.892
April.....	96	8.0	18.9	2.22	2.48	1.43
May.....	65	7.5	13.4	1.58	1.82	1.02
June.....	12	4.9	6.83	.804	.90	.520
July.....	54	4.3	8.41	.989	1.14	.639
August.....	18	4.0	6.42	.755	.87	.488
September.....	61	5.1	8.18	.962	1.07	.622
The year.....	96	4.0	9.86	1.16	15.78	.750
1940-41						
October.....	14	5.6	6.49	.764	.88	.494
November.....	46	6.4	12.4	1.46	1.62	.944
December.....	25	6.8	9.33	1.10	1.27	.711
January.....	23	6.4	10.3	1.21	1.40	.782
February.....	15	6.0	8.27	.973	1.01	.629
March.....	21	6.0	10.4	1.22	1.41	.789
April.....	37	7.2	12.3	1.45	1.61	.937
May.....	9.5	4.7	6.03	.709	.82	.458
June.....	30	4.7	8.95	1.05	1.17	.679
July.....	24	4.0	7.95	.935	1.08	.604
August.....	12	3.5	4.98	.586	.68	.379
September.....	4.2	2.8	3.15	.371	.41	.240
The year.....	46	2.8	8.37	.985	13.36	.637

Monthly discharge of North River near Annapolis, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	5.2	2.8	3.84	0.452	0.52	0.292
November.....	8.3	4.2	4.96	.584	.65	.377
December.....	28	4.5	7.22	.849	.98	.549
January.....	24	3.1	7.49	.861	1.02	.569
February.....	36	4.3	8.47	.996	1.04	.644
March.....	34	6.1	11.6	1.36	1.57	.879
April.....	36	6.1	11.5	1.35	1.50	.873
May.....	13	4.0	6.47	.761	.88	.492
June.....	35	2.7	5.06	.595	.66	.365
July.....	21	2.9	5.47	.644	.74	.416
August.....	241	4.0	20.4	2.40	2.77	1.55
September.....	32	3.8	6.79	.799	.89	.516
The year.....	241	2.7	8.28	.974	13.22	.630
1942-43						
October.....	111	4.5	17.0	2.00	2.31	1.29
November.....	13	6.5	8.20	.965	1.09	.624
December.....	30	6.4	12.6	1.48	1.71	.857
January.....	16	7.2	10.2	1.20	1.38	.776
February.....	28	8.5	15.1	1.78	1.85	1.15
March.....	30	8.5	15.0	1.76	2.04	1.14
April.....	30	10	13.2	1.65	1.74	1.00
May.....	24	8.5	11.7	1.38	1.59	.892
June.....	16	4.9	7.84	.922	1.03	.596
July.....	8.0	3.7	5.09	.599	.69	.367
August.....	4.0	2.9	3.33	.392	.46	.253
September.....	24	3.3	5.42	.638	.71	.412
The year.....	111	2.9	10.4	1.22	16.58	.789

Yearly discharge of North River near Annapolis, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1932.....	-	-	-	-	7.50	0.882	12.02	0.570
1933.....	10.9	1.28	17.36	0.827	10.9	1.28	17.43	.827
1934.....	11.7	1.38	16.65	.892	11.9	1.40	18.96	.905
1935.....	11.9	1.40	19.02	.905	12.1	1.42	19.35	.918
1936.....	13.2	1.55	21.22	1.00	12.8	1.51	20.54	.976
1937.....	13.5	1.59	21.60	1.03	15.9	1.87	25.42	1.21
1938.....	12.2	1.44	19.50	.931	9.55	1.12	15.24	.724
1939.....	10.4	1.22	16.64	.789	10.6	1.25	16.88	.808
1940.....	9.86	1.16	15.78	.750	10.0	1.18	16.06	.763
1941.....	8.37	.985	13.36	.637	7.36	.866	11.74	.560
1942.....	8.28	.974	13.22	.630	10.1	1.19	16.17	.769
1943.....	10.4	1.22	16.58	.789	-	-	-	-
Highest.....	13.5	1.59	21.60	1.03	15.9	1.87	25.42	1.21
Average.....	11.0	1.29	17.54	.834	10.8	1.27	17.26	.821
Lowest.....	8.28	.974	13.22	.630	7.36	.866	11.74	.560

Bacon Ridge Branch at Chesterfield, Md.

Location.- Water-stage recorder and concrete control, lat. 39°00'07", long. 76°36'53", 0.5 mile east of Chesterfield, Anne Arundal County, 1.4 miles upstream from confluence with North River, and 6.8 miles northwest of Annapolis.

Drainage area.- 6.92 square miles.

Records available.- November 1942 to September 1943.

Extremes.- Maximum discharge, 46 second-feet Mar. 7 (gage height, 2.61 feet); minimum, 3.0 second-feet Aug. 4, 16, 19-27 (gage height, 1.75 feet).

Remarks.- Figures of daily discharge include sewage from Crownsville State Hospital, which obtains its water supply from wells. Records of water pumped from the wells can be obtained from the office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Bacon Ridge Branch at Chesterfield, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
November 5-30.....	11.0	5.6	7.10			
December.....	28	5.6	9.88			
January.....	14.5	7.0	9.13			
February.....	25	7.5	13.1			
March.....	29	7.5	12.5			
April.....	29	8.5	10.9			
May.....	23	7.0	9.62			
June.....	13.5	3.8	6.15			
July.....	9.4	3.2	4.83			
August.....	3.8	3.0	3.25			
September.....	12.5	3.2	4.28			

PATUXENT RIVER BASIN

Patuxent River near Burtonsville, Md.

Location.- Water-stage recorder, lat. 39°07'47", long. 76°55'04", 150 feet upstream from Highway bridge, 1½ miles north of Burtonsville, Montgomery County, and 8 miles downstream from Hawlings River. Datum of gage 232.79 feet above mean sea level, adjustment of 1912. From July 22, 1914 to July 10, 1929, water-stage recorder 80 feet downstream from highway bridge at present datum. Prior to July 22, 1914, staff gage at highway bridge, datum 1.29 feet higher than present datum.

Drainage area.- 127 square miles.

Records available.- July 1911 to June 1912, July 1913 to September 1943.

Extremes.- Maximum discharge, 11,000 second-feet Aug. 24, 1933 (gage height, 21.7 feet, from floodmarks), from rating curve extended above 3,800 second-feet; minimum, 4.6 second-feet Oct. 9, 10, 1942.

Remarks.- Records do not include diversion by pumps at Mink Hollow (drainage area 109 square miles), which began Aug. 12, 1939, of part of low-water flow into Anacostia River Basin to augment supply of Washington Suburban Sanitary District or change in storage of Brighton Reservoir (usable capacity, 2,913,000,000 gallons) which began June 27, 1942. Pumping station records and change in storage of Brighton Reservoir can be obtained from the Washington Suburban Sanitary Commission, Hyattsville.

Monthly discharge of Patuxent River near Burtonsville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1911						
July 21-31.....	22	11	16.9	0.133	0.05	0.086
August.....	3,870	6	204	1.61	1.86	1.04
September.....	150	40	66.3	.522	.58	.337
1911-12						
October.....	284	40	71.0	.559	.64	.361
November.....	486	54	119	.937	1.05	.606
December.....	578	72	138	1.09	1.26	.704
January.....	449	-	199	1.57	1.81	1.01
February.....	1,790	150	354	2.79	3.01	1.80
March.....	1,620	102	351	2.76	3.18	1.78
April.....	212	110	145	1.14	1.27	.737
May.....	424	87	154	1.21	1.40	.792
June 1-15.....	203	115	124	.976	.54	.631

Monthly discharge of Patuxent River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1913						
July 21-31.....	50	36	40.3	0.317	0.13	0.205
August.....	2,010	43	239	1.88	2.17	1.22
September.....	605	36	68.9	.543	.61	.351
1913-14						
October.....	222	43	69.2	.545	.63	.352
November.....	222	57	82.9	.653	.73	.422
December.....	474	57	84.5	.705	.81	.456
January.....	660	80	142	1.12	1.29	.724
February.....	263	85	117	.921	.96	.595
March.....	350	110	133	1.44	1.66	.931
April.....	1,320	94	163	1.28	1.43	.827
May.....	263	80	119	.937	1.08	.606
June.....	118	44	74.2	.584	.65	.377
July.....	203	25	46.9	.369	.43	.233
August.....	476	19	76.0	.598	.69	.386
September.....	63	30	41.6	.328	.37	.212
The year.....	1,320	19	100	.787	10.73	.509
1914-15						
October.....	78	-	35.7	.261	.42	.182
November.....	196	26	44.9	.354	.40	.229
December.....	368	37	112	.882	1.02	.570
January.....	3,620	102	375	2.95	3.40	1.91
February.....	2,830	139	325	2.56	2.67	1.65
March.....	234	105	142	1.12	1.29	.724
April.....	119	61	97.6	.769	.86	.497
May.....	197	62	94.8	.746	.86	.482
June.....	773	53	132	1.04	1.16	.672
July.....	747	41	84.1	.662	.76	.428
August.....	1,010	38	184	1.45	1.67	.937
September.....	145	38	72.7	.572	.64	.370
The year.....	3,620	-	141	1.11	15.05	.717
1915-16						
October.....	315	60	97.6	.769	.89	.497
November.....	104	48	64.2	.506	.56	.327
December.....	342	51	102	.803	.93	.519
January.....	157	42	101	.795	.92	.514
February.....	292	103	145	1.14	1.23	.737
March.....	361	81	133	1.05	1.21	.679
April.....	267	105	136	1.07	1.19	.692
May.....	148	67	90.2	.710	.82	.459
June.....	492	62	130	1.02	1.14	.659
July.....	1,120	70	179	1.41	1.63	.911
August.....	181	59	83.5	.657	.76	.425
September.....	202	44	65.2	.513	.57	.332
The year.....	1,120	42	110	.866	11.85	.560
1916-17						
October.....	126	56	64.9	.511	.59	.330
November.....	282	52	70.8	.557	.62	.360
December.....	205	53	113	.890	1.03	.575
January.....	510	88	169	1.33	1.53	.860
February.....	450	60	123	.969	1.01	.626
March.....	810	130	263	2.07	2.39	1.34
April.....	358	112	135	1.06	1.18	.685
May.....	377	90	139	1.09	1.26	.704
June.....	787	64	146	1.15	1.28	.743
July.....	1,200	60	176	1.39	1.60	.898
August.....	296	50	75.9	.598	.69	.386
September.....	133	48	58.9	.464	.52	.300
The year.....	1,200	48	128	1.01	13.70	.653

Monthly discharge of Potomac River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1917-18						
October.....	507	47	104	0.819	0.94	0.529
November.....	76	47	62.6	.494	.55	.319
December.....	100	15	55.1	.434	.50	.281
January.....	1,810	19	167	1.31	1.51	.847
February.....	1,620	62	326	2.57	2.68	1.66
March.....	700	87	164	1.29	1.49	.834
April.....	1,050	81	254	2.00	2.23	1.29
May.....	577	72	136	1.07	1.23	.692
June.....	162	56	74.2	.584	.65	.377
July.....	121	35	49.7	.391	.45	.253
August.....	270	22	56.6	.446	.51	.288
September.....	186	32	55.9	.440	.49	.284
The year.....	1,810	15	124	.976	13.23	.631
1918-19						
October.....	62	32	41.0	.323	.37	.209
November.....	240	32	48.7	.383	.43	.248
December.....	661	37	136	1.07	1.23	.692
January.....	732	93	169	1.33	1.53	.860
February.....	247	55	102	.803	.84	.519
March.....	695	108	180	1.42	1.64	.918
April.....	815	102	196	1.54	1.72	.995
May.....	1,550	124	277	2.18	2.51	1.41
June.....	353	81	134	1.06	1.18	.685
July.....	916	60	225	1.77	2.04	1.14
August.....	796	112	173	1.36	1.57	.879
September.....	381	72	118	.929	1.04	.600
The year.....	1,550	32	151	1.19	16.10	.769
1919-20						
October.....	240	77	113	.890	1.03	.575
November.....	430	82	155	1.22	1.36	.789
December.....	-	-	162	1.28	1.48	.827
January.....	-	-	160	1.26	1.45	.814
February.....	1,230	142	386	3.04	3.28	1.96
March.....	1,860	128	347	2.73	3.15	1.76
April.....	645	127	220	1.73	1.93	1.12
May.....	275	101	139	1.09	1.26	.704
June.....	385	80	147	1.16	1.29	.750
July.....	528	72	141	1.11	1.28	.717
August.....	968	72	184	1.45	1.61	.937
September.....	237	38	62.0	.488	.54	.315
The year.....	1,860	38	184	1.45	19.66	.937
1920-21						
October.....	148	38	52.6	.414	.48	.268
November.....	662	42	90.4	.712	.79	.460
December.....	696	-	135	1.06	1.22	.685
January.....	-	-	96.9	.763	.88	.493
February.....	272	-	90.1	.709	.74	.458
March.....	342	-	127	1.00	1.15	.646
April.....	370	80	135	1.06	1.18	.685
May.....	731	120	227	1.79	2.06	1.16
June.....	323	50	83.5	.657	.73	.425
July.....	413	33	95.0	.748	.86	.493
August.....	195	32	69.0	.543	.63	.351
September.....	40	25	31.5	.248	.28	.160
The year.....	731	25	103	.811	11.00	.524
1921-22						
October.....	34	25	30.1	.237	.27	.153
November.....	491	32	69.1	.544	.61	.352
December.....	236	73	94.2	.742	.86	.480
January.....	321	-	117	.921	1.06	.595
February.....	970	-	257	2.02	2.10	1.31
March.....	438	102	183	1.44	1.66	.931
April.....	125	66	86.7	.683	.76	.441
May.....	189	48	75.1	.591	.68	.382
June.....	344	42	84.2	.665	.74	.429
July.....	563	44	107	.842	.97	.544
August.....	146	28	48.5	.382	.44	.247
September.....	277	26	49.7	.391	.44	.253
The year.....	970	25	99.1	.780	10.59	.504

Monthly discharge of Patuxent River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1922-23						
October.....	449	24	52.5	0.413	0.48	0.267
November.....	46	33	40.0	.315	.35	.204
December.....	133	34	59.6	.469	.54	.303
January.....	149	-	87.5	.689	.79	.445
February.....	708	-	118	.929	.97	.600
March.....	387	90	151	1.19	1.37	.769
April.....	354	100	149	1.17	1.30	.756
May.....	361	71	106	.835	.96	.540
June.....	551	55	101	.795	.89	.514
July.....	-	33	79.7	.628	.72	.406
August.....	220	40	70.9	.558	.64	.361
September.....	349	41	105	.827	.92	.535
The year.....	-	24	93.1	.733	9.93	.474
1923-24						
October.....	125	54	65.2	.513	.59	.332
November.....	-	-	88.3	.695	.78	.449
December.....	257	91	134	1.06	1.22	.655
January.....	973	-	230	1.81	2.09	1.37
February.....	777	-	197	1.55	1.67	1.00
March.....	1,450	141	327	2.57	2.96	1.66
April.....	1,190	195	341	2.69	3.00	1.74
May.....	1,170	176	319	2.51	2.89	1.62
June.....	556	133	220	1.73	1.93	1.12
July.....	231	68	117	.921	1.06	.595
August.....	793	71	173	1.36	1.57	.879
September.....	2,720	71	206	1.62	1.81	1.05
The year.....	2,720	54	201	1.58	21.57	1.02
1924-25						
October.....	693	70	130	1.02	1.18	.659
November.....	-	-	125	.984	1.10	.636
December.....	-	-	108	.850	.98	.549
January.....	274	78	146	1.15	1.33	.743
February.....	-	127	331	2.61	2.72	1.69
March.....	286	-	150	1.18	1.56	.763
April.....	172	108	124	.976	1.09	.631
May.....	385	73	111	.873	1.01	.564
June.....	158	37	56.3	.443	.49	.286
July.....	-	37	87.3	.687	.79	.444
August.....	-	32	58.0	.457	.53	.295
September.....	388	30	66.6	.524	.58	.339
The year.....	693	30	123	.969	13.16	.626
1925-26						
October.....	446	32	85.6	.674	.78	.436
November.....	-	75	112	.882	.98	.570
December.....	164	-	87.3	.687	.79	.444
January.....	900	-	153	1.20	1.38	.776
February.....	1,140	-	255	2.01	2.09	1.30
March.....	205	-	124	.976	1.13	.631
April.....	244	78	108	.850	.95	.549
May.....	178	60	79.1	.623	.72	.403
June.....	79	35	51.2	.403	.45	.260
July.....	701	31	70.0	.551	.64	.356
August.....	250	28	100	.787	.91	.509
September.....	1,400	46	222	1.75	1.95	1.13
The year.....	1,400	28	119	.937	12.77	.606
1926-27						
October.....	399	60	115	.906	1.04	.586
November.....	1,740	96	266	2.09	2.33	1.35
December.....	379	-	168	1.32	1.52	.853
January.....	313	117	172	1.35	1.56	.873
February.....	428	127	213	1.68	1.75	1.09
March.....	197	142	161	1.27	1.46	.821
April.....	1,260	134	232	1.83	2.04	1.18
May.....	488	130	174	1.37	1.58	.885
June.....	241	81	122	.961	1.07	.621
July.....	144	50	75.8	.597	.69	.386
August.....	228	57	87.9	.692	.80	.447
September.....	155	35	54.0	.425	.47	.275
The year.....	1,740	35	153	1.20	16.31	.776

Monthly discharge of Patuxent River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1927-28						
October.....	635	34	153	1.20	1.38	0.776
November.....	-	-	100	.787	.88	.509
December.....	-	-	168	1.32	1.52	.853
January.....	257	-	113	.890	1.03	.575
February.....	656	-	211	1.66	1.79	1.07
March.....	251	122	161	1.27	1.46	.821
April.....	1,280	112	206	1.62	1.81	1.05
May.....	232	-	151	1.19	1.37	.769
June.....	1,240	101	351	2.76	3.08	1.78
July.....	270	85	132	1.04	1.20	.672
August.....	1,070	73	193	1.52	1.75	.982
September.....	261	88	128	1.01	1.13	.653
The year.....	1,280	34	172	1.35	18.40	.873
1928-29						
October.....	142	82	90.7	.714	.82	.461
November.....	166	76	90.3	.711	.79	.460
December.....	228	-	96.1	.757	.67	.480
January.....	273	-	118	.929	1.07	.600
February.....	856	-	179	1.41	1.47	.911
March.....	643	128	218	1.72	1.98	1.11
April.....	1,100	120	237	1.87	2.09	1.21
May.....	243	102	140	1.10	1.27	.711
June.....	397	73	111	.874	.98	.565
July.....	75	31	50.8	.400	.46	.259
August.....	-	25	33.0	.260	.30	.168
September.....	82	23	32.3	.254	.28	.164
The year.....	1,100	23	116	.913	12.38	.590
1929-30						
October.....	610	43	111	.874	1.01	.565
November.....	287	53	97.6	.769	.86	.497
December.....	145	-	77.7	.612	.71	.396
January.....	119	-	74.8	.589	.68	.381
February.....	556	-	160	1.26	1.31	.814
March.....	891	87	145	1.14	1.31	.737
April.....	1,010	87	156	1.23	1.37	.765
May.....	93	51	70.8	.557	.64	.360
June.....	86	28	45.4	.357	.40	.231
July.....	46	10	20.9	.165	.19	1.07
August.....	16	6.9	10.4	.082	.09	.053
September.....	24	5.5	9.37	.074	.08	.048
The year.....	1,010	5.5	81.0	.638	8.65	.412
1930-31						
October.....	21	5.5	11.0	.087	.10	.056
November.....	26	15	19.4	.153	.17	.092
December.....	-	-	37.7	.297	.34	.192
January.....	336	-	50.3	.396	.46	.256
February.....	92	-	36.8	.290	.30	.187
March.....	319	37	64.6	.509	.59	.329
April.....	250	41	73.2	.576	.64	.372
May.....	291	34	62.6	.433	.57	.319
June.....	225	21	60.9	.480	.54	.310
July.....	-	-	101	.795	.92	.514
August.....	554	12	80.5	.654	.73	.410
September.....	30	14	20.4	.161	.18	.104
The year.....	-	5.5	51.7	.407	5.54	.263
1931-32						
October.....	104	8	16.5	.150	.15	.084
November.....	31	16	20.6	.162	.18	.105
December.....	87	22	35.1	.276	.32	.178
January.....	208	48	91.3	.719	.83	.465
February.....	336	51	88.4	.696	.75	.450
March.....	990	51	124	.976	1.13	.631
April.....	339	71	116	.913	1.02	.590
May.....	850	65	134	1.06	1.22	.685
June.....	385	36	88.4	.696	.78	.450
July.....	59	12	33.1	.261	.30	.169
August.....	234	9.0	26.4	.208	.24	.134
September.....	144	5.5	17.7	.139	.16	.090
The year.....	990	5.5	66.0	.520	7.08	.336

Monthly discharge of Patuxent River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	833	10	104	0.819	0.94	0.529
November.....	933	81	196	1.54	1.72	.995
December.....	499	70	117	.921	1.06	.595
January.....	635	94	139	1.09	1.26	.704
February.....	455	117	164	1.29	1.54	.834
March.....	559	110	194	1.53	1.76	.989
April.....	1,010	171	280	2.20	2.46	1.42
May.....	669	150	238	1.87	2.16	1.21
June.....	603	93	151	1.19	1.33	.769
July.....	2,090	70	189	1.49	1.72	.963
August.....	6,010	54	352	2.77	3.19	1.79
September.....	449	81	115	.906	1.01	.586
The year.....	6,010	10	187	1.47	19.95	.950
1933-34						
October.....	153	72	89.6	.706	.81	.456
November.....	163	71	81.8	.644	.72	.416
December.....	172	65	82.9	.653	.75	.422
January.....	365	60	126	.992	1.14	.641
February.....	347	60	85.2	.671	.70	.434
March.....	1,220	70	243	1.91	2.20	1.23
April.....	330	112	169	1.33	1.48	.860
May.....	484	99	157	1.24	1.43	.801
June.....	424	59	102	.803	.90	.519
July.....	118	33	46.5	.366	.42	.237
August.....	216	27	49.5	.390	.45	.252
September.....	1,530	32	231	1.82	2.03	1.18
The year.....	1,530	27	122	.961	13.03	.621
1934-35						
October.....	235	78	102	.803	.93	.519
November.....	576	74	103	.811	.90	.524
December.....	915	98	170	1.34	1.54	.866
January.....	450	109	167	1.31	1.51	.847
February.....	642	100	248	1.95	2.03	1.26
March.....	608	167	227	1.79	2.06	1.16
April.....	1,150	158	272	2.14	2.39	1.38
May.....	1,330	117	211	1.66	1.91	1.07
June.....	439	76	119	.937	1.05	.606
July.....	502	55	102	.803	.93	.519
August.....	137	37	52.5	.413	.48	.267
September.....	1,150	35	142	1.12	1.25	.724
The year.....	1,330	35	159	1.25	16.98	.808
1935-36						
October.....	526	52	77.3	.609	.70	.394
November.....	454	71	137	1.08	1.20	.698
December.....	176	75	107	.845	.97	.545
January.....	1,700	90	310	2.44	2.81	1.58
February.....	1,960	107	414	3.26	3.52	2.11
March.....	1,080	164	321	2.53	2.82	1.64
April.....	354	144	207	1.63	1.82	1.05
May.....	236	85	125	.984	1.15	.636
June.....	265	59	89.9	.708	.79	.458
July.....	214	41	70.6	.556	.64	.359
August.....	659	32	100	.787	.91	.506
September.....	71	32	43.8	.345	.38	.223
The year.....	1,960	32	166	1.31	17.79	.847
1936-37						
October.....	141	39	55.4	.436	.50	.282
November.....	69	44	49.7	.391	.44	.253
December.....	844	42	150	1.18	1.36	.763
January.....	643	117	238	1.87	2.16	1.21
February.....	1,070	167	251	1.98	2.06	1.28
March.....	273	144	180	1.42	1.64	.918
April.....	2,200	120	305	2.40	2.68	1.55
May.....	312	128	197	1.55	1.79	1.00
June.....	1,390	96	185	1.46	1.63	.944
July.....	250	66	106	.835	.96	.540
August.....	1,410	59	244	1.92	2.21	1.24
September.....	209	62	88.1	.694	.77	.449
The year.....	2,200	39	170	1.34	18.20	.866

Monthly discharge of Petuxent River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	2,360	62	273	2.15	2.48	1.39
November.....	2,460	130	259	2.04	2.28	1.32
December.....	198	122	143	1.13	1.30	.730
January.....	284	110	143	1.13	1.30	.730
February.....	542	115	168	1.32	1.38	.853
March.....	270	120	153	1.20	1.38	.776
April.....	248	98	132	1.04	1.16	.672
May.....	258	81	114	.898	1.04	.580
June.....	142	55	76.4	.602	.67	.389
July.....	391	38	83.8	.660	.76	.427
August.....	200	32	62.7	.494	.57	.319
September.....	227	37	74.3	.585	.65	.378
The year.....	2,460	32	140	1.10	14.97	.771
1938-39						
October.....	69	46	52.2	.411	.47	.266
November.....	98	51	63.4	.499	.56	.323
December.....	479	70	112	.882	1.02	.570
January.....	1,510	66	142	1.12	1.29	.724
February.....	802	141	274	2.16	2.25	1.40
March.....	420	138	202	1.59	1.83	1.03
April.....	568	130	204	1.61	1.80	1.04
May.....	189	79	121	.953	1.10	.616
June.....	258	64	94.5	.744	.83	.481
July.....	111	46	60.3	.475	.55	.307
August.....	202	23	40.4			
September.....	91	17	27.6			
The year.....	1,510	17	115			
1939-40						
October.....	282	32	58.9			
November.....	173	41	58.8			
December.....	123	45	55.0			
January.....	330	45	63.2			
February.....	835	46	142			
March.....	529	96	156			
April.....	1,440	83	270			
May.....	289	109	144			
June.....	196	50	83.6			
July.....	168	27	55.2			
August.....	219	17	46.4			
September.....	444	22	61.0			
The year.....	1,440	17	99.2			
1940-41						
October.....	90	33	45.6			
November.....	657	52	140			
December.....	236	86	119			
January.....	250	92	139			
February.....	295	102	138			
March.....	294	97	145			
April.....	543	95	158			
May.....	92	42	70.8			
June.....	133	33	66.0			
July.....	205	22	61.5			
August.....	152	14	26.3			
September.....	23	6.5	11.1			
The year.....	657	6.5	92.9			
1941-42						
October.....	21	4.8	12.0			
November.....	55	16	20.9			
December.....	197	18	41.4			
January.....	129	21	40.4			
February.....	296	35	73.4			
March.....	364	44	100			
April.....	627	57	151			
May.....	258	37	71.7			
June.....	441	26	69.9			
July.....	133	16	26.3			
August.....	572	20	91.8			
September.....	110	18	32.4			
The year.....	627	4.8	60.8			

Monthly discharge of Patuxent River near Burtonsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	1,130	22	214			
November.....	280	63	116			
December.....	872	50	153			
January.....	400	97	144			
February.....	490	130	218			
March.....	404	105	201			
April.....	372	57	135			
May.....	528	55	108			
June.....	340	31	67.9			
July.....	94	23	42.6			
August.....	23	13	17.9			
September.....	44	13	18.1			
The year.....	1,130	13	119			

Yearly discharge of Patuxent River near Burtonsville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1914.....	100	0.787	10.73	0.509	96.3	0.758	10.30	0.490
1915.....	141	1.11	16.05	.717	147	1.16	16.69	.750
1916.....	110	.866	11.85	.560	109	.858	11.71	.555
1917.....	128	1.01	13.70	.653	126	.992	13.45	.641
1918.....	124	.976	13.23	.631	124	.976	13.27	.631
1919.....	151	1.19	16.10	.769	168	1.32	17.94	.853
1920.....	184	1.45	19.66	.937	172	1.35	18.28	.873
1921.....	103	.811	11.00	.524	95.9	.755	10.25	.488
1922.....	99.1	.780	10.59	.504	95.7	.754	10.22	.487
1923.....	93.1	.733	9.93	.474	104	.819	11.15	.529
1924.....	201	1.58	21.57	1.02	208	1.64	22.24	1.06
1925.....	123	.969	13.16	.626	116	.913	12.45	.590
1926.....	119	.937	12.77	.606	141	1.11	15.11	.717
1927.....	153	1.20	16.31	.776	142	1.12	15.20	.724
1928.....	172	1.35	18.40	.873	160	1.26	17.10	.814
1929.....	116	.913	12.38	.590	117	.921	12.48	.595
1930.....	81.0	.638	8.65	.412	62.6	.493	6.68	.319
1931.....	51.7	.407	5.54	.263	52.1	.410	5.58	.265
1932.....	66.0	.520	7.08	.336	94.7	.746	10.15	.482
1933.....	187	1.47	19.95	.950	173	1.36	18.51	.879
1934.....	122	.961	13.03	.621	132	1.04	14.12	.672
1935.....	159	1.25	16.98	.808	154	1.21	16.48	.782
1936.....	166	1.31	17.79	.847	161	1.27	17.22	.821
1937.....	170	1.34	18.20	.866	205	1.61	21.96	1.04
1938.....	140	1.10	14.97	.711	103	.811	10.96	.524
1939.....	115				110			
1940.....	99.2				110			
1941.....	92.9				73.7			
1942.....	60.8				95.3			
1943.....	119							
Highest.....	201				208			
Average.....	125				126			
Lowest.....	51.7				52.1			

Little Patuxent River at Guilford, Md.

Location.- Steff gege, lat. 39°10'04", long. 76°51'07", 75 feet upstream from highway bridge, 1 mile west of Guilford, Howard County, 3 miles upstream from Middle Patuxent River, end 4 miles north of Laurel.

Drainage area.- 38.0 square miles.

Records available.- May 1932 to September 1943.

Extremes.- Maximum discharge, 3,590 second-feet Aug. 23, 1933 (gege height, 12.5 feet, from floodmarks), from rating curve extended above 1,200 second-feet; minimum, 3.6 second-feet Sept. 10 to Oct. 4, 1932.

Monthly discharge of Little Patuxent River at Guilford, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932						
May 3-31.....	214	18	32.9	0.866	0.93	0.560
June.....	37	8	14.4	.379	.42	.245
July.....	139	5.5	13.0	.342	.39	.221
August.....	39	4.0	8.14	.214	.25	.138
September.....	6.5	3.6	3.88	.102	.11	.066
1932-33						
October.....	178	3.6	22.2	.584	.67	.377
November.....	676	21	73.9	1.94	2.16	1.25
December.....	188	18	34.9	.918	1.06	.593
January.....	297	26	42.8	1.13	1.30	.730
February.....	216	31	57	1.50	1.56	.969
March.....	216	30	78.1	2.06	2.38	1.33
April.....	421	42	98.7	2.60	2.90	1.68
May.....	130	38	57.9	1.52	1.75	.982
June.....	157	22	41.7	1.10	1.23	.711
July.....	710	13	47.6	1.25	1.44	.808
August.....	1,540	11	82.5	2.17	2.50	1.40
September.....	210	26	38.7	1.02	1.14	.659
The year.....	1,540	3.6	56.3	1.48	20.09	.957
1933-34						
October.....	70	25	31.3	.824	.95	.533
November.....	54	24	27.9	.734	.82	.474
December.....	85	20	28.4	.747	.86	.483
January.....	124	20	44.6	1.17	1.35	.756
February.....	52	19	30.6	.805	.84	.520
March.....	650	24	70.9	1.87	2.16	1.21
April.....	120	35	47.8	1.26	1.41	.814
May.....	234	30	52.1	1.37	1.58	.885
June.....	100	16	28.8	.758	.85	.490
July.....	25	9.3	12.5	.329	.38	.213
August.....	148	8.7	22.6	.595	.69	.385
September.....	925	9.3	116	3.05	3.40	1.97
The year.....	925	8.7	42.7	1.12	15.29	.724
1934-35						
October.....	78	25	33.9	.892	1.03	.577
November.....	181	24	35.0	.921	1.03	.595
December.....	312	25	54.1	1.42	1.64	.918
January.....	218	30	55.4	1.46	1.68	.944
February.....	218	40	78.6	2.07	2.16	1.34
March.....	157	46	60.0	1.58	1.82	1.02
April.....	619	45	109	2.87	3.20	1.85
May.....	511	34	73.7	1.94	2.24	1.25
June.....	244	18	37.2	.979	1.09	.633
July.....	385	15	42.4	1.12	1.29	.724
August.....	51	12	15.5	.408	.47	.264
September.....	511	12	51.7	1.36	1.52	.879
The year.....	619	12	53.7	1.41	19.17	.911
1935-36						
October.....	54	14	19.7	.518	.60	.335
November.....	193	19	43.7	1.15	1.28	.743
December.....	50	22	30.8	.811	.94	.524
January.....	500	27	95.3	2.51	2.89	1.62
February.....	415	30	122	3.21	3.46	2.07
March.....	340	43	104	2.74	3.16	1.77
April.....	135	33	53.6	1.41	1.57	.911
May.....	118	25	36.7	.966	1.11	.624
June.....	46	16	24.3	.639	.71	.413
July.....	125	11	27.6	.726	.84	.469
August.....	130	8.8	23.3	.613	.71	.396
September.....	18	8.8	10.3	.271	.30	.175
The year.....	500	8.8	49.1	1.29	17.57	.834

Monthly discharge of Little Patuxent River at Guilford, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	49	11	15.5	0.408	0.47	0.264
November.....	17	10	12.2	.321	.36	.207
December.....	130	11	45.5	1.20	1.38	.776
January.....	235	35	87.8	2.31	2.66	1.49
February.....	511	39	76.1	2.00	2.08	1.29
March.....	87	36	49.3	1.30	1.50	.840
April.....	1,360	31	141	3.71	4.14	2.40
May.....	70	37	48.8	1.28	1.48	.827
June.....	232	24	41.0	1.08	1.20	.698
July.....	159	15	28.7	.755	.87	.488
August.....	202	14	35.6	.937	1.08	.606
September.....	42	14	19.7	.518	.58	.336
The year.....	1,360	10	49.8	1.31	17.80	.847
1937-38						
October.....	1,180	14	80.8	2.13	2.46	1.38
November.....	848	30	72.8	1.92	2.14	1.24
December.....	58	31	38.2	1.01	1.16	.653
January.....	169	29	44.7	1.18	1.36	.763
February.....	244	32	58.5	1.54	1.60	.995
March.....	82	34	47.3	1.24	1.43	.801
April.....	59	26	36.6	.963	1.07	.622
May.....	87	22	30.5	.803	.93	.519
June.....	24	14	17.8	.468	.52	.302
July.....	66	9.3	17.5	.461	.53	.298
August.....	41	7.9	13.9	.366	.42	.237
September.....	47	8.2	13.5	.355	.40	.229
The year.....	1,180	7.9	39.2	1.03	14.02	.666
1938-39						
October.....	22	10	13.0	.342	.39	.221
November.....	26	13	15.7	.413	.46	.267
December.....	95	17	30.2	.795	.92	.514
January.....	491	17	39.0	1.03	1.19	.666
February.....	232	36	75.6	1.99	2.07	1.29
March.....	109	39	57.8	1.52	1.75	.982
April.....	109	37	55.6	1.46	1.63	.944
May.....	53	21	33.4	.979	1.01	.568
June.....	47	14	19.9	.524	.58	.339
July.....	33	11	14.3	.376	.43	.243
August.....	166	7.4	17.2	.453	.52	.293
September.....	43	7.4	10.3	.271	.30	.175
The year.....	491	7.4	31.5	.829	11.25	.536
1939-40						
October.....	223	12	26.8	.705	.81	.456
November.....	53	15	19.3	.508	.57	.328
December.....	29	14	18.1	.476	.55	.308
January.....	209	11	22.6	.595	.69	.385
February.....	314	13	45.8	1.21	1.30	.782
March.....	242	22	47.3	1.24	1.43	.801
April.....	1,540	27	127	3.34	3.73	2.16
May.....	231	31	51.7	1.36	1.57	.879
June.....	51	16	25.4	.668	.75	.432
July.....	59	11	16.9	.445	.51	.288
August.....	87	8.9	15.5	.408	.47	.264
September.....	290	10	24.7	.650	.73	.420
The year.....	1,540	8.9	36.6	.963	13.11	.622
1940-41						
October.....	37	12	14.9	.392	.45	.253
November.....	257	16	47.9	1.26	1.41	.814
December.....	224	24	41.9	1.10	1.27	.711
January.....	121	27	47.0	1.24	1.42	.901
February.....	88	29	43.0	1.13	1.18	.730
March.....	109	25	48.1	1.27	1.46	.821
April.....	276	28	53.4	1.41	1.57	.911
May.....	31	16	22.5	.592	.68	.383
June.....	242	15	35.5	.934	1.04	.604
July.....	94	10	22.3	.587	.68	.379
August.....	32	7.6	11.0	.289	.33	1.87
September.....	11	3.7	5.56	.146	.16	.944
The year.....	276	3.7	32.6	.858	11.65	.555

Monthly discharge of Little Patuxent River at Guilford, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	9.4	3.8	5.90	0.155	0.18	0.100
November.....	20	7.6	9.31	.245	.27	.158
December.....	51	8.0	14.2	.374	.43	.242
January.....	38	8.7	13.8	.363	.42	.235
February.....	149	11	24.3	.639	.67	.413
March.....	184	12	40.9	1.08	1.24	.698
April.....	260	19	50.8	1.34	1.49	.866
May.....	110	14	24.8	.653	.75	.422
June.....	104	10	20.2	.532	.59	.344
July.....	671	9.9	38.1	1.00	1.16	.646
August.....	288	10	40.2	1.06	1.22	.685
September.....	31	8.2	12.0	.316	.35	.204
The year.....	671	3.8	24.6	.647	8.77	.418
1942-43						
October.....	304	11	46.8	1.23	1.42	.795
November.....	64	23	31.5	.829	.93	.536
December.....	430	17	51.8	1.36	1.57	.879
January.....	60	30	37.4	.984	1.13	.636
February.....	231	33	69.6	1.83	1.91	1.18
March.....	214	33	68.7	1.81	2.08	1.17
April.....	182	35	52.4	1.38	1.54	.892
May.....	593	32	70.5	1.86	2.14	1.20
June.....	56	16	25.8	.679	.76	.439
July.....	27	11	15.2	.400	.46	.259
August.....	10	6.0	7.87	.207	.24	.134
September.....	12	5.6	7.09	.187	.21	.121
The year.....	593	5.6	40.3	1.06	14.39	.685

Yearly discharge of Little Patuxent River at Guilford, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1933.....	56.3	1.48	20.09	0.957	52.7	1.39	18.83	0.898
1934.....	42.7	1.12	15.29	.724	45.7	1.20	16.36	.776
1935.....	53.7	1.41	19.17	.911	51.2	1.35	18.29	.873
1936.....	49.1	1.29	17.57	.834	47.4	1.25	16.96	.808
1937.....	49.8	1.31	17.90	.847	59.7	1.57	21.35	1.01
1938.....	39.2	1.03	14.02	.666	28.1	.739	10.03	.478
1939.....	31.5	.829	11.25	.536	32.0	.842	11.41	.544
1940.....	36.6	.963	13.11	.622	40.0	1.05	14.31	.679
1941.....	32.6	.858	11.65	.555	26.3	.692	9.40	.447
1942.....	24.6	.647	8.77	.418	33.1	.871	11.81	.563
1943.....	40.3	1.06	14.39	.685	-	-	-	-
Highest....	56.3	1.48	20.09	.957	59.7	1.57	21.35	1.01
Average....	41.5	1.09	14.83	.704	41.6	1.09	14.88	.704
Lowest....	24.6	.647	8.77	.418	26.3	.692	9.40	.447

Little Patuxent River at Savage, Md.

Location.- Water-stage recorder, lat. 39°08'00", long. 76°48'58", 400 feet downstream from highway bridge, half a mile southeast of Savage, Howard County, and 1 mile downstream from Middle Patuxent River.

Drainage area.- 98.4 square miles.

Records available.- November 1939 to September 1943.

Extremes.- Maximum discharge, 3,040 second-feet May 12, 1943 (gauge height, 8.58 feet); minimum daily, 7.0 second-feet (regulated) Sept. 19, 1943.

Maximum stage known, about 17 feet in August 1933, from information by local residents.

Remarks.- Regulation caused by power plant of Savage Manufacturing Company 1 mile above station.

Monthly discharge of Little Patuxent River at Savage, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
December.....	89	35	43.5	0.442	0.51	0.286
January.....	462	27	56.7	.576	.66	.372
February.....	727	33	118	1.20	1.29	.776
March.....	602	66	127	1.29	1.49	.834
April.....	1,740	55	234	2.38	2.66	1.54
May.....	439	79	122	1.24	1.43	.801
June.....	168	41	65.2	.663	.74	.429
July.....	166	31	46.0	.498	.56	.315
August.....	257	9.1	43.2	.439	.51	.284
September.....	685	22	60.7	.617	.69	.399
The year.....						
1940-41						
October.....	70	25	36.4	.370	.43	.239
November.....	666	38	117	1.19	1.33	.769
December.....	324	52	97.7	.993	1.14	.642
January.....	308	59	116	1.18	1.36	.763
February.....	212	76	109	1.11	1.16	.717
March.....	268	64	117	1.19	1.37	.769
April.....	584	67	124	1.26	1.40	.814
May.....	81	34	50.1	.509	.59	.329
June.....	309	32	65.0	.661	.74	.427
July.....	221	22	54.3	.552	.64	.357
August.....	114	13	28.3	.288	.33	.186
September.....	26	9.4	15.7	.160	.18	.103
The year.....	666	9.4	77.3	.786	10.67	.508
1941-42						
October.....	24	9.0	14.7	.149	.17	.096
November.....	45	14	22.5	.229	.25	.148
December.....	141	17	35.8	.364	.42	.235
January.....	96	21	34.0	.346	.40	.224
February.....	266	30	57.7	.586	.61	.379
March.....	381	35	87.8	.892	1.03	.577
April.....	512	52	121	1.23	1.37	.795
May.....	270	41	65.2	.663	.76	.429
June.....	657	26	76.0	.772	.86	.499
July.....	784	19	71.3	.725	.83	.469
August.....	507	24	95.2	.967	1.12	.625
September.....	104	14	31.2	.317	.35	.205
The year.....	784	9.0	59.3	.603	8.17	.390
1942-43						
October.....	940	23	133	1.35	1.56	.873
November.....	180	60	77.5	.788	.88	.509
December.....	885	46	122	1.24	1.43	.801
January.....	156	74	94.9	.964	1.11	.623
February.....	448	85	162	1.65	1.72	1.07
March.....	364	80	163	1.66	1.91	1.07
April.....	359	90	127	1.29	1.44	.834
May.....	1,220	84	162	1.65	1.89	1.07
June.....	121	45	70.0	.711	.79	.460
July.....	82	26	41.9	.426	.49	.275
August.....	26	7.8	19.0	.193	.22	.125
September.....	37	7.0	16.9	.172	.19	.111
The year.....	1,220	7.0	98.8	1.00	13.63	.646

Yearly discharge of Little Patuxent River at Savaga, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1940.....	-	-	-	-	93.4	0.949	12.93	0.613
1941.....	77.3	0.786	10.67	0.508	62.4	.634	8.61	.410
1942.....	59.3	.603	8.17	.390	81.2	.825	11.20	.533
1943.....	98.8	1.00	13.63	.646	-	-	-	-

POTOMAC RIVER BASIN

North Branch Potomac River at Bloomington, Md.

Location.- Water-stage recorder, lat. 39°28'48", long. 79°04'08", at highway bridge at Bloomington, Garrett County, and 600 feet upstream from Savage River. Datum of gage is 951.98 feet above mean sea level, adjustment of 1912. Prior to September 1929, chain gage at same site and datum.

Drainage area.- 287 square miles.

Records available.- October 1924 to September 1927, July 1929 to September 1943.

Extremes.- Maximum discharge, 22,500 second-feet Mar. 17, 1936, Oct. 28, 1937 (gage height, 14.85 feet), by slope-area determination; minimum, 5.4 second-feet Sept. 22, 1932 (gage height, 1.81 feet).

Maximum stage known, 20.3 feet, from floodmark on left bank, or about 17 feet (revised) on right bank, at gage Mar. 29, 1924 (discharge, 29,000 second-feet, from rating curve extended above slope-area determination of 22,500 second-feet).

Remarks.- Some regulation at low stages by Stony River Reservoir (capacity, 1,982,000,000 gallons) about 45 miles above station. Yearly figures published as they are not appreciably affected by change in storage. Records of change in storage in Stony River Reservoir can be obtained from West Virginia Pulp & Paper Co., Luke, Md.

Monthly discharge of North Branch Potomac River at Bloomington, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1924-25						
November.....	484	30	102			
December.....	806	66	334			
January.....	2,340	84	389			
February.....	2,780	330	1,010			
March.....	1,420	312	530			
April.....	1,590	183	516			
May.....	2,240	180	704			
June.....	696	41	188			
July.....	548	56	119			
August.....	312	41	90			
September.....	104	40	61.3			
1925-26						
October.....	3,640	46	530			
November.....	4,560	315	830			
December.....	806	-	328			
January.....	3,770	-	694			
February.....	4,030	282	1,153			
March.....	1,760	350	939			
April.....	3,020	236	809			
May.....	236	80	148			
June.....	352	70	142			
July.....	864	37	129			
August.....	4,700	34	912			
September.....	1,340	121	379			
The year.....	4,700	34	579	2.02	27.36	1.31

Monthly discharge of North Branch Potomac River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1926-27						
October.....	1,670	192	504			
November.....	1,850	267	659			
December.....	3,140	332	1,010			
January.....	4,160	-	936			
February.....	3,270	545	1,280			
March.....	2,450	453	860			
April.....	4,290	476	1,070			
May.....	2,340	332	721			
June.....	1,670	192	566			
July.....	315	44	106			
August.....	924	53	191			
September.....	162	50	70.6			
The year.....	4,290	44	661	2.30	31.24	1.49
1929						
July 6-31.....	368	50	92.0			
August.....	155	39	65.3			
September.....	269	-	53.7			
1929-30						
October.....	-	-	475			
November.....	3,220	-	630			
December.....	1,570	-	568			
January.....	859	-	342			
February.....	1,100	130	512			
March.....	2,250	372	743			
April.....	1,170	257	561			
May.....	405	82	200			
June.....	1,040	48	170			
July.....	168	36	58.5			
August.....	81	34	45.2			
September.....	68	21	38.7			
The year.....	-	21	361	1.26	17.07	.814
1930-31						
October.....	35	17	23.5			
November.....	32	12	18.8			
December.....	309	17	81.6			
January.....	1,570	-	253			
February.....	1,500	-	488			
March.....	2,400	200	615			
April.....	2,770	341	1,080			
May.....	4,300	435	1,240			
June.....	827	72	309			
July.....	753	28	106			
August.....	580	32	120			
September.....	1,300	29	211			
The year.....	4,300	12	378	1.32	17.88	.853
1931-32						
October.....	206	56	100			
November.....	186	59	91.0			
December.....	2,170	113	581			
January.....	2,040	229	644			
February.....	6,380	226	922			
March.....	4,100	200	1,070			
April.....	3,950	269	786			
May.....	6,840	138	1,030			
June.....	1,330	58	210			
July.....	1,960	52	252			
August.....	413	36	108			
September.....	77	5.4	38.4			
The year.....	6,840	5.4	486	1.69	23.04	1.09

Monthly discharge of North Branch Potomac River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	1,570	16	182			
November.....	1,780	99	375			
December.....	950	71	276			
January.....	785	266	411			
February.....	2,070	467	830			
March.....	5,700	375	1,510			
April.....	4,740	530	1,400			
May.....	2,750	292	1,130			
June.....	524	44	160			
July.....	650	32	104			
August.....	5,730	38	418			
September.....	1,580	142	395			
The year.....	5,730	16	597	2.08	28.27	1.34
1933-34						
October.....	229	51	99.2			
November.....	695	75	280			
December.....	1,930	140	565			
January.....	4,730	300	939			
February.....	400	120	217			
March.....	3,470	120	938			
April.....	1,640	263	698			
May.....	272	108	164			
June.....	488	33	99.3			
July.....	339	22	85.3			
August.....	1,560	52	184			
September.....	1,060	39	148			
The year.....	4,730	22	370	1.29	17.49	.834
1934-35						
October.....	462	74	129			
November.....	1,260	115	313			
December.....	1,470	220	498			
January.....	4,760	296	1,022			
February.....	2,160	214	792			
March.....	2,440	436	839			
April.....	3,220	328	1,030			
May.....	3,220	253	791			
June.....	1,220	138	360			
July.....	815	70	202			
August.....	747	66	224			
September.....	2,900	67	445			
The year.....	4,760	66	552	1.92	26.11	1.24
1935-36						
October.....	303	58	94.9			
November.....	853	90	264			
December.....	1,490	121	451			
January.....	2,640	220	910			
February.....	5,000	210	861			
March.....	12,700	1,120	2,771			
April.....	4,010	259	1,028			
May.....	359	86	192			
June.....	249	23	75.5			
July.....	626	27	107			
August.....	480	29	69.0			
September.....	76	28	40.7			
The year.....	12,700	23	573	2.00	27.18	1.29
1936-37						
October.....	2,020	33	229			
November.....	674	77	186			
December.....	2,380	59	551			
January.....	5,220	750	1,877			
February.....	3,200	431	953			
March.....	4,450	400	902			
April.....	9,540	320	1,052			
May.....	1,770	254	585			
June.....	551	152	303			
July.....	224	32	84.4			
August.....	2,030	33	231			
September.....	440	48	123			
The year.....	9,540	32	589	2.05	27.85	1.32

Monthly discharge of North Branch Potomac River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	17,900	56	1,350			
November.....	1,160	165	428			
December.....	2,720	150	603			
January.....	549	150	374			
February.....	1,390	346	578			
March.....	2,240	310	805			
April.....	900	354	610			
May.....	3,430	197	1,007			
June.....	846	149	378			
July.....	2,510	56	359			
August.....	456	36	143			
September.....	144	34	68.5			
The year.....	17,900	34	561	1.95	26.50	1.26
1938-39						
October.....	65	35	41.1			
November.....	520	36	98.9			
December.....	673	121	277			
January.....	2,250	165	432			
February.....	5,530	596	1,771			
March.....	2,560	286	892			
April.....	3,800	457	1,033			
May.....	890	81	271			
June.....	1,970	80	491			
July.....	2,060	119	526			
August.....	600	60	178			
September.....	182	51	74.5			
The year.....	5,530	35	498	1.74	23.52	1.12
1939-40						
October.....	446	59	131			
November.....	457	76	152			
December.....	478	86	213			
January.....	270	90	125			
February.....	3,000	91	569			
March.....	2,970	303	972			
April.....	4,710	563	1,519			
May.....	4,040	223	559			
June.....	1,950	192	538			
July.....	1,770	62	299			
August.....	1,940	31	257			
September.....	1,250	78	308			
The year.....	4,710	31	468	1.63	22.17	1.05
1940-41						
October.....	345	96	132			
November.....	980	186	334			
December.....	945	321	551			
January.....	1,390	250	521			
February.....	600	200	280			
March.....	1,610	170	708			
April.....	2,370	156	644			
May.....	1,070	107	237			
June.....	3,660	111	624			
July.....	3,730	93	731			
August.....	1,540	54	261			
September.....	530	58	124			
The year.....	3,730	54	430	1.50	20.34	.969
1941-42						
October.....	150	58	75.4			
November.....	580	62	155			
December.....	1,520	72	287			
January.....	700	95	270			
February.....	1,870	180	532			
March.....	3,110	190	999			
April.....	4,540	212	910			
May.....	3,830	183	915			
June.....	408	113	204			
July.....	280	37	103			
August.....	1,780	49	386			
September.....	855	100	249			
The year.....	4,540	37	424	1.48	20.03	.957

Monthly discharge of North Branch Potomac River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	8,220	121	988			
November.....	1,310	216	478			
December.....	4,900	250	1,064			
January.....	3,060	354	989			
February.....	2,780	450	1,074			
March.....	2,520	287	800			
April.....	3,210	228	770			
May.....	837	185	382			
June.....	429	39	119			
July.....	989	46	307			
August.....	1,100	53	190			
September.....	139	36	61.0			
The year.....	8,220	36	601	2.09	28.40	1.35

Yearly discharge of North Branch Potomac River at Bloomington, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1925.....	-	-	-	-	431	1.50	20.66	0.969
1926.....	579	2.02	27.36	1.31	621	2.16	29.36	1.40
1927.....	661	2.30	31.24	1.49	-	-	-	-
1930.....	361	1.26	17.07	.814	231	.805	10.91	.520
1931.....	378	1.32	17.88	.853	433	1.51	20.47	.976
1932.....	486	1.69	23.04	1.09	490	1.71	23.26	1.11
1933.....	597	2.08	28.27	1.34	607	2.11	28.71	1.36
1934.....	370	1.29	17.49	.834	369	1.29	17.50	.834
1935.....	552	1.92	26.11	1.24	541	1.89	25.58	1.22
1936.....	573	2.00	27.18	1.29	586	2.04	27.81	1.32
1937.....	589	2.05	27.85	1.32	708	2.47	33.50	1.60
1938.....	561	1.95	26.50	1.26	395	1.38	18.65	.892
1939.....	498	1.74	23.52	1.12	504	1.76	23.85	1.14
1940.....	468	1.63	22.17	1.05	511	1.78	24.25	1.15
1941.....	430	1.50	20.34	.969	388	1.35	18.36	.873
1942.....	424	1.48	20.03	.957	593	2.07	28.07	1.34
1943.....	601	2.09	28.40	1.35				
Highest....	661	2.30	31.24	1.49	708	2.47	33.50	1.60
Average....	508	1.77	24.03	1.14	494	1.72	23.40	1.11
Lowest....	361	1.26	17.07	.814	231	.805	10.91	.520

North Branch Potomac River at Piedmont, W. Va.

Location.- Chain gage, lat. 39°28'41", long. 79°03'16", at highway bridge connecting Luke, Md., with Piedmont, Mineral County, 1.6 miles downstream from Savage River.

Drainage area.- 410 square miles.

Records available.- June 1899 to July 1905.

Extremes.- Maximum daily discharge, 13,400 second-feet, Feb. 28, 1902; minimum daily, 6 second-feet (regulated), Sept. 4, 1904.

Remarks.- Some regulation at low stages by West Virginia Pulp & Paper Co.

Monthly discharge of North Branch Potomac River at Piedmont, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1899						
June 27-30.....	595	292	387	0.944	0.14	0.610
July.....	418	95	209	.510	.59	.330
August.....	350	50	119	.290	.33	.187
September.....	540	67	157	.383	.43	.248
1899-1900						
October.....	105	67	88.4	.216	.25	.140
November.....	840	105	275	.671	.75	.434
December.....	2,130	140	421	1.03	1.19	.666
January.....	2,970	240	838	2.04	2.35	1.32
February.....	3,130	350	1,032	2.52	2.62	1.63
March.....	3,210	622	1,306	3.19	3.68	2.06
April.....	1,660	465	821	2.00	2.23	1.29
May.....	875	240	392	.956	1.10	.618
June.....	6,220	240	802	1.96	2.19	1.27
July.....	1,250	116	308	.751	.87	.485
August.....	350	67	136	.332	.38	.215
September.....	240	34	53.6	.131	.15	.085
The year.....	6,220	34	536	1.31	17.76	.947
1900-1						
October.....	440	67	143	.349	.40	.226
November.....	7,090	81	579	1.41	1.57	.911
December.....	2,970	310	692	1.69	1.95	1.09
January.....	2,900	310	705	1.72	1.98	1.11
February.....	650	292	407	.993	1.03	.642
March.....	4,910	292	1,387	3.38	3.90	2.18
April.....	6,330	680	2,234	5.45	6.08	3.52
May.....	6,220	490	1,681	4.10	4.73	2.65
June.....	1,830	395	925	2.26	2.52	1.46
July.....	2,260	153	490	1.20	1.38	.776
August.....	1,830	128	409	1.00	1.15	.646
September.....	359	57	149	.363	.40	.235
The year.....	7,090	57	818	2.00	27.09	1.29
1901-2						
October.....	138	40	63.5	.155	.18	.100
November.....	277	28	73.6	.179	.20	.116
December.....	7,540	125	1,472	3.59	4.14	2.32
January.....	2,900	242	644	1.57	1.81	1.01
February.....	13,400	210	1,082	2.64	2.75	1.71
March.....	7,430	990	2,578	6.29	7.25	4.07
April.....	5,200	542	1,980	4.83	5.39	3.12
May.....	945	242	483	1.18	1.36	.763
June.....	406	100	215	.524	.58	.339
July.....	1,600	77	265	.646	.74	.418
August.....	226	20	85.8	.209	.24	.135
September.....	166	20	40.9	.100	.11	.065
The year.....	13,400	20	748	1.82	24.75	1.18
1902-3						
October.....	635	100	213	.520	.60	.336
November.....	2,460	100	288	.702	.78	.454
December.....	6,330	484	1,764	4.30	4.96	2.78
January.....	5,700	359	1,292	3.15	3.63	2.04
February.....	9,070	635	2,223	5.42	5.64	3.50
March.....	4,530	571	1,662	4.05	4.67	2.62
April.....	3,380	635	1,506	3.67	4.10	2.37
May.....	1,550	210	580	1.41	1.63	.911
June.....	4,440	359	1,292	3.15	3.51	2.04
July.....	2,130	166	570	1.39	1.60	.898
August.....	277	77	163	.388	.46	.257
September.....	210	28	90.5	.221	.25	.143
The year.....	9,070	28	962	2.35	31.83	1.52

Monthly discharge of North Branch Potomac River at Piedmont, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1903-4						
October.....	180	34	103	0.251	0.29	0.162
November.....	603	57	134	.327	.36	.211
December.....	1,280	48	193	.471	.54	.304
January.....	4,720	110	643	1.57	1.81	1.01
February.....	3,630	224	795	1.94	2.09	1.25
March.....	4,340	484	1,433	3.50	4.04	2.26
April.....	2,200	372	937	2.29	2.56	1.48
May.....	3,210	302	792	1.93	2.22	1.25
June.....	786	134	392	.956	1.07	.618
July.....	425	60	160	.390	.45	.252
August.....	99	9	37.0	.090	.10	.058
September.....	30	6	17.1	.042	.05	.027
The year.....	4,720	6	469	1.14	15.58	.737
1904-5						
October.....	68	12	27.6	.067	.08	.043
November.....	51	15	33.5	.082	.09	.053
December.....	1,660	15	243	.593	.68	.363
January.....	3,210	99	360	.878	1.01	.567
February.....	484	99	232	.566	.59	.366
March.....	7,420	282	2,484	6.06	6.99	3.92
April.....	830	161	585	1.43	1.60	.924
May.....	1,910	191	496	1.21	1.40	.782
June.....	1,600	242	588	1.43	1.60	.924
July.....	2,460	161	653	1.59	1.83	1.03
August.....	1,780	88	376	.917	1.06	.593
September.....	1,020	51	195	.476	.53	.308
The year.....	7,420	12	527	1.29	17.46	.834
1905-6						
October.....	1,720	36	348	.849	.98	.549
November.....	1,380	148	267	.651	.73	.421
December.....	2,900	208	615	1.99	2.29	1.29
January.....	7,500	327	1,255	3.06	3.53	1.98
February.....	488	88	220	.537	.56	.347
March.....	5,710	121	1,161	2.83	3.26	1.83
April.....	4,520	700	2,013	4.91	5.48	3.17
May.....	740	109	323	.788	.91	.509
June.....	2,080	160	413	1.01	1.13	.653
July 1-15.....	224	70	120	.293	.16	.189

Yearly discharge of North Branch Potomac River at Piedmont, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1900.....	536	1.31	17.76	0.847	592	1.44	19.49	0.931
1901.....	818	2.00	27.09	1.29	831	2.03	27.69	1.31
1902.....	748	1.82	24.75	1.18	804	1.96	26.57	1.27
1903.....	962	2.35	31.83	1.52	806	1.97	26.68	1.27
1904.....	469	1.14	15.58	.737	459	1.12	15.24	.724
1905.....	527	1.29	17.46	.834	622	1.52	20.61	.982

North Branch Potomac River at Pinto, Md.

Location.- Water-stage recorder, lat. 39°33'57", long. 78°50'22", at Western Maryland Railway bridge at Pinto, Allegany County. Datum of gage is 648.23 feet above mean sea level (Corpe of Engineers, U. S Army, bench mark). Prior to Dec. 10, 1938, wire-weight gage at highway bridge, 250 feet dwnetream, present datum.

Drainage area.- 596 square miles.

Records available.- October 1938 to September 1943.

Extremes.- Maximum discharge, 45,900 second-feet Oct. 16, 1942 (gage height, 22.87 feet), from rating curve extended above 19,000 second-feet; minimum, 46 second-feet Sept. 30, 1943 (gage height, 1.47 feet).

Flood of March 17, 1936 reached a stage of about 23.5 feet, from floodmarks, (discharge, 50,000 second-feet); flood of March 29, 1924 reached a stage of about 24 feet (discharge, 55,000 second-feet).

Remarks.- Some regulation at low stages by Stony River Reservoir (capacity, 1,982,000,000 gallons) about 45 miles above station. Yearly figures published as they are not appreciably affected by change in storage. Records of change in storage in Stony River Reservoir can be obtained from West Virginia Pulp & Paper Co., Luke, Md.

Monthly discharge of North Branch Potomac River at Pinto, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	107	64	76.0			
November.....	380	74	156			
December.....	792	150	327			
January.....	3,760	190	614			
February.....	10,500	850	2,924			
March.....	6,140	485	1,570			
April.....	10,500	880	2,000			
May.....	1,270	187	607			
June.....	3,300	162	735			
July.....	2,590	184	776			
August.....	723	99	252			
September.....	243	68	106			
The year.....	10,500	64	819	1.37	18.63	0.885
1939-40						
October.....	671	93	180			
November.....	585	122	221			
December.....	556	154	290			
January.....	440	140	196			
February.....	4,980	140	1,015			
March.....	5,300	550	1,810			
April.....	10,800	940	3,158			
May.....	8,070	405	992			
June.....	4,360	374	1,068			
July.....	2,500	105	505			
August.....	3,410	63	409			
September.....	2,180	120	509			
The year.....	10,800	63	858	1.44	19.59	.931
1940-41						
October.....	363	134	186			
November.....	1,490	312	551			
December.....	1,780	560	995			
January.....	2,240	428	887			
February.....	1,000	374	519			
March.....	3,030	328	1,303			
April.....	5,780	296	1,272			
May.....	1,650	186	380			
June.....	7,970	190	1,273			
July.....	6,850	170	1,242			
August.....	2,070	89	352			
September.....	490	76	159			
The year.....	7,970	76	761	1.28	17.34	.827
1941-42						
October.....	184	78	99.6			
November.....	774	87	206			
December.....	2,090	114	374			
January.....	1,300	180	429			
February.....	2,440	316	859			
March.....	4,960	332	1,543			
April.....	9,890	369	1,576			
May.....	6,400	308	1,811			
June.....	650	231	397			
July.....	510	64	173			
August.....	2,020	82	497			
September.....	1,340	144	362			
The year.....	9,890	78	693	1.16	15.78	.750

Monthly discharge of North Branch Potomac River at Pinto, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	24,400	181	2,410			
November.....	1,820	369	722			
December.....	11,600	360	1,982			
January.....	5,220	616	1,693			
February.....	6,100	840	1,906			
March.....	4,270	505	1,403			
April.....	7,150	414	1,380			
May.....	1,570	364	732			
June.....	638	85	212			
July.....	1,210	85	371			
August.....	821	74	229			
September.....	159	47	78.2			
The year.....	24,400	47	1,092	1.83	24.88	1.18

Yearly discharge of North Branch Potomac River at Pinto, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	819	1.37	18.63	0.885	832	1.40	18.95	0.905
1940.....	858	1.44	19.59	.931	945	1.59	21.58	1.03
1941.....	761	1.28	17.34	.827	673	1.13	15.33	.730
1942.....	693	1.16	15.78	.750	1,068	1.79	24.33	1.16
1943.....	1,092	1.83	24.88	1.18	-	-	-	-

North Branch Potomac River at Cumberland, Md.

Location.-- Staff gage, lat. 39°38'49", long. 78°45'48", on abutment of Chesapeake & Ohio Canal feeder gate, at Cumberland, Allegany County, 1,000 feet downstream from Mills Creek.

Drainage area.-- 873 square miles.

Records available.-- June 1894 to November 1897.

Extremes.-- Maximum daily discharge, 24,100 second-feet Feb. 22, 1897. No flow at times when all water is diverted into Chesapeake & Ohio.

Remarks.-- Records do not include flow in Chesapeake & Ohio Canal which divert water at the gage. No record of canal flow.

Monthly discharge of North Branch Potomac River at Cumberland, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1894						
June 11-30.....	990	350	632			
July.....	235	0	56.5			
August.....	350	0	77.5			
September.....	480	0	63.8			

Monthly discharge of North Branch Potomac River at Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1894-95						
October.....	235	0	47.0			
November.....	990	0	323			
December.....	4,000	135	547			
January.....	7,900	235	1,669			
February.....	4,860	630	1,099			
March.....	7,900	1,420	3,094			
April.....	6,660	480	1,810			
May.....	1,650	350	853			
June.....	630	50	267			
July.....	1,420	7	348			
August.....	50	0	2.5			
September.....	0	0	0			
The year.....	7,900	0	839			
1895-96						
October.....	0	0	0			
November.....	0	0	0			
December.....	480	0	71.3			
January.....	2,640	135	357			
February.....	4,570	350	1,426			
March.....	14,600	235	2,024			
April.....	4,860	630	1,709			
May.....	3,440	135	1,275			
June.....	2,380	480	927			
July.....	22,100	135	2,224			
August.....	1,650	50	568			
September.....	22,100	0	916			
The year.....	22,100	0	956			
1896-97						
October.....	6,350	135	820			
November.....	6,350	350	1,073			
December.....	1,420	350	627			
January.....	2,130	480	801			
February.....	24,100	800	3,770			
March.....	7,900	1,200	2,704			
April.....	6,050	135	1,554			
May.....	12,800	135	2,156			
June.....	235	0	103			
July.....	480	0	132			
August.....	990	0	215			
September.....	480	0	55.6			
The year.....	24,100	0	1,151			
1897						
October.....	7	0	.45			
November 1-20.....	2,130	50	572			

Yearly discharge of North Branch Potomac River at Cumberland, Md.

Year	Year ending Sept. 30			Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile		Mean	Per square mile		
1895.....	839			768			
1896.....	956			1,162			
1897.....	1,151						

North Branch Potomac River near Cumberland, Md.

Location.- Water-stage recorder, lat. 39°37'16", long. 78°46'24", at Wileys Ford Bridge, 2 miles south of Cumberland, Allegany County, and 2.1 miles downstream from Wills Creek. Datum of gage is 585.22 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark). Prior to June 18, 1929 chain gage at same site and datum.

Drainage area.- 875 square miles.

Records available.- May 1929 to September 1943.

Extremes.- Maximum discharge, 88,200 second-feet Mar. 17, 1936 (gage height 29.1 feet), by slope-area determination; minimum (river only), 12 second-feet Sept. 22, 1932; minimum daily (including flow in canal), 38 second-feet Sept. 24, 1932.

Maximum stage known, 29.2 feet June 1, 1899 (discharge, about 89,000 second-feet).
Remarks.- Records do not include flow past gage in Chesapeake & Ohio Canal (see page 117), but prior to Nov. 15, 1935 do include small amount of sewage and industrial wastes from Cumberland which obtains its water from Ewitts Creek, mouth of which is below station. Flow in Chesapeake & Ohio Canal negligible after September 1934. Some regulation at low stages by Stony River Reservoir. Records of change in storage can be obtained from West Virginia Pulp & Paper Co., Luke, Md. Information regarding the amount of inflow from sewage may be obtained from Office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of North Branch Potomac River near Cumberland, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929						
May 24-31.....	5,010	980	2,140			
June.....	2,680	216	838			
July.....	611	101	218			
August.....	276	73	128			
September.....	-	41	117			
1929-30						
October.....	-	70	1,130			
November.....	5,010	584	1,400			
December.....	4,730	-	1,440			
January.....	1,910	-	822			
February.....	-	-	1,050			
March.....	2,550	770	1,520			
April.....	2,370	695	1,240			
May.....	962	169	460			
June.....	2,060	120	341			
July.....	148	45	89.7			
August.....	123	28	57.7			
September.....	88	32	51.1			
The year.....	-	28	799			
1930-31						
October.....	39	23	28.9			
November.....	54	38	44.8			
December.....	356	44	134			
January.....	2,190	90	406			
February.....	2,930	229	637			
March.....	5,150	430	1,380			
April.....	6,190	716	2,500			
May.....	11,000	850	3,290			
June.....	1,700	180	637			
July.....	1,700	78	376			
August.....	1,010	70	280			
September.....	2,040	60	311			
The year.....	11,000	23	852			
1931-32						
October.....	381	86	154			
November.....	204	90	125			
December.....	3,470	180	955			
January.....	4,430	473	1,310			
February.....	11,300	511	1,830			
March.....	8,930	420	2,410			
April.....	12,000	578	2,160			
May.....	18,400	420	2,860			
June.....	1,530	152	394			
July.....	1,790	73	346			
August.....	398	59	122			
September.....	85	13	40.3			
The year.....	18,400	13	1,060			

Monthly discharge of North Branch Potomac River near Cumberland, Md.--Continued

Month	Discharge in second-foot				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	2,170	32	339			
November.....	4,710	256	1,130			
December.....	2,200	157	680			
January.....	3,600	613	1,200			
February.....	3,140	1,150	1,670			
March.....	17,300	895	4,060			
April.....	15,700	1,430	4,060			
May.....	9,160	842	3,080			
June.....	958	125	386			
July.....	922	81	191			
August.....	3,920	68	461			
September.....	2,510	180	563			
The year.....	17,300	32	1,480			
1933-34						
October.....	300	79	140			
November.....	800	96	344			
December.....	4,290	188	929			
January.....	11,000	574	2,130			
February.....	859	184	393			
March.....	4,990	200	1,660			
April.....	6,040	581	1,810			
May.....	530	255	374			
June.....	2,270	135	347			
July.....	588	79	171			
August.....	3,870	122	392			
September.....	3,080	94	402			
The year.....	11,000	79	760			
1934-35						
October.....	1,600	172	350	0.400	0.46	0.259
November.....	3,230	227	714	.816	.91	.527
December.....	3,890	462	1,237	1.41	1.63	.911
January.....	10,600	799	2,403	2.75	3.17	1.78
February.....	7,910	735	2,287	2.61	2.72	1.69
March.....	3,750	1,180	2,103	2.40	2.77	1.55
April.....	7,100	791	2,335	2.67	2.98	1.73
May.....	6,700	621	2,184	2.50	2.88	1.62
June.....	1,400	340	686	.784	.87	.507
July.....	1,190	188	456	.521	.60	.337
August.....	1,970	188	616	.704	.81	.455
September.....	7,350	189	966	1.10	1.23	.711
The year.....	10,600	172	1,356	1.55	21.03	1.00
1935-36						
October.....	437	150	210	.240	.28	.155
November.....	1,750	200	652	.631	.70	.408
December.....	3,620	243	999	1.14	1.32	.737
January.....	6,940	521	2,036	2.33	2.68	1.51
February.....	15,300	501	2,340	2.67	2.88	1.73
March.....	47,400	2,980	8,763	10.01	11.55	6.47
April.....	9,100	700	2,633	3.01	3.36	1.95
May.....	764	242	489	.559	.64	.361
June.....	1,110	104	285	.326	.36	.211
July.....	1,310	52	210	.240	.28	.155
August.....	623	111	184	.210	.24	.136
September.....	175	70	98.4	.112	.13	.072
The year.....	47,400	52	1,570	1.79	24.42	1.16
1936-37						
October.....	4,720	89	535	.611	.70	.395
November.....	2,800	182	511	.584	.65	.377
December.....	3,750	145	1,393	1.59	1.84	1.03
January.....	15,300	2,070	5,115	5.85	6.74	3.78
February.....	6,140	1,110	2,243	2.56	2.67	1.65
March.....	8,250	820	1,916	2.19	2.53	1.42
April.....	41,500	836	3,901	4.46	4.97	2.88
May.....	3,360	700	1,553	1.77	2.05	1.14
June.....	1,020	302	598	.683	.76	.441
July.....	441	109	216	.247	.28	.160
August.....	5,580	91	605	.691	.80	.447
September.....	1,090	116	335	.393	.45	.248
The year.....	41,500	89	1,574	1.80	24.42	1.16

Monthly discharge of North Branch Potomac River near Cumarland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mila
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	36,800	124	3,111	3.56	4.10	2.30
November.....	2,920	435	1,026	1.17	1.31	.756
December.....	5,610	284	1,249	1.43	1.65	.924
January.....	3,370	435	1,050	1.20	1.38	.776
February.....	3,490	788	1,410	1.61	1.68	1.04
March.....	6,000	716	1,910	2.18	2.52	1.41
April.....	2,120	740	1,345	1.54	1.71	.995
May.....	6,780	418	1,872	2.14	2.47	1.38
June.....	1,240	345	655	.749	.83	.484
July.....	4,590	151	590	.674	.78	.436
August.....	581	79	233	.266	.31	.172
September.....	216	77	128	.146	.16	.094
The year.....	36,800	77	1,218	1.39	18.90	.898
1938-39						
October.....	116	90	95.9	.110	.13	.071
November.....	530	96	163	.186	.21	.120
December.....	872	136	379	.433	.50	.280
January.....	4,940	221	777	.888	1.02	.574
February.....	14,500	1,190	3,813	4.36	4.54	2.82
March.....	9,080	758	2,387	2.73	3.14	1.76
April.....	12,700	1,340	2,784	3.18	3.55	2.06
May.....	2,340	297	828	.946	1.09	.611
June.....	3,500	266	926	1.06	1.18	.685
July.....	2,980	292	989	1.13	1.30	.730
August.....	992	108	327	.374	.43	.242
September.....	266	101	137	.157	.17	.101
The year.....	14,500	90	1,113	1.27	17.26	.821
1939-40						
October.....	747	116	227	.259	.30	.167
November.....	705	164	298	.341	.38	.220
December.....	674	168	365	.417	.48	.270
January.....	639	182	269	.307	.35	.198
February.....	4,910	197	1,373	1.57	1.69	1.01
March.....	8,130	709	2,702	3.09	3.56	2.00
April.....	14,600	1,340	4,379	5.00	5.58	3.23
May.....	8,260	548	1,287	1.47	1.70	.950
June.....	6,540	512	1,477	1.69	1.88	1.09
July.....	2,980	168	591	.675	.78	.436
August.....	4,420	101	556	.635	.73	.410
September.....	2,920	164	652	.745	.83	.482
The year.....	14,600	101	1,175	1.34	18.26	.866
1940-41						
October.....	406	186	249	.285	.33	.184
Novambar.....	2,080	454	771	.881	.98	.569
Dacambar.....	2,720	826	1,559	1.78	2.05	1.15
January.....	2,840	558	1,207	1.38	1.59	.892
February.....	1,530	540	770	.880	.92	.569
March.....	4,470	492	1,928	2.20	2.54	1.42
April.....	8,990	462	1,985	2.27	2.53	1.47
May.....	1,880	305	512	.585	.67	.378
June.....	13,800	320	1,993	2.28	2.54	1.47
July.....	7,810	268	1,426	1.63	1.88	1.05
August.....	1,950	142	434	.496	.57	.321
Septambar.....	618	114	203	.232	.26	.150
The year.....	13,800	114	1,087	1.24	16.86	.801
1941-42						
October.....	186	103	133	.152	.18	.098
November.....	768	125	251	.287	.32	.185
December.....	3,200	142	513	.586	.68	.379
January.....	1,520	270	562	.642	.74	.415
February.....	3,610	385	1,212	1.39	1.44	.898
March.....	7,770	468	2,336	2.67	3.08	1.73
April.....	14,200	540	2,381	2.72	3.04	1.76
May.....	9,160	462	2,526	2.89	3.33	1.87
June.....	1,080	340	591	.675	.75	.436
July.....	700	142	266	.304	.35	.196
August.....	2,200	154	624	.713	.82	.461
September.....	1,730	203	450	.514	.57	.332
The year.....	14,200	103	986	1.13	15.30	.730

Monthly discharge of North Branch Potomac River near Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	37,600	242	3,791	4.33	4.99	2.80
November.....	2,340	539	984	1.12	1.25	.724
December.....	19,200	491	2,863	3.27	3.77	2.11
January.....	7,810	889	2,509	2.87	3.31	1.85
February.....	8,580	1,300	2,832	3.24	3.37	2.09
March.....	6,390	743	2,159	2.47	2.84	1.60
April.....	12,400	610	2,227	2.55	2.84	1.65
May.....	2,880	624	1,282	1.47	1.69	.950
June.....	1,450	146	402	.459	.51	.297
July.....	1,410	140	433	.495	.57	.320
August.....	921	102	260	.297	.34	.192
September.....	196	69	108	.123	.14	.080
The year.....	37,600	69	1,652	1.86	25.62	1.22

Yearly discharge of North Branch Potomac River near Cumberland, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	799				483			
1931.....	852				939			
1932.....	1,060				1,134			
1933.....	1,480				1,423			
1934.....	760				834			
1935.....	1,356	1.55	21.03	1.00	1,310	1.50	20.33	
1936.....	1,570	1.79	24.42	1.16	1,627	1.86	25.31	
1937.....	1,574	1.80	24.42	1.16	1,823	2.08	28.29	
1938.....	1,218	1.39	18.90	.898	817	.934	12.68	
1939.....	1,113	1.27	17.26	.821	1,134	1.30	17.58	
1940.....	1,175	1.34	18.26	.866	1,316	1.50	20.46	
1941.....	1,087	1.24	16.86	.801	946	1.08	14.68	
1942.....	986	1.13	15.30	.730	1,556	1.78	24.13	
1943.....	1,652	1.89	25.62	1.22	-	-	-	
Highest.....	1,652				1,823			
Average.....	1,192				1,180			
Lowest.....	760				483			

Potomac River at Paw Paw, W. Va.

Location.- Water-stage recorder, lat 39°32'13", long. 78°27'28", on Maryland side of river, 250 feet upstream from highway bridge at Paw Paw, Morgan County, and 3.3 miles downstream from Little Cacapon River. Datum of gage is 487.88 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark). Prior to Mar. 25, 1939 wire-weight gage on highway bridge at same datum.

Drainage area.- 3,109 square miles.

Records available.- October 1938 to September 1943.

Extremes.- Maximum discharge, 111,000 second-feet Oct. 16, 1942 (gage height, 38.36 feet); minimum, 238 second-feet Oct. 13, 1941 (gage height 3.05 feet).

Maximum stage known, 54.0 feet Mar. 18, 1936 (discharge, 240,000 second-feet).

Monthly discharge of Potomac River at Paw Paw, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	353	271	302	0.097	0.11	0.063
November.....	860	310	491	.158	.18	.102
December.....	5,490	565	1,602	.515	.59	.333
January.....	27,200	755	2,923	.940	1.08	.608
February.....	58,200	3,180	11,440	3.68	3.83	2.38
March.....	26,400	2,260	6,585	2.12	2.44	1.37
April.....	35,300	3,010	6,956	2.24	2.50	1.45
May.....	5,090	1,390	2,404	.773	.89	.500
June.....	4,980	804	1,857	.597	.67	.398
July.....	11,400	642	3,068	.987	1.14	.636
August.....	5,040	504	1,300	.418	.48	.270
September.....	746	274	416	.134	.15	.087
The year.....	58,200	271	3,221	1.04	14.06	.672
1939-40						
October.....	2,560	346	713	.229	.26	.148
November.....	1,760	521	837	.285	.32	.184
December.....	1,570	533	858	.270	.31	.175
January.....	1,900	520	805	.259	.30	.167
February.....	11,600	600	3,740	1.20	1.29	.776
March.....	15,600	2,570	5,545	1.78	2.05	1.15
April.....	39,500	4,180	10,930	3.52	3.93	2.28
May.....	17,600	1,480	3,560	1.08	1.24	.698
June.....	37,600	1,660	6,597	2.12	2.36	1.37
July.....	4,940	533	1,351	.435	.50	.281
August.....	7,460	346	1,430	.460	.53	.297
September.....	4,570	445	1,525	.491	.55	.317
The year.....	39,500	346	3,120	1.00	13.64	.646
1940-41						
October.....	883	434	581	.187	.22	.121
November.....	4,180	890	1,833	.590	.66	.381
December.....	6,500	1,860	3,405	1.10	1.26	.711
January.....	5,760	1,610	3,042	.978	1.13	.632
February.....	2,790	1,290	1,810	.582	.61	.376
March.....	8,400	1,010	4,304	1.38	1.60	.892
April.....	25,400	1,240	4,813	1.55	1.73	1.00
May.....	2,520	631	1,074	.345	.40	.223
June.....	25,700	637	3,456	1.11	1.24	.717
July.....	14,400	619	2,902	.933	1.08	.603
August.....	2,570	295	900	.289	.33	.187
September.....	976	256	486	.156	.17	.101
The year.....	25,700	256	2,386	.767	10.43	.496
1941-42						
October.....	329	241	276	.089	.10	.058
November.....	1,140	295	478	.154	.17	.100
December.....	4,960	375	1,055	.339	.39	.219
January.....	2,890	800	1,291	.415	.48	.268
February.....	6,520	950	2,472	.795	.83	.514
March.....	17,300	1,060	5,252	1.69	1.95	1.09
April.....	19,800	1,300	4,805	1.55	1.72	1.00
May.....	47,300	1,100	7,166	2.30	2.66	1.49
June.....	3,850	1,020	2,060	.663	.74	.428
July.....	1,140	362	603	.194	.22	.125
August.....	6,580	401	2,612	.840	.97	.543
September.....	2,720	578	1,090	.351	.39	.227
The year.....	47,300	241	2,433	.783	10.62	.506
1942-43						
October.....	104,000	602	8,962	2.88	3.32	1.86
November.....	4,900	1,250	2,317	.745	.83	.482
December.....	47,200	1,220	7,079	2.28	2.63	1.47
January.....	20,000	2,340	6,230	2.00	2.31	1.29
February.....	26,400	3,250	8,080	2.60	2.71	1.68
March.....	17,200	1,950	6,604	2.12	2.45	1.37
April.....	26,600	1,820	5,594	1.80	2.01	1.16
May.....	7,500	1,820	3,627	1.17	1.35	.756
June.....	3,370	590	1,329	.427	.48	.276
July.....	5,330	523	1,673	.538	.62	.348
August.....	1,380	341	596	.192	.22	.124
September.....	492	244	308	.099	.11	.064
The year.....	104,000	244	4,358	1.40	19.04	.905

Yearly discharge of Potomac River at Paw Paw, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	3,221	1.04	14.06	0.672	3,223	1.04	14.07	0.672
1940.....	3,120	1.00	13.64	.646	3,404	1.09	14.89	.704
1941.....	2,886	.767	10.43	.496	2,049	.659	8.95	.426
1942.....	2,453	.783	10.62	.506	3,834	1.23	16.74	.795
1943.....	4,358	1.40	19.04	.905	-	-	-	-

Potomac River at Hancock, Md.

Location.- Water-stage recorder, lat. 39°41'49", long. 78°10'39", at Hancock, Washington County, 1.1 miles upstream from Great Tonoloway Creek. Datum of gage is 363.46 feet above mean sea level, adjustment of 1912. Prior to Jan. 5, 1935 and from Mar. 22, 1936 to Jan. 21, 1937 wire-weight or chain gage, present site and datum.

Drainage area.- 4,073 square miles.

Records available.- October 1932 to September 1943.

Extremes.- Maximum discharge, 340,000 second-feet Mar. 18, 1936 (gage height, 47.6 feet), by slope-area determination; minimum observed, 180 second-feet Oct. 4, 1932 (gage height, 2.01 feet).

Maximum stage known prior to 1932, about 40 feet in May 1889 (discharge about 220,000 second-feet).

Remarks.- Slight regulation at low stages from power plants above station.

Monthly discharge of Potomac River at Hancock, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	11,000	184	1,530	0.376	0.43	0.243
November.....	19,300	1,320	4,880	1.20	1.34	.776
December.....	9,730	700	2,350	.577	.67	.373
January.....	23,300	1,710	4,740	1.16	1.34	.750
February.....	7,050	3,380	4,770	1.17	1.22	.756
March.....	33,300	2,620	11,100	2.73	3.15	1.76
April.....	54,000	4,780	14,100	3.46	3.86	2.24
May.....	25,200	3,540	10,400	2.55	2.94	1.65
June.....	3,710	612	1,520	.373	.42	.241
July.....	4,410	472	1,040	.255	.29	.165
August.....	29,700	612	2,860	.702	.81	.454
September.....	6,610	890	2,390	.587	.65	.379
The year.....	54,000	184	5,130	1.26	17.12	.814
1933-34						
October.....	825	480	610	.150	.17	.097
November.....	1,320	490	825	.203	.23	.131
December.....	6,390	660	1,830	.449	.52	.280
January.....	24,800	1,100	4,920	1.21	1.40	.782
February.....	1,600	700	1,040	.255	.27	.165
March.....	16,700	700	5,310	1.30	1.50	.840
April.....	12,700	1,630	5,060	1.24	1.38	.801
May.....	2,480	1,110	1,530	.376	.43	.243
June.....	4,590	480	1,060	.260	.29	.168
July.....	915	285	460	.113	.13	.073
August.....	5,760	365	894	.219	.25	.142
September.....	7,280	305	1,260	.309	.34	.200
The year.....	24,800	285	2,070	.508	6.91	.328
1934-35						
October.....	4,590	450	1,065	.261	.30	.169
November.....	5,360	515	1,317	.323	.36	.209
December.....	22,700	1,260	4,477	1.10	1.27	.711
January.....	33,700	2,020	6,645	1.63	1.88	1.05
February.....	26,100	3,540	9,072	2.23	2.32	1.44
March.....	16,700	3,540	6,579	1.62	1.87	1.05
April.....	27,700	2,480	10,028	2.46	2.74	1.59
May.....	18,700	2,020	5,966	1.46	1.68	.944
June.....	3,060	1,000	1,730	.425	.47	.275
July.....	2,910	652	1,313	.322	.37	.208
August.....	4,590	620	1,846	.453	.52	.293
September.....	18,000	606	3,019	.741	.83	.479
The year.....	33,700	450	4,388	1.08	14.61	.698

Monthly discharge of Potomac River at Hancock, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1935-36						
October.....	834	450	548	0.135	0.16	0.087
November.....	7,740	599	2,224	.546	.61	.353
December.....	9,470	1,060	2,863	.703	.81	.454
January.....	24,500	1,700	8,597	2.11	2.43	1.56
February.....	51,600	2,100	9,324	2.29	2.47	1.48
March.....	261,000	9,990	32,280	7.93	9.14	5.13
April.....	30,200	2,570	8,916	2.19	2.44	1.42
May.....	2,440	1,060	1,778	.437	.50	.282
June.....	3,920	648	1,203	.295	.33	.191
July.....	2,060	457	915	.225	.26	.145
August.....	1,060	431	627	.154	.18	.100
September.....	610	258	368	.090	.10	.058
The year.....	261,000	258	5,813	1.43	19.43	.924
1936-37						
October.....	15,600	347	1,729	.425	.49	.275
November.....	4,520	627	1,181	.290	.32	.187
December.....	11,400	579	4,476	1.10	1.27	.711
January.....	46,300	6,410	15,460	3.79	4.37	2.45
February.....	24,500	4,070	8,964	2.20	2.29	1.42
March.....	18,200	2,630	5,258	1.29	1.49	.834
April.....	134,000	2,280	13,430	3.30	3.68	2.13
May.....	14,100	2,090	4,730	1.16	1.34	.750
June.....	2,780	1,060	1,666	.409	.46	.264
July.....	1,450	401	800	.196	.23	.127
August.....	31,400	342	3,075	.755	.87	.488
September.....	7,280	533	1,960	.481	.54	.311
The year.....	134,000	342	5,202	1.28	17.35	.827
1937-38						
October.....	115,000	527	10,950	2.69	3.10	1.74
November.....	13,200	1,500	3,700	.908	1.01	.587
December.....	10,400	1,150	2,857	.701	.81	.453
January.....	13,300	1,400	3,126	.767	.86	.496
February.....	7,730	2,280	3,622	.889	.93	.575
March.....	13,600	2,420	4,747	1.17	1.35	.756
April.....	5,780	2,020	3,421	.840	.94	.543
May.....	14,700	1,340	4,991	1.23	1.42	.795
June.....	4,250	1,080	2,267	.557	.62	.360
July.....	9,080	600	1,948	.478	.55	.309
August.....	3,000	374	1,179	.289	.33	.187
September.....	882	342	516	.127	.14	.082
The year.....	115,000	342	3,623	.890	12.08	.575
1938-39						
October.....	435	326	374	.092	.11	.060
November.....	972	368	589	.145	.16	.094
December.....	12,600	662	2,303	.565	.65	.365
January.....	28,900	1,080	3,107	.763	.88	.493
February.....	62,800	3,840	14,270	3.50	3.64	2.26
March.....	31,400	2,640	8,208	2.02	2.33	1.31
April.....	37,800	3,440	8,401	2.06	2.30	1.33
May.....	6,620	1,760	2,961	.727	.84	.470
June.....	5,550	1,010	2,168	.532	.59	.344
July.....	13,800	790	3,465	.851	.98	.550
August.....	7,670	638	1,760	.432	.50	.279
September.....	1,000	336	537	.132	.15	.085
The year.....	62,800	326	3,940	.967	13.13	.625
1939-40						
October.....	4,340	444	1,022	.251	.29	.162
November.....	3,140	766	1,351	.332	.37	.215
December.....	2,240	726	1,094	.269	.31	.174
January.....	2,300	760	1,084	.266	.31	.172
February.....	16,500	800	5,107	1.25	1.35	.808
March.....	18,700	2,990	6,763	1.66	1.91	1.07
April.....	54,200	4,800	14,330	3.52	3.93	2.28
May.....	8,660	1,760	3,573	.877	1.01	.567
June.....	48,300	2,060	8,718	2.14	2.39	1.38
July.....	4,420	766	1,593	.391	.45	.253
August.....	9,880	450	1,699	.417	.48	.270
September.....	6,410	555	1,860	.457	.51	.295
The year.....	54,200	444	3,982	.978	13.31	.632

Monthly discharge of Potomac River at Hancock, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	1,210	562	770	0.189	0.22	0.122
November.....	5,780	911	2,483	.610	.68	.394
December.....	10,000	2,380	4,366	1.07	1.24	.692
January.....	6,620	2,000	3,702	.909	1.05	.588
February.....	3,290	1,540	2,249	.552	.57	.357
March.....	12,200	1,290	5,363	1.32	1.52	.853
April.....	31,400	1,720	6,085	1.49	1.67	.963
May.....	2,710	823	1,544	.330	.58	.213
June.....	28,400	814	4,093	1.00	1.12	.646
July.....	16,700	787	3,711	.911	1.05	.589
August.....	2,780	384	1,039	.255	.29	.165
September.....	1,110	305	601	.148	.16	.096
The year.....	31,400	305	2,986	.733	9.95	.474
1941-42						
October.....	398	248	309	.076	.09	.049
November.....	1,160	349	551	.135	.15	.087
December.....	5,320	478	1,249	.307	.35	.193
January.....	3,570	800	1,580	.390	.45	.252
February.....	7,280	1,200	2,884	.708	.74	.458
March.....	23,300	1,310	6,420	1.58	1.82	1.02
April.....	24,000	1,520	6,067	1.49	1.66	.963
May.....	58,200	1,290	8,605	2.11	2.44	1.33
June.....	5,970	1,310	2,688	.660	.74	.427
July.....	1,310	444	738	.181	.21	.117
August.....	11,000	552	3,874	.828	.96	.535
September.....	3,160	728	1,289	.316	.35	.204
The year.....	58,200	248	2,985	.733	9.96	.474
1942-43						
October.....	140,000	672	13,020	3.20	3.68	2.07
November.....	5,320	1,580	2,896	.711	.79	.460
December.....	62,100	1,700	8,842	2.17	2.50	1.40
January.....	28,500	2,860	7,835	1.92	2.22	1.24
February.....	35,400	4,240	10,500	2.58	2.68	1.67
March.....	21,700	2,440	8,398	2.06	2.38	1.33
April.....	36,600	2,300	7,254	1.78	1.99	1.15
May.....	10,900	2,230	4,716	1.16	1.33	.750
June.....	3,970	736	1,674	.411	.46	.266
July.....	6,280	648	1,774	.436	.50	.282
August.....	1,520	398	691	.170	.20	.110
September.....	608	265	366	.090	.10	.058
The year.....	140,000	265	5,652	1.39	18.83	.898

Yearly discharge of Potomac River at Hancock, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1933.....	5,130	1.26	17.12	0.814	4,678	1.15	15.60	0.743
1934.....	2,070	.508	6.91	.328	2,378	.584	7.92	.377
1935.....	4,388	1.08	14.61	.698	4,281	1.05	14.26	.679
1936.....	5,813	1.43	19.43	.924	5,964	1.46	19.93	.944
1937.....	5,202	1.28	17.35	.827	6,055	1.49	20.19	.963
1938.....	3,623	.890	12.08	.575	2,422	.595	8.08	.365
1939.....	3,940	.967	13.13	.625	3,955	.971	13.18	.628
1940.....	3,982	.978	13.31	.632	4,331	1.06	14.48	.685
1941.....	2,986	.733	9.95	.474	2,524	.620	8.40	.401
1942.....	2,985	.733	9.96	.474	4,902	1.20	16.34	.776
1943.....	5,652	1.39	18.83	.898	-	-	-	-
Highest....	5,813	1.43	19.43	.924	6,055	1.49	20.19	.963
Average....	4,161	1.02	13.88	.659	4,149	1.02	13.84	.659
Lowest....	2,070	.508	6.91	.328	2,378	.584	7.92	.377

Potomac River at Shepherdstown, W. Va.

Location.- Water-stage recorder, lat. 39°26'04", long. 77°48'07", 0.1 mile downstream from Rumsey Bridge at Shepherdstown, Jefferson County, and 3.3 miles upstream from Antietam Creek. Datum of gage is 281.00 feet above mean sea level, adjustment of 1912.

Drainage area.- 5,936 square miles.

Records available.- August 1928 to September 1943.

Extremes.- Maximum discharge, 335,000 second-feet, Mar. 19, 1936 (gage height 42.1 feet, from floodmarks), by slope-area determination; minimum, 231 second-feet (regulated) Aug. 17, 19, 1930; minimum daily, 252 second-feet (regulated) Oct. 2, 1932.

Remarks.-Some regulation at low stages by power plants above station. Records do not include water diverted above station by city of Hagerstown for municipal supply. Records of diversions can be obtained from office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Potomac River at Shepherdstown, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
August 20-31.....	5,900	3,030	3,860	0.650	0.29	0.420
September.....	6,760	1,540	2,590	.436	.49	.282
1928-29						
October.....	2,240	985	1,420	.239	.28	.154
November.....	2,180	1,030	1,350	.227	.25	.147
December.....	7,060	1,500	2,780	.468	.54	.302
January.....	5,800	1,900	3,150	.531	.61	.343
February.....	32,400	-	4,440	.748	.76	.483
March.....	50,300	4,020	14,800	2.49	2.87	1.61
April.....	108,000	3,540	19,000	3.20	3.57	2.07
May.....	22,000	4,390	8,690	1.46	1.68	.944
June.....	11,400	1,580	3,700	.623	.70	.403
July.....	2,950	742	1,470	.248	.29	.160
August.....	1,120	707	879	.148	.17	.096
September.....	1,530	573	866	.151	.17	.098
The year.....	108,000	573	5,210	.878	11.91	.567
1929-30						
October.....	68,400	855	10,000	1.68	1.94	1.09
November.....	38,000	3,400	8,670	1.46	1.63	.944
December.....	11,600	-	5,150	.868	1.00	.561
January.....	9,640	-	4,180	.704	.81	.455
February.....	13,800	2,300	5,480	.923	.96	.597
March.....	16,400	3,870	7,020	1.18	1.36	.763
April.....	9,320	3,400	5,090	.857	.96	.554
May.....	3,280	1,080	2,050	.345	.40	.223
June.....	3,750	821	1,380	.232	.26	.150
July.....	1,130	300	624	.105	.12	.068
August.....	855	300	429	.072	.08	.046
September.....	489	330	378	.064	.07	.041
The year.....	68,400	300	4,200	.708	9.59	.458
1930-31						
October.....	391	307	351	.059	.07	.038
November.....	821	325	395	.067	.07	.043
December.....	959	371	621	.105	.12	.068
January.....	3,280	756	1,290	.217	.25	.140
February.....	4,490	987	2,240	.377	.39	.244
March.....	22,000	1,730	4,390	.738	.85	.477
April.....	23,700	3,060	10,400	1.75	1.95	1.13
May.....	30,400	3,280	11,200	1.89	2.18	1.22
June.....	7,950	1,670	3,660	.617	.69	.399
July.....	9,320	1,210	3,660	.617	.71	.399
August.....	6,760	973	1,950	.325	.37	.210
September.....	2,160	656	1,230	.207	.23	.134
The year.....	30,400	307	3,440	.580	7.88	.375
1931-32						
October.....	1,600	443	731	.123	.14	.080
November.....	737	392	532	.090	.10	.058
December.....	5,630	540	1,860	.313	.36	.202
January.....	9,320	1,320	3,990	.672	.77	.474
February.....	52,700	2,030	7,860	1.32	1.42	.853
March.....	37,400	1,910	10,400	1.75	2.02	1.13
April.....	37,400	3,220	10,200	1.72	1.92	1.11
May.....	96,600	2,880	16,100	2.71	3.12	1.75
June.....	3,840	1,580	2,070	.349	.39	.226
July.....	4,690	672	1,770	.298	.34	.193
August.....	923	445	683	.115	.13	.074
September.....	907	275	450	.076	.08	.049
The year.....	96,600	275	4,710	.793	10.79	.513

Monthly discharge of Potomac River at Shepherdstown, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	13,800	252	2,580	0.435	0.50	0.281
November.....	32,200	2,240	8,580	1.50	1.67	.969
December.....	13,000	1,280	3,670	.618	.71	.399
January.....	36,500	2,920	7,230	1.22	1.41	.768
February.....	9,320	5,360	7,020	1.18	1.23	.763
March.....	47,900	4,180	15,700	2.64	3.04	1.71
April.....	69,600	8,100	20,200	3.40	3.79	2.20
May.....	35,000	5,630	14,200	2.39	2.76	1.54
June.....	6,190	1,190	2,730	.460	.51	.287
July.....	4,060	876	1,620	.273	.31	.176
August.....	37,200	1,170	4,540	.765	.86	.494
September.....	12,300	1,700	3,820	.644	.72	.416
The year.....	69,600	252	7,670	1.29	17.53	.834
1933-34						
October.....	2,360	920	1,420	.239	.28	.154
November.....	1,650	905	1,290	.217	.24	.140
December.....	6,910	764	2,360	.393	.46	.257
January.....	27,600	1,610	6,800	1.15	1.33	.743
February.....	2,450	1,000	1,580	.266	.28	.172
March.....	17,900	1,000	6,530	1.10	1.27	.711
April.....	17,100	3,060	7,550	1.27	1.42	.821
May.....	3,810	1,990	2,670	.450	.52	.291
June.....	5,360	935	1,720	.290	.32	.187
July.....	3,200	392	856	.144	.17	.093
August.....	6,480	597	1,610	.271	.31	.175
September.....	17,100	484	3,070	.517	.58	.334
The year.....	27,600	392	3,130	.527	7.18	.341
1934-35						
October.....	10,600	905	2,258	.380	.44	.246
November.....	5,380	995	1,980	.317	.35	.205
December.....	57,100	2,610	8,565	1.44	1.66	.931
January.....	36,500	3,450	8,627	1.45	1.67	.937
February.....	35,500	4,560	12,770	2.15	2.24	1.39
March.....	19,900	5,770	9,288	1.56	1.80	1.01
April.....	35,500	4,060	13,150	2.22	2.48	1.43
May.....	20,900	3,100	7,828	1.32	1.52	.853
June.....	3,690	1,700	2,465	.415	.46	.268
July.....	3,340	920	1,809	.305	.35	.197
August.....	5,220	965	2,283	.385	.44	.249
September.....	19,100	1,010	3,585	.604	.67	.390
The year.....	57,100	905	6,166	1.04	14.08	.672
1935-36						
October.....	2,260	474	913	.154	.18	.100
November.....	10,900	965	3,276	.552	.62	.357
December.....	11,600	1,750	4,016	.677	.78	.438
January.....	33,200	2,400	11,740	1.98	2.28	1.28
February.....	75,200	3,100	12,730	2.14	2.31	1.38
March.....	287,000	16,000	45,980	7.75	8.94	5.01
April.....	40,000	4,260	13,490	2.27	2.53	1.47
May.....	4,020	1,770	2,923	.492	.57	.318
June.....	5,300	1,240	2,055	.343	.38	.222
July.....	2,980	778	1,441	.243	.28	.157
August.....	2,220	778	1,111	.187	.22	.121
September.....	945	298	624	.105	.12	.068
The year.....	287,000	298	8,372	1.41	19.21	.911
1936-37						
October.....	16,400	552	2,564	.432	.50	.279
November.....	5,160	886	1,681	.283	.32	.183
December.....	13,000	886	6,515	1.10	1.27	.711
January.....	57,700	9,510	20,480	3.45	3.98	2.23
February.....	40,000	6,700	13,510	2.28	2.37	1.47
March.....	20,000	4,260	7,664	1.29	1.49	.834
April.....	194,000	3,600	20,330	3.42	3.92	2.21
May.....	24,600	3,540	7,842	1.32	1.52	.853
June.....	5,700	2,220	3,164	.533	.59	.344
July.....	6,120	684	2,022	.341	.39	.220
August.....	34,700	405	4,060	.684	.79	.442
September.....	8,050	930	2,790	.470	.52	.304
The year.....	194,000	405	7,678	1.29	17.56	.834

Monthly discharge of Potomac River at Shapherdstown, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	128,000	815	14,540	2.45	2.82	1.58
Novambar.....	20,900	2,980	6,398	1.08	1.20	.698
December.....	12,300	1,750	3,947	.665	.77	.430
January.....	14,900	2,180	4,455	.751	.87	.485
February.....	9,630	3,540	5,082	.856	.89	.553
March.....	17,200	3,660	6,838	1.15	1.33	.743
April.....	7,290	3,090	4,781	.805	.90	.520
May.....	19,800	2,080	6,365	1.07	1.23	.692
June.....	5,030	1,710	3,094	.521	.58	.337
July.....	10,900	865	2,579	.434	.50	.281
August.....	3,660	540	1,734	.292	.34	.189
Septambar.....	1,900	594	959	.162	.18	.105
The year.....	128,000	540	5,078	.855	11.61	.553
1938-39						
October.....	886	464	638	.107	.12	.069
Novambar.....	1,510	629	943	.159	.18	.103
Dacambar.....	26,200	1,350	4,276	.720	.83	.465
January.....	23,600	2,000	3,992	.673	.78	.435
February.....	76,300	5,840	19,180	3.23	3.36	2.09
March.....	38,400	4,260	11,620	1.96	2.26	1.27
April.....	52,300	5,560	11,570	1.95	2.18	1.26
May.....	9,310	2,590	4,473	.754	.87	.487
June.....	8,220	1,660	3,352	.565	.63	.365
July.....	13,800	915	4,513	.760	.88	.491
August.....	11,200	937	2,542	.428	.49	.277
September.....	1,660	530	921	.155	.17	.100
The year.....	76,300	464	5,574	.939	12.75	.607
1939-40						
October.....	12,000	752	2,203	.371	.43	.240
November.....	6,260	1,400	2,923	.492	.55	.318
December.....	3,430	1,100	1,704	.287	.33	.185
January.....	3,600	1,100	1,626	.274	.32	.177
February.....	18,000	1,240	7,633	1.29	1.39	.834
March.....	23,000	4,770	9,402	1.58	1.82	1.02
April.....	64,600	8,050	19,430	3.27	3.65	2.11
May.....	12,700	2,870	5,184	.873	1.01	.564
June.....	42,100	3,090	10,830	1.92	2.03	1.18
July.....	4,900	1,350	2,304	.388	.45	.251
August.....	12,000	600	2,292	.386	.44	.249
September.....	9,630	1,000	3,154	.531	.59	.343
The year.....	64,600	600	5,677	.956	13.01	.618
1940-41						
October.....	2,720	959	1,557	.262	.30	.169
November.....	16,400	1,690	5,284	.890	.99	.575
December.....	16,400	3,900	7,110	1.20	1.38	.776
January.....	11,000	3,430	5,908	.995	1.15	.643
February.....	5,840	2,870	3,891	.655	.68	.423
March.....	17,200	2,440	7,715	1.30	1.50	.840
April.....	37,600	2,760	8,604	1.45	1.62	.937
May.....	3,320	1,450	2,115	.356	.41	.230
June.....	33,700	1,610	5,500	.927	1.03	.599
July.....	21,200	1,270	4,632	.780	.90	.504
August.....	3,090	733	1,545	.260	.30	.168
September.....	2,110	448	1,136	.191	.21	.123
The year.....	37,600	448	4,583	.772	10.47	.499
1941-42						
October.....	888	457	617	.104	.12	.067
November.....	1,450	619	962	.162	.18	.105
December.....	9,310	709	2,485	.419	.48	.271
January.....	5,160	1,600	2,597	.437	.50	.282
February.....	12,300	1,800	4,494	.757	.79	.489
March.....	28,200	2,270	9,081	1.53	1.76	.989
April.....	32,700	2,680	10,120	1.70	1.90	1.10
May.....	61,200	2,250	11,460	1.93	2.23	1.25
June.....	7,400	2,470	4,401	.741	.83	.479
July.....	2,930	1,020	1,909	.322	.37	.208
August.....	15,000	1,680	5,850	.986	1.14	.637
September.....	4,520	1,630	2,322	.391	.44	.253
The year.....	61,200	457	4,696	.791	10.74	.511

Monthly discharge of Potomac River at Shepherdstown, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	176,000	1,570	19,940	3.34	3.85	2.16
November.....	7,440	2,980	4,910	.827	.92	.535
December.....	88,500	2,400	11,650	1.96	2.26	1.27
January.....	52,700	4,640	11,550	1.95	2.24	1.26
February.....	45,700	6,840	14,990	2.53	2.63	1.64
March.....	29,000	4,260	12,270	2.07	2.38	1.34
April.....	49,400	3,540	10,250	1.73	1.93	1.12
May.....	23,300	3,660	7,841	1.32	1.52	.853
June.....	5,980	1,430	2,923	.492	.55	.318
July.....	6,260	1,160	2,275	.363	.44	.248
August.....	2,020	573	1,084	.183	.21	.118
September.....	1,340	369	651	.110	.12	.071
The year.....	176,000	369	8,338	1.40	19.05	.905

Yearly discharge of Potomac River at Shepherdstown, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	5,210	0.878	11.91	0.567	6,750	1.14	15.41	0.737
1930.....	4,200	.708	9.59	.458	2,310	.389	5.28	.251
1931.....	3,440	.580	7.88	.375	3,600	.606	8.22	.392
1932.....	4,710	.793	10.79	.513	5,710	.962	13.07	.622
1933.....	7,670	1.29	17.53	.834	6,840	1.15	15.63	.743
1934.....	3,130	.527	7.18	.341	3,778	.636	8.65	.411
1935.....	6,166	1.04	14.08	.672	5,780	.974	13.21	.630
1936.....	8,372	1.41	19.21	.911	8,593	1.45	19.72	.937
1937.....	7,678	1.29	17.56	.834	8,865	1.49	20.26	.963
1938.....	5,078	.855	11.61	.553	3,477	.586	7.95	.379
1939.....	5,574	.939	12.75	.607	5,651	.952	12.93	.615
1940.....	5,677	.956	13.01	.618	6,273	1.06	14.37	.685
1941.....	4,583	.772	10.47	.499	3,755	.633	8.58	.409
1942.....	4,696	.791	10.74	.511	7,431	1.25	16.99	.808
1943.....	8,338	1.40	19.05	.905	-	-	-	-
Highest.....	8,372	1.41	19.21	.911	8,865	1.49	20.26	.963
Average.....	5,635	.949	12.89	.613	5,630	.948	12.88	.613
Lowest.....	3,130	.527	7.18	.341	2,310	.389	5.28	.251

Potomac River at Point of Rocks, Md.

Location.- Water-stage recorder, lat. 39°16'25", long. 77°32'35", at highway bridge at Point of Rocks, Frederick County, 6 miles upstream from Monocacy River. Datum of gage is 200.54 feet above mean sea level, adjustment of 1912. Prior to October 1929, chain gage at same site and datum.

Drainage area.- 9,651 square miles.

Records available.- February 1895 to September 1943.

Extremes.- Maximum discharge, 480,000 second-feet Mar. 19, 1936 (gage height, 41.03 feet); minimum, 540 second-feet Sept. 10, 1914 (gage height, 0.38 foot).

Flood of June 2, 1889 reached a stage of 40.2 feet, from floodmark (discharge, about 460,000 second-feet, from rating curve for flood of 1936).

Remarks.- Records do not include flow in Chesapeake & Ohio Canal. No flow in canal since November 1935 (see page 164). No record of flow in canal prior to July 1931.

Monthly discharge of Potomac River at Point of Rocks, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1895						
February 17-28.....	15,300	5,320	7,413	0.768	0.34	0.496
March.....	66,000	11,500	24,560	2.54	2.93	1.64
April.....	67,600	6,200	14,500	1.50	1.67	.969
May.....	29,300	7,120	12,540	1.30	1.50	.840
June.....	7,580	2,280	3,910	.405	.45	.262
July.....	10,500	2,600	4,462	.462	.53	.299
August.....	3,300	1,340	1,997	.207	.24	.134
September.....	2,600	1,180	1,565	.162	.18	.105
1895-96						
October.....	1,340	1,040	1,163	.121	.14	.078
November.....	1,540	1,180	1,333	.138	.15	.089
December.....	5,320	1,180	2,259	.234	.27	.151
January.....	24,100	1,180	5,257	.545	.63	.352
February.....	37,100	2,600	10,470	1.08	1.16	.698
May 11-31.....	5,320	1,540	2,560	.265	.21	.171
June.....	14,200	1,180	5,429	.562	.63	.363
July.....	50,300	2,940	9,283	.962	1.11	.622
August.....	9,500	1,540	3,449	.357	.41	.231
September.....	25,400	1,180	2,185	.226	.25	.146
1896-97						
October.....	159,000	2,000	12,490	1.29	1.49	.834
November.....	30,000	2,000	6,928	.718	.80	.464
December.....	12,000	2,000	4,723	.489	.56	.316
January.....	8,540	2,280	4,284	.444	.51	.287
February.....	182,000	6,660	42,660	4.42	4.60	2.86
March.....	31,400	11,500	20,850	2.16	2.49	1.40
April.....	28,000	5,760	10,830	1.12	1.25	.724
May.....	94,200	5,760	22,950	2.38	2.74	1.54
June.....	7,580	4,080	5,997	.621	.69	.401
July.....	10,500	2,940	5,315	.551	.64	.356
August.....	6,200	3,300	4,092	.424	.49	.274
September.....	2,940	2,000	2,337	.242	.27	.156
The year.....	182,000	2,000	11,760	1.22	16.53	.789
1897-98						
October.....	2,600	1,760	1,968	.204	.24	.132
November.....	4,480	1,340	2,096	.217	.24	.140
December.....	19,300	2,600	6,579	.682	.79	.441
January.....	41,600	3,300	14,660	1.52	1.75	.982
February.....	18,100	5,760	8,339	.864	.90	.558
March.....	65,200	4,480	15,330	1.59	1.83	1.03
April.....	52,700	9,020	15,970	1.65	1.84	1.07
May.....	69,700	6,200	18,060	1.87	2.16	1.21
June.....	8,060	2,600	4,178	.433	.49	.280
July.....	5,760	1,540	2,418	.250	.29	.162
August.....	111,000	3,680	22,140	2.29	2.64	1.48
September.....	3,680	2,000	2,497	.259	.29	.167
The year.....	111,000	1,340	9,566	.991	13.45	.641
1898-99						
October.....	86,700	1,760	13,670	1.42	1.64	.918
November.....	15,300	5,320	8,557	.887	.99	.573
December.....	54,400	6,200	15,330	1.59	1.83	1.03
January.....	45,500	8,540	18,680	1.94	2.24	1.25
February.....	101,000	7,120	28,130	2.91	3.03	1.88
March.....	115,000	14,200	35,240	3.65	4.21	2.36
April.....	25,400	5,760	11,750	1.22	1.36	.789
May.....	49,100	5,320	11,600	1.20	1.38	.776
June.....	16,400	2,940	5,314	.551	.62	.356
July.....	7,120	1,540	2,519	.261	.30	.169
August.....	3,680	1,540	2,335	.242	.28	.156
September.....	3,680	1,760	2,345	.243	.27	.157
The year.....	115,000	1,540	12,900	1.34	18.15	.866

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1899-1900						
October.....	2,000	1,540	1,663	0.172	0.20	0.111
November.....	9,500	2,000	3,171	.329	.37	.213
December.....	12,000	2,000	4,068	.422	.49	.273
January.....	35,600	3,680	8,166	.846	.98	.547
February.....	37,800	2,940	13,540	1.38	1.44	.892
March.....	50,300	8,540	18,470	1.91	2.20	1.23
April.....	22,200	5,320	9,295	.963	1.07	.622
May.....	7,120	2,940	4,466	.463	.53	.299
June.....	46,700	2,600	8,394	.870	.97	.562
July.....	7,120	1,340	3,008	.312	.36	.202
August.....	3,680	1,340	1,917	.199	.23	.129
September.....	2,000	1,040	1,344	.139	.16	.090
The year.....	50,300	1,040	6,395	.663	9.00	.429
1900-1						
October.....	2,000	1,180	1,333	.138	.16	.089
November.....	42,300	1,040	4,570	.474	.53	.306
December.....	29,300	2,280	6,218	.644	.74	.416
January.....	21,000	1,760	4,950	.513	.59	.332
February.....	6,200	2,280	3,649	.378	.39	.244
March.....	80,900	2,280	13,800	1.43	1.65	.924
April.....	151,000	7,120	39,750	4.12	4.60	2.66
May.....	98,900	6,200	26,920	2.79	3.22	1.80
June.....	48,700	8,060	19,180	1.99	2.22	1.29
July.....	26,700	4,900	10,720	1.11	1.28	.717
August.....	20,400	4,080	8,337	.864	1.00	.558
September.....	28,000	3,680	7,636	.791	.88	.511
The year.....	151,000	1,040	12,260	1.27	17.26	.821
1901-2						
October.....	12,000	2,000	4,303	.446	.51	.288
November.....	19,800	2,280	4,644	.482	.54	.312
December.....	131,000	4,480	25,610	2.65	3.06	1.71
January.....	75,100	7,590	17,520	1.82	2.10	1.18
February.....	204,000	9,020	32,520	3.37	3.51	2.18
March.....	218,000	14,700	54,260	5.62	6.47	3.63
April.....	109,000	7,750	28,760	2.98	3.32	1.93
May.....	9,530	4,670	5,973	.619	.71	.400
June.....	4,330	2,530	3,186	.330	.37	.213
July.....	4,330	2,000	3,086	.320	.37	.207
August.....	4,330	1,520	2,464	.255	.29	.165
September.....	2,000	1,300	1,490	.154	.17	.100
The year.....	219,000	1,300	15,240	1.58	21.42	1.02
1902-3						
October.....	5,380	1,520	2,767	.287	.33	.185
November.....	11,500	1,750	2,937	.294	.33	.190
December.....	54,800	7,330	18,590	1.93	2.22	1.25
January.....	68,900	6,520	17,200	1.78	2.05	1.15
February.....	49,200	12,500	22,190	2.30	2.40	1.49
March.....	99,600	9,070	26,730	2.77	3.19	1.79
April.....	97,900	9,530	28,900	2.99	3.34	1.93
May.....	9,070	4,330	6,212	.644	.74	.416
June.....	73,900	6,520	17,970	1.86	2.08	1.20
July.....	45,300	4,330	12,760	1.32	1.52	.853
August.....	8,620	2,810	4,825	.500	.58	.323
September.....	16,800	2,530	4,669	.484	.54	.315
The year.....	99,600	1,520	13,740	1.42	19.82	.918
1903-4						
October.....	6,130	2,000	3,212	.333	.38	.215
November.....	2,810	2,000	2,175	.225	.25	.145
December.....	4,010	2,000	2,925	.303	.35	.196
January.....	35,600	3,400	7,287	.755	.87	.488
February.....	37,100	8,620	17,480	1.81	1.95	1.17
March.....	22,300	5,380	11,170	1.16	1.34	.750
April.....	28,100	3,400	7,406	.767	.86	.496
May.....	27,500	3,380	9,362	.970	1.12	.627
June.....	38,500	3,100	10,160	1.05	1.17	.679
July.....	11,000	2,530	4,505	.467	.54	.302
August.....	3,400	1,750	2,394	.246	.29	.160
September.....	2,000	1,300	1,592	.165	.19	.107
The year.....	38,500	1,300	6,904	.683	9.30	.441

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1904-5						
October.....	2,000	900	1,164	0.121	0.14	0.078
November.....	1,520	1,090	1,340	.139	.16	.090
December.....	5,020	1,520	2,201	.228	.26	.147
January.....	17,400	4,670	8,626	.894	1.03	.578
February.....	6,520	5,020	5,625	.583	.61	.377
March.....	63,900	6,520	23,480	2.43	2.80	1.57
April.....	10,000	4,010	6,581	.682	.76	.441
May.....	9,070	2,810	4,493	.466	.54	.301
June.....	32,800	2,810	6,979	.723	.81	.467
July.....	22,300	3,400	10,190	1.06	1.22	.685
August.....	13,500	2,810	5,830	.604	.70	.390
September.....	5,750	2,000	3,205	.332	.37	.215
The year.....	63,900	900	6,675	.692	9.40	.447
1905-6						
October.....	5,380	1,750	2,888	.299	.34	.193
November.....	3,700	1,750	2,267	.235	.26	.152
December.....	37,100	3,400	10,640	1.10	1.27	.711
January.....	44,500	8,180	14,990	1.55	1.79	1.00
February.....	9,070	3,700	5,116	.530	.55	.343
March.....	79,700	4,330	15,900	1.65	1.90	1.07
April.....	64,700	8,180	22,440	2.33	2.60	1.51
May.....	10,500	2,810	5,538	.574	.66	.371
June.....	19,800	3,400	7,007	.726	.81	.469
July.....	8,620	2,530	4,380	.454	.52	.293
August.....	37,100	3,400	15,200	1.57	1.81	1.01
September.....	12,600	2,530	4,280	.443	.49	.286
The year.....	79,700	1,750	9,257	.959	13.00	.620
1906-7						
October.....	106,000	2,530	16,300	1.69	1.95	1.09
November.....	15,200	4,010	6,340	.657	.73	.425
December.....	55,600	4,010	11,100	1.15	1.33	.743
January.....	72,200	9,530	27,000	2.80	3.23	1.81
February.....	13,500	7,330	9,560	.991	1.03	.641
March.....	114,000	9,530	30,500	3.16	3.64	2.04
April.....	51,600	6,920	14,900	1.54	1.72	.995
May.....	37,800	6,920	11,100	1.15	1.33	.743
June.....	93,800	7,330	23,200	2.40	2.68	1.55
July.....	11,000	4,330	6,010	.623	.72	.403
August.....	5,020	3,100	3,710	.384	.44	.248
September.....	26,800	2,810	6,430	.666	.74	.430
The year.....	114,000	2,530	13,890	1.44	19.54	.931
1907-8						
October.....	6,130	2,260	3,550	.368	.42	.238
November.....	26,500	2,530	7,850	.813	.91	.525
December.....	69,700	5,380	17,800	1.84	2.12	1.19
January.....	136,000	6,920	25,400	2.63	3.03	1.70
February.....	129,000	6,920	24,100	2.50	2.70	1.62
March.....	72,200	10,000	28,600	2.96	3.41	1.91
April.....	16,800	5,750	10,200	1.06	1.18	.685
May.....	97,100	6,130	32,100	3.33	3.84	2.15
June.....	15,200	4,010	7,250	.751	.84	.485
July.....	11,000	2,530	4,470	.463	.53	.299
August.....	8,180	2,530	3,880	.402	.46	.260
September.....	4,010	1,520	2,500	.259	.29	.167
The year.....	136,000	1,520	14,000	1.45	19.73	.937
1908-9						
October.....	5,750	1,750	2,780	.288	.33	.186
November.....	4,670	2,000	2,670	.277	.31	.179
December.....	3,400	1,520	2,440	.253	.29	.164
January.....	29,400	3,090	6,950	.720	.83	.465
February.....	31,500	4,330	11,300	1.17	1.22	.756
March.....	14,600	5,020	8,700	.901	1.04	.582
April.....	74,300	4,670	16,700	1.73	1.93	1.12
May.....	24,800	5,020	8,660	.867	1.03	.580
June.....	19,800	5,380	11,000	1.14	1.27	.737
July.....	7,330	1,480	2,700	.280	.32	.181
August.....	4,170	1,240	2,110	.219	.25	.142
September.....	2,380	1,360	1,780	.184	.21	.119
The year.....	74,300	1,240	6,430	.666	9.03	.430

Monthly discharge of Potomac River et Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1909-10						
October.....	5,020	1,010	2,190	0.227	0.26	0.147
November.....	2,260	1,490	1,850	.192	.21	.124
December.....	6,720	1,740	3,150	.324	.37	.209
January.....	84,600	2,200	11,700	1.21	1.40	.782
February.....	44,500	4,330	13,800	1.43	1.19	.924
March.....	33,500	3,390	9,960	1.03	1.19	.666
April.....	37,100	2,800	10,100	1.05	1.17	.679
May.....	12,000	3,860	5,520	.572	.66	.370
June.....	155,000	3,700	26,400	2.74	3.06	1.77
July.....	9,070	2,660	5,500	.570	.66	.368
August.....	3,090	1,480	2,000	.207	.24	.134
September.....	2,940	900	1,740	.180	.20	.116
The year.....	155,000	900	7,750	.803	10.91	.519
1910-11						
October.....	2,120	1,360	1,560	.162	.19	.105
November.....	1,860	1,240	1,440	.149	.17	.096
December.....	3,390	1,360	2,090	.217	.25	.140
January.....	57,300	1,990	12,200	1.26	1.45	.814
February.....	59,800	5,750	11,500	1.17	1.22	.756
March.....	18,000	5,020	9,670	1.00	1.15	.646
April.....	51,600	6,920	15,100	1.56	1.74	1.01
May.....	8,180	2,250	4,330	.449	.52	.290
June.....	7,750	2,380	3,690	.382	.43	.247
July.....	4,010	680	2,160	.224	.26	.145
August.....	26,100	1,010	2,440	.253	.29	.164
September.....	93,800	3,540	12,600	1.31	1.46	.847
The year.....	93,800	680	6,500	.674	9.13	.436
1911-12						
October.....	33,500	4,010	8,510	.882	1.02	.570
November.....	13,000	2,940	5,970	.619	.69	.400
December.....	29,400	3,390	10,200	1.06	1.22	.685
January.....	21,100	4,670	9,450	.979	1.13	.633
February.....	80,500	6,520	16,400	1.70	1.83	1.10
March.....	80,500	8,180	28,700	2.97	3.42	1.92
April.....	37,100	7,330	14,900	1.54	1.72	.995
May.....	68,900	6,130	19,800	2.05	2.36	1.32
June.....	7,330	3,700	5,280	.547	.61	.354
July.....	46,000	3,860	8,550	.886	1.02	.573
August.....	7,750	2,120	3,460	.359	.41	.232
September.....	39,200	1,640	6,360	.659	.74	.426
The year.....	80,500	1,640	11,500	1.19	16.17	.769
1912-13						
October.....	6,920	2,120	3,090	.320	.37	.207
November.....	7,330	2,120	3,270	.339	.38	.219
December.....	8,180	2,120	3,390	.351	.40	.227
January.....	28,800	6,130	11,700	1.21	1.40	.782
February.....	8,180	3,390	5,890	.610	.64	.394
March.....	118,000	3,090	18,200	1.89	2.18	1.22
April.....	62,200	7,750	18,100	1.67	1.86	1.08
May.....	66,400	3,700	13,600	1.41	1.63	.911
June.....	50,800	2,660	10,400	1.08	1.20	.698
July.....	8,620	2,800	4,490	.465	.54	.301
August.....	5,020	1,640	3,010	.312	.36	.202
September.....	3,860	748	1,770	.183	.20	.118
The year.....	118,000	748	7,930	.822	11.16	.531
1913-14						
October.....	43,000	1,580	6,850	.710	.82	.459
November.....	53,200	3,240	13,500	1.40	1.56	.905
December.....	24,200	4,170	8,120	.841	.97	.544
January.....	45,300	8,180	20,000	2.07	2.39	1.34
February.....	39,200	5,750	15,900	1.65	1.72	1.07
March.....	67,200	5,750	19,300	2.00	2.31	1.29
April.....	52,400	9,070	20,900	2.17	2.42	1.40
May.....	22,900	3,090	9,600	.995	1.15	.643
June.....	4,840	2,120	3,190	.331	.37	.214
July.....	7,750	966	3,020	.313	.36	.202
August.....	3,390	769	1,750	.191	.21	.117
September.....	2,660	540	1,270	.132	.15	.085
The year.....	67,200	540	10,200	1.06	14.43	.685

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1914-15						
October.....	2,800	706	1,400	0.145	0.17	0.094
November.....	2,940	643	1,540	.160	.18	.103
December.....	15,700	1,100	6,000	.622	.72	.402
January.....	84,600	4,500	28,600	2.96	3.41	1.91
February.....	121,000	10,000	27,000	2.80	2.92	1.81
March.....	16,300	4,670	8,230	.853	.98	.551
April.....	5,750	3,090	4,370	.453	.51	.293
May.....	15,200	3,240	5,900	.611	.70	.395
June.....	127,000	3,540	20,400	2.11	2.35	1.36
July.....	3,390	1,910	2,670	.277	.32	1.79
August.....	19,800	1,240	6,760	.700	.81	.452
September.....	11,000	2,800	5,350	.554	.62	.358
The year.....	127,000	643	9,730	1.01	13.69	.653
1915-16						
October.....	34,200	2,800	6,730	.698	.80	.450
November.....	7,330	1,310	3,590	.372	.42	.240
December.....	47,600	2,380	6,650	.689	.79	.445
January.....	26,800	6,130	12,500	1.30	1.50	.840
February.....	43,000	9,070	15,600	1.62	1.75	1.05
March.....	121,000	8,180	24,700	2.56	2.95	1.65
April.....	38,500	10,000	19,800	2.05	2.29	1.32
May.....	16,300	5,020	7,950	.824	.95	.533
June.....	46,200	3,700	14,000	1.45	1.62	.937
July.....	33,500	2,380	7,170	.745	.86	.480
August.....	5,750	2,120	3,600	.373	.43	.241
September.....	3,240	1,120	2,330	.241	.27	.156
The year.....	121,000	1,120	10,400	1.08	14.63	.698
1916-17						
October.....	3,540	1,100	2,190	.227	.26	.147
November.....	2,120	966	1,550	.161	.18	.104
December.....	16,300	1,260	3,250	.337	.39	.218
January.....	29,400	3,240	9,170	.950	1.10	.614
February.....	19,200	4,900	7,630	.791	.82	.511
March.....	118,000	12,000	38,400	3.98	4.59	2.57
April.....	24,800	5,020	10,700	1.11	1.24	.717
May.....	14,600	2,380	5,590	.579	.67	.374
June.....	20,400	1,990	7,870	.815	.91	.527
July.....	6,640	2,250	3,890	.403	.46	.260
August.....	5,420	1,030	2,620	.271	.31	.175
September.....	2,200	643	1,380	.143	.16	.092
The year.....	118,000	643	7,880	.816	11.09	.527
1917-18						
October.....	30,100	770	4,770	.494	.57	.319
November.....	18,600	1,260	3,830	.397	.44	.257
December.....	-	-	2,550	.264	.30	.171
January.....	-	-	2,500	.259	.30	.167
February.....	-	-	28,300	2.93	3.05	1.89
March.....	43,000	4,500	13,600	1.41	1.63	.911
April.....	111,000	4,010	39,800	4.12	4.60	2.66
May.....	16,300	2,660	5,990	.621	.72	.401
June.....	5,750	2,250	3,310	.343	.38	.222
July.....	4,840	2,120	3,360	.348	.40	.225
August.....	3,700	2,120	2,910	.302	.35	.195
September.....	6,920	1,890	3,940	.408	.46	.264
The year.....	111,000	770	9,390	.973	13.20	.629
1918-19						
October.....	2,940	1,080	1,710	.177	.20	.114
November.....	7,750	2,120	5,610	.581	.65	.376
December.....	43,000	2,520	13,000	1.35	1.56	.873
January.....	50,000	7,330	14,800	1.53	1.76	.989
February.....	11,000	4,170	5,980	.620	.65	.401
March.....	26,800	6,920	12,700	1.32	1.52	.853
April.....	14,100	5,380	8,860	.918	1.02	.593
May.....	64,700	4,670	18,300	1.90	2.19	1.23
June.....	14,100	4,010	7,130	.739	.82	.478
July.....	21,700	1,990	7,220	.748	.86	.483
August.....	5,380	1,480	3,130	.324	.37	.209
September.....	2,250	1,240	1,720	.178	.20	.115
The year.....	64,700	1,080	8,390	.869	11.80	.562

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1919-20						
October.....	4,840	1,010	2,420	0.281	0.28	0.162
November.....	14,100	2,250	4,620	.479	.63	.310
December.....	12,000	3,700	6,880	.713	.82	.461
January.....	-	-	10,800	1.12	1.29	.724
February.....	-	-	18,200	1.89	2.04	1.22
March.....	103,000	9,070	32,500	2.35	3.86	2.17
April.....	32,800	8,620	14,500	1.50	1.67	.969
May.....	13,500	4,940	8,700	.901	1.04	.582
June.....	18,600	4,010	8,550	.986	.98	.573
July.....	7,750	2,860	3,790	.393	.45	.254
August.....	32,100	1,990	7,150	.741	.85	.479
September.....	18,000	2,250	4,960	.514	.57	.322
The year.....	103,000	1,010	10,200	1.06	14.40	.685
1920-21						
October.....	6,920	1,480	2,720	.282	.33	.182
November.....	15,700	1,480	4,780	.495	.55	.280
December.....	19,800	5,750	9,500	.984	1.13	.636
January.....	11,500	5,020	6,360	.658	.76	.426
February.....	8,620	4,010	6,170	.639	.67	.413
March.....	36,300	5,380	12,900	1.34	1.54	.866
April.....	8,620	4,010	4,840	.512	.57	.321
May.....	85,500	7,750	20,700	2.14	2.47	1.3
June.....	9,070	2,520	4,150	.430	.48	.273
July.....	9,530	1,990	4,260	.441	.51	.285
August.....	16,800	1,370	3,910	.405	.47	.262
September.....	10,700	1,270	3,650	.378	.42	.244
The year.....	85,500	1,270	7,040	.729	9.90	.471
1921-22						
October.....	2,600	1,040	1,750	.181	.21	.117
November.....	25,500	1,170	4,400	.456	.51	.295
December.....	25,500	5,750	11,800	1.17	1.35	.754
January.....	27,200	2,920	8,110	.840	.97	.543
February.....	46,300	6,130	17,500	1.81	1.88	1.17
March.....	55,200	9,410	21,600	2.24	2.58	1.45
April.....	19,600	5,000	9,120	.945	1.05	.611
May.....	38,100	3,250	9,710	1.01	1.16	.657
June.....	16,500	2,920	6,660	.690	.77	.446
July.....	8,130	2,290	4,400	.456	.53	.295
August.....	3,250	1,320	2,080	.216	.25	.140
September.....	3,580	780	1,760	.182	.20	.11
The year.....	55,200	780	8,160	.846	11.46	.547
1922-23						
October.....	2,290	882	1,270	.132	.15	.085
November.....	1,270	780	959	.102	.11	.066
December.....	4,630	780	2,340	.242	.28	.156
January.....	19,600	3,250	6,780	.703	.81	.454
February.....	23,900	5,000	12,500	1.30	1.35	.840
March.....	22,300	3,920	10,700	1.11	1.28	.717
April.....	36,100	3,250	10,300	1.07	1.19	.692
May.....	8,980	2,920	5,420	.582	.65	.363
June.....	3,580	1,700	2,510	.260	.29	.168
July.....	3,920	950	1,560	.162	.19	.105
August.....	6,130	1,130	2,860	.286	.34	.191
September.....	10,700	916	3,770	.391	.44	.253
The year.....	36,100	780	5,030	.521	7.08	.337
1923-24						
October.....	1,930	676	1,040	.108	.12	.070
November.....	2,920	780	2,030	.210	.23	.136
December.....	14,000	2,920	6,880	.717	.82	.461
January.....	68,300	8,550	18,700	1.94	2.24	1.25
February.....	14,500	5,000	8,170	.847	.91	.547
March.....	158,000	6,130	33,800	3.50	4.04	2.26
April.....	76,500	8,130	21,000	2.18	2.43	1.41
May.....	237,000	8,130	42,000	4.35	5.02	2.81
June.....	24,400	7,300	14,400	1.49	1.66	.863
July.....	19,600	3,580	8,960	.928	1.07	.600
August.....	4,270	1,590	3,120	.323	.37	.209
September.....	15,500	1,420	2,680	.278	.31	.160
The year.....	237,000	676	13,600	1.41	19.22	.911

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1924-25						
October.....	53,700	2,290	7,100	0.736	0.85	0.476
November.....	9,410	2,290	3,810	.395	.44	.255
December.....	8,980	3,580	4,680	.485	.56	.313
January.....	18,600	7,300	10,400	1.08	1.24	.698
February.....	76,400	9,410	23,600	2.45	2.55	1.58
March.....	28,300	5,750	9,680	1.00	1.15	.646
April.....	18,600	3,580	5,990	.621	.69	.401
May.....	35,500	3,580	11,300	1.17	1.35	.756
June.....	3,410	1,700	2,710	.281	.31	.182
July.....	3,820	1,700	2,420	.251	.29	.162
August.....	2,290	1,000	1,580	.164	.19	.106
September.....	1,530	822	952	.099	.11	.064
The year.....	76,400	822	6,920	.717	9.73	.463
1925-26						
October.....	8,130	922	2,760	.286	.33	.185
November.....	35,500	2,600	6,820	.707	.79	.457
December.....	18,100	-	5,290	.548	.63	.354
January.....	32,900	-	9,210	.954	1.10	.617
February.....	55,200	8,550	23,000	2.38	2.48	1.54
March.....	26,600	6,130	10,800	1.12	1.29	.724
April.....	23,400	6,600	11,500	1.19	1.33	.769
May.....	9,850	2,920	4,550	.471	.54	.304
June.....	3,750	1,930	2,640	.274	.31	.177
July.....	4,450	1,370	2,650	.275	.32	.178
August.....	36,100	1,900	9,600	.995	1.15	.643
September.....	23,400	2,440	8,200	.850	.95	.549
The year.....	55,200	922	7,970	.826	11.22	.534
1926-27						
October.....	18,600	2,140	6,570	.681	.79	.440
November.....	72,300	2,920	18,100	1.88	2.10	1.22
December.....	58,200	3,920	12,900	1.34	1.54	.866
January.....	20,200	6,130	10,700	1.11	1.28	.717
February.....	60,500	8,550	21,600	2.24	2.33	1.45
March.....	26,600	8,550	14,500	1.50	1.73	.969
April.....	41,400	8,980	23,200	2.40	2.68	1.55
May.....	47,700	4,270	14,000	1.45	1.67	.937
June.....	25,500	3,580	9,420	.976	1.09	.631
July.....	4,630	2,760	3,210	.333	.38	.215
August.....	4,270	2,290	3,110	.322	.37	.208
September.....	2,440	974	1,540	.160	.18	.103
The year.....	72,300	974	11,500	1.19	16.14	.769
1927-28						
October.....	71,500	970	12,400	1.28	1.48	.827
November.....	24,400	3,580	8,400	.870	.97	.562
December.....	29,400	5,370	11,800	1.22	1.41	.76
January.....	9,850	3,200	6,100	.632	.73	.408
February.....	22,800	5,370	10,700	1.11	1.20	.717
March.....	39,400	6,510	14,200	1.47	1.70	.950
April.....	94,200	10,300	21,200	2.20	2.46	1.42
May.....	144,000	5,370	21,600	2.24	2.58	1.45
June.....	49,900	6,130	16,100	1.67	1.86	1.08
July.....	27,200	3,250	9,560	.991	1.14	.641
August.....	11,200	1,700	6,240	.647	.74	.418
September.....	13,500	3,250	5,770	.598	.67	.386
The year.....	144,000	970	12,000	1.24	16.94	.801
1928-29						
October.....	3,960	1,900	2,750	.285	.33	.184
November.....	3,000	1,340	1,980	.205	.23	.132
December.....	10,100	1,650	4,600	.477	.55	.308
January.....	7,560	2,020	4,620	.479	.55	.310
February.....	61,300	4,130	8,030	.832	.87	.538
March.....	81,400	7,160	24,600	2.55	2.94	1.65
April.....	156,000	5,590	27,400	2.84	3.17	1.84
May.....	43,500	7,160	14,700	1.52	1.75	.982
June.....	16,900	3,150	7,070	.733	.82	.474
July.....	7,560	1,770	3,920	.406	.47	.262
August.....	2,020	1,130	1,500	.155	.18	.100
September.....	2,280	1,130	1,500	.155	.17	.100
The year.....	156,000	1,130	8,550	.886	12.03	.573

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	106,000	1,400	15,200	1.57	1.81	1.01
November.....	54,600	5,400	13,000	1.35	1.51	.873
December.....	17,900	5,210	7,430	.770	.89	.498
January.....	15,800	3,790	6,880	.713	.82	.461
February.....	21,100	3,730	8,970	.929	.97	.600
March.....	26,600	6,180	10,900	1.13	1.50	.730
April.....	12,900	5,020	7,530	.780	.87	.504
May.....	5,020	1,900	3,280	.340	.39	.220
June.....	4,410	1,470	2,230	.231	.26	.149
July.....	1,970	749	1,100	.114	.13	.074
August.....	933	643	771	.080	.09	.052
September.....	1,080	712	834	.086	.10	.056
The year.....	106,000	643	6,490	.672	9.14	.434
1930-31						
October.....	788	594	706	.073	.08	.047
November.....	1,170	688	840	.087	.10	.056
December.....	4,750	775	1,420	.147	.17	.095
January.....	4,080	1,490	2,370	.246	.28	.159
February.....	4,840	1,510	2,930	.304	.32	.186
March.....	24,000	2,610	5,400	.560	.65	.362
April.....	31,300	4,620	14,200	1.47	1.64	.950
May.....	35,100	4,590	14,200	1.47	1.70	.950
June.....	10,500	2,840	5,610	.581	.65	.376
July.....	11,800	2,050	5,520	.572	.66	.370
August.....	13,800	1,450	3,630	.376	.43	.245
September.....	3,760	1,100	2,060	.213	.24	.138
The year.....	35,100	594	4,920	.510	6.92	.330
1931-32						
October.....	2,370	875	1,240	.128	.15	.083
November.....	1,180	845	944	.098	.11	.063
December.....	5,850	982	2,330	.241	.28	.156
January.....	11,000	2,390	5,200	.539	.62	.348
February.....	67,700	3,060	10,700	1.11	1.20	.717
March.....	55,000	2,940	14,900	1.54	1.78	.995
April.....	47,600	5,300	15,000	1.55	1.73	1.00
May.....	145,000	5,480	24,600	2.55	2.94	1.65
June.....	4,940	2,420	3,360	.348	.39	.225
July.....	6,800	1,270	2,740	.284	.33	.184
August.....	1,440	890	1,120	.116	.13	.075
September.....	2,390	702	1,000	.104	.12	.067
The year.....	145,000	702	6,920	.717	9.78	.463
1932-33						
October.....	30,000	778	5,330	.552	.64	.357
November.....	59,200	4,770	15,900	1.65	1.84	1.07
December.....	24,300	2,880	6,640	.688	.79	.445
January.....	59,800	5,300	13,000	1.35	1.56	.873
February.....	17,200	9,350	12,000	1.24	1.29	.801
March.....	64,400	7,120	21,800	2.26	2.61	1.46
April.....	104,000	12,400	32,100	3.33	3.72	2.15
May.....	43,400	9,350	20,100	2.08	2.40	1.34
June.....	10,600	2,660	5,240	.543	.61	.351
July.....	10,300	2,210	4,270	.442	.51	.286
August.....	56,700	2,810	9,120	.945	1.09	.611
September.....	18,800	3,420	6,650	.689	.77	.445
The year.....	104,000	778	12,700	1.32	17.83	.853
1933-34						
October.....	5,910	2,050	2,855	.296	.34	.191
November.....	2,690	1,850	2,238	.232	.26	.150
December.....	3,930	1,680	3,413	.354	.41	.229
January.....	33,200	2,700	8,351	.865	1.00	.559
February.....	3,600	2,200	2,611	.276	.29	.178
March.....	28,200	2,400	10,040	1.04	1.20	.672
April.....	19,200	4,950	11,080	1.15	1.28	.743
May.....	6,640	3,510	4,498	.466	.54	.301
June.....	7,860	1,610	3,037	.315	.35	.204
July.....	2,820	1,110	1,540	.160	.18	.103
August.....	9,130	1,240	3,069	.318	.37	.206
September.....	32,000	1,150	5,353	.555	.62	.359
The year.....	33,200	1,110	4,856	.503	6.84	.325

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-foot			Per square mile	Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean			
1934-35						
October.....	16,700	1,640	4,223	0.438	0.50	0.283
November.....	6,220	1,570	2,709	.281	.31	.162
December.....	117,000	4,940	16,510	1.71	1.97	1.11
January.....	63,700	4,940	13,950	1.45	1.67	.937
February.....	52,600	9,000	21,060	2.18	2.27	1.41
March.....	36,000	10,300	15,810	1.64	1.89	1.06
April.....	55,000	7,780	22,530	2.33	2.60	1.51
May.....	28,400	5,850	11,170	1.16	1.34	.750
June.....	6,700	3,200	4,472	.463	.52	.299
July.....	5,660	2,340	3,677	.381	.44	.246
August.....	14,100	2,160	4,548	.471	.54	.304
September.....	49,700	2,180	8,223	.852	.95	.551
The year.....	117,000	1,570	10,670	1.11	15.00	.717
1935-36						
October.....	3,650	1,280	1,823	.199	.22	.122
November.....	15,000	1,750	5,946	.616	.69	.398
December.....	19,000	4,000	7,300	.756	.87	.489
January.....	49,700	4,500	19,650	2.04	2.35	1.32
February.....	103,000	6,000	21,040	2.18	2.35	1.41
March.....	434,000	22,600	68,360	7.08	8.16	4.58
April.....	54,700	7,800	20,570	2.13	2.38	1.38
May.....	7,400	3,600	5,613	.582	.67	.376
June.....	8,270	2,600	3,868	.403	.45	.260
July.....	3,830	1,610	2,865	.297	.34	.192
August.....	4,240	1,590	2,356	.244	.28	.158
September.....	3,570	1,130	1,629	.169	.19	.109
The year.....	434,000	1,130	13,440	1.39	18.95	.896
1936-37						
October.....	30,300	1,370	4,701	.487	.56	.315
November.....	5,960	1,680	2,657	.275	.31	.178
December.....	17,000	1,860	10,100	1.05	1.21	.679
January.....	82,300	15,000	31,350	3.25	3.75	2.10
February.....	77,600	12,000	23,440	2.43	2.53	1.57
March.....	25,500	7,960	12,010	1.24	1.43	.901
April.....	277,000	6,540	32,200	3.34	3.73	2.16
May.....	42,200	6,540	13,340	1.38	1.59	.892
June.....	9,530	4,690	5,193	.641	.72	.414
July.....	9,000	2,420	4,020	.417	.48	.270
August.....	54,000	1,900	7,352	.762	.88	.492
September.....	14,000	2,160	5,581	.578	.64	.374
The year.....	277,000	1,370	12,670	1.31	17.83	.847
1937-38						
October.....	154,000	2,450	23,940	2.47	2.85	1.60
November.....	38,600	6,540	13,320	1.38	1.54	.882
December.....	16,100	4,540	7,332	.760	.88	.491
January.....	19,800	4,220	7,084	.735	.85	.475
February.....	12,300	5,580	8,022	.831	.87	.537
March.....	22,600	5,960	10,280	1.07	1.23	.692
April.....	10,500	5,580	8,019	.831	.93	.537
May.....	28,400	3,420	9,275	.961	1.11	.621
June.....	8,270	3,100	5,337	.553	.62	.357
July.....	19,000	1,790	4,982	.516	.59	.333
August.....	10,700	1,420	4,616	.478	.55	.309
September.....	2,900	1,320	1,925	.199	.22	.129
The year.....	154,000	1,320	8,692	.901	12.24	.582
1938-39						
October.....	1,700	1,110	1,400	.145	.17	.094
November.....	2,530	1,360	1,927	.200	.22	.129
December.....	38,400	2,130	7,700	.798	.92	.516
January.....	32,400	3,770	6,515	.675	.78	.436
February.....	117,000	10,800	31,370	3.25	3.38	2.10
March.....	54,700	7,560	18,270	1.89	2.18	1.22
April.....	61,400	8,610	16,670	1.73	1.93	1.12
May.....	13,700	4,630	7,362	.763	.88	.493
June.....	11,300	2,730	4,648	.513	.57	.332
July.....	27,800	1,850	6,987	.724	.83	.468
August.....	24,800	2,250	5,019	.520	.60	.336
September.....	2,680	1,120	1,675	.174	.19	.112
The year.....	117,000	1,110	9,002	.833	12.65	.603

Monthly discharge of Potomac River at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	14,200	1,410	3,299	0.342	0.39	0.221
November.....	9,040	2,470	4,383	.454	.51	.293
December.....	4,830	2,080	2,732	.283	.33	.183
January.....	6,500	1,900	2,848	.295	.34	.191
February.....	30,300	2,100	12,130	1.26	1.36	.814
March.....	34,100	6,950	18,970	1.45	1.67	.937
April.....	83,100	13,200	28,010	2.90	3.24	1.87
May.....	23,000	5,500	8,985	.926	1.07	.599
June.....	55,000	5,010	16,110	1.67	1.86	1.08
July.....	7,770	2,750	4,153	.430	.50	.278
August.....	38,000	1,880	7,315	.758	.87	.490
September.....	18,000	1,990	6,201	.643	.72	.416
The year.....	83,100	1,410	9,108	.944	12.86	.610
1940-41						
October.....	5,200	2,150	2,995	.310	.36	.200
November.....	27,200	2,470	9,050	.938	1.05	.606
December.....	28,700	6,180	11,480	1.18	1.37	.763
January.....	21,900	6,550	10,560	1.09	1.26	.704
February.....	8,400	4,650	6,454	.673	.70	.435
March.....	25,400	4,140	11,530	1.19	1.38	.769
April.....	62,900	5,030	14,150	1.47	1.64	.95
May.....	4,860	2,590	3,595	.373	.43	.241
June.....	40,000	2,500	6,905	.715	.80	.462
July.....	27,800	2,210	6,980	.723	.83	.467
August.....	3,980	1,430	2,346	.243	.28	.157
September.....	2,820	1,060	1,776	.184	.21	.119
The year.....	62,900	1,060	7,317	.758	10.31	.490
1941-42						
October.....	1,260	928	1,075	.111	.13	.072
November.....	1,910	1,120	1,463	.152	.17	.098
December.....	11,000	1,250	3,312	.343	.40	.222
January.....	6,200	2,500	3,436	.356	.41	.230
February.....	14,200	2,800	5,869	.608	.63	.393
March.....	34,000	3,280	11,460	1.19	1.37	.769
April.....	30,000	4,140	12,990	1.34	1.49	.866
May.....	107,000	3,340	17,320	1.79	2.07	1.16
June.....	12,200	4,100	7,094	.735	.82	.475
July.....	4,860	2,000	3,135	.325	.37	.210
August.....	27,000	2,350	9,813	1.02	1.17	.659
September.....	8,320	2,290	3,928	.407	.45	.263
The year.....	107,000	928	6,744	.699	9.48	.452
1942-43						
October.....	326,000	2,620	37,030	3.84	4.42	2.48
November.....	12,200	5,360	8,232	.853	.95	.551
December.....	117,000	4,100	14,980	1.55	1.79	1.00
January.....	86,600	8,280	17,570	1.82	2.10	1.18
February.....	59,100	10,700	22,090	2.29	2.38	1.48
March.....	43,300	7,520	19,120	1.93	2.28	1.23
April.....	65,200	6,780	15,890	1.65	1.84	1.07
May.....	39,700	6,800	13,060	1.35	1.56	.872
June.....	9,480	3,090	5,989	.610	.68	.384
July.....	10,300	2,650	4,449	.461	.53	.299
August.....	3,630	1,600	2,147	.222	.26	.143
September.....	2,270	1,110	1,465	.152	.17	.098
The year.....	326,000	1,110	13,480	1.40	18.96	.905

Yearly discharge of Potomac River at Point of Rocks, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1897.....	11,760	1.22	16.53	0.789	10,630	1.10	14.95	0.711
1898.....	9,566	.991	13.45	.641	11,830	1.23	16.64	.795
1899.....	12,900	1.34	18.15	.866	10,480	1.09	14.75	.704
1900.....	6,395	.663	9.00	.429	6,665	.691	9.37	.447
1901.....	12,260	1.27	17.26	.821	14,170	1.47	19.94	.950
1902.....	15,240	1.58	21.42	1.02	14,360	1.49	20.19	.963
1903.....	13,740	1.42	19.32	.918	12,390	1.28	17.42	.827
1904.....	6,594	.683	9.30	.441	6,291	.652	8.88	.421
1905.....	6,675	.692	9.40	.447	7,614	.789	10.71	.510
1906.....	9,257	.959	13.00	.620	10,770	1.12	15.14	.724
1907.....	13,890	1.44	19.54	.931	13,500	1.40	18.98	.905
1908.....	14,000	1.45	19.73	.937	12,200	1.26	17.21	.814
1909.....	6,430	.666	9.03	.430	6,370	.660	8.94	.427
1910.....	7,750	.803	10.91	.519	7,570	.784	10.68	.507
1911.....	6,500	.674	9.13	.436	8,150	.844	11.45	.545
1912.....	11,500	1.19	16.17	.769	10,200	1.06	14.39	.685
1913.....	7,930	.822	11.16	.531	9,490	.983	13.36	.635
1914.....	10,200	1.06	14.43	.685	8,620	.893	12.15	.577
1915.....	9,730	1.01	13.69	.653	10,400	1.08	14.63	.698
1916.....	10,400	1.08	14.63	.698	9,520	.986	13.45	.637
1917.....	7,880	.816	11.09	.527	8,230	.853	11.57	.551
1918.....	9,390	.973	13.20	.629	10,200	1.06	14.30	.685
1919.....	8,390	.869	11.80	.562	7,850	.813	11.03	.525
1920.....	10,200	1.06	14.40	.685	10,500	1.09	14.77	.704
1921.....	7,040	.729	9.90	.471	7,080	.734	9.97	.474
1922.....	8,160	.846	11.46	.547	7,070	.733	9.93	.474
1923.....	5,030	.521	7.08	.337	5,480	.568	7.71	.367
1924.....	13,600	1.41	19.22	.911	14,100	1.46	19.90	.944
1925.....	6,920	.717	9.73	.463	6,860	.711	9.63	.460
1926.....	7,970	.826	11.22	.534	9,870	1.02	13.90	.659
1927.....	11,500	1.19	16.14	.769	11,100	1.15	15.57	.743
1928.....	12,000	1.24	16.94	.801	10,100	1.05	14.19	.679
1929.....	8,550	.886	12.03	.573	10,700	1.11	15.14	.717
1930.....	6,490	.672	9.14	.434	3,760	.390	5.28	.252
1931.....	4,920	.510	6.92	.330	5,050	.523	7.11	.338
1932.....	6,920	.717	9.78	.463	8,860	.918	12.51	.593
1933.....	12,700	1.32	17.83	.853	11,100	1.15	15.57	.743
1934.....	4,856	.503	6.84	.325	6,123	.634	8.61	.410
1935.....	10,670	1.11	15.00	.717	9,948	1.03	14.00	.666
1936.....	13,440	1.39	18.95	.898	13,650	1.41	19.25	.911
1937.....	12,670	1.31	17.83	.847	14,940	1.55	21.02	1.00
1938.....	8,692	.901	12.24	.582	5,881	.609	8.28	.394
1939.....	9,002	.933	12.65	.603	8,944	.927	12.57	.599
1940.....	9,108	.944	12.86	.610	10,200	1.06	14.41	.685
1941.....	7,317	.758	10.31	.490	5,841	.605	8.23	.391
1942.....	6,744	.699	9.48	.452	11,350	1.18	15.94	.763
1943.....	13,480	1.40	18.96	.905	-	-	-	-
Highest....	15,240	1.58	21.42	1.02	14,940	1.55	21.02	1.00
Average....	9,497	.984	13.37	.636	9,478	.982	13.34	.635
Lowest....	4,856	.503	6.84	.325	3,760	.390	5.28	.252

Potomac River near Washington, D. C.

Location.- Water-stage recorder, lat. 38°57'36", long. 77°08'33", 1¼ miles northeast of Langley, Fairfax County, Va., and 2½ miles upstream from Chain Bridge. Datum of gage is 38.00 feet above mean sea level, adjustment of 1912.

Drainage area.- 11,560 square miles.

Records available.- March 1930 to September 1943.

Extremes.- Maximum discharge, 484,000 second-feet Mar. 19, 1936 (gage height, 28.1 feet); minimum daily, 448 second-feet Aug. 25, 1930.

Flood of June 2, 1889 was of approximately the same magnitude as that of Mar. 19, 1936.

Remarks.- Records do not include water diverted at Great Falls through aqueducts for municipal supply of Washington, D. C., or after Sept. 3, 1941, flow in Chesapeake & Ohio Canal bypassing station for recreational and industrial purposes. Records of flow through aqueducts can be obtained from the United States Engineer Office. Flow in Chesapeake & Ohio Canal can be obtained from the U. S. Geological Survey.

Monthly discharge of Potomac River near Washington, D. C.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930						
March 22-31.....	11,700	6,860	8,910			
April.....	17,800	5,820	9,200			
May.....	5,820	2,420	3,950			
June.....	4,860	1,740	2,870			
July.....	2,830	632	1,280			
August.....	698	448	569			
September.....	1,020	546	679			
1930-31						
October.....	736	488	583			
November.....	1,360	467	700			
December.....	8,300	632	1,730			
January.....	5,820	1,760	3,000			
February.....	5,820	1,800	3,670			
March.....	26,600	3,200	6,500			
April.....	36,100	5,230	15,900			
May.....	31,600	5,230	14,400			
June.....	11,100	3,710	6,520			
July.....	10,800	2,750	6,390			
August.....	13,800	2,060	4,450			
September.....	5,230	1,160	2,540			
The year.....	36,100	467	5,540			
1931-32						
October.....	3,150	755	1,400			
November.....	1,240	770	938			
December.....	6,810	1,030	2,710			
January.....	15,400	2,870	6,780			
February.....	58,300	3,560	11,900			
March.....	60,000	3,270	16,800			
April.....	53,500	5,720	17,600			
May.....	163,000	6,140	27,800			
June.....	5,520	2,950	4,030			
July.....	6,810	1,410	3,120			
August.....	1,660	785	1,200			
September.....	3,010	585	1,020			
The year.....	163,000	585	7,950			
1932-33						
October.....	39,500	595	7,470			
November.....	72,300	7,280	21,000			
December.....	27,700	2,740	8,410			
January.....	63,900	6,580	15,600			
February.....	21,200	10,900	14,700			
March.....	70,900	8,300	24,900			
April.....	121,000	14,600	36,400			
May.....	48,400	10,600	22,700			
June.....	11,200	3,440	6,030			
July.....	24,800	2,420	5,400			
August.....	86,700	2,980	13,400			
September.....	26,400	4,010	7,920			
The year.....	121,000	595	15,300			

Monthly discharge of Potomac River near Washington, D. C.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933-34						
October.....	6,310	2,600	3,600			
November.....	3,150	2,040	2,710			
December.....	9,120	1,840	3,760			
January.....	36,500	2,700	9,570			
February.....	4,000	2,500	2,980			
March.....	29,900	2,600	12,600			
April.....	26,100	6,580	13,700			
May.....	10,600	4,760	6,290			
June.....	9,120	2,420	4,020			
July.....	3,850	1,190	1,920			
August.....	9,700	1,320	3,540			
September.....	47,200	1,350	9,240			
The year.....	47,200	1,190	6,170			
1934-35						
October.....	28,800	2,260	5,744			
November.....	9,120	2,240	3,425			
December.....	120,000	6,360	19,390			
January.....	66,700	6,810	15,990			
February.....	63,900	11,200	25,130			
March.....	40,000	12,200	18,170			
April.....	58,700	9,400	26,030			
May.....	29,900	6,360	12,990			
June.....	7,780	3,530	5,203			
July.....	5,720	2,680	3,964			
August.....	11,800	2,040	4,442			
September.....	47,200	2,260	8,843			
The year.....	120,000	2,040	12,360			
1935-36						
October.....	5,930	1,640	2,209			
November.....	17,500	2,420	7,217			
December.....	21,600	4,700	8,533			
January.....	53,700	5,200	24,010			
February.....	126,000	7,200	24,220			
March.....	426,000	25,100	76,510			
April.....	59,200	8,850	23,690			
May.....	8,580	3,970	6,415			
June.....	9,100	2,760	4,327			
July.....	4,170	2,140	3,192			
August.....	9,700	1,710	3,173			
September.....	3,350	1,220	1,736			
The year.....	426,000	1,220	15,460			
1936-37						
October.....	31,100	1,670	5,326			
November.....	5,120	1,960	2,966			
December.....	23,100	1,770	12,260			
January.....	91,300	17,100	37,190			
February.....	77,800	15,000	29,080			
March.....	27,800	9,700	13,810			
April.....	310,000	7,280	36,400			
May.....	55,000	8,040	16,000			
June.....	15,400	5,900	7,970			
July.....	11,500	2,900	5,118			
August.....	80,800	2,010	11,060			
September.....	15,000	2,840	6,678			
The year.....	310,000	1,670	15,230			
1937-38						
October.....	175,000	3,160	27,180			
November.....	47,900	8,040	17,000			
December.....	16,700	5,000	8,661			
January.....	19,800	4,920	8,403			
February.....	14,300	6,800	9,635			
March.....	25,600	7,280	11,910			
April.....	11,800	6,340	9,148			
May.....	30,000	4,210	10,040			
June.....	9,400	3,340	5,772			
July.....	21,200	1,960	5,520			
August.....	11,500	1,530	5,391			
September.....	3,860	1,550	2,452			
The year.....	175,000	1,530	10,110			

Monthly discharge of Potomac River near Washington, D. C.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	3,700	1,270	1,762			
November.....	3,570	1,570	2,561			
December.....	40,500	3,040	9,828			
January.....	41,100	4,680	7,996			
February.....	123,000	12,800	36,790			
March.....	60,600	8,850	21,010			
April.....	68,800	10,000	18,290			
May.....	15,400	5,200	8,556			
June.....	12,800	3,190	5,682			
July.....	17,000	2,170	6,706			
August.....	31,300	2,360	5,932			
September.....	5,080	1,060	1,999			
The year.....	123,000	1,060	10,470			
1939-40						
October.....	18,000	1,590	3,905			
November.....	11,800	3,100	5,476			
December.....	5,690	2,490	3,368			
January.....	7,500	2,400	3,461			
February.....	38,300	2,700	14,800			
March.....	44,600	8,040	16,800			
April.....	99,200	15,400	32,510			
May.....	27,800	6,570	10,680			
June.....	64,100	5,480	18,170			
July.....	8,430	3,040	4,833			
August.....	36,500	2,120	7,336			
September.....	36,800	2,120	8,723			
The year.....	99,200	1,590	10,760			
1940-41						
October.....	8,600	2,580	3,951			
November.....	32,300	3,340	11,960			
December.....	37,100	7,350	13,290			
January.....	27,800	8,100	12,660			
February.....	12,200	6,020	8,393			
March.....	28,900	5,380	13,340			
April.....	69,000	6,020	16,570			
May.....	5,800	2,800	4,135			
June.....	34,700	2,830	7,528			
July.....	27,800	2,240	7,298			
August.....	3,950	1,240	2,425			
September.....	3,470	802	1,733			
The year.....	69,000	802	8,600			
1941-42						
October.....	1,120	642	810			
November.....	1,990	970	1,417			
December.....	12,000	1,480	3,772			
January.....	7,120	3,000	4,077			
February.....	18,400	3,500	7,484			
March.....	42,000	3,920	13,750			
April.....	42,000	4,820	17,180			
May.....	130,000	3,880	20,620			
June.....	12,500	4,550	8,464			
July.....	6,680	2,300	4,159			
August.....	37,100	2,630	14,010			
September.....	9,400	2,740	4,696			
The year.....	130,000	642	8,383			
1942-43						
October.....	407,000	2,970	44,100			
November.....	15,000	6,900	10,260			
December.....	122,000	5,000	17,210			
January.....	118,000	9,400	21,500			
February.....	73,300	12,500	26,710			
March.....	52,400	8,850	23,320			
April.....	77,800	7,850	18,750			
May.....	57,600	7,350	15,210			
June.....	11,200	3,470	6,738			
July.....	10,900	2,660	4,676			
August.....	3,540	1,480	2,083			
September.....	3,230	1,000	1,449			
The year.....	407,000	1,000	15,990			

Yearly discharge of Potomac River near Washington, D. C.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1931.....	5,540				5,710			
1932.....	7,950				10,600			
1933.....	15,300				13,100			
1934.....	6,170				7,741			
1935.....	12,360				11,450			
1936.....	15,460				15,690			
1937.....	15,230				17,930			
1938.....	10,110				6,867			
1939.....	10,470				10,350			
1940.....	10,760				12,130			
1941.....	8,600				6,658			
1942.....	8,383				13,930			
1943.....	15,990				-			
Rightest.....	15,990				17,930			
Average.....	10,950				11,010			
Lowest.....	5,540				5,710			

Savage River at Bloomington, Md.

Location.- Water-stage recorder, lat. 39°29'00", long. 79°34'24", at Bloomington, Garrett County, 2,200 feet upstream from mouth. Datum of gage is 978.76 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark). Prior to Sept. 7, 1929, chain or staff gages at various sites and datum planes as follows:

From May 3, 1905 to July 15, 1906 chain gage on highway bridge 800 feet upstream from mouth, independent datum; from Oct. 31, 1924 to Sept. 30, 1927 staff gage 1,400 feet upstream from mouth, independent datum; from Aug. 19, 1929 to Sept. 7, 1929 staff gage at present site and datum.

Drainage area.- 115 square miles.

Records available.- May 1905 to July 1906, October 1924 to September 1927, August 1929 to September 1943.

Extremes.- Maximum discharge, 14,800 second-feet Mar. 17, 1936 (gage height, 10.8 feet), by slope-area determination; minimum 0.7 second-foot Sept. 21, 1932.

Maximum stage known, about 13 feet Mar. 29, 1924, present datum.

Remarks.- Records do not include water diverted above station by Baltimore & Ohio Railroad (quantity negligible) and of Frostburg, Westport, end Bloomington, Md., and Piedmont, W. Va., for municipal supply. Information regarding the quantity of water diverted can be obtained from the office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Savage River at Bloomington, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
May 3-31.....	399	34	97.8			
June.....	568	29	118			
July.....	466	12	85.0			
August.....	210	10	34.0			
September.....	535	8	56.0			
1905-6						
October.....	509	10	82.1			
November.....	418	13	51.1			
December.....	924	21	220			
January.....	2,200	66	330			
February.....	103	24	43.8			
March.....	2,260	36	348			
April.....	1,380	163	521			
May.....	174	23	69.9			
June.....	884	28	138			
July 1-15.....	40	10	17.8			

Monthly discharge of Savage River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1924-25						
November.....	46	7.0	14.1			
December.....	120	13.5	50.8			
January.....	408	12.5	57.8			
February.....	1,480	30	389			
March.....	487	158	222			
April.....	436	52	139			
May.....	714	38	222			
June.....	140	9.2	25.0			
July.....	65	6.5	15.4			
August.....	20	2.8	7.92			
September.....	4.6	2.4	3.23			
1925-26						
October.....	1,170	2.7	190			
November.....	2,250	94	310			
December.....	332	-	126			
January.....	1,480	-	220			
February.....	1,580	-	348			
March.....	487	-	232			
April.....	672	49	230			
May.....	47	18	29.6			
June.....	44	13	24.4			
July.....	480	11	50.8			
August.....	844	10	151			
September.....	457	32	175			
The year.....	2,250	2.7	172			
1926-27						
October.....	529	42	183			
November.....	918	60	261			
December.....	881	48	286			
January.....	1,820	-	331			
February.....	1,760	175	523			
March.....	965	166	361			
April.....	2,090	198	461			
May.....	1,540	166	296			
June.....	920	40	193			
July.....	128	12	31.9			
August.....	73	10	25.9			
September.....	15	4	6.2			
The year.....	2,090	4	246			
1929						
August 19-31.....	22	5	8.6			
September.....	179	3	20.8			
1929-30						
October.....	1,040	13	194			
November.....	951	60	218			
December.....	795	-	215			
January.....	370	-	120			
February.....	330	60	173			
March.....	380	74	203			
April.....	380	70	173			
May.....	136	22	56.4			
June.....	155	12	33.0			
July.....	24	2.0	7.59			
August.....	18	1.4	4.61			
September.....	8.5	1.8	3.17			
The year.....	1,040	1.4	116			
1930-31						
October.....	3.8	1.6	2.24			
November.....	5.0	2.0	3.56			
December.....	35	-	11.6			
January.....	395	10	65.6			
February.....	490	37	143			
March.....	1,050	57	250			
April.....	1,050	72	383			
May.....	1,160	94	365			
June.....	146	13	47.6			
July.....	247	5.8	33.6			
August.....	64	3.1	17.5			
September.....	145	4.1	22.9			
The year.....	1,160	1.6	112			

Monthly discharge of Savage River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
October.....	29	5	11.5			
November.....	12	5.5	7.40			
December.....	515	6	109			
January.....	591	55	185			
February.....	1,280	60	251			
March.....	2,000	47	352			
April.....	1,650	55	267			
May.....	2,240	40	361			
June.....	57	12	26.7			
July.....	40	7	20.2			
August.....	24	2.2	6.87			
September.....	3.2	.7	1.42			
The year.....	2,240	.7	133			
1932-33						
October.....	210	2.0	33.7			
November.....	702	32	166			
December.....	467	19	107			
January.....	648	89	193			
February.....	540	135	237			
March.....	3,700	102	592			
April.....	2,280	159	511			
May.....	1,060	87	398			
June.....	115	14	44.4			
July.....	70	7.5	21.2			
August.....	125	4.5	19.2			
September.....	106	13	31.5			
The year.....	3,700	2.0	196			
1933-34						
October.....	18	6.3	9.89			
November.....	66	7.2	27.5			
December.....	705	19	133			
January.....	2,670	69	343			
February.....	130	25	56.6			
March.....	714	30	244			
April.....	1,100	66	256			
May.....	77	37	54.7			
June.....	628	13	61.2			
July.....	29	3.7	11.9			
August.....	239	4.4	34.0			
September.....	324	4.0	33.7			
The year.....	2,670	3.7	106			
1934-35						
October.....	190	11	34.7			
November.....	338	25	79.7			
December.....	504	46	150			
January.....	1,600	89	321			
February.....	1,320	71	311			
March.....	504	132	280			
April.....	1,140	77	291			
May.....	1,270	62	319			
June.....	141	28	57.2			
July.....	139	13	37.2			
August.....	634	12	115			
September.....	1,163	16	151			
The year.....	1,600	11	178			
1935-36						
October.....	46	13	18.9			
November.....	202	18	68.9			
December.....	574	26	136			
January.....	880	60	275			
February.....	2,160	45	324			
March.....	7,170	320	1,243			
April.....	1,470	87	289			
May.....	155	30	78.0			
June.....	228	11	45.0			
July.....	337	2.5	33.2			
August.....	152	10	31.8			
September.....	15	3.2	6.04			
The year.....	7,170	2.5	213			

Monthly discharge of Savage River et Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Diecharge in million gallons per dey per aquere mile
	Maximum	Minimum	Meen	Per square mile		
1936-37						
October.....	577	4.7	52.8			
November.....	494	20	73.9			
December.....	708	12	230			
January.....	1,700	223	707			
February.....	721	126	269			
March.....	1,260	108	251			
April.....	5,770	98	500			
May.....	438	69	175			
June.....	156	26	62.9			
July.....	40	5.5	18.8			
August.....	893	2.1	83.1			
September.....	320	10	66.1			
The year.....	5,770	2.1	207			
1937-38						
October.....	5,480	9.6	402			
November.....	349	46	111			
December.....	1,190	36	182			
January.....	246	38	119			
February.....	733	84	199			
March.....	975	85	242			
April.....	305	82	182			
May.....	1,110	49	296			
June.....	88	18	44.7			
July.....	308	9.3	62.7			
August.....	60	4.0	20.1			
September.....	35	3.4	13.1			
The year.....	5,480	3.4	156			
1938-39						
October.....	8.0	2.9	4.98			
November.....	48	3.8	11.9			
December.....	122	12	45.6			
January.....	772	17	120			
February.....	1,560	137	532			
March.....	1,180	81	328			
April.....	2,370	128	425			
May.....	282	34	101			
June.....	610	20	100			
July.....	605	24	106			
August.....	54	7.6	21.7			
September.....	50	4.2	13.3			
The year.....	2,370	2.9	148			
1939-40						
October.....	89	5.5	16.3			
November.....	71	13	29.2			
December.....	88	17	45.2			
January.....	52	13	21.8			
February.....	912	14	201			
March.....	1,320	82	418			
April.....	2,130	124	591			
May.....	1,360	66	194			
June.....	845	63	208			
July.....	920	15	103			
August.....	491	8.7	79.1			
September.....	362	14	92.4			
The year.....	2,130	5.5	166			
1940-41						
October.....	54	13	22.2			
November.....	518	52	120			
December.....	491	112	240			
January.....	539	54	168			
February.....	273	61	114			
March.....	672	75	291			
April.....	1,660	55	275			
May.....	380	39	87.0			
June.....	3,690	45	397			
July.....	1,120	28	183			
August.....	69	9.5	31.0			
September.....	27	4.1	10.4			
The year.....	3,690	4.1	162			

Monthly discharge of Savage River at Bloomington, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	13	4.5	6.67			
November.....	72	7.6	21.5			
December.....	537	7.0	69.0			
January.....	304	35	89.2			
February.....	584	50	199			
March.....	1,460	52	348			
April.....	1,860	55	309			
May.....	1,850	45	492			
June.....	155	48	80.8			
July.....	190	8.5	33.1			
August.....	175	9.1	51.5			
September.....	175	13	51.2			
The year.....	1,860	4.5	146			
1942-43						
October.....	3,980	20	399			
November.....	364	68	130			
December.....	2,900	51	401			
January.....	1,270	88	325			
February.....	1,270	145	369			
March.....	1,180	69	295			
April.....	1,840	64	315			
May.....	576	72	186			
June.....	79	9.1	30.0			
July.....	45	4.2	16.1			
August.....	18	2.9	6.54			
September.....	2.9	1.1	1.72			
The year.....	3,980	1.1	205			

Yearly discharge of Savage River at Bloomington, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1925.....	-			141				
1926.....	172			191				
1927.....	246			-				
1930.....	116			65.2				
1931.....	112			121				
1932.....	133			148				
1933.....	196			185				
1934.....	106			114				
1935.....	178			175				
1936.....	213			224				
1937.....	207			236				
1938.....	156			103				
1939.....	148			150				
1940.....	166			190				
1941.....	162			138				
1942.....	146			216				
1943.....	205			-				

Georges Creek at Franklin, Md.

Location.- Water-stage recorder, lat. 39°29'38", long. 79°02'42", at Franklin, Allegany County, and 1½ miles upstream from Westernport and mouth. Datum of gage is 958.96 feet above mean sea level (West Virginia Pulp & Paper Company bench mark).

Drainage area.- 72.4 square miles.

Records available.- October 1929 to September 1943.

Extremes.- Maximum discharge, 8,500 second-feet Mar. 17, 1936 (gage height 9.6 feet, at site 95 feet downstream from present gage), by slopa-area determination; minimum, 1.6 second-feet Oct. 2, 4-8, 1930.

Remarks.- Records include part of sewage from city of Frostburg, which obtains its water supply from Big Piney Run (Monongahela River Basin) and Savage River. Records also include drainage from many active and abandoned coal mines. Records of pumpage from Big Piney Run and the amount of mine drainage can be obtained from the office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Georges Creek at Franklin, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	-	-	64.5			
November.....	413	-	87.4			
December.....	294	-	90.2			
January.....	113	-	53.2			
February.....	110	-	50.5			
March.....	113	37	72.2			
April.....	120	34	68.3			
May.....	60	16	31.0			
June.....	108	6.4	16.2			
July.....	14	1.9	5.19			
August.....	10	1.8	3.97			
September.....	11	1.6	2.80			
The year.....	-	1.6	45.4			
1930-31						
October.....	2.3	1.6	1.78			
November.....	4.7	2.3	3.40			
December.....	73	-	9.35			
January.....	47	-	15.8			
February.....	70	9.3	28.6			
March.....	465	26	85.7			
April.....	494	43	161			
May.....	1,220	49	244			
June.....	86	11	29.7			
July.....	32	4.6	10.9			
August.....	33	3.2	9.86			
September.....	37	3.9	7.25			
The year.....	1,220	1.6	50.8			
1931-32						
October.....	8	3.7	4.70			
November.....	7	4.1	4.91			
December.....	80	4.5	20.6			
January.....	185	16	50.9			
February.....	569	24	96.8			
March.....	640	21	126			
April.....	572	32	136			
May.....	1,430	29	207			
June.....	48	14	25.7			
July.....	26	5.5	11.1			
August.....	11	2.8	4.53			
September.....	4.5	2.1	2.65			
The year.....	1,430	2.1	57.6			
1932-33						
October.....	124	2.7	18.3			
November.....	328	14	77.6			
December.....	114	15	39.2			
January.....	364	30	74.8			
February.....	155	47	85.5			
March.....	867	50	268			
April.....	1,170	116	298			
May.....	494	52	204			
June.....	44	13	23.5			
July.....	25	6	10.4			
August.....	44	4.1	8.56			
September.....	44	5.7	13.0			
The year.....	1,170	2.7	93.3			
1933-34						
October.....	11	4.6	5.92			
November.....	16	5.5	8.26			
December.....	224	5.7	39.1			
January.....	833	25	124			
February.....	45	12	20.2			
March.....	212	12	75.6			
April.....	331	37	118			
May.....	49	17	27.7			
June.....	286	8.2	30.4			
July.....	28	4.8	10.9			
August.....	111	4.8	16.0			
September.....	263	4.6	31.5			
The year.....	833	4.6	42.4			

Monthly discharge of Georges Creek at Franklin, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mila
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	59	9.1	18.8			
November.....	218	11	39.7			
December.....	250	25	70.3			
January.....	423	42	141			
February.....	485	48	164			
March.....	176	68	122			
April.....	413	49	141			
May.....	429	33	137			
June.....	78	18	33.3			
July.....	260	10	41.7			
August.....	224	10	51.5			
September.....	484	10	65.5			
The year.....	485	9.1	85.0			
1935-36						
October.....	33	8.4	12.8			
November.....	118	10	30.8			
December.....	181	15	50.6			
January.....	304	30	122			
February.....	740	20	136			
March.....	4,130	195	682			
April.....	599	54	167			
May.....	55	21	36.4			
June.....	150	14	38.1			
July.....	69	4.5	14.7			
August.....	21	6.5	11.6			
September.....	8.7	4.0	5.69			
The year.....	4,130	4.0	109			
1936-37						
October.....	333	5.5	25.4			
November.....	120	7.3	22.6			
December.....	295	2.7	87.9			
January.....	933	130	371			
February.....	336	83	150			
March.....	384	55	111			
April.....	3,610	56	304			
May.....	290	49	113			
June.....	120	25	50.9			
July.....	59	6.0	17.3			
August.....	418	2.7	38.9			
September.....	92	6.3	24.1			
The year.....	3,610	2.7	109			
1937-38						
October.....	2,830	8.3	204			
November.....	215	34	72.8			
December.....	323	20	68.8			
January.....	226	27	60.3			
February.....	196	47	85.6			
March.....	281	45	108			
April.....	125	47	82.7			
May.....	336	30	109			
June.....	144	25	50.3			
July.....	55	9.8	16.6			
August.....	35	4.7	9.49			
September.....	15	4.3	6.98			
The year.....	2,830	4.3	73.0			
1938-39						
October.....	6.2	4.3	4.67			
November.....	18	4.5	7.97			
December.....	24	5.0	10.2			
January.....	174	7.2	27.6			
February.....	628	64	201			
March.....	466	54	150			
April.....	874	91	205			
May.....	159	23	61.4			
June.....	125	12	38.2			
July.....	82	8.6	32.9			
August.....	49	5.1	13.9			
September.....	30	3.9	7.22			
The year.....	874	3.9	62.2			

Monthly discharge of Georges Creek at Frenklin, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	26	4.7	9.28			
November.....	27	6.9	11.8			
December.....	26	9.8	13.7			
January.....	33	7.0	10.9			
February.....	209	7.2	71.4			
March.....	476	40	163			
April.....	1,030	112	291			
May.....	563	39	86.4			
June.....	354	32	107			
July.....	232	10.0	28.7			
August.....	165	8.3	29.9			
September.....	135	8.6	29.4			
The year.....	1,030	4.7	72.3			
1940-41						
October.....	21	9.5	12.2			
November.....	202	28	47.9			
December.....	168	47	93.5			
January.....	184	38	71.2			
February.....	89	30	42.8			
March.....	258	28	109			
April.....	854	35	141			
May.....	78	16	31.7			
June.....	1,480	20	158			
July.....	379	23	83.6			
August.....	39	10	18.0			
September.....	15	6.8	8.59			
The year.....	1,480	6.8	68.1			
1941-42						
October.....	10	6.5	7.48			
November.....	40	7.4	11.0			
December.....	135	7.1	19.3			
January.....	68	11	24.0			
February.....	182	18	55.4			
March.....	460	24	139			
April.....	625	39	155			
May.....	894	34	224			
June.....	92	20	43.9			
July.....	32	8.0	15.0			
August.....	45	7.1	19.4			
September.....	79	8.9	17.7			
The year.....	894	6.5	61.0			
1942-43						
October.....	3,510	11	270			
November.....	111	32	50.0			
December.....	1,240	30	173			
January.....	368	68	159			
February.....	382	91	167			
March.....	415	49	137			
April.....	560	41	128			
May.....	190	39	71.6			
June.....	39	8.8	17.7			
July.....	18	5.0	9.06			
August.....	8.4	4.0	5.21			
September.....	5.3	3.1	3.62			
The year.....	3,510	3.1	99.2			

Yearly discharge of Georges Creek at Frenklin, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	45.4				26.3			
1931.....	50.8				52.1			
1932.....	57.6				66.2			
1933.....	63.3				86.5			
1934.....	42.4				48.7			

Yearly discharge of Georges Creek et Franklin, Md.--Continued

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1935.....	85.0				82.0			
1936.....	109				110			
1937.....	109				127			
1938.....	73.0				45.8			
1939.....	62.2				63.2			
1940.....	72.3				82.3			
1941.....	68.1				58.3			
1942.....	61.0				99.5			
1943.....	99.2				-			
Highest.....	109				127			
Average.....	73.4				72.9			
Lowest.....	42.4				26.3			

Georges Creek et Westernport, Md.

Location.- Chain gage, lat. 39°29'24", long. 79°02'33", et highway bridge in Westernport,

Allegany County, and 0.5 mile upstream from mouth.

Drainage area.- 72.7 square miles (revised).

Records available.- May 1905 to July 1906.

Extremes.- Maximum daily discharge, 1,300 second-feet Mar. 31, 1906; minimum daily, 6 second-feet Aug. 24, 1905.

Remarks.- Mine drainage from many active and abandoned mines.

Monthly discharge of Georges Creek at Westernport, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
May 4-31.....	92	26	44.8	0.616	0.64	0.398
June.....	154	15	45.7	.629	.70	.407
July.....	1,030	13	127	1.75	2.02	1.13
August.....	68	6	15.1	.208	.24	.134
September.....	528	8	46.4	.638	.71	.412
1905-6						
October.....	370	12	65.8	.905	1.04	.585
November.....	102	12	33.8	.465	.52	.301
December.....	1,250	39	267	3.67	4.23	2.37
January.....	1,130	80	320	4.40	5.07	2.84
February.....	145	39	71.2	.979	1.02	.633
March.....	1,300	42	260	3.58	4.13	2.31
April.....	1,040	115	378	5.20	5.80	3.36
May.....	315	21	83.0	1.14	1.31	.727
June.....	342	29	91.4	1.26	1.41	.814
July 1-15.....	27	16	20.8	.288	.16	.165

New Creek near Keyser, W. Va.

Location.- Staff gage, lat. 39°24'27", long. 79°00'08", 0.1 mile downstream from Block Run, 2.5 miles southwest of Keyser, Mineral County, and 3.1 miles upstream from mouth.

Drainage area.- 46.4 square miles.

Records available.- April 1930 to September 1931.

Extremes.- Maximum discharge, about 500 second-feet May 20, 1931 (gage height, 3.96 feet), from rating curve extended above 70 second-feet; minimum, 0.6 second-foot Nov. 30, 1930.

Monthly discharge of New Creek near Keyser, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930						
April 19-30.....	54	25	38.9	0.838	0.37	0.542
May.....	35	7.2	15.1	.325	.37	.210
June.....	72	4.5	10.6	.228	.25	.147
July.....	5.4	1.0	2.37	.051	.06	.033
August.....	5.8	1.0	2.25	.048	.06	.031
September.....	7.2	1.2	2.32	.050	.06	.032
1930-31						
October.....	11	2.4	4.71	.102	.12	.066
November.....	5.0	.6	2.17	.047	.05	.030
December.....	32	-	5.65	.122	.14	.079
January.....	57	-	10.4	.224	.26	.145
February.....	47	1.7	13.7	.295	.31	.191
March.....	172	15	40.2	.866	1.00	.560
April.....	222	40	115	2.48	2.77	1.60
May.....	452	40	162	3.49	4.02	2.26
June.....	39	4.5	14.2	.506	.54	.198
July.....	11	2.0	4.27	.092	.11	.060
August.....	28	.7	3.83	.083	.10	.054
September.....	57	1.2	5.17	.111	.12	.072
The year.....	452	.6	32.0	.690	9.34	.446

Wills Creek near Cumberland, Md.

Location.- Water-stage recorder, lat. 39°40'07", long. 78°47'18", at Western Maryland Railroad bridge, 2 miles upstream from Cumberland, Allegany County, and mouth. Datum of gage is 640.89 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark). Datum of gage prior to July 1906, not known. From October 1929 to March 1936, water-stage recorder 200 feet upstream; March 1936 to March 1937, non-recording gage 200 feet upstream, and prior to July 1906, chain gage 200 feet upstream.

Drainage area.- 247 square miles.

Records available.- May 1905 to July 1906, October 1929 to September 1943.

Extremes.- Maximum discharge, 38,100 second-feet Mar. 17, 1936 (gage height, 20.2 feet, from floodmarks), by slope-area determination; minimum, 9 second-feet Oct. 14, 1930.

Remarks.- Records include drainage from many active and abandoned coal mines and part of sewage from Frostburg. Information on mine drainage can be obtained from office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Wills Creek near Cumberland, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
May 6-31.....	747	91	221	0.895	0.87	0.578
June.....	1,360	104	272	1.10	1.23	.711
July.....	1,900	96	353	1.43	1.65	.924
August.....	1,040	36	174	.704	.81	.455
September.....	647	34	128	.518	.58	.335
1905-6						
October.....	595	30	149	.603	.70	.390
November.....	570	48	115	.466	.52	.301
December.....	2,410	63	529	2.14	2.47	1.38
January.....	2,720	256	637	2.58	2.97	1.67
February.....	256	88	122	.494	.51	.319
March.....	3,640	88	626	2.53	2.92	1.64
April.....	1,900	219	806	3.26	3.64	2.11
May.....	256	60	126	.510	.59	.330
June.....	1,780	60	207	.838	.94	.542
July 1-14.....	66	32	44.6	.181	.09	.117

Monthly discharge of Wills Creek near Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	-	46	290	1.17	1.35	0.756
November.....	1,670	156	396	1.60	1.78	1.03
December.....	605	-	314	1.27	1.46	.821
January.....	479	-	207	.838	.97	.542
February.....	585	-	283	1.15	1.20	.743
March.....	645	177	396	1.60	1.84	1.03
April.....	510	166	305	1.23	1.37	.795
May.....	238	63	121	.490	.56	.317
June.....	352	41	80.7	.327	.36	.211
July.....	38	16	25.0	.101	.12	.065
August.....	35	12	16.6	.067	.08	.043
September.....	26	11	15.8	.064	.07	.041
The year.....	-	11	204	.826	11.16	.534
1930-31						
October.....	15	10	11.9	.048	.06	.031
November.....	18	-	15.5	.063	.07	.041
December.....	63	-	31.6	.128	.15	.083
January.....	205	-	71.9	.291	.34	.188
February.....	232	44	137	.555	.58	.359
March.....	1,600	100	337	1.36	1.57	.879
April.....	2,130	172	628	2.54	2.83	1.64
May.....	3,040	222	918	3.72	4.29	2.40
June.....	506	63	173	.700	.78	.452
July.....	763	51	188	.761	.88	.492
August.....	330	32	118	.478	.55	.309
September.....	197	27	62.2	.252	.28	.163
The year.....	3,040	10	225	.911	12.38	.589
1931-32						
October.....	52	22	29.1	.118	.14	.076
November.....	31	20	22.3	.090	.10	.058
December.....	740	31	172	.696	.80	.450
January.....	830	106	326	1.32	1.52	.853
February.....	1,740	118	411	1.66	1.79	1.07
March.....	3,240	100	600	2.43	2.80	1.57
April.....	3,140	145	578	2.34	2.61	1.51
May.....	3,240	119	707	2.86	3.30	1.85
June.....	224	50	95.3	.386	.43	.249
July.....	79	28	41.6	.168	.19	.109
August.....	44	15	24.6	.100	.12	.065
September.....	16	10	12.1	.049	.05	.032
The year.....	3,240	10	252	1.02	13.85	.659
1932-33						
October.....	362	12	82.4	.334	.39	.216
November.....	1,320	81	343	1.39	1.55	.898
December.....	480	45	166	.672	.77	.454
January.....	1,120	131	317	1.28	1.48	.827
February.....	500	150	330	1.34	1.40	.866
March.....	5,800	200	1,160	4.70	5.42	3.04
April.....	4,690	331	1,150	4.66	5.20	3.01
May.....	4,430	236	888	3.60	4.15	2.33
June.....	209	52	109	.441	.49	.285
July.....	122	32	52.4	.212	.24	.137
August.....	318	22	46.8	.189	.22	.122
September.....	242	31	76.6	.310	.35	.200
The year.....	5,800	12	394	1.60	21.66	1.03
1933-34						
October.....	67	24	31.4	.127	.15	.082
November.....	64	25	43.3	.175	.20	.113
December.....	690	31	162	.656	.76	.424
January.....	3,880	100	529	2.14	2.47	1.38
February.....	150	40	76.1	.308	.32	.199
March.....	770	50	284	1.15	1.33	.743
April.....	1,500	146	457	1.85	2.06	1.20
May.....	141	69	101	.409	.47	.264
June.....	641	36	86.4	.350	.39	.226
July.....	103	22	41.3	.167	.19	.108
August.....	835	22	103	.417	.48	.270
September.....	606	24	114	.462	.52	.299
The year.....	3,880	22	170	.688	9.34	.445

Monthly discharge of Wills Creek near Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	362	37	83.3	0.337	0.39	0.218
November.....	980	64	222	.899	1.00	.581
December.....	1,080	108	338	1.37	1.58	.885
January.....	1,360	209	559	2.26	2.61	1.46
February.....	1,910	171	607	2.46	2.56	1.59
March.....	700	331	546	2.21	2.55	1.43
April.....	1,540	188	494	2.00	2.23	1.29
May.....	1,810	141	643	2.60	3.00	1.68
June.....	242	79	121	.490	.55	.317
July.....	141	46	71.8	.291	.34	.188
August.....	283	42	102	.413	.48	.267
September.....	613	42	137	.555	.62	.359
The year.....	1,910	37	326	1.32	17.91	.853
1935-36						
October.....	108	40	49.1	.199	.23	.129
November.....	379	44	115	.466	.52	.301
December.....	920	50	224	.907	1.05	.586
January.....	1,080	110	407	1.65	1.90	1.07
February.....	4,000	70	598	2.42	2.61	1.56
March.....	14,800	600	2,410	9.76	11.25	6.31
April.....	3,900	198	770	3.12	3.48	2.02
May.....	186	62	104	.421	.49	.272
June.....	760	46	122	.494	.55	.319
July.....	290	21	52.9	.214	.25	.138
August.....	290	28	59.5	.241	.28	.156
September.....	116	18	34.3	.139	.16	.090
The year.....	14,800	18	413	1.67	22.77	1.08
1936-37						
October.....	2,390	22	191	.773	.89	.500
November.....	2,530	46	249	1.01	1.13	.653
December.....	1,430	42	505	2.04	2.35	1.32
January.....	4,470	492	1,477	5.98	6.89	3.86
February.....	1,240	210	441	1.79	1.86	1.16
March.....	1,490	175	418	1.69	1.95	1.09
April.....	13,700	254	1,245	5.04	5.62	3.26
May.....	955	159	398	1.57	1.81	1.01
June.....	147	56	94.2	.381	.43	.246
July.....	98	28	50.3	.204	.24	.132
August.....	971	21	110	.445	.51	.288
September.....	227	27	68.8	.279	.31	.180
The year.....	13,700	21	437	1.77	23.99	1.14
1937-38						
October.....	6,070	26	557	2.26	2.61	1.46
November.....	674	139	264	1.07	1.19	.692
December.....	1,460	77	300	1.21	1.40	.782
January.....	1,360	97	284	1.15	1.33	.743
February.....	980	205	374	1.51	1.57	.976
March.....	2,560	191	584	2.36	2.72	1.53
April.....	607	193	367	1.49	1.66	.963
May.....	1,580	99	367	1.49	1.72	.963
June.....	267	69	126	.510	.57	.330
July.....	698	41	123	.493	.57	.322
August.....	94	21	44.8	.161	.21	.117
September.....	43	19	27.6	.112	.12	.072
The year.....	6,070	19	285	1.15	15.67	.743
1938-39						
October.....	26	19	21.5	.087	.10	.056
November.....	58	20	29.0	.117	.13	.076
December.....	131	30	56.6	.229	.26	.148
January.....	1,530	32	135	.781	.90	.505
February.....	2,770	293	1,014	4.11	4.28	2.66
March.....	2,530	225	761	3.08	3.55	1.99
April.....	2,580	343	779	3.15	3.51	2.04
May.....	1,120	94	293	1.19	1.37	.769
June.....	435	74	214	.866	.97	.560
July.....	1,640	66	211	.854	.98	.552
August.....	216	28	71.0	.287	.33	.185
September.....	70	19	28.6	.116	.13	.075
The year.....	2,770	19	301	1.22	16.51	.789

Monthly discharge of Wills Creek near Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	172	24	49.6	0.201	0.23	0.130
November.....	180	32	73.2	.296	.33	.191
December.....	144	33	62.5	.253	.29	.164
January.....	140	36	54.2	.219	.25	.142
February.....	1,100	39	291	1.18	1.27	.763
March.....	3,640	180	886	3.59	4.14	2.32
April.....	4,090	357	1,165	4.72	5.27	3.05
May.....	1,210	137	325	1.32	1.52	.853
June.....	1,070	112	318	1.29	1.44	.834
July.....	345	52	111	.449	.52	.290
August.....	984	34	154	.623	.72	.403
September.....	576	48	135	.547	.61	.354
The year.....	4,090	24	301	1.22	16.59	.789
1940-41						
October.....	121	42	54.5	.221	.25	.143
November.....	632	105	181	.733	.82	.474
December.....	1,180	160	498	1.98	2.28	1.28
January.....	609	119	273	1.11	1.28	.717
February.....	570	141	221	.895	.93	.578
March.....	1,200	146	553	2.24	2.58	1.45
April.....	3,820	137	618	2.50	2.79	1.62
May.....	170	71	112	.453	.52	.293
June.....	5,460	90	642	2.60	2.90	1.68
July.....	420	50	122	.494	.57	.319
August.....	83	28	45.4	.184	.21	.119
September.....	70	16	27.3	.111	.12	.072
The year.....	5,460	16	278	1.13	15.25	.730
1941-42						
October.....	27	16	19.9	.081	.09	.052
November.....	88	20	35.9	.145	.16	.094
December.....	839	21	110	.445	.51	.288
January.....	325	70	121	.490	.57	.317
February.....	929	80	330	1.34	1.39	.866
March.....	3,080	103	718	2.91	3.35	1.88
April.....	3,620	146	692	2.80	3.12	1.81
May.....	1,690	126	621	2.51	2.90	1.62
June.....	401	85	182	.737	.82	.476
July.....	249	40	82.9	.336	.39	.217
August.....	353	55	137	.555	.64	.359
September.....	363	38	84.5	.342	.38	.221
The year.....	3,620	16	261	1.06	14.32	.685
1942-43						
October.....	15,700	51	1,130	4.57	5.27	2.95
November.....	402	146	227	.919	1.03	.594
December.....	6,370	120	751	3.04	3.51	1.96
January.....	2,270	234	692	2.80	3.25	1.81
February.....	2,090	357	615	3.30	3.44	2.13
March.....	2,320	197	635	2.57	2.96	1.66
April.....	4,370	167	763	3.09	3.45	2.00
May.....	1,600	197	521	2.11	2.43	1.36
June.....	870	55	180	.729	.81	.471
July.....	255	35	61.8	.250	.29	.162
August.....	36	18	23.7	.096	.11	.062
September.....	20	11	14.7	.060	.07	.039
The year.....	15,700	11	484	1.96	26.60	1.27

Yearly discharge of Wills Creek near Cumberland, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	204	0.826	11.16	0.534	125	0.506	6.85	0.327
1931.....	225	.911	12.38	.589	239	.968	13.14	.626
1932.....	252	1.02	13.85	.659	282	1.14	15.52	.737
1933.....	394	1.59	21.66	1.03	365	1.48	20.06	.957
1934.....	170	.688	9.34	.445	204	.826	11.20	.534
1935.....	326	1.32	17.91	.853	304	1.23	16.74	.795
1936.....	413	1.67	22.77	1.08	460	1.86	25.34	1.20
1937.....	437	1.77	23.99	1.14	452	1.83	24.82	1.18
1938.....	285	1.15	15.67	.743	200	.810	10.96	.524
1939.....	301	1.22	16.51	.789	307	1.24	16.87	.801
1940.....	301	1.22	16.59	.789	346	1.40	19.09	.905
1941.....	278	1.13	15.25	.730	251	.955	12.66	.604
1942.....	261	1.06	14.32	.685	425	1.72	23.37	1.11
1943.....	484	1.96	26.60	1.27	-	-	-	-
Highest.....	484	1.96	26.60	1.27	460	1.86	25.34	1.20
Average.....	309	1.25	17.00	.808	303	1.23	16.66	.795
Lowest.....	170	.688	9.34	.445	125	.506	6.85	.327

Chesapeake & Ohio Canal at Cumberland, Md.

Location.- Staff gage, lat. 39°37'54", long. 78°46'16", at etop lock, 1.3 miles downstream from head at Cumberland, Allegany County. Prior to June 4, 1932, chain gage 1.1 miles downstream.

Records available.- October 1929 to September 1934.

Extremes.- Maximum daily discharge, 104 second-feet May 16, 1930; no flow at times.

Remarks.- Flow is diverted from North Branch Potomac River at dam 1.3 miles above station and returns at various points below station on North Branch Potomac River near Cumberland. Part of canal flow is sewage from city of Cumberland, which receives its water supply from Ewitts Creek.

Monthly discharge of Chesapeake & Ohio Canal at Cumberland, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October 25-31.....	37	26	31.6			
November.....	46	22	30.6			
December.....	27	21	24.6			
January.....	28	0	19.6			
February.....	37	13	26.7			
March.....	89	32	41.6			
April.....	41	0	34.7			
May.....	104	0	40.1			
June.....	46	21	28.9			
July.....	39	26	31.3			
August.....	34	26	31.4			
September.....	34	28	30.7			
1930-31						
October.....	31	28	29.3			
November.....	29	22	26.6			
December.....	22	13	18.0			
January.....	22	9.0	12.5			
February.....	23	13	18.7			
March.....	32	21	23.7			
April.....	33	19	23.2			
May.....	50	0	34.5			
June.....	40	24	30.2			
July.....	45	18	23.0			
August.....	28	16	22.0			
September.....	36	9.2	23.2			
The year.....	50	0	23.8			

Monthly discharge of Chesapeake & Ohio Canal at Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mila		
1932						
June.....	51	34	38.6			
July.....	43	6	37.4			
August.....	40	35	37.2			
September.....	37	25	31.4			
1932-33						
October.....	51	27	36.4			
November.....	38	16	28.5			
December.....	21	14	17.0			
January.....	28	10	14.9			
February.....	13	8	9.8			
March.....	29	4	14.8			
April.....	25	9	15.7			
May.....	50	12	28.6			
June.....	50	32	40.5			
July.....	47	29	36.8			
August.....	41	30	36.8			
September.....	-	-	30.0			
The year.....	51	4	25.9			
1933-34						
October.....	-	18	23.8			
November.....	22	18	19.8			
December.....	23	13	17.4			
January.....	28	17	22.0			
February.....	17	11	13.4			
March.....	18	10	12.9			
April.....	25	5	11.9			
May.....	35	4	20.7			
June.....	44	0	11.2			
July.....	-	0	3.5			
August.....	-	0	2.0			
September.....	-	0	1.7			
The year.....	44	0	13.4			

Evitts Creek near Bedford Valley, Pa.

Location.- Water-stage recorder, lat. 39°47'23", long. 78°38'48", 2 miles upstream from Thomas W. Koon Dam, 3 miles south of Bedford Valley post office, Bedford County, and 7 miles upstream from Rock Gully Creek. Datum of gage is 1,027.59 feet above mean sea level (city of Cumberland bench mark).

Drainage area.- 30.2 square miles.

Records available.- September 1932 to September 1943.

Extremes.- Maximum discharge, 5,240 second-feet Mar. 17, 1936 (gage height, 7.13 feet), by slope-area method; minimum, 1.2 second-feet July 27, 1934 (gage height, 0.96 foot).

Maximum stage known, about 8 feet, from floodmark, date unknown.

Monthly discharge of Evitts Creek near Bedford Valley, Pa.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932						
September 3-30.....	3.2	1.7	1.90	0.063	0.07	0.041
1932-33						
October.....	28	2.0	6.24	.207	.24	.134
November.....	202	6.6	29.8	.987	1.10	.638
December.....	34	6.6	14.8	.490	.56	.317
January.....	259	12	31.2	1.03	1.19	.666
February.....	40	21	28.8	.854	.99	.617
March.....	430	19	104	3.44	3.97	2.22
April.....	323	37	103	3.41	3.80	2.20
May.....	402	26	83.8	2.77	3.19	1.79
June.....	25	6.1	12.9	.427	.48	.276
July.....	17	3.6	5.56	.184	.21	.119
August.....	62	2.9	6.81	.225	.26	.145
September.....	24	4.0	7.53	.249	.28	.161
The year.....	430	2.0	36.3	1.20	16.27	.776

Monthly discharge of Ewitts Creek near Bedford Valley, Pa.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933-34						
October.....	11.5	3.4	4.69	0.155	0.18	0.100
November.....	12	3.6	4.69	.155	.17	.100
December.....	40	3.4	12.1	.401	.46	.259
January.....	301	12	47.7	1.58	1.92	1.02
February.....	12	5.0	7.88	.261	.27	.169
March.....	64	6.0	17.7	.586	.68	.379
April.....	84	15	35.6	1.18	1.32	.763
May.....	16.5	6.9	11.2	.371	.43	.240
June.....	55	3.1	7.17	.237	.26	.153
July.....	8.5	1.5	2.94	.097	.11	.063
August.....	56	1.8	5.71	.189	.22	.122
September.....	71	1.8	9.09	.301	.34	.195
The year.....	301	1.5	13.9	.460	6.26	.297
1934-35						
October.....	15	3.8	6.35	.210	.24	.136
November.....	49	4.6	12.7	.421	.47	.272
December.....	73	12	25.3	.838	.97	.542
January.....	130	16.5	45.9	1.52	1.75	.982
February.....	186	13	54.2	1.79	1.86	1.16
March.....	73	37	53.7	1.78	2.05	1.15
April.....	134	22	52.6	1.74	1.94	1.12
May.....	189	15	61.0	2.02	2.37	1.31
June.....	25	7.2	12.4	.411	.46	.266
July.....	38	3.6	8.54	.283	.33	.183
August.....	74	4.6	15.5	.513	.59	.332
September.....	84	4.8	12.0	.397	.44	.257
The year.....	189	3.6	29.9	.990	13.43	.640
1935-36						
October.....	11	4.0	5.04	.167	.19	.108
November.....	95	4.4	11.7	.387	.43	.250
December.....	64	6.1	18.3	.606	.70	.392
January.....	71	12	30.1	.997	1.15	.644
February.....	540	6	68.2	2.26	2.44	1.46
March.....	1,990	69	291	9.64	11.11	6.23
April.....	346	22	68.0	2.25	2.51	1.45
May.....	35	9.2	16.0	.530	.61	.343
June.....	21	4.8	8.56	.283	.32	.183
July.....	37	2.2	5.96	.197	.23	.127
August.....	10	2.6	4.18	.138	.16	.089
September.....	4.0	2.2	2.73	.090	.10	.058
The year.....	1,990	2.2	44.2	1.46	19.95	.944
1936-37						
October.....	240	2.6	14.7	.487	.56	.315
November.....	90	5.7	14.5	.480	.54	.310
December.....	105	5.2	53.3	1.76	2.03	1.14
January.....	305	49	119	3.94	4.54	2.55
February.....	168	32	54.5	1.80	1.97	1.16
March.....	64	24	33.8	1.12	1.29	.724
April.....	1,450	22	129	4.27	4.76	2.76
May.....	113	16	42.4	1.40	1.61	.905
June.....	19	6.8	11.6	.384	.43	.248
July.....	9.8	3.4	6.04	.200	.23	.129
August.....	168	2.7	14.8	.490	.56	.317
September.....	28	4.2	8.00	.265	.30	.171
The year.....	1,450	2.6	41.7	1.38	18.72	.892
1937-38						
October.....	726	4.2	55.5	1.84	2.12	1.19
November.....	73	16	29.0	.960	1.07	.620
December.....	117	10	24.7	.818	.94	.529
January.....	326	13	34.1	1.13	1.30	.730
February.....	53	20	31.6	1.05	1.09	.679
March.....	153	17	48.8	1.62	1.87	1.05
April.....	47	19	29.6	.980	1.09	.633
May.....	74	12	27.0	.894	1.03	.578
June.....	36	7.4	14.2	.470	.52	.304
July.....	95	4.2	16.9	.560	.65	.362
August.....	16	3.2	7.04	.233	.27	.151
September.....	8.2	2.9	4.70	.156	.17	.101
The year.....	726	2.9	27.0	.894	12.12	.578

Monthly discharge of Ewitts Creek near Bedford Valley, Pa.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	6.8	3.2	3.69	0.122	0.14	0.079
November.....	13	3.0	5.11	.169	.19	.109
December.....	74	5.5	12.3	.407	.47	.263
January.....	145	6.8	23.0	.762	.88	.492
February.....	337	27	87.9	2.91	3.03	1.88
March.....	190	28	69.3	2.29	2.64	1.48
April.....	164	42	70.3	2.33	2.60	1.51
May.....	82	11	27.5	.911	1.05	.589
June.....	59	9.0	21.8	.722	.81	.467
July.....	684	6.8	41.7	1.38	1.59	.892
August.....	47	5.2	14.0	.464	.53	.300
September.....	15	3.2	5.23	.173	.19	.112
The year.....	684	3.0	31.4	1.04	14.12	.672
1939-40						
October.....	39	4.0	7.64	.253	.29	.164
November.....	22	5.2	8.93	.296	.33	.191
December.....	17	5.2	7.14	.236	.27	.153
January.....	75	5.5	10.6	.351	.40	.227
February.....	71	6.5	33.4	1.11	1.20	.717
March.....	336	26	79.1	2.62	3.02	1.69
April.....	455	41	104	3.44	3.94	2.22
May.....	58	17	26.3	.871	1.00	.563
June.....	101	12	32.6	1.08	1.20	.698
July.....	21	4.6	8.45	.280	.32	.181
August.....	42	2.9	7.17	.237	.27	.153
September.....	29	3.8	6.57	.218	.24	.141
The year.....	455	2.9	27.5	.911	12.38	.589
1940-41						
October.....	10	3.2	4.33	.143	.17	.092
November.....	38	5.7	10.5	.348	.39	.225
December.....	100	9.0	32.0	1.06	1.22	.685
January.....	45	14	21.2	.702	.81	.454
February.....	47	12	18.2	.603	.63	.390
March.....	71	14	36.8	1.28	1.48	.827
April.....	231	14	42.9	1.42	1.58	.918
May.....	14	5.7	10.4	.344	.40	.222
June.....	522	10	62.7	2.08	2.32	1.34
July.....	61	5.7	12.3	.407	.47	.263
August.....	6.8	3.0	4.51	.149	.17	.096
September.....	11	2.0	3.18	.105	.12	.068
The year.....	522	2.0	21.7	.719	9.76	.465
1941-42						
October.....	3.4	2.0	2.59	.086	.10	.056
November.....	12	2.7	4.13	.137	.15	.088
December.....	109	3.2	10.7	.354	.41	.229
January.....	23	5.7	10.9	.361	.42	.233
February.....	96	7.4	22.9	.758	.79	.490
March.....	594	10	70.9	2.35	2.71	1.52
April.....	297	19	64.6	2.14	2.39	1.38
May.....	264	16	56.9	1.98	2.17	1.22
June.....	64	11	25.2	.834	.93	.539
July.....	62	5.2	12.6	.417	.48	.270
August.....	43	7.4	17.4	.576	.67	.372
September.....	78	5.0	11.4	.377	.42	.244
The year.....	594	2.0	25.9	.858	11.64	.555
1942-43						
October.....	1,330	10	116	3.84	4.42	2.48
November.....	39	17	23.4	.775	.86	.501
December.....	698	19	70.6	2.34	2.70	1.51
January.....	161	30	60.1	1.99	2.29	1.29
February.....	151	37	74.0	2.45	2.55	1.58
March.....	216	26	60.0	1.99	2.29	1.29
April.....	341	20	74.6	2.47	2.76	1.60
May.....	133	25	50.5	1.67	1.93	1.08
June.....	51	6.8	15.4	.510	.57	.330
July.....	9.7	3.6	5.66	.187	.22	.121
August.....	4.5	2.4	2.98	.099	.11	.064
September.....	2.9	2.3	2.49	.082	.09	.053
The year.....	1,330	2.3	46.3	1.53	20.79	.989

Yearly Discharge of Evitte Creek near Bedford Vallay, Pa.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per aquara mile			Mean	Per equara mile		
1933.....	36.3	1.20	16.27	0.776	33.9	1.12	15.18	0.724
1934.....	13.9	.460	6.26	.297	15.8	.523	7.13	.338
1936.....	29.9	.990	13.43	.640	25.6	.848	13.07	.548
1936.....	44.2	1.46	19.95	.944	48.2	1.60	21.76	1.03
1937.....	41.7	1.38	18.72	.892	43.9	1.45	19.72	.937
1938.....	27.0	.894	12.12	.578	19.6	.649	8.79	.419
1939.....	31.4	1.04	14.12	.672	31.6	1.05	14.21	.679
1940.....	27.5	.911	12.38	.589	29.5	.977	13.27	.631
1941.....	21.7	.719	9.76	.465	19.2	.636	8.64	.411
1942.....	25.9	.858	11.64	.555	42.2	1.40	18.96	.905
1943.....	46.3	1.53	20.79	.989	-	-	-	-
Highest.....	46.3	1.53	20.79	.989	48.2	1.60	21.76	1.03
Average.....	31.4	1.04	14.13	.672	31.0	1.03	14.07	.666
Lowest.....	13.9	.460	6.26	.297	15.8	.523	7.13	.338

Evitte Creek near Cumberland, Md.

Location.- Water-stage recorder, lat. 39°39'50", long. 78°43'51", at Cumberland Country Club, 2.5 miles northeast of Cumberland, Allegany County, and 3.3 miles upstream from mouth. Datum of gage is 626.15 feet above mean sea level (city of Cumberland bench mark). Prior to October 18, 1929 chain gage at same site and datum.

Drainage area.- 89.0 square miles.

Records available.- August 1929 to November 1932.

Extremes.- Maximum discharge, 1,290 second-feet Oct. 22, 1929 (gage height, 6.26 feet); minimum, 0.7 second-foot July 15, 1932.

Remarks.- Flow affected by storage and diversion at Koon Dam (drainage area 44.8 square miles) and Gordon Dam (drainage area 52.4 square miles) of city of Cumberland water supply. Storage and diversion figures can be obtained from office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Evitte Creek near Cumberland, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929						
August 8-31.....	11	4	6.3			
September.....	33	5	11.3			
1929-30						
October.....	745	12	105			
November.....	362	-	94.2			
December.....	132	-	50.8			
January.....	82	-	39.5			
February.....	152	-	50.3			
March.....	118	-	62.6			
April.....	115	32	55.2			
May.....	86	12	30.2			
June.....	68	4.9	12.9			
July.....	12	2.3	5.53			
August.....	6.2	1.3	2.54			
September.....	4.7	1.2	2.29			
The year.....	745	1.2	42.5			

Monthly discharge of Evitts Creek near Cumberland, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930-31						
October.....	4.3	1.4	2.59			
November.....	5.4	2.0	3.64			
December.....	39	-	5.63			
January.....	39	-	8.23			
February.....	26	-	7.15			
March.....	154	9.3	23.4			
April.....	186	28	89.2			
May.....	608	33	192			
June.....	87	5.8	26.9			
July.....	470	7.4	76.7			
August.....	36	8.7	17.0			
September.....	69	7.0	16.0			
The year.....	608	1.4	39.3			
1931-32						
October.....	14	7.2	10.3			
November.....	9.9	3.2	6.29			
December.....	50	3.5	15.8			
January.....	192	20	55.5			
February.....	465	29	99.7			
March.....	450	21	108			
April.....	350	17	82.1			
May.....	712	18	138			
June.....	76	7.6	19.5			
July.....	16	3.4	8.29			
August.....	14	4.2	7.09			
September.....	11	3.6	7.37			
The year.....	712	3.2	46.4			
1932						
October.....	32	7.2	12.5			
November.....	242	12	34.3			

Patterson Creek near Readeville, W. Va.

Location.- Wire-weight gage, lat. 39°26'36", long. 78°50'11", on highway bridge, 150 feet downstream from Cabin Run and 3½ miles northeast of Headeville, Mineral County.

Date of gage is 631.04 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area - 216 square miles.

Records available.- August 1938 to September 1943.

Extremes.- Maximum discharge, 15,300 second-feet Oct. 15, 1942 (gage height, 13.00 feet); minimum observed, 4.7 second-feet Sept. 29, 30, 1941.

Maximum discharge known, 16,000 second-feet Mar. 17, 1936 (gage height, 17.2 feet, from floodmarks) by slope-area determination.

Monthly discharge of Patterson Creek near Headsville, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938						
September.....	52	9.1	19.7	0.091	0.10	0.059
1938-39						
October.....	21	10	12.9	.060	.07	.039
November.....	42	12	20.6	.095	.11	.061
December.....	810	19	83.6	.387	.45	.250
January.....	1,720	28	216	1.00	1.15	.646
February.....	3,720	96	690	3.19	3.33	2.06
March.....	1,510	85	363	1.68	1.94	1.09
April.....	2,540	126	436	2.02	2.25	1.31
May.....	291	34	101	.468	.54	.302
June.....	383	23	66.2	.306	.34	.198
July.....	1,370	23	141	.653	.75	.422
August.....	102	14	28.9	.134	.15	.087
September.....	61	8.4	18.4	.085	.09	.055
The year.....	3,720	8.4	178	.824	11.17	.533

Monthly discharge of Patterson Creek near Headsville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	85	12	24.2	0.112	0.13	0.072
November.....	132	20	41.5	.192	.21	.124
December.....	34	16	22.7	.105	.12	.068
January.....	100	13	26.8	.124	.14	.080
February.....	760	18	188	.870	.94	.562
March.....	1,440	74	247	1.14	1.31	.737
April.....	3,500	166	752	3.48	3.88	2.25
May.....	4,020	43	274	1.27	1.46	.821
June.....	1,580	53	379	1.75	1.95	1.13
July.....	245	16	50.0	.231	.27	.149
August.....	440	8.8	42.9	.199	.23	.129
September.....	275	13	49.6	.230	.26	.149
The year.....	4,020	8.8	173	.801	10.90	.518
1940-41						
October.....	36	16	21.6	.100	.12	.065
November.....	305	32	84.3	.390	.44	.252
December.....	759	61	199	.921	1.06	.595
January.....	660	69	202	.935	1.08	.604
February.....	140	34	79.4	.368	.38	.238
March.....	1,130	34	267	1.24	1.42	.801
April.....	1,250	43	194	.898	1.00	.580
May.....	53	17	30.9	.143	.17	.092
June.....	1,390	18	133	.616	.68	.398
July.....	1,620	18	200	.926	1.06	.598
August.....	129	9.5	27.9	.129	.15	.083
September.....	18	4.7	9.24	.043	.05	.028
The year.....	1,620	4.7	121	.560	7.61	.362
1941-42						
October.....	17	5.6	11.4	.053	.06	.034
November.....	42	9.3	17.1	.079	.09	.051
December.....	152	11	33.3	.154	.18	.100
January.....	163	19	54.1	.250	.29	.162
February.....	540	39	110	.509	.53	.329
March.....	1,300	36	285	1.32	1.52	.853
April.....	2,380	52	284	1.31	1.47	.847
May.....	3,190	26	304	1.41	1.62	.911
June.....	433	30	113	.523	.58	.338
July.....	36	7.0	17.0	.079	.09	.051
August.....	1,410	8.2	197	.912	1.05	.659
September.....	298	22	83.2	.395	.43	.249
The year.....	3,190	5.6	126	.583	7.91	.377
1942-43						
October.....	11,100	26	745	3.45	3.98	2.23
November.....	270	48	93.7	.434	.48	.281
December.....	4,020	100	504	2.33	2.69	1.51
January.....	1,240	98	313	1.45	1.67	.937
February.....	2,480	87	504	2.33	2.43	1.51
March.....	1,150	80	327	1.51	1.74	.976
April.....	1,420	67	217	1.00	1.12	.646
May.....	350	53	110	.509	.59	.329
June.....	77	13	28.3	.131	.15	.085
July.....	340	12	43.4	.201	.23	.130
August.....	51	6.4	13.1	.061	.07	.039
September.....	18	5.4	8.53	.039	.04	.025
The year.....	11,100	5.4	242	1.12	15.19	.724

Yearly discharge of Patterson Creek near Headsville, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	178	0.824	11.17	0.533	175	0.810	11.00	0.524
1940.....	173	.801	10.90	.518	191	.884	12.06	.571
1941.....	121	.560	7.61	.362	101	.468	6.32	.302
1942.....	126	.583	7.91	.377	235	1.09	14.73	.704
1943.....	242	1.12	15.19	.724	-	-	-	-

Patterson Creek at Alaska, W. Va.

Location.- Chain gage, lat. 39°30'36", long. 78°46'27", at highway bridge a quarter of a mile north of Alaska, Mineral County, and 1.2 miles upstream from Turners Run.

Drainage area.- 249 square miles.

Records available.- June 1930 to September 1931.

Extremes.- Maximum discharge, 3,850 second-feet May 13, 1931 (gage height, 8.20 feet), from rating curve extended above 200 second-feet; minimum observed, 0.4 second-foot Aug. 2-5, 1930.

Monthly discharge of Patterson Creek at Alaska, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930						
June 3-30.....	76	6.8	20.2	0.081	0.08	0.052
July.....	10	1.9	5.48	.022	.03	.014
August.....	8.4	.4	3.58	.014	.02	.009
September.....	62	2.1	8.71	.035	.04	.023
1930-31						
October.....	8.6	3.3	4.69	.019	.02	.012
November.....	8.6	4.8	7.55	.030	.03	.019
December.....	40	2.3	13.8	.055	.05	.036
January.....	340	-	48.4	.194	.22	.125
February.....	490	-	79.2	.318	.33	.206
March.....	1,810	44	209	.839	.97	.542
April.....	1,690	46	451	1.73	1.93	1.12
May.....	2,930	56	630	2.53	2.92	1.64
June.....	440	15	68.0	.273	.30	.176
July.....	335	13	41.2	.165	.19	.107
August.....	73	8.0	24.2	.097	.11	.063
September.....	52	11	21.3	.086	.10	.056
The year.....	2,930	2.3	132	.530	7.18	.343

South Branch Potomac River at Franklin, W. Va.

Location.- Water-stage recorder, lat. 38°38'14", long. 79°20'14", half a mile southwest of Franklin, Pendleton County, and 2 miles upstream from Friends Run. Datum of gage is 1,692.5 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 182 square miles.

Records available.- April 1940 to September 1943.

Extremes.- Maximum discharge, 10,100 second-feet May 16, 1942 (gage height, 8.69 feet); minimum, 23 second-feet Oct. 9, 10, 26, 1941 (gage height, 1.48 feet). Maximum stage known, about 13 feet March 1936.

Monthly discharge of South Branch Potomac River at Franklin, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940						
April 5-30.....	1,500	136	376	2.07	2.00	1.34
May.....	3,640	74	327	1.80	2.07	1.16
June.....	1,870	126	664	3.65	4.07	2.36
July.....	271	54	90.5	.497	.57	.321
August.....	374	50	128	.703	.81	.454
September.....	424	51	97.8	.537	.60	.347
1940-41						
October.....	61	43	48.6	.267	.31	.173
November.....	162	48	78.7	.432	.48	.279
December.....	294	59	109	.599	.69	.387
January.....	189	79	120	.659	.76	.426
February.....	103	49	69.1	.380	.40	.246
March.....	246	48	135	.742	.86	.480
April.....	906	76	236	1.30	1.44	.840
May.....	81	43	59.3	.326	.38	.211
June.....	153	36	62.6	.344	.38	.222
July.....	154	37	63.4	.348	.40	.225
August.....	88	27	40.8	.224	.26	.145
September.....	103	26	43.4	.238	.27	.154
The year.....	906	26	88.8	.488	6.63	.315

Monthly discharge of South Branch Potomac River at Franklin, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	36	24	27.1	0.149	0.17	0.096
November.....	57	28	35.1	.193	.21	.125
December.....	439	31	87.9	.483	.56	.312
January.....	175	57	87.2	.479	.55	.310
February.....	447	69	136	.747	.78	.483
March.....	1,070	61	233	1.28	1.48	.827
April.....	207	64	121	.665	.74	.430
May.....	4,380	53	616	3.38	3.90	2.18
June.....	651	65	211	1.16	1.30	.750
July.....	74	37	48.9	.269	.31	.174
August.....	972	34	316	1.74	2.00	1.12
September.....	248	45	83.2	.457	.51	.295
The year.....	4,380	24	168	.923	12.51	.597
1942-43						
October.....	1,230	50	205	1.13	1.30	.730
November.....	263	81	132	.725	.81	.469
December.....	2,770	80	342	1.88	2.17	1.22
January.....	764	139	297	1.63	1.88	1.05
February.....	1,200	154	389	2.14	2.23	1.58
March.....	1,210	92	442	2.43	2.80	1.57
April.....	1,270	131	294	1.62	1.81	1.05
May.....	363	116	187	1.03	1.18	.666
June.....	279	81	148	.813	.91	.525
July.....	1,820	77	274	1.51	1.74	.976
August.....	94	43	57.3	.315	.36	.204
September.....	61	33	38.9	.214	.24	.138
The year.....	2,770	33	234	1.29	17.43	.834

Yearly discharge of South Branch Potomac River at Franklin, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1941.....	88.8	0.488	6.63	0.315	81.5	0.448	6.09	0.290
1942.....	168	.923	12.51	.597	213	1.17	15.85	.756
1943.....	234	1.29	17.43	.834	-	-	-	-

South Branch Potomac River near Petersburg, W. Va.

Location.- Water-stage recorder, lat. 38°59'34", long. 79°10'26", 1.2 miles downstream from North Fork of South Branch Potomac River and 2½ miles west of Petersburg, Grant County. Datum of gage is 962.00 feet above mean sea level, adjustment of 1912.

Prior to Dec. 4, 1929 staff gage 100 feet downstream on left bank, present datum. Drainage area.- 642 square miles.

Records available.- June 1928 to September 1943.

Extremes.- Maximum discharge, 63,400 second-feet Mar. 17, 1936 (gage height, 20.3 feet), by slope-area determination; minimum, 43 second-feet Oct. 2, 1930.

Maximum stage known, 21.2 feet, sometime in 1877, from floodmarks (discharge, about 70,000 second-feet).

Remarks.- Regulation by power plant 800 feet above gage.

Monthly discharge of South Branch Potomac River near Petersburg, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
June 26-30.....	1,200	704	915	1.43	0.27	0.924
July.....	854	155	348	.542	.62	.350
August.....	1,700	150	459	.715	.82	.462
September.....	480	153	240	.374	.42	.242
1928-29						
October.....	262	123	159	.248	.29	.160
November.....	525	147	251	.391	.44	.253
December.....	2,910	297	607	.945	1.09	.611
January.....	1,480	-	635	.989	1.14	.639
February.....	5,250	-	681	1.06	1.10	.685
March.....	5,010	622	1,450	2.26	2.61	1.46
April.....	3,990	525	1,390	2.17	2.42	1.40
May.....	4,590	530	1,380	2.15	2.48	1.39
June.....	1,700	334	629	.980	1.09	.633
July.....	301	123	182	.283	.33	.183
August.....	144	64	97.7	.152	.18	.098
September.....	128	62	83.5	.130	.14	.084
The year.....	5,250	62	629	.980	13.31	.633
1929-30						
October.....	4,630	96	793	1.24	1.43	.801
November.....	5,450	345	975	1.52	1.70	.982
December.....	1,080	-	610	.950	1.10	.614
January.....	860	-	427	.665	.77	.430
February.....	748	-	507	.790	.82	.511
March.....	1,390	425	819	1.28	1.48	.827
April.....	1,600	297	649	1.01	1.13	.653
May.....	350	140	233	.363	.42	.235
June.....	561	97	164	.255	.28	.165
July.....	97	49	70.5	.110	.13	.071
August.....	66	47	54.1	.084	.10	.054
September.....	62	44	52.3	.081	.09	.052
The year.....	5,450	44	446	.695	9.45	.449
1930-31						
October.....	57	44	49.3	.077	.09	.050
November.....	71	50	62.7	.098	.11	.063
December.....	214	-	101	.157	.18	.101
January.....	930	86	284	.442	.51	.286
February.....	1,040	189	434	.676	.70	.437
March.....	1,780	280	635	.989	1.14	.639
April.....	3,500	435	1,350	2.10	2.34	1.36
May.....	2,310	415	982	1.53	1.76	.989
June.....	4,030	264	787	1.23	1.37	.785
July.....	773	117	241	.375	.43	.242
August.....	2,050	97	444	.692	.80	.447
September.....	278	101	154	.240	.27	.155
The year.....	4,030	44	459	.715	9.70	.462
1931-32						
October.....	172	72	102	.159	.18	.103
November.....	92	68	82.0	.128	.14	.083
December.....	613	96	273	.425	.49	.275
January.....	2,140	272	698	1.09	1.26	.704
February.....	10,400	306	1,360	2.12	2.29	1.37
March.....	5,380	273	1,620	2.52	2.90	1.63
April.....	3,960	412	1,010	1.57	1.75	1.01
May.....	5,340	297	1,500	2.34	2.70	1.51
June.....	684	159	281	.439	.49	.283
July.....	1,760	102	403	.628	.72	.406
August.....	144	59	93.6	.146	.17	.094
September.....	110	50	60.0	.093	.10	.060
The year.....	10,400	50	622	.969	13.19	.626

Monthly discharge of South Branch Potomac River near Petersburg, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	1,870	57	307	0.478	0.55	0.309
November.....	2,790	233	788	1.23	1.37	.795
December.....	1,470	171	447	.696	.80	.450
January.....	1,600	321	708	1.10	1.27	.711
February.....	1,780	694	1,110	1.73	1.80	1.12
March.....	5,080	582	1,560	2.43	2.80	1.57
April.....	6,920	841	2,060	3.21	3.58	2.07
May.....	4,000	694	1,620	2.52	2.90	1.63
June.....	582	141	272	.424	.47	.274
July.....	1,900	119	316	.492	.57	.318
August.....	6,350	152	624	.972	1.12	.628
September.....	942	166	375	.584	.66	.377
The year.....	6,920	57	847	1.32	17.23	.853
1933-34						
October.....	154	102	122	.190	.22	.123
November.....	424	102	188	.293	.33	.189
December.....	1,080	160	400	.623	.72	.403
January.....	2,010	210	629	.980	1.13	.633
February.....	300	130	212	.330	.34	.213
March.....	4,630	180	1,590	2.48	2.86	1.60
April.....	1,390	312	746	1.16	1.29	.750
May.....	757	226	370	.576	.66	.372
June.....	452	120	199	.310	.35	.200
July.....	207	59	101	.157	.18	.101
August.....	154	62	89.1	.139	.16	.090
September.....	1,040	55	176	.274	.31	.177
The year.....	4,630	55	405	.631	8.55	.408
1934-35						
October.....	645	86	166	.259	.30	.167
November.....	2,100	98	346	.539	.60	.348
December.....	4,000	250	829	1.29	1.49	.834
January.....	7,430	358	1,350	2.10	2.42	1.36
February.....	3,570	504	1,504	2.34	2.44	1.51
March.....	4,520	620	1,506	2.35	2.71	1.52
April.....	4,900	541	1,936	3.02	3.37	1.95
May.....	2,570	450	982	1.53	1.76	.989
June.....	546	180	368	.573	.64	.370
July.....	1,230	200	408	.636	.73	.411
August.....	1,430	177	675	1.05	1.21	.679
September.....	4,900	148	733	1.14	1.27	.737
The year.....	7,430	86	896	1.40	18.94	.905
1935-36						
October.....	256	109	143	.223	.26	.144
November.....	1,610	125	438	.682	.76	.441
December.....	1,620	300	606	.944	1.09	.610
January.....	3,240	380	1,421	2.21	2.55	1.43
February.....	7,950	360	1,818	2.83	3.05	1.83
March.....	36,400	1,010	4,703	7.33	8.45	4.74
April.....	5,120	440	1,454	2.26	2.52	1.46
May.....	542	261	381	.593	.68	.383
June.....	536	145	262	.408	.46	.264
July.....	1,720	142	342	.533	.61	.344
August.....	257	98	158	.215	.25	.139
September.....	102	69	80.8	.126	.14	.0814
The year.....	36,400	69	982	1.53	20.82	.989
1936-37						
October.....	3,500	84	375	.584	.67	.377
November.....	494	136	226	.352	.39	.228
December.....	2,390	121	886	1.38	1.59	.892
January.....	9,620	997	2,498	3.89	4.48	2.51
February.....	2,180	692	1,118	1.74	1.81	1.12
March.....	3,020	496	895	1.39	1.60	.898
April.....	13,500	373	1,503	2.34	2.61	1.51
May.....	1,770	505	788	1.23	1.42	.795
June.....	520	194	307	.478	.53	.309
July.....	344	98	155	.241	.28	.156
August.....	1,520	78	244	.380	.44	.246
September.....	2,110	118	399	.621	.69	.401
The year.....	13,500	78	782	1.22	16.51	.789

Monthly discharge of South Branch Potomac River near Petersburg, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	17,600	112	1,825	2.84	3.27	1.84
November.....	1,660	246	530	.826	.92	.534
December.....	1,070	250	512	.798	.92	.516
January.....	2,790	274	664	1.03	1.19	.666
February.....	2,110	431	826	1.29	1.34	.834
March.....	1,320	470	868	1.35	1.56	.873
April.....	1,150	396	590	.919	1.03	.594
May.....	5,110	258	1,115	1.74	2.01	1.12
June.....	1,930	234	676	1.05	1.17	.679
July.....	1,540	136	406	.632	.73	.408
August.....	1,040	96	333	.519	.60	.335
September.....	330	90	146	.227	.25	.147
The year.....	17,600	90	709	1.10	14.99	.711
1938-39						
October.....	130	76	92.9	.145	.17	.094
November.....	354	96	173	.269	.30	.174
December.....	929	182	372	.579	.67	.374
January.....	10,900	200	1,210	1.88	2.17	1.22
February.....	11,600	781	2,680	4.49	4.67	2.90
March.....	3,860	420	1,495	2.33	2.69	1.51
April.....	7,450	360	1,324	2.06	2.30	1.33
May.....	925	390	556	.866	1.00	.560
June.....	1,060	184	375	.584	.65	.377
July.....	4,900	113	1,085	1.69	1.95	1.09
August.....	1,420	176	411	.640	.74	.414
September.....	190	86	123	.192	.21	.124
The year.....	11,600	76	829	1.29	17.52	.834
1939-40						
October.....	534	92	156	.243	.28	.157
November.....	194	110	140	.218	.24	.141
December.....	429	106	179	.279	.32	.180
January.....	450	96	183	.285	.33	.184
February.....	3,190	130	694	1.08	1.16	.698
March.....	4,210	432	1,010	1.57	1.81	1.01
April.....	6,100	736	1,923	3.00	3.34	1.94
May.....	16,400	280	1,388	2.16	2.49	1.40
June.....	5,660	376	1,794	2.79	3.12	1.80
July.....	1,000	151	303	.472	.54	.305
August.....	1,550	117	380	.592	.68	.383
September.....	1,410	122	301	.469	.52	.303
The year.....	16,400	92	701	1.09	14.83	.704
1940-41						
October.....	184	118	149	.232	.27	.150
November.....	731	184	311	.484	.54	.313
December.....	849	252	436	.679	.78	.439
January.....	773	296	503	.783	.90	.506
February.....	425	170	266	.414	.43	.268
March.....	1,380	170	708	1.10	1.27	.711
April.....	4,220	278	1,061	1.65	1.84	1.07
May.....	636	152	242	.377	.43	.244
June.....	1,480	136	362	.564	.63	.365
July.....	1,170	106	330	.514	.59	.332
August.....	870	68	213	.332	.38	.215
September.....	246	72	135	.210	.23	.136
The year.....	4,220	68	393	.612	8.29	.396
1941-42						
October.....	86	66	73.1	.114	.13	.074
November.....	226	82	117	.182	.20	.116
December.....	1,250	105	277	.431	.50	.279
January.....	575	183	290	.452	.52	.292
February.....	1,240	270	550	.857	.89	.554
March.....	3,750	210	991	1.54	1.78	.995
April.....	1,330	280	627	.977	1.09	.631
May.....	15,700	218	2,066	3.25	3.75	2.10
June.....	1,460	187	497	.774	.86	.500
July.....	208	94	144	.224	.26	.145
August.....	3,400	112	960	1.50	1.72	.969
September.....	650	130	246	.383	.43	.248
The year.....	15,700	66	574	.894	12.13	.578

Monthly discharge of South Branch Potomac River near Petersburg, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	4,870	154	773	1.20	1.39	0.776
November.....	1,440	291	582	1.907	1.01	.586
December.....	9,740	300	1,459	2.27	2.62	1.47
January.....	3,130	539	1,292	2.01	2.32	1.30
February.....	5,180	642	1,637	2.63	2.74	1.70
March.....	4,420	419	1,726	2.69	3.10	1.74
April.....	6,000	488	1,231	1.92	2.14	1.24
May.....	1,960	414	859	1.34	1.54	.866
June.....	748	174	371	1.578	.65	.374
July.....	4,250	183	780	1.21	1.40	.782
August.....	404	100	160	1.249	.29	.161
September.....	171	74	92.7	1.144	.16	.093
The year.....	9,740	74	915	1.43	19.36	.924

Yearly discharge of South Branch Potomac River near Petersburg, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	629	0.980	13.31	0.633	742	1.16	15.72	0.750
1930.....	446	.695	9.45	.449	264	.411	5.60	.266
1931.....	459	.715	9.70	.462	479	.746	10.13	.482
1932.....	622	.969	13.19	.626	712	1.11	15.10	.717
1933.....	847	1.32	17.23	.853	778	1.21	15.78	.782
1934.....	405	.631	8.55	.403	459	.713	9.67	.461
1935.....	896	1.40	13.94	.905	883	1.38	18.66	.842
1936.....	982	1.53	20.82	.989	1,008	1.57	21.36	1.01
1937.....	782	1.22	16.51	.789	898	1.40	18.97	.905
1938.....	709	1.10	14.99	.711	521	.812	11.02	.525
1939.....	829	1.29	17.52	.834	815	1.27	17.22	.821
1940.....	701	1.09	14.83	.704	736	1.15	15.58	.743
1941.....	393	.612	8.29	.396	357	.556	7.53	.359
1942.....	574	.894	12.13	.578	772	1.20	16.32	.776
1943.....	915	1.43	19.36	.924	-	-	-	-
Highest.....	982	1.53	20.82	.989	1,008	1.57	21.36	1.01
Average.....	679	1.06	14.32	.685	673	1.05	14.19	.679
Lowest.....	393	.612	8.29	.396	264	.411	5.60	.266

South Branch Potomac River near Springfield, W. Va.

Location.- Water-stage recorder, lat. 39°26'49", long. 78°39'16", at highway bridge 2 miles east of Springfield, Hampshire County, and 13 miles upstream from confluence with North Branch. Datum of gage is 562.00 feet above mean sea level, adjustment of 1912. From August 1903 to July 1906, chain gage at same site. From June 1899 to January 1902, wire gage at highway bridge 10 miles upstream. Prior to February 1896, wire gage at Baltimore & Ohio Railroad bridge 11 miles upstream.

Drainage area.- 1,471 square miles; 1,457 square miles at site 10 miles upstream; 1,451 square miles at site 11 miles upstream.

Records available.- June 1894 to February 1896, June 1899 to January 1902, August 1903 to July 1906, August 1928 to September 1943.

Extremes.- Maximum discharge, 143,000 second-feet Mar. 18, 1936 (gage height, 34.2 feet), by slope-area determination; minimum, 50 second-feet Aug. 5, 1930.

Maximum stage known prior to 1936, about 34 feet, from floodmarks, in November 1877 (discharge, 140,000 second-feet).

Monthly discharge of South Branch Potomac River near Springfield, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1894						
June 3-30.....	1,720	400	775	0.534	0.56	0.345
July.....	700	210	296	.204	.24	.132
August.....	400	180	233	.161	.19	.104
September.....	1,930	180	403	.278	.31	.180
1894-95						
October 1-20.....	910	210	500	.345	.26	.223
April 11-30.....	4,360	800	1,792	1.24	.92	.801
May.....	3,570	1,090	2,203	1.52	1.75	.982
June.....	1,030	270	582	.401	.45	.259
July.....	1,300	240	512	.353	.41	.228
August.....	360	132	217	.150	.17	.097
September.....	180	80	108	.074	.08	.048
1895-96						
October.....	96	80	82.1	.057	.07	.037
November.....	210	113	145	.100	.11	.065
December.....	1,370	132	307	.212	.24	.137
January.....	2,820	250	635	.438	.50	.283
February.....	4,700	500	2,023	1.39	1.50	.898
1899						
June 26-30.....	730	320	579	.397	.07	.257
July.....	730	140	337	.231	.27	.149
August.....	410	170	238	.163	.19	.105
September.....	410	170	314	.216	.24	.140
1899-1900						
October.....	855	170	293	.201	.23	.130
November.....	2,060	410	1,001	.687	.77	.444
December.....	1,960	320	984	.675	.78	.436
January.....	5,600	500	1,103	.757	.87	.489
February.....	4,010	800	1,971	1.35	1.41	.873
March.....	8,600	980	3,497	2.40	2.77	1.55
April.....	3,660	240	1,400	.961	1.07	.621
May.....	855	205	509	.349	.40	.226
June.....	10,600	560	1,945	1.33	1.48	.860
July.....	1,620	170	783	.537	.62	.347
August.....	730	110	287	.197	.23	.127
September.....	920	110	299	.205	.23	.132
The year.....	10,600	110	1,166	.800	10.86	.517
1900-1						
October.....	615	240	359	.246	.28	.159
November.....	9,350	205	1,361	.934	1.04	.604
December.....	9,350	320	1,507	1.03	1.19	.666
January.....	5,850	300	1,119	.768	.88	.496
February.....	615	400	426	.292	.30	.189
March.....	9,600	400	2,423	1.66	1.91	1.07
April.....	17,400	730	4,987	3.42	3.82	2.21
May.....	9,600	920	3,631	2.49	2.87	1.61
June.....	9,850	855	2,560	1.76	1.96	1.14
July.....	2,980	170	1,185	.813	.94	.525
August.....	920	205	484	.332	.38	.215
September.....	3,490	240	721	.495	.55	.320
The year.....	17,400	170	1,734	1.19	16.13	.769
1901-2						
October.....	990	205	322	.221	.25	.143
November.....	1,440	170	326	.224	.25	.145
December.....	19,400	320	3,326	2.28	2.63	1.47
January.....	5,350	800	1,810	1.24	1.43	.801
1903						
August 28-31.....	561	210	346	.235	.03	.152
September.....	702	210	336	.228	.25	.147

Monthly discharge of South Branch Potomac River near Springfield, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1903-4						
October.....	432	163	271	0.184	0.21	0.119
November.....	261	163	206	.140	.16	.090
December.....	463	163	286	.194	.22	.125
January.....	12,200	432	1,009	.686	.79	.443
February.....	5,540	432	1,004	.683	.74	.441
March.....	4,030	740	1,451	.986	1.14	.637
April.....	10,900	495	1,660	1.13	1.26	.730
May.....	9,500	702	2,143	1.46	1.68	.944
June.....	4,120	402	1,121	.762	.85	.492
July.....	2,300	315	568	.386	.44	.249
August.....	561	96	238	.162	.19	.105
September.....	210	78	123	.084	.09	.054
The year.....	12,200	78	840	.571	7.77	.369
1904-5						
October.....	96	78	80.9	.055	.06	.036
November.....	96	78	79.9	.054	.06	.035
December.....	1,860	78	296	.201	.23	.130
January.....	4,840	210	821	.558	.64	.361
February.....	1,790	630	831	.565	.59	.365
March.....	18,300	1,040	4,793	3.26	3.76	2.11
April.....	2,580	432	1,015	.690	.77	.448
May.....	8,240	432	1,744	1.19	1.37	.769
June.....	12,600	210	1,948	1.32	1.47	.860
July.....	4,650	702	1,673	1.14	1.31	.737
August.....	4,120	372	854	.581	.67	.376
September.....	495	78	228	.155	.17	.100
The year.....	18,300	78	1,204	.818	11.10	.529
1905-6						
October.....	904	125	229	.156	.18	.101
November.....	315	163	190	.129	.14	.083
December.....	13,400	261	2,298	1.56	1.80	1.01
January.....	13,500	1,240	3,321	2.26	2.61	1.46
February.....	1,730	315	664	.451	.47	.291
March.....	25,600	432	5,076	3.45	3.98	2.23
April.....	14,600	1,240	4,538	3.08	3.44	2.00
May.....	2,800	372	1,085	.738	.85	.474
June.....	1,910	315	770	.523	.68	.338
July 1-14.....	819	163	449	.305	.16	.197
1926						
August 8-31.....	3,100	539	953	.648	.58	.419
September.....	2,020	279	515	.350	.39	.226
1928-29						
October.....	366	205	258	.175	.20	.113
November.....	540	232	325	.222	.25	.143
December.....	3,210	459	866	.589	.68	.381
January.....	2,560	-	984	.669	.77	.432
February.....	9,680	-	1,130	.768	.80	.496
March.....	13,100	980	3,380	2.30	2.65	1.49
April.....	16,700	847	3,510	2.39	2.67	1.54
May.....	7,560	913	2,550	1.73	1.99	1.12
June.....	3,540	557	1,050	.714	.80	.461
July.....	573	171	311	.211	.24	.136
August.....	180	117	144	.098	.11	.063
September.....	180	100	129	.088	.10	.057
The year.....	16,700	100	1,220	.829	11.26	.536
1929-30						
October.....	9,390	131	1,610	1.09	1.26	.704
November.....	12,200	-	2,120	1.44	1.61	.931
December.....	2,520	-	1,050	.714	.82	.461
January.....	1,750	-	788	.536	.62	.346
February.....	2,050	420	958	.651	.68	.421
March.....	3,650	692	1,450	.986	1.14	.637
April.....	2,570	524	1,090	.741	.83	.479
May.....	581	205	374	.254	.29	.164
June.....	1,300	161	320	.218	.24	.141
July.....	161	62	105	.071	.08	.046
August.....	95	56	73.5	.050	.06	.032
September.....	106	62	76.6	.052	.06	.034
The year.....	12,200	56	832	.566	7.69	.366

Monthly discharge of South Branch Potomac River near Springfield, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930-31						
October.....	96	62	79.4	0.054	0.06	0.035
November.....	132	74	114	.077	.09	.050
December.....	346	83	157	.107	.12	.069
January.....	1,330	158	463	.315	.36	.204
February.....	1,350	266	625	.425	.44	.275
March.....	3,980	488	1,020	.693	.80	.448
April.....	6,970	765	2,760	1.98	2.10	1.22
May.....	5,080	693	2,050	1.39	1.60	.898
June.....	4,290	398	1,120	.761	.85	.492
July.....	984	227	466	.317	.37	.205
August.....	4,220	163	845	.574	.66	.371
September.....	616	158	264	.179	.20	.116
The year.....	6,970	62	830	.564	7.65	.365
1931-32						
October.....	306	91	139	.094	.11	.061
November.....	122	104	114	.077	.09	.050
December.....	756	122	370	.252	.29	.163
January.....	2,780	382	990	.673	.78	.435
February.....	24,400	485	2,460	1.67	1.80	1.08
March.....	12,000	433	3,080	2.09	2.41	1.35
April.....	7,870	669	1,760	1.20	1.34	.776
May.....	19,700	555	3,570	2.43	2.80	1.57
June.....	1,090	289	485	.330	.37	.213
July.....	2,410	142	573	.390	.45	.252
August.....	202	82	138	.094	.11	.061
September.....	115	64	78.8	.054	.06	.035
The year.....	24,400	64	1,140	.775	10.61	.501
1932-33						
October.....	3,660	75	642	.436	.50	.282
November.....	6,440	425	1,670	1.14	1.27	.737
December.....	3,550	280	866	.589	.68	.381
January.....	4,000	535	1,310	.891	1.03	.576
February.....	2,850	1,120	1,850	1.26	1.31	.814
March.....	11,000	938	2,910	1.98	2.28	1.28
April.....	12,000	1,600	3,920	2.66	2.97	1.72
May.....	9,550	1,370	3,350	2.28	2.63	1.47
June.....	1,270	207	518	.352	.39	.228
July.....	3,000	160	541	.368	.42	.238
August.....	14,900	146	1,410	.959	1.11	.620
September.....	2,290	321	884	.601	.67	.388
The year.....	14,900	75	1,650	1.12	15.26	.724
1933-34						
October.....	296	176	209	.142	.16	.092
November.....	518	181	270	.184	.21	.119
December.....	1,270	230	501	.341	.39	.220
January.....	3,660	400	1,080	.734	.85	.474
February.....	450	260	362	.246	.26	.159
March.....	7,220	310	2,440	1.66	1.91	1.07
April.....	2,650	545	1,310	.891	.99	.576
May.....	1,160	380	598	.407	.47	.263
June.....	642	168	361	.245	.27	.158
July.....	242	88	148	.101	.12	.065
August.....	412	91	153	.104	.12	.067
September.....	1,660	86	293	.199	.22	.129
The year.....	7,220	86	647	.440	5.97	.284
1934-35						
October.....	991	144	294	.200	.23	.129
November.....	2,780	164	444	.302	.34	.185
December.....	7,350	400	1,413	.961	1.11	.621
January.....	13,200	568	2,308	1.57	1.81	1.01
February.....	8,140	1,100	3,146	2.14	2.23	1.38
March.....	6,960	1,000	2,430	1.65	1.90	1.07
April.....	10,900	842	4,130	2.81	3.14	1.82
May.....	5,960	809	1,835	1.25	1.44	.908
June.....	937	293	618	.420	.47	.271
July.....	1,420	277	543	.369	.43	.238
August.....	2,620	257	916	.623	.72	.403
September.....	10,300	228	1,247	.846	.95	.548
The year.....	13,200	144	1,598	1.09	14.77	.704

Monthly discharge of South Branch Potomac River near Springfield, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1935-36						
October.....	315	175	210	0.143	0.16	0.092
November.....	3,810	211	849	.577	.64	.373
December.....	2,950	487	1,026	.697	.90	.450
January.....	9,000	700	3,007	2.04	2.35	1.32
February.....	18,000	800	4,273	2.90	3.13	1.87
March.....	110,000	2,160	10,490	7.13	8.22	4.61
April.....	9,760	750	2,812	1.91	2.13	1.23
May.....	774	432	604	.411	.47	.266
June.....	854	256	435	.296	.33	.191
July.....	1,750	238	499	.339	.39	.219
August.....	316	137	209	.142	.16	.092
September.....	154	95	119	.081	.09	.052
The year.....	110,000	95	2,043	1.39	18.97	.898
1936-37						
October.....	5,760	134	621	.422	.49	.273
November.....	638	224	332	.226	.25	.146
December.....	3,830	211	1,472	1.00	1.15	.646
January.....	16,000	1,850	4,595	3.12	3.60	2.02
February.....	6,570	1,240	2,626	1.78	1.85	1.15
March.....	4,510	830	1,532	1.08	1.24	.698
April.....	33,400	596	3,694	2.51	2.80	1.62
May.....	3,830	823	1,401	.952	1.10	.615
June.....	855	382	596	.405	.45	.262
July.....	656	160	303	.206	.24	.133
August.....	10,100	137	1,290	.877	1.01	.567
September.....	3,830	223	933	.634	.71	.410
The year.....	33,400	134	1,615	1.10	14.89	.711
1937-38						
October.....	32,500	214	3,747	2.55	2.94	1.65
November.....	3,850	534	1,143	.777	.87	.502
December.....	1,660	450	843	.573	.66	.370
January.....	5,480	490	1,151	.782	.90	.505
February.....	2,500	694	1,210	.823	.86	.532
March.....	2,400	766	1,337	.909	1.05	.588
April.....	2,000	680	1,006	.684	.76	.442
May.....	8,280	462	1,648	1.12	1.29	.724
June.....	2,730	403	1,102	.749	.84	.484
July.....	2,760	238	719	.489	.56	.316
August.....	2,100	158	610	.415	.48	.268
September.....	414	137	219	.149	.17	.096
The year.....	32,500	137	1,232	.838	11.38	.542
1938-39						
October.....	191	128	156	.106	.12	.068
November.....	462	164	264	.179	.20	.116
December.....	2,640	365	752	.511	.59	.330
January.....	18,100	392	1,612	1.10	1.27	.711
February.....	31,400	1,300	5,137	3.49	3.63	2.26
March.....	7,280	839	2,628	1.79	2.06	1.16
April.....	15,700	690	2,274	1.55	1.73	1.00
May.....	1,550	660	942	.640	.74	.414
June.....	1,400	323	573	.390	.44	.252
July.....	8,690	220	1,585	1.08	1.24	.698
August.....	2,910	283	681	.463	.53	.299
September.....	323	144	196	.133	.15	.086
The year.....	31,400	128	1,376	.935	12.70	.604
1939-40						
October.....	1,010	157	280	.190	.22	.123
November.....	415	211	272	.185	.21	.120
December.....	529	190	275	.187	.22	.121
January.....	750	210	323	.220	.25	.142
February.....	5,900	240	1,624	1.10	1.19	.711
March.....	6,750	703	1,640	1.11	1.28	.717
April.....	14,000	1,372	3,736	2.58	2.68	1.67
May.....	17,400	512	1,803	1.23	1.42	.795
June.....	17,900	690	3,381	2.30	2.57	1.43
July.....	1,400	250	501	.341	.39	.220
August.....	3,170	190	695	.472	.54	.305
September.....	1,980	206	557	.379	.42	.245
The year.....	17,900	157	1,252	.851	11.59	.550

Monthly discharge of South Branch Potomac River near Springfield, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	320	188	244	0.166	0.19	0.107
November.....	1,280	265	568	.386	.43	.249
December.....	1,900	472	901	.613	.71	.396
January.....	1,560	570	1,030	.700	.81	.452
February.....	916	300	536	.364	.38	.235
March.....	3,390	276	1,389	.944	1.09	.610
April.....	9,150	513	1,883	1.28	1.43	.827
May.....	695	253	389	.264	.30	.171
June.....	3,350	248	687	.467	.52	.302
July.....	3,940	202	887	.603	.70	.390
August.....	1,110	107	336	.228	.26	.147
September.....	366	107	222	.151	.17	.098
The year.....	9,150	107	757	.515	6.99	.333
1941-42						
October.....	126	89	107	.073	.08	.047
November.....	257	126	176	.120	.13	.078
December.....	1,420	157	367	.249	.29	.161
January.....	781	290	440	.299	.34	.193
February.....	2,100	350	812	.552	.57	.357
March.....	6,860	380	1,875	1.27	1.47	.821
April.....	3,180	469	1,241	.844	.94	.545
May.....	27,500	368	3,642	2.48	2.85	1.60
June.....	2,350	380	948	.644	.72	.416
July.....	330	146	230	.156	.18	.101
August.....	4,100	195	1,589	1.08	1.25	.698
September.....	980	195	410	.279	.31	.180
The year.....	27,500	89	991	.674	9.13	.436
1942-43						
October.....	33,200	220	2,714	1.84	2.13	1.19
November.....	2,200	452	946	.643	.72	.416
December.....	14,300	492	2,551	1.72	1.98	1.11
January.....	8,010	1,030	3,518	1.75	2.01	1.13
February.....	10,700	1,100	3,589	2.39	2.49	1.54
March.....	8,550	700	3,189	2.17	2.50	1.40
April.....	10,200	829	2,243	1.52	1.70	.982
May.....	3,610	732	1,595	1.08	1.25	.698
June.....	1,290	343	678	.461	.51	.298
July.....	6,100	310	1,161	.789	.91	.510
August.....	732	170	268	.182	.21	.118
September.....	247	113	147	.100	.11	.065
The year.....	33,200	113	1,791	1.22	16.52	.789

Yearly discharge of South Branch Potomac River near Springfield, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1900.....	1,166	0.800	10.86	0.517	1,252	0.859	11.59	0.555
1901.....	1,734	1.19	16.13	.769	1,792	1.23	16.75	.795
1904.....	840	.571	7.77	.369	814	.553	7.53	.357
1905.....	1,204	.818	11.10	.529	1,385	.942	12.87	.609
1929.....	1,220	.829	11.26	.536	1,497	1.02	13.82	.659
1930.....	832	.566	7.69	.366	462	.314	4.27	.203
1931.....	830	.564	7.65	.365	853	.580	7.87	.375
1932.....	1,140	.775	10.61	.501	1,356	.922	12.57	.596
1933.....	1,650	1.12	15.26	.724	1,470	.999	13.57	.646
1934.....	647	.440	5.97	.284	746	.507	6.89	.328
1935.....	1,598	1.09	14.77	.704	1,591	1.08	14.69	.698
1936.....	2,043	1.39	18.87	.898	2,073	1.41	19.16	.911
1937.....	1,615	1.10	14.89	.711	1,894	1.29	17.47	.834
1938.....	1,232	.838	11.38	.542	847	.576	7.82	.372

Yearly discharge of South Branch Potomac River near Springfield, W. Va.--Continued

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	1,376	0.935	12.70	0.604	1,346	0.915	12.44	0.591
1940.....	1,252	.851	11.59	.550	1,327	.902	12.27	.583
1941.....	757	.515	6.99	.333	668	.454	6.16	.293
1942.....	991	.674	9.13	.436	1,459	.992	13.46	.641
1943.....	1,791	1.22	16.52	.789	-	-	-	-
1929-43								
Highest.....	2,043	1.39	18.87	.998	2,073	1.41	19.16	.911
Average.....	1,265	.860	11.69	.556	1,256	.854	11.60	.552
Lowest.....	647	.440	5.97	.284	462	.314	4.27	.203

North Fork of South Branch Potomac River at Cabins, W. Va.

Location.- Water-stage recorder, lat. 38°59'05", long. 79°14'10", 380 feet upstream from highway bridge at Cabins, Grant County, and 1 3/4 miles downstream from Jordan Run. Datum of gage is 1,050.13 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 314 square miles.

Records available.- February 1940 to September 1943.

Extremes.- Maximum discharge, 14,500 second-feet May 31, 1940 (gage height, 11.10 feet); minimum, 9.2 second-feet Sept. 20, 1943.

Maximum stage known, 12.8 feet Mar. 17, 1936, from information by local residents (discharge, 20,600 second-feet, from rating curve extended above 10,000 second-feet by logarithmic plotting).

Monthly discharge of North Fork of South Branch Potomac River at Cabins, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940						
March.....	3,000	220	624	1.99	2.29	1.29
April.....	3,450	385	1,109	3.53	3.94	2.28
May.....	7,970	133	741	2.36	2.72	1.53
June.....	2,710	128	691	2.20	2.46	1.42
July.....	546	55	130	.414	.48	.268
August.....	1,060	25	197	.627	.72	.405
September.....	755	35	132	.420	.47	.271
1940-41						
October.....	104	40	61.5	.196	.23	.127
November.....	500	93	182	.580	.65	.375
December.....	658	155	275	.876	1.01	.566
January.....	495	147	300	.955	1.10	.617
February.....	243	88	142	.452	.47	.292
March.....	994	85	467	1.49	1.72	.963
April.....	2,920	125	659	2.10	2.34	1.36
May.....	505	73	134	.427	.49	.276
June.....	1,130	62	229	.729	.81	.471
July.....	949	41	203	.646	.75	.418
August.....	750	15	131	.417	.48	.270
September.....	181	18	63.6	.203	.23	.131
The year.....	2,920	15	238	.758	10.28	.490
1941-42						
October.....	30	16	20.1	.064	.07	.041
November.....	120	26	50.9	.162	.18	.105
December.....	781	40	163	.519	.60	.335
January.....	398	88	167	.532	.61	.344
February.....	949	137	360	1.15	1.19	.743
March.....	2,700	108	660	2.10	2.42	1.36
April.....	978	135	387	1.23	1.37	.795
May.....	7,820	106	1,101	3.51	4.04	2.27
June.....	574	65	187	.596	.67	.385
July.....	108	23	55.4	.176	.20	.114
August.....	2,580	42	586	1.87	2.15	1.21
September.....	317	44	110	.350	.39	.226
The year.....	7,820	16	322	1.03	13.89	.666

Monthly discharge of North Fork of South Branch Potomac River at Cabins, W. Va.--
Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	2,330	68	400	1.27	1.47	0.821
November.....	978	147	358	1.14	1.27	.737
December.....	5,500	214	957	3.05	3.51	1.97
January.....	1,650	230	695	2.21	2.55	1.43
February.....	2,990	320	904	2.88	3.00	1.86
March.....	2,640	200	967	3.08	3.55	1.99
April.....	3,820	212	688	2.19	2.45	1.42
May.....	1,230	172	449	1.43	1.65	.924
June.....	325	47	129	.411	.46	.266
July.....	1,930	54	315	1.00	1.16	.646
August.....	209	22	58.7	.187	.22	.121
September.....	48	9.8	16.8	.054	.06	.035
The year.....	5,500	9.8	494	1.57	21.35	1.01

Yearly discharge of North Fork of South Branch Potomac River at Cabins, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1941.....	238	0.758	10.28	0.490	214	0.682	9.24	0.441
1942.....	322	1.03	13.89	.666	447	1.42	19.29	.918
1943.....	494	1.57	21.35	1.01	-	-	-	-

South Fork of South Branch Potomac River near Moorefield, W. Va.

Location.- Water-stage recorder, lat. 39°00'44", long. 78°57'23", 0.2 mile downstream from Stony Creek and 3½ miles south of Moorefield, Raridy County. Datum of gage is 861.51 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).
From June 24, 1928 to Sept. 30, 1935 and from Aug. 23, 1938 to Mar. 11, 1940 chain gage and wire weight gage, respectively, at bridge 2 miles upstream from present site. Datum 892.79 feet above mean sea level.

Drainage area.- 283 square miles. Prior to Mar. 12, 1940, 271 square miles.

Records available.- June 1928 to September 1935, August 1938 to September 1943.

Extremes.- Maximum discharge, 23,100 second-feet May 22, 1942 (gage height, 11.07 feet). From rating curve extended above 4,000 second-feet on basis of slope-area determination at gage height 13.8 feet; minimum observed, 8.0 second-feet Aug. 12, 13, 1930. Maximum stage known, 13.8 feet, present site and datum, Mar. 17, 1936, from floodmarks (discharge, about 43,000 second-feet, by slope-area determination).

Monthly discharge of South Fork of South Branch Potomac River near Moorefield, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
June 24-30.....	700	284	416	1.54	0.40	0.995
July.....	248	28	94.7	.349	.40	.226
August.....	910	28	240	.886	1.02	.573
September.....	796	36	137	.506	.56	.327
1928-29						
October.....	80	27	42.0	.155	.18	.100
November.....	44	31	36.1	.133	.15	.096
December.....	198	-	101	.373	.43	.241
January.....	279	-	130	.480	.55	.310
February.....	3,060	-	283	1.04	1.08	.672
March.....	3,340	141	605	2.23	2.57	1.44
April.....	3,320	122	657	2.42	2.70	1.56
May.....	2,270	132	416	1.54	1.78	.995
June.....	279	97	160	.590	.66	.381
July.....	100	28	59.0	.218	.25	.141
August.....	46	14	22.8	.084	.10	.054
September.....	30	10	19.6	.072	.08	.046
The year.....	3,340	10	210	.775	10.53	.501

Monthly discharge of South Fork of South Branch Potomac River near Moorefield, W. Va.--
Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	3,840	26	449	1.66	1.91	1.07
November.....	4,500	121	547	2.02	2.25	1.31
December.....	475	-	140	.517	.60	.354
January.....	309	-	132	.487	.56	.315
February.....	510	70	185	.683	.71	.441
March.....	1,220	105	269	.993	1.14	.642
April.....	284	76	142	.524	.58	.339
May.....	74	31	51.2	.189	.22	.122
June.....	201	23	56.1	.207	.23	.134
July.....	26	9.8	16.0	.059	.07	.038
August.....	16	8.4	11.1	.041	.05	.026
September.....	16	9.8	12.1	.045	.05	.029
The year.....	4,500	8.4	167	.616	8.37	.398
1930-31						
October.....	18	10	13.8	.051	.06	.033
November.....	22	16	20.1	.074	.08	.048
December.....	49	19	27.3	.101	.12	.065
January.....	251	35	69.8	.258	.30	.167
February.....	138	35	74.4	.275	.29	.178
March.....	825	82	197	.727	.84	.470
April.....	1,390	124	529	1.95	2.18	1.26
May.....	618	113	276	1.02	1.18	.659
June.....	309	42	128	.472	.53	.305
July.....	697	38	127	.469	.54	.303
August.....	825	34	183	.675	.78	.436
September.....	116	25	43.4	.160	.18	.103
The year.....	1,390	10	141	.520	7.08	.336
1931-32						
October.....	27	16	19.9	.073	.08	.047
November.....	18	16	17.1	.063	.07	.041
December.....	28	17	22.8	.084	.10	.054
January.....	167	32	80.2	.286	.34	.191
February.....	2,890	59	329	1.21	1.30	.782
March.....	2,940	59	585	2.16	2.49	1.40
April.....	738	99	202	.745	.83	.482
May.....	3,730	90	652	2.41	2.78	1.56
June.....	228	44	77.2	.285	.32	.184
July.....	212	20	61.4	.227	.26	.147
August.....	28	9.5	15.4	.057	.07	.037
September.....	27	8.5	12.2	.045	.05	.029
The year.....	3,730	8.5	173	.638	8.69	.412
1932-33						
October.....	2,240	10	190	.701	.81	.453
November.....	2,660	96	354	1.31	1.46	.847
December.....	910	50	164	.605	.70	.391
January.....	1,730	109	329	1.21	1.40	.782
February.....	640	147	305	1.13	1.18	.730
March.....	2,240	130	385	1.42	1.64	.918
April.....	3,920	169	942	3.48	3.88	2.25
May.....	1,490	169	452	1.67	1.92	1.08
June.....	207	40	87.5	.323	.36	.209
July.....	600	34	95.2	.351	.40	.227
August.....	7,920	41	446	1.65	1.90	1.07
September.....	298	40	103	.380	.42	.246
The year.....	7,920	10	321	1.18	16.07	.763
1933-34						
October.....	35	20	25.4	.094	.11	.061
November.....	26	18	21.0	.077	.09	.050
December.....	69	19	29.4	.108	.12	.070
January.....	142	25	61.2	.226	.26	.146
February.....	35	15	25.2	.093	.10	.060
March.....	2,490	25	412	1.52	1.75	.982
April.....	430	84	183	.675	.75	.436
May.....	162	58	104	.384	.44	.248
June.....	180	26	68.2	.252	.28	.163
July.....	69	10	24.9	.092	.11	.060
August.....	54	15	28.1	.104	.12	.067
September.....	199	11	41.1	.152	.17	.098
The year.....	2,490	10	85.9	.317	4.30	.205

Monthly discharge of South Fork of South Branch Potomac River near Moorefield, W. Va.--
Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	329	23	65.3	0.241	0.28	0.156
November.....	770	23	69.4	.256	.29	.165
December.....	1,610	76	293	1.08	1.24	.698
January.....	3,110	94	434	1.60	1.84	1.03
February.....	2,380	200	618	2.28	2.37	1.47
March.....	1,850	184	431	1.59	1.83	1.03
April.....	2,660	138	750	2.77	3.09	1.79
May.....	1,270	122	285	1.05	1.21	.679
June.....	346	54	121	.446	.50	.288
July.....	130	30	66.1	.244	.28	.158
August.....	1,220	50	163	.601	.69	.388
September.....	3,590	35	304	1.12	1.25	.724
The year.....	3,590	23	297	1.10	14.87	.711
1938						
August 23-31.....	39	26	32.0	.118	.04	.076
September.....	39	21	28.4	.105	.12	.068
1938-39						
October.....	33	19	23.5	.087	.10	.056
November.....	40	24	31.7	.117	.13	.076
December.....	455	42	133	.491	.57	.317
January.....	3,350	58	328	1.21	1.40	.732
February.....	5,420	200	892	3.29	3.43	2.13
March.....	1,410	115	423	1.56	1.80	1.01
April.....	1,610	68	262	.967	1.08	.625
May.....	295	109	173	.638	.74	.412
June.....	135	33	64.6	.238	.27	.154
July.....	1,950	32	289	1.07	1.23	.692
August.....	410	41	106	.391	.45	.253
September.....	48	22	27.2	.100	.11	.065
The year.....	5,420	19	225	.830	11.31	.536
1939-40						
October.....	455	27	82.4	.291	.34	.188
November.....	74	37	51.6	.182	.20	.118
December.....	103	35	52.5	.186	.21	.120
January.....	410	34	83.0	.293	.34	.189
February.....	410	46	185	.654	.71	.423
March.....	1,150	111	259	.915	1.05	.591
April.....	2,600	190	627	2.22	2.48	1.43
May.....	6,080	78	381	1.35	1.56	.873
June.....	2,160	97	521	1.84	2.05	1.19
July.....	147	33	62.2	.220	.28	.142
August.....	1,390	29	250	.883	1.02	.571
September.....	448	33	101	.357	.40	.231
The year.....	6,080	27	220	.777	10.61	.502
1940-41						
October.....	44	33	36.1	.128	.15	.083
November.....	231	36	93.2	.329	.37	.213
December.....	573	63	152	.537	.62	.347
January.....	362	94	171	.604	.70	.350
February.....	140	45	79.4	.281	.29	.162
March.....	543	45	213	.753	.87	.487
April.....	2,120	89	374	1.32	1.47	.853
May.....	84	32	54.6	.193	.22	.125
June.....	351	32	83.1	.294	.33	.190
July.....	675	28	161	.534	.62	.345
August.....	100	14	40.1	.142	.16	.092
September.....	84	14	37.1	.131	.15	.085
The year.....	2,120	14	124	.438	5.95	.283

Monthly discharge of South Fork of South Branch Potomac River near Moorefield, W. Va.--
Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	20	14	16.0	0.057	0.07	0.037
November.....	28	22	24.9	.098	.10	.057
December.....	143	22	45.4	.160	.18	.103
January.....	97	33	49.4	.175	.20	.113
February.....	207	45	89.0	.314	.33	.203
March.....	1,520	49	336	1.19	1.37	.769
April.....	480	65	179	.633	.71	.409
May.....	11,300	54	977	3.45	3.98	2.23
June.....	582	65	202	.714	.80	.461
July.....	80	23	39.6	.140	.16	.090
August.....	438	29	194	.686	.79	.443
September.....	125	32	61.1	.216	.24	.140
The year.....	11,300	14	186	.657	8.93	.425
1942-43						
October.....	10,400	46	873	3.08	3.55	1.99
November.....	285	83	148	.523	.58	.338
December.....	4,000	69	393	1.39	1.60	.898
January.....	1,070	130	344	1.22	1.40	.789
February.....	2,080	117	576	2.04	2.12	1.32
March.....	1,800	89	556	1.96	2.26	1.27
April.....	3,190	139	464	1.64	1.83	1.06
May.....	1,010	121	337	1.19	1.37	.769
June.....	503	72	193	.682	.76	.441
July.....	735	51	176	.622	.72	.402
August.....	49	22	30.2	.107	.12	.069
September.....	39	16	22.1	.078	.09	.050
The year.....	10,400	16	342	1.21	16.40	.782

Yearly discharge of South Fork of South Branch Potomac River near Moorefield, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	210	0.775	10.53	0.501	290	1.07	14.53	0.692
1930.....	167	.616	8.37	.398	77.4	.286	3.87	.185
1931.....	141	.520	7.08	.336	141	.520	7.07	.336
1932.....	173	.638	8.69	.412	227	.838	11.41	.542
1933.....	321	1.18	16.07	.763	268	.989	13.42	.639
1934.....	85.9	.317	4.30	.205	116	.428	5.79	.277
1935.....	297	1.10	14.87	.711	-	-	-	-
1939.....	225	.830	11.31	.536	225	.830	11.29	.536
1940.....	220	.777	10.61	.502	228	.806	11.00	.521
1941.....	124	.438	5.95	.283	107	.378	5.16	.244
1942.....	186	.657	8.93	.425	298	1.05	14.31	.679
1943.....	342	1.21	16.40	.782	-	-	-	-

Town Creek near Oldtown, Md.

Location.- Chain gage, lat. 39°33'14", long. 78°33'20", on highway bridge 2 miles upstream from Sawpit Run and 3 miles northeast of Oldtown, Allegany County.

Drainage area.- 148 square miles.

Records available.- July 1928 to September 1935.

Extremes.- Maximum discharge observed, about 8,500 second-feet Oct. 23, 1929 (gage height, 13.4 feet); minimum, 0.9 second-foot Aug. 2, 3, 7-14, 1930 (gage height, 1.41 feet).

Monthly discharge of Town Creek near Oldtown, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
July 12-31.....	3,270	28	398	2.69	2.00	1.74
August.....	505	16	65.1	.440	.51	.284
September.....	160	11	30.2	.204	.23	.132
1928-29						
October.....	64	10	23.5	.159	.18	.103
November.....	96	3	26.2	.177	.20	.114
December.....	142	-	48.0	.324	.37	.209
January.....	-	-	17.4	.118	.14	.076
February.....	2,310	-	180	1.22	1.27	.789
March.....	1,860	81	366	2.47	2.85	1.60
April.....	3,510	54	575	3.89	4.34	2.51
May.....	1,250	67	226	1.53	1.76	.989
June.....	191	12	63.8	.431	.48	.279
July.....	99	3	20.2	.136	.16	.088
August.....	16	2	7.7	.052	.06	.034
September.....	38	2	10.2	.069	.08	.045
The year.....	3,510	2	129	.872	11.89	.564
1929-30						
October.....	3,480	5.7	270	1.82	2.10	1.18
November.....	995	-	198	1.34	1.50	.866
December.....	349	-	99.9	.675	.78	.436
January.....	175	-	65.3	.441	.51	.285
February.....	835	-	126	.851	.89	.550
March.....	298	71	134	.905	1.04	.585
April.....	397	63	128	.865	.97	.559
May.....	136	17	52.3	.353	.41	.228
June.....	70	5.2	16.2	.109	.12	.070
July.....	6.0	1.2	2.59	.017	.02	.012
August.....	4.2	.9	2.06	.014	.02	.009
September.....	4.7	1.6	3.07	.021	.02	.014
The year.....	3,480	.9	91.2	.616	8.38	.398
1930-31						
October.....	4.5	2.0	2.97	.020	.02	.013
November.....	6.3	3.3	4.40	.030	.03	.019
December.....	81	3.3	12.3	.083	.10	.054
January.....	160	13	28.6	.193	.22	.125
February.....	191	6.3	48.0	.324	.34	.209
March.....	1,510	50	165	1.11	1.28	.717
April.....	850	44	235	1.59	1.77	1.03
May.....	1,660	67	361	2.44	2.81	1.58
June.....	110	8.8	37.0	.250	.28	.162
July.....	2,410	9.4	306	2.07	2.39	1.34
August.....	88	14	41.6	.281	.32	.182
September.....	101	12	31.3	.211	.24	.136
The year.....	2,410	2.0	107	.723	9.80	.467
1931-32						
October.....	25	7.5	12.6	.085	.10	.055
November.....	12	7	9.27	.063	.07	.041
December.....	236	7.5	53.4	.361	.42	.233
January.....	513	34	170	1.15	1.33	.743
February.....	1,060	56	189	1.28	1.39	.827
March.....	1,710	46	323	2.18	2.51	1.41
April.....	1,370	63	302	2.04	2.28	1.32
May.....	2,670	49	413	2.79	3.22	1.80
June.....	73	16	34.1	.230	.26	.149
July.....	36	5.5	13.1	.089	.10	.058
August.....	11	1.7	4.85	.033	.04	.021
September.....	2.6	1.1	1.77	.012	.01	.0078
The year.....	2,670	1.1	127	.858	11.72	.555

Monthly discharge of Town Creek near Oldtown, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	111	2.3	22.9	0.155	0.18	0.100
November.....	1,010	26	176	1.19	1.33	.769
December.....	393	13	85.0	.574	.66	.371
January.....	1,810	56	188	1.27	1.46	.821
February.....	248	80	155	1.05	1.09	.679
March.....	2,970	70	495	3.34	3.85	2.16
April.....	1,660	140	586	3.96	4.42	2.56
May.....	2,110	82	418	2.82	3.25	1.82
June.....	82	12	37.4	.253	.28	.164
July.....	39	4.7	11.6	.078	.09	.050
August.....	191	4.4	18.8	.127	.15	.082
September.....	180	13	37.7	.255	.28	.165
The year.....	2,970	2.3	186	1.26	17.04	.814
1933-34						
October.....	25	7.4	13.6	.092	.11	.060
November.....	35	11	16.0	.108	.12	.070
December.....	311	7.0	57.7	.390	.45	.252
January.....	1,510	35	242	1.64	1.89	1.06
February.....	40	15	27.2	.184	.19	.119
March.....	690	20	141	.953	1.10	.616
April.....	580	58	211	1.45	1.60	.924
May.....	60	16	36.4	.246	.28	.159
June.....	770	7.4	51.2	.346	.39	.224
July.....	14	2.2	6.73	.045	.05	.029
August.....	202	3.4	15.5	.105	.12	.068
September.....	730	2.6	73.1	.494	.55	.319
The year.....	1,510	2.2	74.5	.503	6.85	.325
1934-35						
October.....	248	13	41.3	.279	.32	.180
November.....	650	11	60.9	.411	.46	.266
December.....	850	44	162	1.09	1.26	.704
January.....	690	90	227	1.53	1.76	.989
February.....	1,460	55	326	2.20	2.29	1.42
March.....	393	140	241	1.63	1.88	1.05
April.....	890	74	246	1.66	1.85	1.07
May.....	810	47	236	1.59	1.83	1.02
June.....	99	18	34.2	.231	.26	.149
July.....	96	8.3	23.3	.157	.18	.101
August.....	513	8.8	51.3	.347	.40	.224
September.....	513	14	65.0	.439	.49	.284
The year.....	1,460	8.3	142	.958	12.98	.620

Yearly discharge of Town Creek near Oldtown, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	129	0.872	11.89	0.564	169	1.14	15.52	0.737
1930.....	91.2	.616	8.38	.398	45.2	.305	4.15	.187
1931.....	107	.723	9.80	.467	111	.750	10.24	.485
1932.....	127	.858	11.72	.555	145	.980	13.30	.633
1933.....	186	1.26	17.04	.814	170	1.15	15.55	.743
1934.....	74.5	.503	6.85	.325	89.4	.604	8.21	.390
1935.....	142	.959	12.98	.620	-	-	-	-

Cacapon River at Yellow Spring, W. Va.

Location.- Wire-weight gage, lat. 39°10'56", long. 78°30'25", at bridge on State Highway 23 at Yellow Spring, Hampshire County, and 2½ miles downstream from Capon Springs Run. Datum of gage is 858.51 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 306 square miles.

Records available.- November 1939 to September 1943.

Extremes.- Maximum discharge, 36,700 second-feet Oct. 15, 1942 (gage height, 22.22 feet); minimum observed, 12 second-feet Jan. 7, 1942.

Maximum stage known, prior to November 1939, 20.2 feet March 1936 (discharge, 28,000 second-feet).

Monthly discharge of Cacapon River at Yellow Spring, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
November.....	292	44	94.1	0.308	0.34	0.199
December.....	358	49	86.0	.281	.32	.182
January.....	746	45	111	.363	.42	.235
February.....	1,010	61	343	1.12	1.21	.724
March.....	1,040	130	333	1.09	1.26	.704
April.....	3,600	270	976	3.19	3.56	2.06
May.....	1,740	111	284	.928	1.07	.600
June.....	1,490	67	390	1.27	1.42	.821
July.....	281	35	71.1	.232	.27	.150
August.....	732	31	121	.395	.46	.255
September.....	679	41	119	.389	.43	.251
1940-41						
October.....	140	46	62.2	.203	.23	.131
November.....	1,180	51	228	.745	.83	.482
December.....	895	97	274	.895	1.03	.578
January.....	406	135	242	.791	.91	.511
February.....	232	72	134	.438	.46	.283
March.....	1,160	72	321	1.05	1.21	.679
April.....	2,160	119	412	1.35	1.50	.873
May.....	111	46	80.7	.264	.30	.171
June.....	457	51	112	.366	.41	.237
July.....	1,800	54	319	1.04	1.20	.672
August.....	160	29	67.9	.222	.26	.143
September.....	111	24	42.3	.138	.15	.089
The year.....	2,160	24	192	.627	8.49	.405
1941-42						
October.....	30	22	25.9	.085	.10	.055
November.....	56	26	32.8	.107	.12	.069
December.....	336	31	68.0	.222	.26	.143
January.....	135	21	60.7	.198	.23	.128
February.....	382	46	114	.373	.39	.241
March.....	2,170	52	389	1.27	1.47	.821
April.....	765	91	282	.922	1.03	.596
May.....	5,340	81	630	2.06	2.37	1.33
June.....	330	63	141	.461	.51	.298
July.....	86	26	43.7	.143	.16	.092
August.....	2,960	38	374	1.22	1.41	.789
September.....	176	39	73.5	.240	.27	.155
The year.....	5,340	21	187	.611	8.32	.395
1942-43						
October.....	18,500	39	1,472	4.81	5.55	3.11
November.....	455	135	236	.771	.86	.498
December.....	4,320	110	522	1.71	1.97	1.11
January.....	1,200	175	395	1.29	1.49	.834
February.....	2,300	184	702	2.29	2.39	1.48
March.....	1,640	135	608	1.99	2.29	1.29
April.....	3,170	159	558	1.82	2.03	1.18
May.....	835	184	336	1.10	1.27	.711
June.....	288	52	124	.405	.45	.262
July.....	229	40	71.4	.233	.27	.151
August.....	47	28	33.1	.108	.12	.070
September.....	32	24	26.1	.085	.10	.055
The year.....	18,500	24	424	1.39	16.79	.898

Yearly discharge of Cacapon River at Yellow Spring, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1940.....	-	-	-	-	274	0.895	12.19	0.578
1941.....	192	0.627	8.49	0.405	155	.507	6.88	.328
1942.....	187	.611	8.32	.395	366	1.20	16.22	.776
1943.....	424	1.39	18.79	.898	-	-	-	-

Cacapon River at Capon Bridge, W. Va.

Location.- Chain gage, lat. 39°17'52", long. 78°26'05", at highway bridge at Capon Bridge, Hampshire County, and 12 miles upstream from North River.
 Drainage area.- 367 square miles.
 Records available.- May 1930 to September 1932.
 Extremes.- Maximum discharge, 15,600 second-feet May 12, 1932 (gage height, 14.22 feet). From rating curve extended above 5,500 second-feet; minimum, 17 second-feet Sept. 18, 19, 22, 1932 (gage height, 0.75 foot).
 Flood of 1924 reached a stage of 19.0 feet, from floodmarks.

Monthly discharge of Cacapon River at Capon Bridge, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930						
June.....	216	48	89.8	0.245	0.27	0.158
July.....	46	22	31.3	.085	.10	.055
August.....	40	21	29.3	.080	.09	.052
September.....	61	21	30.7	.084	.09	.054
1930-31						
October.....	37	23	27.8	.076	.09	.049
November.....	51	24	35.5	.097	.11	.063
December.....	79	-	44.9	.122	.14	.079
January.....	300	42	70.5	.192	.22	.124
February.....	103	38	63.7	.174	.19	.112
March.....	640	77	162	.441	.51	.285
April.....	1,140	127	459	1.25	1.40	.808
May.....	1,200	109	360	.981	1.13	.634
June.....	406	38	149	.406	.45	.262
July.....	334	30	125	.341	.39	.220
August.....	1,400	30	221	.602	.69	.389
September.....	95	27	43.2	.118	.13	.076
The year.....	1,400	23	147	.401	5.45	.259
1931-32						
October.....	37	24	26.8	.073	.08	.047
November.....	38	26	30.9	.084	.09	.054
December.....	83	27	46.2	.126	.15	.081
January.....	268	57	121	.330	.38	.213
February.....	3,340	70	332	.905	.98	.565
March.....	2,300	61	559	1.52	1.75	.982
April.....	825	138	313	.853	.95	.551
May.....	7,880	130	939	2.56	2.95	1.65
June.....	370	54	111	.302	.34	.195
July.....	300	26	68.5	.187	.22	.121
August.....	34	19	25.7	.070	.08	.045
September.....	26	17	19.8	.054	.06	.035
The year.....	7,880	17	216	.589	8.03	.381

Cacapon River near Great Cacapon, W. Va.

Location.- Water-stage recorder, lat. 39°34'43", long. 78°18'34", at Rock Ford, 3 miles southwest of Great Cacapon, Morgan County, and 6½ miles upstream from mouth. Datum of gage is 456.78 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark). Prior to Nov. 10, 1933, staff gage at same site and datum.

Drainage area.- 677 square miles.

Records available.- December 1922 to September 1943.

Extremes.- Maximum discharge, 87,600 second-feet Mar. 18, 1936 (gage height, 30.1 feet); minimum, 35 second-feet Sept. 21, 22, 1932 (gage height, 0.35 foot).

Maximum stage known prior to 1923, 24.7 feet in May 1889, from floodmarke (discharge, about 57,000 second-feet).

Monthly discharge of Cacapon River near Great Cacapon, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1922-23						
December 12-31.....	307	73	166	0.245	0.18	0.158
January.....	1,420	90	261	.386	.44	.249
February.....	1,890	204	628	.928	.97	.600
March.....	1,280	179	554	.818	.94	.529
April.....	3,860	179	658	.972	1.08	.628
May.....	397	106	208	.307	.35	.198
June.....	167	54	112	.165	.18	.107
July.....	113	38	70.0	.103	.12	.067
August.....	217	51	96.5	.143	.16	.092
September.....	437	49	148	.219	.24	.142
1923-24						
October.....	79	44	55.6	.082	.09	.053
November.....	204	52	103	.152	.17	.098
December.....	478	102	215	.318	.37	.206
January.....	3,740	397	888	1.31	1.51	.847
February.....	704	-	311	.459	.50	.297
March.....	11,100	-	2,880	4.25	4.90	2.75
April.....	3,260	437	1,200	1.77	1.98	1.14
May.....	25,600	307	3,560	5.26	6.06	3.40
June.....	1,140	245	594	.877	.98	.567
July.....	704	95	221	.326	.38	.211
August.....	104	66	84.3	.125	.14	.081
September.....	13,000	64	514	.760	.85	.491
The year.....	25,600	44	892	1.32	17.93	.853
1924-25						
October.....	2,330	64	221	.326	.38	.211
November.....	609	79	168	.248	.28	.160
December.....	275	99	170	.251	.29	.162
January.....	-	113	315	.465	.54	.301
February.....	8,150	437	1,720	2.54	2.64	1.64
March.....	4,610	245	647	.956	1.10	.618
April.....	2,720	191	454	.671	.75	.434
May.....	4,610	204	887	1.31	1.51	.847
June.....	378	95	136	.201	.22	.130
July.....	291	68	128	.189	.22	.122
August.....	167	44	72.2	.106	.12	.068
September.....	217	39	65.6	.097	.11	.063
The year.....	8,150	39	407	.601	8.16	.388
1925-26						
October.....	155	41	77.3	.114	.13	.074
November.....	1,210	79	195	.288	.32	.186
December.....	1,210	85	317	.468	.54	.302
January.....	2,420	95	470	.694	.80	.449
February.....	4,480	520	1,850	2.73	2.84	1.76
March.....	1,280	245	457	.675	.78	.436
April.....	2,330	231	734	1.08	1.20	.698
May.....	1,350	144	321	.474	.55	.306
June.....	167	79	120	.177	.20	.114
July.....	499	51	117	.173	.20	.112
August.....	2,820	48	530	.783	.90	.506
September.....	1,420	106	325	.480	.54	.310
The year.....	4,480	41	450	.665	9.00	.430
1926-27						
October.....	960	131	289	.427	.49	.276
November.....	-	155	1,320	1.95	2.18	1.26
December.....	4,350	291	810	1.20	1.38	.776
January.....	960	-	457	.675	.78	.436
February.....	4,870	457	1,510	2.23	2.32	1.44
March.....	1,890	478	942	1.39	1.60	.898
April.....	3,740	542	1,770	2.61	2.91	1.69
May.....	4,220	341	897	1.32	1.52	.853
June.....	1,080	155	408	.603	.67	.390
July.....	155	79	113	.167	.19	.108
August.....	179	78	107	.158	.18	.102
September.....	123	51	70.6	.104	.12	.067
The year.....	-	51	716	1.06	14.34	.685

Monthly discharge of Cacapon River near Great Cacapon, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1927-28						
October.....	6,480	40	783	1.16	1.34	0.750
November.....	594	102	217	.321	.36	.207
December.....	1,410	-	484	.715	.82	.462
January.....	342	-	193	.285	.33	.184
February.....	1,130	-	386	.570	.61	.368
March.....	4,610	204	882	1.30	1.50	.840
April.....	12,000	397	1,540	2.27	2.53	1.47
May.....	27,100	217	1,880	2.78	3.20	1.80
June.....	3,740	230	1,080	1.60	1.78	1.03
July.....	725	117	273	.403	.46	.260
August.....	1,130	87	308	.455	.52	.294
September.....	2,240	108	419	.619	.69	.400
The year.....	27,100	40	703	1.04	14.14	.672
1928-29						
October.....	378	107	158	.233	.27	.151
November.....	162	107	125	.185	.21	.120
December.....	594	123	246	.363	.42	.235
January.....	618	-	247	.365	.42	.236
February.....	4,740	-	614	.907	.94	.586
March.....	8,330	324	1,830	2.70	3.11	1.75
April.....	24,600	276	2,410	3.56	3.97	2.30
May.....	2,330	342	818	1.21	1.40	.782
June.....	670	124	240	.355	.40	.229
July.....	308	74	126	.186	.21	.120
August.....	89	55	71.8	.106	.12	.068
September.....	118	60	74.9	.111	.12	.072
The year.....	24,600	55	578	.854	11.59	.552
1929-30						
October.....	8,330	72	1,050	1.55	1.79	1.00
November.....	6,320	260	982	1.45	1.62	.937
December.....	1,570	-	413	.610	.70	.394
January.....	2,240	-	379	.560	.65	.362
February.....	1,970	-	504	.744	.77	.481
March.....	2,060	260	605	.894	1.03	.578
April.....	1,130	246	434	.641	.72	.414
May.....	276	77	160	.236	.27	.153
June.....	194	77	116	.171	.19	.111
July.....	82	38	56.4	.083	.10	.054
August.....	65	37	45.6	.067	.08	.043
September.....	80	42	54.5	.081	.09	.052
The year.....	8,330	37	399	.589	8.01	.381
1930-31						
October.....	35	40	44.8	.066	.08	.043
November.....	77	47	59.6	.088	.10	.057
December.....	152	-	81.7	.121	.14	.078
January.....	281	82	115	.170	.20	.110
February.....	162	72	111	.164	.17	.106
March.....	1,410	121	270	.399	.46	.288
April.....	2,820	206	975	1.44	1.61	.931
May.....	3,040	206	951	1.40	1.61	.905
June.....	1,070	96	304	.449	.50	.280
July.....	725	81	274	.405	.47	.262
August.....	1,570	68	284	.419	.48	.271
September.....	162	52	88.1	.130	.14	.084
The year.....	3,040	40	297	.439	5.96	.284
1931-32						
October.....	73	40	53.2	.079	.09	.051
November.....	63	47	54.1	.080	.09	.052
December.....	397	49	103	.152	.18	.098
January.....	569	100	244	.360	.42	.233
February.....	10,200	125	799	1.18	1.27	.763
March.....	5,570	134	1,340	1.98	2.28	1.28
April.....	3,260	232	902	1.33	1.48	.860
May.....	26,000	219	2,300	3.40	3.92	2.20
June.....	458	105	180	.281	.31	.182
July.....	359	51	108	.160	.18	.103
August.....	57	40	48.8	.072	.08	.046
September.....	47	35	39.4	.058	.06	.038
The year.....	26,000	35	515	.761	10.36	.492

Monthly discharge of Cacapon River near Great Cacapon, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	1,890	38	294	0.434	0.50	0.281
November.....	3,740	134	895	1.32	1.47	.853
December.....	2,240	130	394	.582	.67	.376
January.....	6,320	194	975	1.44	1.66	.931
February.....	1,270	397	680	1.00	1.04	.646
March.....	5,870	308	1,230	1.82	2.10	1.18
April.....	13,100	644	2,460	3.63	4.05	2.35
May.....	3,380	523	1,370	2.02	2.33	1.31
June.....	780	102	277	.409	.46	.264
July.....	1,490	73	196	.290	.33	.187
August.....	8,510	69	881	1.30	1.50	.840
September.....	2,620	152	523	.773	.86	.500
The year.....	13,100	38	647	1.25	16.97	.808
1933-34						
October.....	188	92	119	.176	.20	.114
November.....	115	80	92.6	.137	.15	.088
December.....	141	60	100	.148	.17	.096
January.....	980	90	281	.415	.48	.268
February.....	120	70	89.1	.132	.14	.085
March.....	2,470	80	579	.855	.99	.563
April.....	1,840	211	645	.953	1.06	.616
May.....	780	179	334	.493	.57	.319
June.....	288	59	123	.182	.20	.118
July.....	458	40	87.7	.130	.15	.084
August.....	551	53	120	.177	.20	.114
September.....	1,150	46	207	.306	.34	.198
The year.....	2,470	40	232	.345	4.65	.222
1934-35						
October.....	546	57	110	.162	.19	.105
November.....	282	61	89.6	.132	.15	.085
December.....	6,720	150	695	1.03	1.19	.666
January.....	5,150	141	719	1.06	1.22	.685
February.....	4,100	550	1,466	2.17	2.26	1.40
March.....	2,820	389	875	1.29	1.49	.834
April.....	6,640	356	1,883	2.78	3.10	1.80
May.....	2,820	252	731	1.08	1.24	.698
June.....	445	111	222	.328	.37	.212
July.....	784	73	167	.247	.28	.160
August.....	1,040	64	174	.257	.30	.166
September.....	2,850	62	361	.533	.59	.344
The year.....	6,720	57	617	.911	12.38	.589
1935-36						
October.....	212	63	75.2	.111	.13	.072
November.....	2,130	91	450	.665	.74	.430
December.....	1,130	166	361	.533	.61	.344
January.....	4,480	260	1,489	2.21	2.55	1.43
February.....	10,200	350	1,516	2.24	2.42	1.45
March.....	58,500	1,300	5,405	7.98	9.20	5.16
April.....	3,500	425	1,332	1.97	2.20	1.27
May.....	703	194	361	.533	.61	.344
June.....	720	139	218	.322	.36	.208
July.....	197	66	121	.179	.21	.116
August.....	109	56	72.3	.107	.12	.069
September.....	63	49	53.1	.078	.09	.050
The year.....	58,500	49	957	1.41	19.24	.911
1936-37						
October.....	1,560	58	173	.256	.30	.165
November.....	124	68	84.6	.125	.14	.081
December.....	960	70	450	.665	.77	.430
January.....	6,120	524	1,576	2.33	2.69	1.51
February.....	5,800	516	1,521	2.25	2.34	1.45
March.....	2,160	392	742	1.30	1.27	.711
April.....	31,100	218	2,605	3.85	4.30	2.49
May.....	2,070	269	607	.897	1.03	.580
June.....	590	116	200	.295	.33	.191
July.....	448	71	161	.238	.27	.154
August.....	6,600	62	684	1.01	1.16	.653
September.....	1,420	97	318	.470	.52	.304
The year.....	31,100	58	754	1.11	15.12	.717

Monthly discharge of Cacapon River near Oreat Cacapon, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	16,200	103	1,801	2.66	3.07	1.72
November.....	1,880	292	672	.993	1.11	.642
December.....	375	190	261	.396	.44	.249
January.....	480	150	238	.352	.41	.228
February.....	368	216	288	.425	.44	.275
March.....	1,110	228	481	.710	.82	.459
April.....	602	278	415	.613	.68	.396
May.....	1,950	216	575	.849	.98	.549
June.....	448	123	234	.346	.39	.224
July.....	292	71	119	.176	.20	.114
August.....	211	40	90.4	.134	.15	.087
September.....	81	46	61.8	.091	.10	.059
The year.....	16,200	40	439	.648	8.79	.419
1938-39						
October.....	77	48	57.0	.084	.10	.054
November.....	105	69	83.6	.123	.14	.080
December.....	3,860	98	476	.703	.81	.454
January.....	6,040	142	469	.693	.80	.448
February.....	10,900	484	1,683	2.49	2.59	1.61
March.....	3,340	326	911	1.35	1.56	.873
April.....	3,730	289	865	1.28	1.43	.827
May.....	1,070	246	449	.663	.76	.429
June.....	902	104	195	.288	.32	.186
July.....	1,920	83	363	.536	.62	.346
August.....	1,620	92	315	.465	.54	.301
September.....	283	56	90.5	.134	.15	.087
The year.....	10,900	48	489	.722	9.82	.467
1939-40						
October.....	843	67	140	.207	.24	.134
November.....	980	136	272	.402	.45	.260
December.....	855	104	206	.304	.35	.196
January.....	370	130	177	.261	.30	.169
February.....	2,700	135	892	1.32	1.42	.853
March.....	2,340	323	769	1.14	1.31	.737
April.....	8,030	668	2,000	2.95	3.29	1.91
May.....	1,030	225	516	.762	.88	.492
June.....	4,150	162	876	1.29	1.44	.854
July.....	510	76	155	.229	.26	.148
August.....	992	60	162	.239	.28	.154
September.....	900	69	221	.326	.36	.211
The year.....	8,030	60	527	.778	10.58	.503
1940-41						
October.....	249	88	122	.180	.21	.116
November.....	2,170	125	492	.727	.81	.470
December.....	2,340	230	636	.939	1.08	.607
January.....	905	266	543	.802	.92	.518
February.....	560	138	305	.451	.47	.291
March.....	2,710	148	771	1.14	1.31	.737
April.....	5,460	249	843	1.25	1.39	.808
May.....	236	97	168	.248	.29	.160
June.....	1,510	98	271	.400	.45	.259
July.....	3,070	90	565	.835	.96	.540
August.....	298	58	126	.186	.21	.120
September.....	122	46	74.8	.110	.12	.071
The year.....	5,460	46	410	.606	8.22	.392
1941-42						
October.....	53	44	48.3	.071	.08	.046
November.....	81	53	62.2	.092	.10	.060
December.....	450	60	116	.171	.20	.111
January.....	287	70	127	.188	.22	.122
February.....	780	100	230	.340	.35	.220
March.....	3,940	115	816	1.21	1.39	.782
April.....	2,310	179	722	1.07	1.19	.692
May.....	9,540	153	1,174	1.73	2.00	1.12
June.....	486	139	262	.387	.43	.250
July.....	156	49	81.8	.121	.14	.078
August.....	3,930	87	653	.965	1.11	.624
September.....	402	71	135	.199	.22	.129
The year.....	9,540	44	371	.548	7.43	.354

Monthly discharge of Cacapon River near Great Cacapon, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	41,700	73	2,976	4.40	5.07	2.84
November.....	912	247	475	.702	.78	.454
December.....	7,780	220	1,170	1.73	1.99	1.12
January.....	3,360	395	950	1.40	1.62	.905
February.....	5,850	438	1,620	2.39	2.49	1.54
March.....	3,180	304	1,270	1.88	2.16	1.22
April.....	5,400	353	1,115	1.65	1.84	1.07
May.....	1,190	360	574	.842	.98	.548
June.....	498	90	208	.307	.34	.198
July.....	239	75	107	.158	.18	.102
August.....	88	52	65.4	.097	.11	.063
September.....	62	48	52.9	.078	.09	.050
The year.....	41,700	48	880	1.30	17.65	.840

Yearly discharge of Cacapon River near Great Cacapon, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1923.....	-	-	-	-	256	0.378	5.11	0.244
1924.....	892	1.32	17.93	0.853	908	1.34	18.25	.866
1925.....	407	.601	8.16	.398	409	.604	8.20	.390
1926.....	450	.665	9.00	.430	602	.829	12.06	.575
1927.....	716	1.06	14.34	.685	659	.944	12.21	.610
1928.....	703	1.04	14.14	.672	624	.922	12.52	.596
1929.....	578	.854	11.59	.552	739	1.09	14.20	.704
1930.....	399	.589	8.01	.381	210	.310	4.22	.200
1931.....	297	.439	5.96	.284	299	.442	6.00	.286
1932.....	515	.761	10.36	.492	629	.929	12.64	.600
1933.....	847	1.25	16.97	.808	741	1.09	14.85	.704
1934.....	232	.343	4.65	.222	222	.417	5.66	.270
1935.....	617	.911	12.38	.569	616	.910	12.33	.588
1936.....	957	1.41	19.24	.911	945	1.39	18.97	.898
1937.....	754	1.11	15.12	.717	924	1.36	18.53	.879
1938.....	439	.646	8.79	.419	260	.384	5.22	.248
1939.....	489	.722	9.22	.467	488	.721	9.81	.466
1940.....	527	.778	10.58	.503	580	.857	11.64	.554
1941.....	410	.606	8.22	.392	325	.480	6.50	.310
1942.....	371	.546	7.43	.354	743	1.10	14.89	.711
1943.....	880	1.30	17.65	.840	-	-	-	-
Highest....	957	1.41	19.24	.911	943	1.39	18.97	.898
Average....	574	.848	11.52	.546	561	.829	11.25	.535
Lowest....	232	.343	4.65	.222	210	.310	4.22	.200

Licking Creek near Sylvan, Pa.

Location.- Chain gage, lat. 39°43'20", long. 79°03'35", at highway bridge 200 feet north of Pennsylvania-Maryland State line, and 3 miles southwest of Sylvan, Franklin County.

Datum of gage is 434.16 feet above mean sea level, adjustment of 1907.

Drainage area.- 158 square miles.

Records available.- June 1930 to January 1942.

Extremes.- Maximum discharge, 20,700 second-feet Mar. 18, 1936 (gage height, 17.4 feet, from floodmark), by contracted-opening method; minimum observed, 3.0 second-feet Aug. 8, 1930 (gage height, 0.64 foot).

Monthly discharge of Licking Creek near Sylvan, Pa.

Month	Discharge in second-foot				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930						
June 4-30.....	35	12	23.4	0.148	0.15	0.096
July.....	12	6	8.56	.054	.06	.035
August.....	7.5	3.0	5.30	.033	.04	.021
September.....	7.5	3.5	5.19	.033	.04	.021
1930-31						
October.....	8	4.1	5.63	.036	.04	.023
November.....	7.5	3.9	5.46	.035	.04	.023
December.....	37	4.9	12.6	.080	.09	.052
January.....	64	11	21.7	.137	.16	.088
February.....	104	9.5	38.7	.245	.26	.158
March.....	1,820	43	168	1.06	1.22	.685
April.....	1,620	51	257	1.63	1.82	1.05
May.....	1,820	80	411	2.60	3.00	1.68
June.....	369	35	90.1	.570	.64	.368
July.....	1,570	29	274	1.73	1.99	1.12
August.....	141	27	45.6	.289	.33	.187
September.....	44	13	22.3	.141	.16	.091
The year.....	1,820	3.9	114	.722	9.75	.467
1931-32						
October.....	18	9.5	12.0	-.076	.09	-.049
November.....	21	11	14.0	-.089	.10	-.058
December.....	38	14	30.9	-.196	.23	-.127
January.....	301	30	108	.684	.79	.442
February.....	795	40	127	-.804	.87	-.520
March.....	2,040	36	335	2.12	2.44	1.37
April.....	1,670	65	320	2.03	2.26	1.31
May.....	2,600	68	389	2.46	2.84	1.59
June.....	217	23	52.7	-.334	.37	-.216
July.....	36	11	21.2	-.134	.15	-.087
August.....	42	6	10.2	-.065	.07	-.042
September.....	10	4.9	6.76	-.043	.05	-.028
The year.....	2,600	4.9	119	.753	10.26	.487
1932-33						
October.....	795	6.5	107	-.677	-.78	-.438
November.....	2,350	79	392	2.48	2.77	1.60
December.....	369	47	111	-.703	.81	-.454
January.....	1,350	78	213	1.35	1.56	.875
February.....	399	104	165	1.04	1.08	.672
March.....	2,420	86	522	3.30	3.80	2.13
April.....	1,930	176	620	3.92	4.37	2.53
May.....	1,720	118	421	2.66	3.07	1.72
June.....	176	24	62.7	-.397	.44	-.257
July.....	104	15	30.2	-.191	.22	-.123
August.....	1,670	13	154	.975	1.12	.630
September.....	462	29	81.9	-.518	.58	-.335
The year.....	2,420	6.5	240	1.52	20.60	.982
1933-34						
October.....	124	20	45.8	.290	.33	.187
November.....	54	22	31.6	.200	.22	.129
December.....	222	16	56.5	-.358	.41	.231
January.....	1,140	50	241	1.53	1.76	.989
February.....	52	24	34.0	-.215	.22	-.139
March.....	399	38	127	-.804	.93	-.520
April.....	960	86	279	1.77	1.98	1.14
May.....	140	34	65.6	.415	.48	.268
June.....	117	17	31.6	.200	.22	.129
July.....	124	10	21.1	-.134	.15	-.087
August.....	202	10	37.6	-.238	.27	-.154
September.....	1,500	9	165	1.04	1.16	.672
The year.....	1,500	9	94.8	.600	8.13	.388

Monthly discharge of Licking Creek near Sylvan, Pe.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	462	30	78.9	0.499	0.58	0.323
November.....	600	25	71.4	.452	.50	.292
December.....	3,800	87	383	2.42	2.79	1.56
January.....	430	103	204	1.29	1.49	.634
February.....	1,230	117	357	2.26	2.35	1.46
March.....	564	170	295	1.87	2.16	1.21
April.....	960	90	278	1.76	1.96	1.14
May.....	600	54	222	1.41	1.63	.911
June.....	102	26	43.3	.274	.31	.177
July.....	69	16	29.2	.165	.21	.120
August.....	42	11	21.0	.133	.15	.086
September.....	564	12	50.0	.316	.35	.204
The year.....	3,800	11	168	1.06	14.48	.685
1935-36						
October.....	249	12	31.0	.196	.23	.127
November.....	373	24	73.2	.463	.52	.299
December.....	529	23	112	.709	.82	.458
January.....	675	52	193	1.22	1.41	.789
February.....	2,130	80	272	1.72	1.86	1.11
March.....	9,570	318	1,508	9.54	11.00	6.17
April.....	2,130	94	427	2.70	3.01	1.75
May.....	218	33	64.0	.405	.47	.262
June.....	61	17	27.5	.174	.19	.112
July.....	63	7.4	16.4	.104	.12	.067
August.....	87	7.4	15.1	.096	.11	.062
September.....	19	5.1	7.53	.048	.05	.031
The year.....	9,570	5.1	230	1.46	19.79	.944
1936-37						
October.....	211	7.5	32.3	.204	.24	.132
November.....	519	12	58.3	.369	.41	.238
December.....	466	9	182	1.15	1.33	.743
January.....	2,010	214	604	3.82	4.40	2.47
February.....	2,860	157	431	2.73	2.84	1.76
March.....	292	106	164	1.04	1.20	.672
April.....	8,850	94	880	5.57	6.21	3.60
May.....	1,100	77	287	1.82	2.10	1.18
June.....	304	37	75.9	.480	.54	.310
July.....	262	18	46.0	.291	.34	.188
August.....	639	13	70.1	.444	.51	.287
September.....	175	16	37.3	.236	.26	.153
The year.....	8,850	7.5	237	1.50	20.38	.969
1937-38						
October.....	3,730	18	384	2.43	2.80	1.57
November.....	522	74	176	1.11	1.24	.717
December.....	470	35	110	.696	.80	.450
January.....	235	60	117	.741	.85	.479
February.....	194	72	120	.759	.79	.491
March.....	1,000	61	237	1.50	1.73	.969
April.....	157	58	94.4	.597	.67	.386
May.....	658	38	160	1.01	1.16	.653
June.....	140	29	56.3	.356	.40	.230
July.....	788	12	109	.690	.80	.446
August.....	234	9.9	42.6	.270	.31	.175
September.....	146	12	33.0	.209	.23	.135
The year.....	3,730	9.9	137	.867	11.78	.560
1938-39						
October.....	29	12	18.0	.114	.13	.074
November.....	116	14	30.9	.196	.22	.127
December.....	2,200	46	230	1.46	1.68	.944
January.....	1,060	50	124	.785	.90	.507
February.....	2,430	124	479	3.03	3.16	1.96
March.....	1,660	124	355	2.25	2.59	1.45
April.....	965	194	348	2.20	2.46	1.42
May.....	214	37	91.8	.581	.67	.376
June.....	1,160	28	126	.797	.89	.515
July.....	345	22	94.0	.595	.69	.385
August.....	105	10	27.7	.175	.20	.113
September.....	465	7.5	37.1	.235	.26	.152
The year.....	2,430	7.5	161	1.02	13.85	.659

Monthly discharge of Licking Creek near Sylvan, Pa.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	1,480	28	133	0.842	0.97	0.544
November.....	499	40	145	.918	1.02	.593
December.....	93	27	38.4	.243	.28	.157
January.....	500	27	67.8	.429	.49	.277
February.....	800	27	231	1.46	1.58	.944
March.....	1,490	140	373	2.36	2.72	1.53
April.....	2,280	165	642	4.06	4.54	2.62
May.....	246	60	116	.734	.84	.474
June.....	920	85	254	1.61	1.79	1.04
July.....	193	32	67.5	.427	.49	.276
August.....	395	20	67.3	.426	.49	.275
September.....	874	24	90.7	.574	.64	.371
The year.....	2,280	20	184	1.16	15.85	.750
1940-41						
October.....	50	20	27.4	.173	.20	.112
November.....	728	48	151	.656	1.07	.618
December.....	830	90	262	1.66	1.91	1.07
January.....	390	60	125	.791	.91	.511
February.....	228	60	98.7	.625	.65	.404
March.....	585	66	215	1.36	1.57	.879
April.....	1,260	66	237	1.50	1.67	.969
May.....	70	22	44.5	.282	.32	.182
June.....	1,650	55	280	1.77	1.98	1.14
July.....	939	30	180	1.14	1.31	.737
August.....	71	18	31.4	.199	.23	.129
September.....	85	9.5	18.2	.115	.13	.074
The year.....	1,650	9.5	139	.880	11.95	.569
1941-42						
October.....	12	8.9	10.1	.064	.07	.041
November.....	40	8.9	16.2	.103	.11	.067
December.....	713	12	90.2	.571	.66	.369
January.....	239	29	76.1	.482	.56	.312

Yearly discharge of Licking Creek near Sylvan, Pa.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1931.....	114	0.722	9.75	0.467	116	0.734	10.00	0.474
1932.....	119	.753	10.26	.487	165	1.04	14.20	.672
1933.....	240	1.52	20.60	.982	201	1.27	17.20	.821
1934.....	94.8	.600	8.13	.388	129	.816	11.04	.527
1935.....	168	1.06	14.48	.685	142	.899	12.18	.581
1936.....	230	1.46	19.79	.944	234	1.48	20.20	.957
1937.....	237	1.50	20.38	.969	271	1.72	23.24	1.11
1938.....	137	.867	11.78	.560	104	.658	8.97	.425
1939.....	161	1.02	13.85	.659	164	1.04	14.09	.672
1940.....	184	1.16	15.85	.750	195	1.23	16.76	.795
1941.....	139	.880	11.95	.569	112	.709	9.61	.458
Highest....	240	1.52	20.60	.982	271	1.72	23.24	1.11
Average....	166	1.05	14.26	.679	167	1.06	14.32	.685
Lowest.....	94.8	.600	8.13	.388	104	.658	8.97	.425

Back Creek near Jones Springs, W. Va.

Location.- Wire-weight gage, lat. 39°30'43", long. 78°02'15", on highway bridge 3.5 miles northeast of Jones Springs, Berkeley County, and 9 miles upstream from Tilhance Creek. Datum of gage is 416.42 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 245 square miles.

Records available.- August 1938 to September 1943.

Extremes.- Maximum discharge, 22,400 second-feet Oct. 15, 1942 (gage height, 25.17 feet, from floodmarks); minimum observed, 0.9 second-foot Aug. 6, 1930.

Maximum stage known, prior to August 1938, 25.0 feet in March 1936, from floodmarks (discharge, 22,000 second-feet).

Monthly discharge of Back Creek near Jones Springs, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938						
September.....	18	3.9	8.91	0.037	0.04	0.024
1938-39						
October.....	24	3.0	10.2	.042	.05	.027
November.....	22	13	17.1	.070	.08	.045
December.....	1,230	21	122	.502	.58	.324
January.....	1,930	40	192	.790	.91	.511
February.....	4,300	126	569	2.34	2.44	1.51
March.....	1,750	87	305	1.26	1.45	.814
April.....	1,730	75	309	1.27	1.42	.821
May.....	380	22	104	.428	.49	.277
June.....	510	19	93.3	.384	.43	.248
July.....	656	21	126	.519	.60	.335
August.....	177	10	42.9	.177	.20	.114
September.....	105	5.6	16.5	.068	.08	.044
The year.....	4,300	3.0	156	.642	8.73	.415
1939-40						
October.....	1,200	16	122	.502	.58	.324
November.....	685	45	162	.667	.74	.431
December.....	802	32	104	.428	.49	.277
January.....	135	27	50.1	.206	.24	.133
February.....	1,830	31	437	1.80	1.94	1.16
March.....	1,470	96	315	1.30	1.50	.840
April.....	2,200	177	562	2.31	2.58	1.49
May.....	788	47	168	.691	.80	.447
June.....	1,350	39	259	1.07	1.19	.692
July.....	151	16	42.0	.173	.20	.112
August.....	545	12	88.2	.363	.42	.235
September.....	844	10	123	.506	.56	.327
The year.....	2,200	10	201	.827	11.24	.535
1940-41						
October.....	475	29	78.0	.321	.37	.207
November.....	2,820	75	433	1.78	1.99	1.16
December.....	1,820	87	331	1.36	1.57	.879
January.....	410	101	238	.979	1.13	.633
February.....	245	54	129	.531	.55	.343
March.....	1,170	44	302	1.24	1.43	.801
April.....	2,520	63	305	1.26	1.40	.814
May.....	76	17	40.4	.166	.19	.107
June.....	482	20	84.1	.346	.39	.224
July.....	568	12	75.5	.311	.36	.201
August.....	67	7.6	19.0	.078	.09	.050
September.....	43	4.6	9.62	.040	.04	.026
The year.....	2,820	4.6	170	.700	9.51	.452
1941-42						
October.....	11	4.2	7.32	.030	.03	.019
November.....	52	6.2	14.6	.060	.07	.039
December.....	483	12	91.5	.377	.43	.244
January.....	318	26	83.7	.344	.40	.222
February.....	742	51	153	.630	.65	.407
March.....	1,580	45	369	1.52	1.75	.982
April.....	1,010	53	239	.984	1.10	.636
May.....	4,910	37	424	1.74	2.01	1.12
June.....	644	35	135	.556	.62	.359
July.....	109	13	31.1	.128	.15	.083
August.....	2,110	26	300	1.23	1.42	.795
September.....	274	17	45.8	.188	.21	.122
The year.....	4,910	4.2	158	.650	8.84	.420

Monthly discharge of Back Creek near Jones Springs, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	14,800	20	1,218	5.01	5.78	3.24
November.....	408	78	181	.745	.83	.482
December.....	4,830	66	494	2.03	2.34	1.31
January.....	910	126	277	1.14	1.32	.737
February.....	2,400	140	591	2.43	2.53	1.57
March.....	1,420	87	463	1.91	2.20	1.23
April.....	3,290	79	363	1.49	1.66	.963
May.....	1,330	79	185	.761	.88	.492
June.....	94	18	42.3	.174	.19	.112
July.....	58	11	18.7	.077	.09	.050
August.....	48	8.0	13.3	.055	.06	.036
September.....	51	6.4	11.1	.046	.05	.030
The year.....	14,800	6.4	321	1.32	17.93	.853

Yearly discharge of Back Creek near Jones Springs, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	156	0.642	8.73	0.415	176	0.724	9.83	0.468
1940.....	201	.827	11.24	.535	238	.979	13.36	.633
1941.....	170	.700	9.51	.452	110	.453	6.11	.293
1942.....	158	.650	8.84	.420	309	1.27	17.26	.621
1943.....	321	1.32	17.93	.853	-	-	-	-

Back Creek near Redgesville, W. Va.

Location.- Staff and chain gage, lat. 39°33'23", long. 78°01'00", at highway bridge 1.3 miles west of Hedgeville, Berkeley County, and 4.5 miles upstream from Tilhance Creek.

Drainage area.- 252 square miles.

Records available.- July 1928 to September 1931.

Extremes.- Maximum discharge, about 13,000 second-feet Oct. 23, 1929 (gage height, 16.9 feet, from floodmarks), from rating curve extended above 4,000 second-feet; minimum, 0.9 second-foot Aug. 6, 1930 (gage height, 0.99 foot).

Monthly discharge of Back Creek near Hedgeville, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
July 2-31.....	292	36	90.7	0.360	0.40	0.233
August.....	430	45	134	.532	.61	.344
September.....	718	28	143	.567	.63	.366
1928-29						
October.....	120	26	45.3	.180	.21	.116
November.....	51	23	31.9	.127	.14	.082
December.....	336	-	76.3	.303	.35	.196
January.....	430	-	104	.413	.48	.267
February.....	2,730	-	300	1.19	1.24	.769
March.....	3,680	60	558	2.21	2.55	1.43
April.....	6,760	53	712	2.83	3.16	1.83
May.....	530	62	172	.683	.79	.441
June.....	56	21	32.3	.128	.14	.083
July.....	26	12	17.1	.068	.08	.044
August.....	18	10	13.4	.053	.06	.034
September.....	16	9	11.9	.047	.05	.030
The year.....	6,760	9	172	.683	9.25	.441

Monthly discharge of Back Creek near Hedgesville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	6,830	11	525	2.08	2.40	1.34
November.....	3,180	90	401	1.59	1.77	1.03
December.....	980	-	153	.607	.70	.392
January.....	382	-	112	.444	.51	.287
February.....	1,620	-	264	1.05	1.09	.679
March.....	2,870	65	265	1.05	1.21	.679
April.....	800	74	163	.647	.72	.418
May.....	78	13	38.8	.154	.18	.100
June.....	69	9.6	23.1	.092	.10	.060
July.....	18	3.2	6.27	.025	.03	.016
August.....	7.0	1.1	3.22	.013	.01	.008
September.....	27	1.8	5.25	.021	.02	.014
The year.....	6,830	1.1	163	.647	8.75	.418
1930-31						
October.....	11	1.9	5.87	.023	.03	.015
November.....	23	6.6	10.6	.042	.05	.027
December.....	96	5.7	19.0	.075	.09	.048
January.....	193	13	30.9	.123	.14	.080
February.....	62	8.4	33.9	.135	.14	.087
March.....	1,200	42	156	.619	.71	.400
April.....	2,030	47	327	1.30	1.45	.840
May.....	2,590	44	396	1.57	1.81	1.01
June.....	800	9.9	109	.433	.48	.280
July.....	480	8.2	84.8	.337	.39	.218
August.....	27	7.3	13.3	.053	.06	.034
September.....	32	2.8	7.43	.029	.03	.019
The year.....	2,590	1.9	99.9	.396	5.38	.256

Conococheague Creek at Fairview, Md.

Location.- Water-stage recorder, lat. 39°42'57", long. 77°49'28", 0.7 mile upstream from highway bridge at Fairview, Washington County, and 2 miles upstream from Rockdale Run. Datum of gage is 391.77 feet above mean sea level, adjustment of 1912. From Dec. 6, 1932 to Oct. 7, 1933, staff gage 200 feet below highway bridge, datum, 386.93 feet above mean sea level, adjustment of 1912. Prior to Dec. 5, 1932, chain gage at highway bridge, datum, 388.92 feet above mean sea level, adjustment of 1912.

Drainage area.- 494 square miles, prior to Oct. 7, 1933, 495 square miles.

Records available.- June 1928 to September 1943.

Extremes.- Maximum discharge, 16,300 second-feet Dec. 1, 1934 (gage height, 14.8 feet); minimum, 22 second-feet Dec. 16, 1930; minimum daily, 25 second-feet Nov. 28, 1930. Maximum stage known, about 16.5 feet in 1889, from statements of local residents (discharge, about 22,000 second-feet).

Remarks.- Regulation at low flows by small power plants near Mercersburg, Pa. Records include a small amount of sewage from Alto Sanatorium, Pa., which obtains its water supply from Antietam Creek.

Monthly discharge of Conococheague Creek at Fairview, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
June 21-30.....	6,480	1,370	3,590	7.25	2.70	4.69
July.....	5,510	512	1,360	2.75	3.17	1.78
August.....	1,260	280	433	.875	1.01	.566
September.....	457	210	276	.558	.62	.361
1928-29						
October.....	701	196	273	.552	.64	.357
November.....	262	132	187	.378	.42	.244
December.....	353	-	212	.428	.49	.277
January.....	732	-	305	.616	.71	.398
February.....	4,050	-	701	1.42	1.48	.918
March.....	4,590	469	1,330	2.69	3.10	1.74
April.....	6,120	415	1,570	3.17	3.54	2.05
May.....	3,150	442	899	1.82	2.10	1.18
June.....	1,440	217	401	.810	.90	.524
July.....	343	120	200	.404	.47	.261
August.....	890	92	163	.329	.38	.213
September.....	582	69	180	.364	.41	.235
The year.....	6,120	69	533	1.08	14.64	.698

Monthly discharge of Conococheague Creek at Fairview, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	6,500	155	1,230	2.48	2.86	1.60
November.....	2,970	370	876	1.77	1.98	1.14
December.....	783	-	460	.929	1.07	.600
January.....	846	-	469	.947	1.09	.612
February.....	1,600	325	636	1.28	1.33	.827
March.....	3,960	454	881	1.78	2.05	1.15
April.....	1,170	359	481	.972	1.08	.628
May.....	398	196	265	.537	.62	.347
June.....	359	95	156	.315	.35	.204
July.....	112	50	75.7	.153	.18	.099
August.....	69	38	55.0	.111	.13	.072
September.....	79	42	54.6	.110	.12	.071
The year.....	6,500	38	470	.949	12.86	.613
1930-31						
October.....	52	36	42.3	.085	.10	.055
November.....	57	25	45.4	.092	.10	.060
December.....	212	26	61.2	.124	.14	.080
January.....	212	47	88.8	.179	.21	.116
February.....	354	51	151	.305	.32	.197
March.....	2,620	106	389	.786	.91	.508
April.....	3,870	275	816	1.65	1.84	1.07
May.....	2,700	332	805	1.63	1.88	1.05
June.....	630	117	316	.638	.71	.412
July.....	2,880	120	766	1.59	1.83	1.03
August.....	590	120	196	.396	.46	.256
September.....	900	64	134	.271	.30	.175
The year.....	3,870	25	320	.646	8.80	.418
1931-32						
October.....	81	45	63.2	.128	.15	.083
November.....	86	53	68.7	.139	.16	.090
December.....	258	53	110	.222	.26	.143
January.....	1,560	152	407	.822	.95	.531
February.....	1,180	156	335	.677	.73	.438
March.....	3,420	139	732	1.48	1.71	.957
April.....	2,200	334	885	1.79	2.00	1.16
May.....	4,320	297	978	1.98	2.28	1.28
June.....	382	149	254	.513	.57	.332
July.....	229	71	120	.242	.28	.156
August.....	100	43	64.8	.131	.15	.085
September.....	689	28	80.8	.163	.18	.105
The year.....	4,320	28	342	.691	9.42	.447
1932-33						
October.....	3,630	33	474	.958	1.10	.619
November.....	6,520	460	1,450	2.93	3.27	1.89
December.....	1,270	210	468	.945	1.09	.611
January.....	1,540	298	531	1.07	1.23	.692
February.....	1,610	333	607	1.23	1.28	.795
March.....	4,600	351	1,560	3.15	3.63	2.04
April.....	5,290	850	2,000	4.04	4.51	2.61
May.....	3,630	560	1,270	2.57	2.96	1.66
June.....	610	175	326	.659	.74	.426
July.....	685	102	190	.384	.44	.248
August.....	5,720	93	627	1.27	1.46	.821
September.....	1,920	314	603	1.22	1.36	.789
The year.....	6,520	33	842	1.70	23.07	1.10
1933-34						
October.....	528	187	277	.561	.65	.363
November.....	218	130	161	.326	.36	.211
December.....	423	111	175	.354	.41	.229
January.....	2,600	250	741	1.50	1.73	.969
February.....	300	130	203	.411	.43	.266
March.....	1,350	170	409	.828	.95	.535
April.....	1,220	370	746	1.51	1.68	.976
May.....	740	236	366	.741	.85	.479
June.....	1,360	139	277	.561	.63	.363
July.....	2,160	79	214	.433	.50	.280
August.....	794	97	237	.480	.55	.310
September.....	8,440	90	1,210	2.45	2.73	1.58
The year.....	8,440	79	418	.846	11.47	.547

Monthly discharge of Conococheeueg Creek at Fairview, Md.--Continued

Month	Discharge in second-feet				Runoff in inchee	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	2,650	207	499	1.01	1.16	0.653
November.....	2,770	177	390	.789	.88	.510
December.....	12,600	424	1,551	3.14	3.62	2.03
January.....	1,130	364	594	1.20	1.38	.776
February.....	2,490	405	972	1.97	2.05	1.27
March.....	1,620	595	897	1.82	2.10	1.18
April.....	2,100	444	853	1.73	1.93	1.12
May.....	1,060	253	547	1.11	1.28	.717
June.....	319	146	196	.397	.44	.257
July.....	409	108	169	.342	.39	.221
August.....	176	78	116	.235	.27	.162
September.....	998	78	182	.368	.41	.238
The year.....	12,600	78	579	1.17	15.91	.756
1935-36						
October.....	1,320	74	152	.308	.36	.199
November.....	1,690	142	450	.911	1.02	.589
December.....	1,740	202	531	1.07	1.23	.692
January.....	2,500	400	939	1.90	2.19	1.23
February.....	3,560	360	853	1.73	1.87	1.12
March.....	11,600	1,200	3,557	7.20	8.30	4.65
April.....	4,240	498	1,331	2.69	3.00	1.74
May.....	500	222	348	.704	.81	.455
June.....	496	155	233	.472	.53	.305
July.....	326	95	177	.358	.41	.231
August.....	508	91	150	.304	.35	.196
September.....	160	76	105	.213	.24	.138
The year.....	11,600	74	737	1.49	20.31	.963
1936-37						
October.....	1,670	82	264	.534	.62	.345
November.....	485	104	175	.354	.40	.229
December.....	1,750	108	723	1.46	1.68	.944
January.....	4,260	768	1,685	3.41	3.93	2.20
February.....	4,610	732	1,341	2.71	2.82	1.75
March.....	929	449	607	1.23	1.42	.795
April.....	11,800	390	2,064	4.18	4.66	2.70
May.....	2,610	372	909	1.84	2.12	1.19
June.....	4,370	300	655	1.33	1.48	.860
July.....	4,150	218	597	1.21	1.40	.782
August.....	1,410	157	296	.599	.69	.387
September.....	450	108	179	.362	.40	.234
The year.....	11,800	82	787	1.59	21.62	1.03
1937-38						
October.....	5,410	117	926	1.87	2.16	1.21
November.....	2,420	425	820	1.66	1.85	1.07
December.....	1,090	260	446	.903	1.04	.584
January.....	994	289	471	.953	1.10	.616
February.....	484	294	356	.721	.75	.466
March.....	2,030	242	669	1.35	1.56	.873
April.....	567	252	369	.747	.83	.483
May.....	1,650	171	433	.877	1.01	.567
June.....	410	141	224	.453	.51	.293
July.....	323	100	151	.306	.35	.198
August.....	560	66	127	.257	.30	.166
September.....	612	76	156	.316	.35	.204
The year.....	5,410	66	430	.870	11.81	.562
1938-39						
October.....	190	76	98.6	.200	.23	.129
November.....	162	74	105	.213	.24	.138
December.....	3,350	200	625	1.27	1.46	.821
January.....	2,340	172	399	.808	.93	.522
February.....	5,460	514	1,390	2.81	2.93	1.82
March.....	3,600	450	986	2.00	2.31	1.29
April.....	2,620	624	1,074	2.17	2.42	1.40
May.....	855	175	401	.812	.94	.525
June.....	2,690	162	378	.765	.85	.494
July.....	1,110	124	340	.688	.79	.445
August.....	256	78	120	.243	.28	.157
September.....	988	64	126	.255	.28	.165
The year.....	5,460	64	497	1.01	13.66	.653

Monthly discharge of Conococheague Creek at Fairview, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	2,370	97	335	0.678	0.78	0.438
November.....	1,680	142	435	.881	.98	.569
December.....	341	106	144	.291	.34	.188
January.....	350	100	133	.269	.31	.174
February.....	2,200	105	647	1.31	1.41	.847
March.....	2,330	530	1,082	2.19	2.52	1.42
April.....	6,180	860	2,041	4.13	4.61	2.67
May.....	1,310	326	594	1.20	1.38	.776
June.....	2,850	274	612	1.24	1.38	.801
July.....	340	136	200	.405	.47	.262
August.....	919	108	227	.460	.53	.297
September.....	2,090	116	306	.619	.69	.400
The year.....	6,180	97	559	1.13	15.40	.730
1940-41						
October.....	298	116	165	.334	.39	.216
November.....	2,710	218	745	1.51	1.68	.976
December.....	2,520	404	828	1.68	1.93	1.09
January.....	1,190	344	566	1.15	1.32	.743
February.....	1,440	291	444	.899	.94	.581
March.....	2,340	316	798	1.62	1.86	1.05
April.....	3,100	320	788	1.60	1.78	1.03
May.....	310	139	218	.441	.51	.285
June.....	1,840	166	445	.901	1.00	.582
July.....	1,230	116	296	.599	.69	.387
August.....	290	93	128	.259	.30	.167
September.....	1,260	67	148	.300	.33	.194
The year.....	3,100	67	463	.937	12.73	.606
1941-42						
October.....	86	65	74.2	-.150	-.17	-.097
November.....	474	74	143	.289	.32	.187
December.....	3,330	98	573	1.16	1.34	.750
January.....	1,100	268	407	.824	.95	.533
February.....	2,500	230	648	1.31	1.37	.847
March.....	1,720	291	850	1.72	1.98	1.11
April.....	4,700	419	1,711	3.46	3.86	2.24
May.....	6,020	358	1,089	2.20	2.54	1.42
June.....	1,550	378	786	1.59	1.78	1.03
July.....	1,050	226	481	.974	1.12	.630
August.....	3,040	294	921	1.86	2.15	1.20
September.....	757	165	271	.549	.61	.355
The year.....	6,020	65	662	1.34	18.19	.866
1942-43						
October.....	9,070	148	1,274	2.58	2.97	1.67
November.....	1,010	386	611	1.24	1.38	.801
December.....	6,880	296	1,190	2.41	2.78	1.56
January.....	2,970	518	901	1.82	2.10	1.18
February.....	2,890	508	1,178	2.38	2.48	1.54
March.....	3,310	514	1,145	2.32	2.67	1.50
April.....	3,640	414	924	1.87	2.09	1.21
May.....	6,780	456	1,287	2.61	3.00	1.69
June.....	922	240	461	.933	1.04	.603
July.....	345	152	213	.431	.50	.279
August.....	156	98	117	.237	.27	.153
September.....	108	66	83.7	-.169	-.19	-.109
The year.....	9,070	66	782	1.58	21.47	1.02

Yearly discharge of Conococheague Creek at Fairview, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	533	1.08	14.64	0.698	692	1.40	19.00	0.905
1930.....	470	.949	12.86	.613	267	.539	7.29	.348
1931.....	320	.646	8.80	.418	328	.663	9.03	.429
1932.....	342	.691	9.42	.447	520	1.05	14.31	.679
1933.....	842	1.70	23.07	1.10	694	1.40	19.03	.905

Yearly discharge of Conococheague Creek at Fairview, Md.--Continued

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1934.....	418	0.846	11.47	0.547	573	1.16	15.71	0.750
1935.....	579	1.17	15.91	.756	468	.947	12.86	.612
1936.....	737	1.49	20.31	.963	740	1.50	20.40	.969
1937.....	787	1.59	21.62	1.03	873	1.77	23.97	1.14
1938.....	430	.870	11.81	.562	316	.640	8.69	.414
1939.....	497	1.01	13.66	.653	503	1.02	13.83	.659
1940.....	559	1.13	15.40	.730	628	1.27	17.30	.821
1941.....	463	.937	12.73	.606	385	.779	10.56	.503
1942.....	662	1.34	18.19	.866	855	1.73	23.49	1.12
1943.....	782	1.58	21.47	1.02	-	-	-	-
Highest....	842	1.70	23.07	1.10	873	1.77	23.97	1.14
Average....	561	1.14	15.42	.737	560	1.13	15.39	.730
Lowest....	320	.646	8.80	.418	267	.539	7.29	.348

Opaquon Creek near Martinsburg, W. Va.

Location.- Chain gage, lat. 39°25'24", long. 77°56'19", at highway bridge 3 miles southeast of Martinsburg, Berkeley County, and 0.2 mile upstream from Evans Run.
 Drainage area.- 275 square miles.
 Records available.- May 1905 to July 1906.
 Extremes.- Maximum daily discharge, 3,440 second-feet Jan. 4, 1906; minimum daily, 50 second-feet Oct. 10, 16, 17, Nov. 5-7, 10, 18-28, 1905.

Monthly discharge of Opaquon Creek near Martinsburg, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
May 9-31.....	253	116	144	0.524	0.45	0.339
1905-6						
October 8-31.....	155	50	67.4	.245	.22	.158
November.....	90	50	61.1	.222	.25	.143
December.....	2,830	54	337	1.23	1.42	.795
January.....	3,440	153	352	1.28	1.48	.827
February.....	149	107	123	.447	.47	.289
March.....	2,770	104	480	1.75	2.02	1.13
April.....	3,310	205	509	1.85	2.06	1.20
May.....	200	122	151	.549	.63	.355
June.....	1,600	122	338	1.23	1.37	.795
July 1-15.....	2,980	138	385	1.40	.78	.905

Antietam Creek near Sharpsburg, Md.

Location.- Water-stage recorder, lat. 39°27'01", long. 77°43'52", 400 feet downstream from Burnside Bridge, and 1 mile southeast of Sharpsburg, Washington County. Datum of gage is 311.00 feet above mean sea level, adjustment of 1912. Prior to July 14, 1933, staff gage at Burnside Bridge, present datum. From June 24, 1897 to Aug. 5, 1905, staff gage just below Middle Bridge, 1.2 miles upstream, datum unknown.
 Drainage area.- 281 square miles. Prior to August 1928, 278 square miles.
 Records available.- June 1897 to August 1905, August 1928 to September 1943.
 Extremes.- 1928-43: Maximum discharge, 6,880 second-feet Apr. 27, 1937 (gage height, 10.7 feet), from rating curve extended above 4,300 second-feet; minimum, 35 second-feet (regulated) Jan. 15, 1931; minimum daily, 50 second-feet Sept. 29, 1930, Feb. 1, Oct. 4, 1931.

Maximum stage known, 11.9 feet sometime in July 1928, from floodmarks.
 Remarks.- Flow partially regulated by power plant at Sreathedville. Records include pumpage from the Potomac River for municipal supply of Hagerstown. This water later enters Antietam Creek above station as sewage. Pumpage and sewage-flow records can be obtained from the office of Chief Engineer, Maryland State Department of Health, Baltimore. Small amount of water diverted for supply of Mt. Alto Sanatorium in Pennsylvania; sewage is discharged into Conococheague Creek Basin.

Monthly discharge of Antietam Creek near Shersburg, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1897						
July.....	231	100	146	0.525	0.61	0.339
August.....	560	74	161	.579	.67	.374
September.....	177	74	114	.410	.46	.265
1897-98						
October.....	153	74	109	.392	.45	.253
November.....	437	74	140	.504	.56	.326
December.....	362	110	210	.755	.87	.488
January.....	628	91	303	1.09	1.26	.704
February.....	517	203	302	1.09	1.14	.704
March.....	676	203	312	1.12	1.29	.724
April.....	476	231	316	1.14	1.27	.737
May.....	676	203	375	1.35	1.56	.873
June.....	327	153	226	.813	.91	.525
July.....	261	131	155	.558	.64	.361
August.....	1,800	153	322	1.16	1.34	.750
September.....	231	131	167	.601	.67	.388
The year.....	1,800	74	245	.881	11.96	.569
1898-99						
October.....	456	91	200	.719	.83	.465
November.....	399	131	249	.896	1.00	.579
December.....	4,020	203	598	2.15	2.48	1.39
January.....	832	399	529	1.90	2.19	1.23
February.....	2,030	327	682	2.45	2.55	1.58
March.....	1,610	560	897	3.23	3.72	2.09
April.....	752	327	483	1.74	1.94	1.12
May.....	517	261	358	1.29	1.49	.834
June.....	945	203	317	1.14	1.27	.737
July.....	246	110	169	.608	.70	.393
August.....	778	110	200	.719	.83	.465
September.....	293	110	160	.576	.64	.372
The year.....	4,020	91	402	1.45	19.64	.937
1899-1900						
October.....	153	74	109	.392	.45	.253
November.....	327	91	144	.518	.58	.335
December.....	418	91	133	.478	.55	.309
January.....	362	91	158	.568	.65	.367
February.....	1,180	91	372	1.34	1.40	.866
March.....	975	277	432	1.55	1.79	1.00
April.....	362	203	291	1.05	1.17	.679
May.....	605	153	222	.799	.92	.516
June.....	380	131	181	.651	.73	.421
July.....	203	74	115	.414	.48	.268
August.....	203	74	112	.403	.46	.260
September.....	153	74	91.7	.330	.37	.213
The year.....	1,180	74	195	.701	9.55	.453
1900-1						
October.....	217	59	99.1	.356	.41	.230
November.....	362	74	114	.410	.46	.265
December.....	327	59	110	.396	.46	.256
January.....	131	74	90.5	.326	.38	.211
February.....	153	59	92.4	.332	.35	.215
March.....	2,000	74	285	1.03	1.19	.666
April.....	1,920	362	632	2.27	2.53	1.47
May.....	2,720	231	523	1.88	2.17	1.22
June.....	476	261	341	1.23	1.37	.795
July.....	362	153	238	.856	.98	.553
August.....	1,040	131	218	.784	.90	.507
September.....	399	110	171	.615	.69	.397
The year.....	2,720	59	243	.874	11.90	.565

Monthly discharge of Antietam Creek near Sharpsburg, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1901-2						
October.....	261	91	130	0.468	0.54	0.302
November 1-16.....	110	74	98.4	.354	.21	.229
December.....	-	-	-	-	-	-
January.....	1,250	231	410	1.47	1.70	.950
February.....	6,840	177	871	3.13	3.26	2.02
March.....	3,300	517	1,068	3.84	4.43	2.48
April.....	2,840	399	662	2.38	2.66	1.54
May.....	517	261	313	1.13	1.30	.730
June.....	327	177	249	.896	1.00	.579
July.....	805	131	232	.835	.96	.540
August.....	399	74	141	.507	.58	.328
September.....	293	74	113	.406	.45	.262
1902-3						
October.....	293	110	150	.540	.62	.349
November.....	293	91	131	.471	.53	.304
December.....	1,160	153	570	2.05	2.36	1.32
January.....	1,610	399	843	3.03	3.49	1.96
February.....	2,290	293	849	3.05	3.18	1.97
March.....	1,280	437	750	2.70	3.11	1.75
April.....	3,040	517	926	3.33	3.72	2.15
May.....	701	293	398	1.43	1.65	.924
June.....	860	293	350	1.26	1.41	.814
July.....	4,110	362	738	2.65	3.06	1.71
August.....	860	203	354	1.27	1.46	.821
September.....	560	177	242	.871	.97	.563
The year.....	4,110	91	524	1.88	25.56	1.22
1903-4						
October.....	560	165	226	.813	.94	.525
November.....	203	153	172	.619	.69	.400
December.....	399	153	195	.701	.81	.453
January 1-23.....	2,480	131	300	1.08	.92	.698
July 12-31.....	261	110	145	.522	.39	.337
August.....	560	82	126	.453	.52	.293
September.....	165	74	101	.363	.40	.235
1904-5						
October.....	190	74	96.7	.348	.40	.225
November.....	120	66	92.8	.334	.37	.216
December.....	246	74	110	.396	.46	.256
January.....	805	110	229	.824	.95	.533
February.....	203	131	161	.579	.60	.374
March.....	1,060	131	508	1.83	2.11	1.18
April.....	476	231	332	1.19	1.33	.769
May.....	231	153	196	.705	.81	.456
June.....	399	131	190	.683	.76	.441
July.....	1,750	142	311	1.12	1.29	.724
August 1-25.....	2,520	177	326	1.17	1.09	.756
1926						
August 21-31.....	480	231	269			
September.....	435	184	245			
1928-29						
October.....	238	138	169			
November.....	168	129	145			
December.....	250	129	148			
January.....	-	-	152			
February.....	935	-	243			
March.....	1,490	337	592			
April.....	1,440	296	502			
May.....	3,210	310	603			
June.....	393	185	264			
July.....	232	133	171			
August.....	181	81	112			
September.....	268	73	93.2			
The year.....	3,210	73	267			

Monthly discharge of Antietam Creek near Sharpsburg, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per equare mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	1,590	96	300			
November.....	565	213	296			
December.....	319	-	227			
January.....	278	-	217			
February.....	437	-	326			
March.....	1,160	291	430			
April.....	598	238	317			
May.....	251	156	189			
June.....	333	103	157			
July.....	166	93	110			
August.....	106	61	90.3			
September.....	123	50	91.0			
The year.....	1,590	50	229			
1930-31						
October.....	119	52	86.5			
November.....	112	72	97.3			
December.....	406	68	92.5			
January.....	134	53	78.4			
February.....	101	50	72.5			
March.....	319	65	101			
April.....	775	70	167			
May.....	369	77	139			
June.....	699	82	154			
July.....	1,240	96	259			
August.....	553	90	132			
September.....	306	70	112			
The year.....	1,240	50	125			
1931-32						
October.....	93	50	74.1			
November.....	90	65	77.5			
December.....	109	56	69.6			
January.....	183	71	99.3			
February.....	233	79	115			
March.....	661	90	222			
April.....	545	176	297			
May.....	1,940	224	520			
June.....	261	143	202			
July.....	163	101	126			
August.....	143	82	97.2			
September.....	457	76	109			
The year.....	1,940	50	168			
1932-33						
October.....	725	75	170			
November.....	2,140	153	419			
December.....	379	150	222			
January.....	480	197	264			
February.....	445	222	294			
March.....	1,260	234	543			
April.....	1,040	445	647			
May.....	690	318	472			
June.....	515	174	248			
July.....	1,340	151	289			
August.....	3,230	136	334			
September.....	1,000	186	267			
The year.....	3,230	75	347			
1933-34						
October.....	560	180	234			
November.....	198	141	162			
December.....	176	120	139			
January.....	380	110	203			
February.....	152	90	120			
March.....	336	110	193			
April.....	398	226	294			
May.....	340	174	229			
June.....	300	115	158			
July.....	145	86	103			
August.....	178	76	96.9			
September.....	1,020	66	140			
The year.....	1,020	66	173			

Monthly discharge of Antietam Creek near Sharpsburg, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	358	95	128			
November.....	196	81	105			
December.....	1,870	184	363			
January.....	338	170	217			
February.....	681	202	366			
March.....	570	307	410			
April.....	744	325	459			
May.....	507	228	336			
June.....	263	156	191			
July.....	1,820	117	205			
August.....	158	95	122			
September.....	267	87	114			
The year.....	1,870	81	251			
1935-36						
October.....	283	74	97.8			
November.....	188	89	120			
December.....	292	111	171			
January.....	606	158	376			
February.....	1,190	212	362			
March.....	3,230	755	1,290			
April.....	1,190	422	692			
May.....	427	219	311			
June.....	386	166	212			
July.....	238	131	163			
August.....	430	118	157			
September.....	173	95	116			
The year.....	3,230	74	340			
1936-37						
October.....	271	93	118			
November.....	107	85	93.5			
December.....	427	85	207			
January.....	1,000	229	481			
February.....	1,910	423	615			
March.....	550	307	395			
April.....	5,180	261	718			
May.....	975	299	496			
June.....	725	257	347			
July.....	569	181	243			
August.....	866	140	207			
September.....	212	114	140			
The year.....	5,180	85	336			
1937-38						
October.....	1,700	107	301			
November.....	654	240	330			
December.....	500	190	260			
January.....	400	160	223			
February.....	226	159	179			
March.....	355	164	234			
April.....	266	175	210			
May.....	642	140	225			
June.....	300	130	172			
July.....	238	111	136			
August.....	240	83	113			
September.....	424	92	122			
The year.....	1,700	83	209			
1938-39						
October.....	100	79	88.1			
November.....	124	79	97.2			
December.....	696	110	265			
January.....	568	133	200			
February.....	1,420	332	532			
March.....	916	334	455			
April.....	769	321	453			
May.....	515	218	332			
June.....	451	167	237			
July.....	319	130	171			
August.....	231	97	121			
September.....	165	84	103			
The year.....	1,420	79	251			

Monthly discharge of Antletam Creek near Sharpsburg, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	370	94	128			
November.....	340	113	154			
December.....	161	99	111			
January.....	312	92	120			
February.....	700	95	253			
March.....	804	310	462			
April.....	1,570	438	766			
May.....	1,010	336	461			
June.....	596	228	339			
July.....	538	159	206			
August.....	400	126	168			
September.....	1,060	118	202			
The year.....	1,570	92	280			
1940-41						
October.....	410	154	204			
November.....	1,050	186	443			
December.....	656	306	402			
January.....	539	306	384			
February.....	375	258	298			
March.....	511	236	337			
April.....	900	266	385			
May.....	259	169	215			
June.....	392	150	205			
July.....	249	115	147			
August.....	238	104	120			
September.....	160	86	100			
The year.....	1,050	86	270			
1941-42						
October.....	100	75	84.9			
November.....	139	75	93.2			
December.....	229	81	121			
January.....	137	90	109			
February.....	344	98	158			
March.....	461	129	274			
April.....	1,080	288	519			
May.....	1,630	214	390			
June.....	406	208	274			
July.....	288	169	222			
August.....	1,150	178	410			
September.....	375	187	241			
The year.....	1,630	75	242			
1942-43						
October.....	1,390	166	410			
November.....	502	299	377			
December.....	1,590	270	451			
January.....	975	348	481			
February.....	950	357	572			
March.....	945	355	543			
April.....	720	330	419			
May.....	1,110	290	413			
June.....	363	186	247			
July.....	222	134	164			
August.....	137	110	121			
September.....	112	90	99.0			
The year.....	1,590	90	357			

Yearly discharge of Antietam Creek near Sharpsburg, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1898.....	245	0.881	11.96	0.569	294	1.06	14.39	0.685
1899.....	402	1.45	19.64	.937	349	1.26	16.91	.814
1900.....	195	.701	9.55	.453	192	.691	9.30	.447
1901.....	243	.874	11.90	.565	-	-	-	-
1902.....	-	-	-	-	409	1.47	19.85	.950
1903.....	524	1.88	25.56	1.22	504	1.81	24.49	1.17
1929.....	267				297			
1930.....	229				183			
1931.....	125				120			
1932.....	168				217			
1933.....	347				325			
1934.....	173				178			
1935.....	251				233			
1936.....	340				342			
1937.....	336				376			
1938.....	209				172			
1939.....	251				246			
1940.....	280				335			
1941.....	270				207			
1942.....	242				321			
1943.....	357				-			
1928-43								
Highest.....	357				376			
Average.....	256				254			
Lowest.....	125				120			

Chesapeake & Ohio Canal at Point of Rocks, Md.

Location.- Staff gage, lat. 39°16'55", long. 77°32'55", at canal locks 0.6 mile above Potomac River bridge at Point of Rocks, Frederick County.

Records available.- July 1931 to September 1936.

Extremes.- Maximum discharge observed, 146 second-feet May 13, 1932 (gage height, 2.64 feet); no flow at times.

Remarks.- Canal diverts from left bank of Potomac River at Harpers Ferry and returns below gaging station on Potomac River at Point of Rocks. Canal closed after Nov. 20, 1935 and not reopened, as flood of March 1936 destroyed canal banks above gage.

Monthly discharge of Chesapeake & Ohio Canal at Point of Rocks, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931						
July 14-31.....	64	39	47.3			
August.....	55	30	41.5			
September.....	52	34	41.3			
1931-32						
October.....	42	8.1	34.0			
November.....	30	0	17.8			
December.....	3.1	0	.38			
January.....	0	0	0			
February.....	0	0	0			
March.....	0	0	0			
April.....	48	0	7.6			
May.....	146	8.1	41.1			
June.....	31	14	21.5			
July.....	63	12	23.9			
August.....	56	30	45.2			
September.....	39	22	32.0			
The year.....	146	0	18.7			

Monthly discharge of Chesapeake & Ohio Canal at Point of Rocks, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	72	24	49.1			
November.....	68	0	8.61			
December.....	0	0	0			
January.....	0	0	0			
February.....	0	0	0			
March.....	0	0	0			
April.....	0	0	0			
May.....	63	0	40.3			
June.....	43	27	32.2			
July.....	40	12	26.2			
August.....	64	20	36.0			
September.....	53	36	42.3			
The year.....	72	0	19.7			
1933-34						
October.....	58	44	50.7			
November.....	36	0	43.6			
December.....	0	0	0			
January.....	0	0	0			
February.....	0	0	0			
March.....	0	0	0			
April.....	0	0	0			
May.....	38	0	19.5			
June.....	44	26	32.8			
July.....	36	11	22.5			
August.....	26	16	19.8			
September.....	64	16	28.3			
The year.....	64	0	18.2			
1934-35						
October.....	52	43	45.5			
November.....	45	0	22.2			
December.....	0	0	0			
January.....	0	0	0			
February.....	0	0	0			
March.....	0	0	0			
April.....	0	0	0			
May.....	43	0	23.9			
June.....	43	34	40.5			
July.....	43	38	39.9			
August.....	46	34	40.0			
September.....	66	34	45.0			
The year.....	56	0	21.5			
1935-36						
October.....	57	38	50.5			
November.....	53	0	34.6			
December.....	0	0	0			
January.....	0	0	0			
February.....	0	0	0			
March.....	0	0	0			
April.....	0	0	0			
May.....	0	0	0			
June.....	0	0	0			
July.....	0	0	0			
August.....	0	0	0			
September.....	0	0	0			
The year.....	57	0	7.1			

Yearly discharge of Chesapeake & Ohio Canal at Point of Rocks, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1932.....	18.7				19.2			
1933.....	19.7				22.7			
1934.....	18.2				16.0			
1935.....	21.5				23.0			
1936.....	7.1				-			

North River near Burkettown, Va.

Location.- Water-stage recorder, lat. 38°21', long. 78°55', 2½ miles northeast of Burkettown, Auguste County, and 8 miles upstream from Middle River. Datum of gage is 1,103.49 feet above mean sea level, datum of 1929. Prior to Dec. 12, 1938, staff gage at site 2 miles downstream.

Drainage area.- 375 square miles; 381 square miles prior to Dec. 12, 1938.

Records available.- June 1926 to September 1943.

Extremes.- Maximum discharge, 43,000 second-feet Oct. 15, 1942 (gage height, 32.4 feet, from floodmark), by slope-area determination; minimum, 20 second-feet Sept. 24, 1930 (gage height, 1.16 feet, site end datum then in use).

Records.- Some regulation at low flow by mills above station.

Monthly discharge of North River near Burkettown, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square milla		
1926						
June.....	237	85	136	0.357	0.40	0.231
July.....	2,510	62	169	.444	.51	.287
August.....	1,480	73	237	.622	.72	.402
September.....	308	81	158	.415	.46	.268
1926-27						
October.....	369	101	198	.520	.60	.336
November.....	4,300	134	711	1.87	2.09	1.21
December.....	3,400	259	649	1.70	1.96	1.10
January.....	684	214	323	.848	.98	.548
February.....	2,160	290	719	1.89	1.97	1.22
March.....	760	214	370	.971	1.12	.628
April.....	3,490	308	1,160	3.04	3.39	1.96
May.....	1,820	203	453	1.19	1.37	.769
June.....	225	134	182	.478	.53	.309
July.....	383	97	145	.381	.44	.246
August.....	253	105	152	.399	.46	.258
September.....	129	73	101	.265	.30	.171
The year.....	4,300	73	427	1.12	15.21	.724
1927-28						
October.....	3,450	73	445	1.17	1.35	.756
November.....	1,560	178	358	.966	1.08	.624
December.....	1,650	203	503	1.32	1.52	.853
January.....	521	163	287	.753	.87	.467
February.....	760	225	411	1.08	1.16	.698
March.....	875	183	364	.955	1.10	.617
April.....	3,370	334	711	1.87	2.09	1.21
May.....	5,260	248	685	1.80	2.08	1.16
June.....	722	214	392	1.03	1.15	.666
July.....	1,070	129	323	.848	.98	.548
August.....	4,310	124	758	1.99	2.29	1.29
September.....	760	225	411	1.08	1.20	.698
The year.....	5,260	73	472	1.24	16.87	.801
1928-29						
October.....	246	120	160	.420	.48	.271
November.....	140	97	120	.315	.35	.204
December.....	341	140	211	.554	.64	.358
January.....	532	181	335	.879	1.01	.568
February.....	3,020	181	401	1.05	1.09	.679
March.....	3,280	334	996	2.61	3.01	1.69
April.....	4,400	246	859	2.25	2.51	1.45
May.....	1,990	257	656	1.72	1.98	1.11
June.....	1,230	202	378	.992	1.11	.641
July.....	347	97	184	.483	.56	.312
August.....	120	62	87.9	.231	.27	.149
September.....	170	50	65.8	.173	.19	.112
The year.....	4,400	50	371	.974	13.20	.630
1929-30						
October.....	4,050	68	435	1.14	1.31	.737
November.....	3,370	170	558	1.46	1.63	.944
December.....	606	170	293	.769	.89	.497
January.....	496	155	245	.643	.74	.416
February.....	718	155	328	.861	.90	.556
March.....	1,070	186	421	1.10	1.27	.711
April.....	322	145	221	.580	.65	.375
May.....	140	85	106	.278	.32	.180
June.....	150	62	88.0	.231	.26	.149
July.....	72	35	55.3	.145	.17	.094
August.....	68	32	45.5	.119	.14	.077
September.....	44	22	34.2	.090	.10	.058
The year.....	4,050	22	235	.617	8.38	.399

Monthly Discharge of North River near Burkettown, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930-31						
October.....	50	25	38.1	0.100	0.12	0.065
November.....	50	25	36.5	.096	.11	.062
December.....	160	26	43.3	.114	.13	.074
January.....	990	22	82.9	.218	.25	.141
February.....	72	35	47.9	.126	.13	.081
March.....	1,070	62	214	.562	.65	.363
April.....	1,230	207	602	1.58	1.76	1.02
May.....	1,230	186	559	1.47	1.70	.950
June.....	873	160	348	.913	1.02	.590
July.....	1,390	120	361	.948	1.09	.613
August.....	990	125	288	.756	.87	.489
September.....	286	65	124	.325	.36	.210
The year.....	1,390	25	230	.604	8.19	.390
1931-32						
October.....	88	43	63.2	.166	.19	.107
November.....	64	30	48.9	.128	.14	.083
December.....	77	34	43.5	.114	.13	.074
January.....	118	43	76.5	.201	.23	.130
February.....	2,630	100	370	.971	1.05	.628
March.....	3,900	88	774	2.03	2.34	1.31
April.....	950	208	392	1.03	1.15	.666
May.....	3,140	198	813	2.13	2.46	1.38
June.....	177	85	114	.299	.33	.193
July.....	347	57	110	.289	.33	.187
August.....	69	32	50.1	.131	.15	.085
September.....	242	33	50.7	.133	.15	.086
The year.....	3,900	30	243	.638	8.65	.412
1932-33						
October.....	3,820	38	468	1.23	1.42	.795
November.....	3,220	310	796	2.09	2.33	1.35
December.....	1,390	166	361	.948	1.09	.613
January.....	2,460	258	575	1.51	1.74	.976
February.....	910	384	617	1.62	1.69	1.05
March.....	2,380	293	605	1.59	1.83	1.03
April.....	6,750	359	1,340	3.52	3.93	2.28
May.....	990	264	511	1.34	1.54	.866
June.....	299	85	151	.396	.44	.256
July.....	2,290	59	375	.984	1.13	.636
August.....	3,820	127	469	1.23	1.42	.795
September.....	264	88	149	.391	.44	.253
The year.....	6,750	38	533	1.40	19.00	.905
1933-34						
October.....	123	56	76.3	.200	.23	.129
November.....	93	48	60.1	.158	.18	.102
December.....	70	44	52.6	.138	.16	.089
January.....	144	48	89.8	.236	.27	.153
February.....	103	54	78.1	.205	.21	.132
March.....	2,570	76	605	1.59	1.83	1.03
April.....	740	195	352	.924	1.03	.597
May.....	242	103	169	.444	.51	.287
June.....	508	79	158	.415	.46	.268
July.....	252	54	78.7	.207	.24	.134
August.....	3,860	48	383	1.01	1.16	.653
September.....	2,920	73	446	1.17	1.30	.756
The year.....	3,860	44	213	.559	7.58	.361
1934-35						
October.....	700	110	243	.638	.74	.412
November.....	3,520	103	392	1.03	1.15	.666
December.....	14,800	252	1,087	2.85	3.29	1.84
January.....	5,330	264	850	2.23	2.57	1.44
February.....	1,970	473	860	2.26	2.35	1.46
March.....	1,890	370	720	1.89	2.18	1.22
April.....	2,490	334	1,134	2.98	3.32	1.93
May.....	1,220	275	431	1.13	1.30	.730
June.....	252	96	174	.457	.51	.295
July.....	700	139	232	.609	.70	.394
August.....	3,170	114	523	1.37	1.58	.885
September.....	6,030	162	787	2.07	2.31	1.34
The year.....	14,800	96	617	1.62	22.00	1.05

Monthly discharge of North River near Burketown, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1935-36						
October.....	210	90	120	0.315	0.36	0.204
November.....	2,060	90	415	1.09	1.22	.704
December.....	1,060	200	391	1.03	1.19	.666
January.....	2,920	195	958	2.51	2.89	1.62
February.....	2,830	231	1,029	2.70	2.91	1.75
March.....	13,600	474	1,932	5.07	5.84	3.28
April.....	1,970	275	728	1.91	2.13	1.23
May.....	316	152	227	.596	.69	.385
June.....	236	110	154	.404	.45	.261
July.....	242	76	107	.281	.32	.182
August.....	152	54	82.9	.218	.25	.141
September.....	281	44	71.6	.188	.21	.122
The year.....	13,600	44	517	1.36	18.46	.879
1936-37						
October.....	2,570	51	236	.619	.71	.400
November.....	144	70	102	.268	.30	.173
December.....	660	70	399	1.05	1.21	.679
January.....	4,030	660	1,337	3.51	4.05	2.27
February.....	5,770	433	935	2.45	2.55	1.58
March.....	590	278	357	.937	1.08	.606
April.....	10,000	190	947	2.49	2.78	1.61
May.....	1,030	248	413	1.08	1.24	.698
June.....	1,240	218	463	1.22	1.36	.789
July.....	392	91	159	.417	.48	.270
August.....	1,440	70	253	.664	.77	.429
September.....	2,350	152	507	1.33	1.48	.860
The year.....	10,000	51	506	1.33	18.01	.860
1937-38						
October.....	5,240	152	1,149	3.02	3.48	1.95
November.....	1,060	264	457	1.20	1.34	.776
December.....	621	247	324	.850	.98	.549
January.....	900	190	307	.806	.93	.521
February.....	364	221	279	.732	.76	.473
March.....	340	195	268	.703	.81	.454
April.....	304	236	274	.719	.80	.465
May.....	980	103	289	.759	.88	.491
June.....	950	124	299	.785	.88	.507
July.....	2,770	106	522	1.37	1.58	.885
August.....	2,770	143	603	1.58	1.82	1.02
September.....	184	70	119	.312	.35	.202
The year.....	5,240	70	410	1.08	14.61	.698
1938-39						
October.....	91	39	71.5	.188	.22	.122
November.....	99	50	67.2	.176	.20	.114
December.....	550	70	136	.363	.42	.235
January.....	3,230	100	352	.939	1.08	.607
February.....	5,370	383	1,256	3.35	3.49	2.17
March.....	1,520	252	671	1.79	2.06	1.16
April.....	1,490	168	418	1.11	1.24	.717
May.....	1,220	174	332	.885	1.02	.572
June.....	362	98	147	.392	.44	.253
July.....	6,300	91	613	1.63	1.88	1.05
August.....	1,130	126	277	.739	.85	.478
September.....	119	70	89.5	.239	.27	.154
The year.....	6,300	39	364	.971	13.17	.628
1939-40						
October.....	395	70	114	.304	.35	.196
November.....	98	70	83.0	.221	.25	.143
December.....	112	70	84.0	.224	.26	.145
January.....	293	66	119	.317	.37	.205
February.....	694	76	330	.880	.95	.569
March.....	980	174	325	.867	1.00	.560
April.....	2,240	272	646	1.72	1.92	1.11
May.....	3,870	134	458	1.22	1.41	.789
June.....	3,620	252	1,199	3.20	3.57	2.07
July.....	366	130	213	.568	.65	.367
August.....	4,290	120	751	2.00	2.31	1.29
September.....	1,790	152	349	.931	1.04	.602
The year.....	4,290	66	388	1.03	14.08	.666

Monthly discharge of North River near Burkettown, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	176	100	126	0.336	0.39	0.217
November.....	531	109	217	.579	.65	.374
December.....	1,980	174	514	1.37	1.58	.885
January.....	980	270	448	1.19	1.37	.769
February.....	559	165	258	.635	.66	.410
March.....	555	141	323	.861	.99	.556
April.....	2,580	191	563	1.50	1.67	.969
May.....	185	100	133	.355	.41	.229
June.....	192	82	119	.317	.35	.205
July.....	238	80	122	.325	.37	.210
August.....	80	46	64.3	.171	.20	.111
September.....	68	44	54.6	.146	.16	.094
The year.....	2,580	44	244	.651	8.80	.421
1941-42						
October.....	56	37	46.9	.125	.14	.081
November.....	61	41	49.2	.131	.15	.085
December.....	144	47	74.5	.199	.23	.129
January.....	138	88	101	.269	.31	.174
February.....	443	99	201	.536	.56	.346
March.....	1,830	121	477	1.27	1.46	.821
April.....	568	131	297	.792	.88	.512
May.....	14,500	96	1,486	3.96	4.56	2.56
June.....	1,100	162	443	1.18	1.32	.763
July.....	157	71	110	.293	.34	.189
August.....	2,180	67	561	1.50	1.73	.969
September.....	525	117	195	.520	.58	.336
The year.....	14,500	37	339	.904	12.26	.584
1942-43						
October.....	20,100	148	1,500	4.00	4.61	2.59
November.....	523	226	338	.901	1.01	.582
December.....	4,380	183	522	1.39	1.60	.898
January.....	1,670	290	506	1.35	1.56	.873
February.....	1,850	283	745	1.99	2.07	1.29
March.....	2,720	240	822	2.19	2.52	1.42
April.....	2,510	233	573	1.53	1.71	.989
May.....	2,650	226	841	2.24	2.58	1.45
June.....	1,280	283	513	1.37	1.53	.885
July.....	1,920	190	512	1.37	1.58	.885
August.....	215	85	128	.341	.39	.220
September.....	90	65	77.6	.207	.23	.134
The year.....	20,100	65	591	1.58	21.39	1.02

Yearly discharge of North River near Burkettown, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1927.....	427	1.12	15.21	0.724	407	1.07	14.51	0.692
1928.....	472	1.24	16.87	.801	403	1.06	14.39	.685
1929.....	371	.974	13.20	.630	437	1.15	15.56	.743
1930.....	235	.617	8.38	.399	137	.360	4.91	.233
1931.....	230	.604	8.19	.390	233	.612	8.29	.396
1932.....	243	.638	8.65	.412	365	.958	13.03	.619
1933.....	533	1.40	19.00	.905	414	1.09	14.73	.704
1934.....	213	.559	7.58	.361	342	.898	12.19	.580
1935.....	617	1.62	22.00	1.05	550	1.44	19.59	.931
1936.....	517	1.36	18.46	.879	502	1.32	17.91	.853
1937.....	506	1.33	18.01	.860	606	1.59	21.59	1.03
1938.....	410	1.08	14.61	.698	270	.709	9.65	.458
1939.....	364	.971	13.17	.628	364	.971	13.19	.628
1940.....	388	1.03	14.08	.666	436	1.16	15.84	.750
1941.....	244	.651	8.80	.421	186	.496	6.70	.321
1942.....	339	.904	12.26	.584	524	1.40	18.96	.905
1943.....	591	1.58	21.39	1.02	-	-	-	-
Highest.....	617	1.62	22.00	1.05	606	1.59	21.59	1.03
Average.....	394	1.04	14.11	.672	386	1.02	13.82	.659
Lowest.....	213	.559	7.58	.361	137	.360	4.91	.233

North River at Port Republic, Va.

Location.- Staff gage, lat. 38°18'06", long. 78°48'42", on highway bridge at Port Republic, Rockingham County, 500 feet upstream from South River.

Drainage area.- 804 square miles.

Records available.- August 1895 to March 1899.

Extremes.- Maximum discharge observed, 23,900 second-feet Sept. 30, 1896 (gage height, 18.0 feet), from rating curve extended above 3,420 second-feet; minimum, 177 second-feet Sept. 24-28, 1896 (gage height, 1.65 feet).

Remarks.- Low flow regulated by power plant about 200 feet above the bridge.

Monthly discharge of North River at Port Republic, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1895						
August 6-31.....	445	292	319	0.397	0.39	0.257
September.....	2,640	245	346	.430	.48	.278
1895-96						
October.....	245	202	219	.272	.31	.176
November.....	275	202	239	.297	.33	.192
December.....	500	215	251	.312	.36	.202
January.....	5,500	275	799	.994	1.15	.642
February.....	4,800	500	1,488	1.85	1.93	1.20
March.....	7,130	445	1,653	2.05	2.37	1.32
April 1-15, 28-30.....	4,340	350	1,594	1.98	1.33	1.28
May.....	4,960	395	824	1.02	1.18	.659
June.....	2,940	350	642	.799	.89	.516
July.....	7,600	472	1,085	1.35	1.56	.873
August.....	1,550	310	458	.570	.66	.368
September.....	23,900	177	1,231	1.53	1.71	.989
1896-97						
October.....	7,600	420	945	1.17	1.35	.756
November.....	5,270	420	1,088	1.35	1.51	.873
December.....	2,790	420	699	.869	1.00	.562
January.....	420	372	398	.483	.56	.312
February.....	11,200	420	3,138	3.90	4.06	2.52
March.....	2,020	625	1,250	1.55	1.79	1.00
April.....	865	445	642	.799	.89	.516
May.....	13,800	445	2,212	2.75	3.17	1.78
June.....	865	420	489	.608	.68	.393
July.....	1,420	330	463	.576	.66	.372
August.....	330	275	292	.363	.42	.235
September.....	275	215	234	.291	.32	.188
The year.....	13,800	215	973	1.21	16.41	.782
1897-98						
October.....	310	215	250	.311	.36	.201
November.....	555	215	256	.318	.35	.206
December.....	590	230	319	.397	.46	.257
January.....	700	275	491	.611	.70	.395
February.....	625	310	414	.515	.54	.333
March.....	2,480	310	581	.723	.83	.467
April.....	4,030	555	1,110	1.38	1.54	.892
May.....	7,210	445	1,430	1.78	2.05	1.15
June.....	2,480	275	585	.728	.81	.471
July.....	3,720	275	822	1.02	1.18	.659
August.....	9,920	555	3,030	3.77	4.35	2.44
September.....	662	445	520	.647	.72	.418
The year.....	9,920	215	823	1.02	13.89	.659
1898-99						
October.....	11,500	275	1,814	2.26	2.61	1.46
November.....	865	330	507	.631	.70	.408
December.....	6,820	395	1,089	1.35	1.56	.873
January.....	6,360	445	1,126	1.40	1.61	.905
February.....	9,920	395	2,132	2.65	2.76	1.71
March.....	17,700	865	3,452	4.29	4.95	2.77

South Fork Shenandoah River near Lynnwood, Va.

Location.- Water-stage recorder, lat. 38°19', long. 78°46', 1 1/2 miles northeast of Lynnwood, Rockingham County, and 3 miles downstream from confluence of North and South Rivers. Datum of gage is 1,013.13 feet above mean sea level, datum of 1929.

Drainage area.- 1,076 square miles.

Records available.- September 1930 to September 1943.

Extremes.- Maximum discharge, 80,000 second-feet Oct. 15, 1942 (gage height, 27.2 feet), from rating curve extended above 20,000 second-feet by logarithmic plotting on basis of computation of flow over dam at gage height 27.2 feet; minimum, 32 second-feet Sept. 20, 1932 (gage height, 1.63 feet); minimum daily, 93 second-feet Sept. 21, 29, 1930.

Remarks.- Low flow regulated by mill above station.

Monthly discharge of South Fork Shenandoah River near Lynnwood, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930						
September 15-30.....	148	93	115	0.107	0.06	0.069
1930-31						
October.....	153	100	122	.113	.13	.073
November.....	223	114	150	.139	.16	.090
December.....	333	129	172	.160	.18	.103
January.....	1,500	166	278	.258	.30	.167
February.....	264	133	203	.189	.20	.122
March.....	2,160	228	497	.462	.53	.299
April.....	2,760	502	1,310	1.22	1.36	.789
May.....	2,730	414	1,090	1.01	1.16	.653
June.....	1,850	361	713	.663	.74	.429
July.....	2,640	317	696	.647	.75	.418
August.....	4,700	290	784	.729	.84	.471
September.....	724	243	359	.334	.37	.216
The year.....	4,700	100	532	.494	6.72	.319
1931-32						
October.....	302	155	199	.185	.21	.120
November.....	194	136	168	.156	.17	.101
December.....	200	153	180	.167	.19	.108
January.....	1,060	242	485	.451	.52	.291
February.....	5,340	394	882	.820	.88	.530
March.....	6,310	363	1,710	1.59	1.83	1.03
April.....	2,250	577	1,010	.939	1.05	.607
May.....	5,070	512	1,500	1.39	1.60	.898
June.....	489	296	382	.355	.40	.229
July.....	800	206	324	.301	.35	.195
August.....	240	120	166	.154	.18	.100
September.....	627	116	186	.173	.19	.112
The year.....	6,310	116	600	.558	7.57	.361
1932-33						
October.....	10,700	116	1,090	1.01	1.16	.653
November.....	7,350	699	1,820	1.69	1.89	1.09
December.....	4,180	504	1,030	.957	1.10	.619
January.....	6,030	693	1,450	1.35	1.56	.873
February.....	2,540	1,080	1,610	1.50	1.56	.969
March.....	5,340	782	1,470	1.37	1.58	.886
April.....	11,800	930	3,130	2.91	3.25	1.88
May.....	2,500	777	1,310	1.22	1.41	.789
June.....	1,080	373	569	.529	.59	.342
July.....	5,120	336	1,010	.939	1.08	.607
August.....	3,850	406	863	.802	.92	.518
September.....	652	341	450	.400	.45	.259
The year.....	11,800	116	1,310	1.22	16.55	.789
1933-34						
October.....	334	252	289	.269	.31	.174
November.....	304	218	250	.232	.26	.150
December.....	360	196	238	.221	.25	.143
January.....	293	206	251	.233	.27	.151
February.....	314	188	232	.216	.22	.140
March.....	3,860	250	1,877	1.28	1.48	.827
April.....	1,840	566	940	.874	.98	.565
May.....	617	428	490	.455	.52	.294
June.....	2,050	276	508	.472	.53	.305
July.....	699	208	316	.294	.34	.190
August.....	3,020	219	708	.658	.76	.425
September.....	6,040	286	842	.783	.87	.506
The year.....	6,040	196	538	.500	6.79	.323

Monthly discharge of South Fork Shenandoah River near Lynnwood, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	1,520	304	570	0.530	0.61	0.343
November.....	6,690	306	726	.675	.75	.436
December.....	31,200	695	2,667	2.48	2.86	1.60
January.....	16,000	650	2,128	1.98	2.28	1.28
February.....	3,780	1,230	1,989	1.85	1.93	1.20
March.....	5,710	992	1,919	1.78	2.05	1.15
April.....	5,940	1,080	2,968	2.76	3.08	1.78
May.....	1,880	696	984	.914	1.05	.591
June.....	1,140	437	590	.548	.61	.354
July.....	1,310	428	660	.613	.71	.396
August.....	6,680	406	1,138	1.06	1.22	.685
September.....	19,700	484	2,136	1.99	2.22	1.29
The year.....	31,200	304	1,535	1.43	19.37	.924
1935-36						
October.....	750	370	447	.415	.48	.268
November.....	2,790	390	979	.910	1.02	.588
December.....	3,550	683	1,249	1.16	1.34	.750
January.....	7,940	700	2,806	2.61	3.01	1.69
February.....	8,160	850	2,928	2.72	2.93	1.76
March.....	52,400	1,270	5,784	5.38	6.20	3.48
April.....	4,480	829	1,978	1.84	2.05	1.19
May.....	1,300	474	702	.652	.75	.421
June.....	914	352	471	.438	.49	.283
July.....	1,750	312	422	.392	.45	.253
August.....	604	268	348	.323	.37	.209
September.....	3,000	238	423	.393	.44	.254
The year.....	52,400	238	1,543	1.43	19.53	.924
1936-37						
October.....	8,360	286	853	.793	.91	.513
November.....	422	298	348	.323	.36	.209
December.....	1,500	300	963	.895	1.03	.578
January.....	13,000	1,550	3,516	3.27	3.77	2.11
February.....	14,400	1,390	2,523	2.34	2.44	1.51
March.....	1,660	783	1,062	.987	1.14	.638
April.....	30,800	660	2,735	2.54	2.83	1.64
May.....	2,440	674	1,111	1.03	1.19	.666
June.....	1,950	562	884	.822	.92	.531
July.....	1,440	444	600	.558	.64	.361
August.....	3,760	364	800	.743	.86	.490
September.....	3,700	478	1,071	.995	1.11	.643
The year.....	30,800	286	1,364	1.27	17.20	.821
1937-38						
October.....	15,100	458	3,023	2.81	3.24	1.82
November.....	4,390	840	1,524	1.42	1.58	.918
December.....	1,600	672	887	.824	.95	.533
January.....	2,080	588	831	.772	.89	.499
February.....	971	650	727	.676	.70	.437
March.....	1,100	593	755	.702	.81	.454
April.....	934	567	694	.645	.72	.417
May.....	1,300	406	607	.564	.65	.365
June.....	1,560	348	642	.597	.67	.386
July.....	4,020	320	965	.897	1.03	.580
August.....	5,210	369	1,079	1.00	1.15	.646
September.....	943	275	353	.328	.37	.212
The year.....	15,100	275	1,012	.941	12.76	.608
1938-39						
October.....	278	234	250	.232	.27	.150
November.....	540	229	285	.265	.30	.171
December.....	2,060	278	533	.495	.57	.320
January.....	6,930	384	824	.766	.88	.495
February.....	11,500	1,020	2,708	2.52	2.62	1.63
March.....	3,580	766	1,639	1.52	1.75	.982
April.....	2,800	552	998	.928	1.04	.600
May.....	1,620	500	694	.645	.74	.417
June.....	590	321	428	.318	.44	.257
July.....	7,720	296	886	.823	.95	.532
August.....	1,570	324	579	.538	.62	.348
September.....	354	218	265	.246	.27	.159
The year.....	11,500	218	829	.770	10.45	.498

Monthly discharge of South Fork Shenandoah River near Lynnwood, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	624	201	267	0.248	0.29	0.160
November.....	322	220	274	.255	.28	.165
December.....	296	214	254	.236	.27	.153
January.....	1,100	210	357	.332	.38	.215
February.....	2,650	250	1,043	.969	1.04	.626
March.....	1,600	464	743	.691	.80	.447
April.....	3,900	611	1,259	1.17	1.31	.756
May.....	5,680	391	902	.838	.97	.542
June.....	4,960	632	2,188	2.03	2.27	1.31
July.....	1,310	452	635	.590	.68	.381
August.....	24,900	406	2,895	2.69	3.10	1.74
September.....	4,000	540	987	.917	1.02	.593
The year.....	24,900	201	981	.912	12.41	.589
1940-41						
October.....	630	358	441	.410	.47	.265
November.....	2,260	364	714	.664	.74	.429
December.....	5,120	504	1,506	1.21	1.40	.732
January.....	2,310	771	1,193	1.11	1.28	.717
February.....	964	500	663	.616	.64	.398
March.....	1,800	458	868	.907	.93	.522
April.....	5,980	618	1,431	1.33	1.48	.860
May.....	600	319	440	.409	.47	.264
June.....	628	290	377	.350	.39	.226
July.....	778	316	464	.431	.50	.279
August.....	308	229	256	.238	.27	.154
September.....	250	180	214	.199	.22	.129
The year.....	5,980	180	698	.649	8.79	.419
1941-42						
October.....	230	174	192	.178	.21	.115
November.....	226	174	197	.183	.20	.118
December.....	478	177	239	.222	.26	.143
January.....	351	240	273	.254	.29	.164
February.....	892	282	460	.428	.45	.277
March.....	3,270	299	887	.824	.95	.533
April.....	1,030	304	574	.533	.59	.344
May.....	22,400	263	2,836	2.64	3.04	1.71
June.....	2,630	478	1,060	.985	1.10	.637
July.....	596	282	392	.364	.42	.235
August.....	4,720	263	1,307	1.21	1.40	.782
September.....	1,480	310	510	.474	.53	.306
The year.....	22,400	174	748	.695	9.44	.449
1942-43						
October.....	42,700	371	4,172	3.98	4.47	2.51
November.....	1,360	644	917	.852	.95	.551
December.....	10,700	517	1,380	1.28	1.48	.827
January.....	3,970	860	1,380	1.28	1.48	.827
February.....	4,500	852	1,968	1.83	1.91	1.18
March.....	5,890	724	2,009	1.87	2.16	1.21
April.....	7,000	760	1,625	1.51	1.68	.976
May.....	4,610	708	1,771	1.65	1.90	1.07
June.....	3,130	660	1,219	1.13	1.26	.730
July.....	4,000	540	1,067	.992	1.14	.641
August.....	517	299	379	.352	.41	.228
September.....	310	240	267	.248	.28	.160
The year.....	42,700	240	1,515	1.41	19.12	.911

Yearly discharge of South Fork Shenandoah River near Lynnwood, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1931.....	532	0.494	6.72	0.319	541	0.503	6.92	0.325
1932.....	600	.558	7.57	.361	882	.820	11.15	.530
1933.....	1,310	1.22	16.55	.789	1,047	.973	13.22	.629
1934.....	538	.500	6.79	.323	807	.750	10.19	.485
1935.....	1,535	1.43	19.37	.924	1,425	1.32	17.99	.853
1936.....	1,543	1.43	19.53	.924	1,502	1.40	18.99	.905
1937.....	1,364	1.27	17.20	.821	1,638	1.52	20.67	.982
1938.....	1,012	.941	12.76	.608	644	.599	8.13	.387
1939.....	829	.770	10.45	.498	806	.749	10.15	.484
1940.....	981	.912	12.41	.589	1,121	1.04	14.18	.672
1941.....	698	.649	8.79	.419	543	.505	6.85	.326
1942.....	748	.695	9.44	.449	1,242	1.15	15.67	.743
1943.....	1,515	1.41	19.12	.911	-	-	-	-
Highest.....	1,543	1.43	19.53	.924	1,638	1.52	20.67	.982
Average.....	1,016	.944	12.82	.610	1,016	.944	12.83	.610
Lowest.....	532	.494	6.72	.319	541	.503	6.82	.325

South Fork Shenandoah River near Luray, Va.

Location.- Water-stage recorder, lat. 38°39', long. 78°32', at highway bridge 2 miles upstream from Mill Creek and 4 miles west of Luray, Page County. Datum of gage is 721.5 feet above mean sea level, unadjusted. Prior to October 1938, chain gage at same site and datum.

Drainage area.- 1,377 square miles.

Records available.- April 1925 to September 1930, October 1938 to September 1943.

Extremes.- Maximum discharge, 100,000 second-feet Oct. 16, 1942 (gage height, 25.7 feet); minimum, 70 second-feet Sept. 27, 1941 (gage height, 2.15 feet); minimum daily, 135 second-feet Sept. 16, 1925, Sept. 23, 1930.

Flood of Mar. 18, 1936 reached a stage of 23.6 feet, from floodmarks (discharge, 81,600 second-feet).

Remarks.- Flow regulated by power plant at Newport, 10 miles upstream.

Monthly discharge of South Fork Shenandoah River near Luray, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1925						
April 26-30.....	4,200	695	1,940	1.41	0.26	0.911
May.....	4,970	625	1,340	.973	1.12	.629
June.....	2,370	360	618	.449	.50	.290
July.....	1,450	292	507	.368	.42	.238
August.....	442	138	322	.234	.27	.151
September.....	500	135	309	.224	.25	.145
1925-26						
October.....	470	207	351	.255	.29	.165
November.....	780	168	442	.321	.36	.207
December.....	2,390	388	818	.594	.68	.384
January.....	5,660	-	1,240	.901	1.04	.582
February.....	7,010	1,380	2,670	1.94	2.02	1.25
March.....	2,390	820	1,210	.879	1.01	.568
April.....	2,520	1,040	1,730	1.26	1.41	.814
May.....	1,140	562	779	.566	.65	.366
June.....	630	335	450	.327	.36	.211
July.....	1,040	207	379	.275	.32	.178
August.....	3,940	222	756	.549	.63	.355
September.....	820	301	503	.365	.41	.236
The year.....	7,010	168	931	.676	9.18	.437

Monthly discharge of South Fork Shenandoeh River near Luray, Ve.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per dey per square mile
	Maximum	Minimum	Mean	Per square mile		
1926-27						
October.....	865	292	524	0.381	0.44	0.246
November.....	12,400	442	2,010	1.46	1.63	.944
December.....	10,700	780	2,170	1.58	1.82	1.02
January.....	2,220	740	1,120	.813	.94	.525
February.....	8,280	910	2,360	1.73	1.80	1.12
March.....	2,650	780	1,280	.930	1.07	.601
April.....	9,410	820	3,150	2.29	2.56	1.48
May.....	3,490	665	1,360	.988	1.14	.639
June.....	780	360	625	.454	.51	.293
July.....	1,180	296	552	.401	.46	.259
August.....	2,140	360	632	.459	.53	.297
September.....	562	247	370	.269	.30	.174
The year.....	12,400	247	1,340	.973	13.20	.629
1927-28						
October.....	8,280	264	1,840	1.34	1.54	.866
November.....	6,420	665	1,310	.951	1.06	.615
December.....	7,420	865	2,100	1.53	1.76	.989
January.....	1,580	665	999	.725	.84	.469
February.....	2,920	820	1,460	1.06	1.14	.685
March.....	2,020	702	1,090	.792	.91	.512
April.....	10,500	1,040	2,250	1.63	1.82	1.05
May.....	12,100	865	2,200	1.60	1.84	1.03
June.....	1,480	595	914	.664	.74	.429
July.....	2,650	335	819	.595	.69	.385
August.....	10,500	360	2,230	1.62	1.87	1.05
September.....	7,630	820	2,170	1.58	1.76	1.02
The year.....	12,100	264	1,620	1.18	15.97	.763
1928-29						
October.....	1,280	470	713	.518	.60	.335
November.....	740	184	463	.336	.37	.217
December.....	1,090	214	598	.434	.50	.281
January.....	2,520	360	1,120	.813	.94	.525
February.....	4,740	665	1,220	.886	.92	.573
March.....	10,300	1,180	3,030	2.20	2.54	1.42
April.....	17,800	780	2,670	1.94	2.16	1.25
May.....	11,400	1,040	2,380	1.73	1.99	1.12
June.....	2,140	780	1,260	.915	1.02	.591
July.....	2,390	360	915	.664	.77	.429
August.....	665	296	435	.316	.36	.204
September.....	740	273	374	.272	.30	.176
The year.....	17,800	184	1,260	.915	12.47	.591
1929-30						
October.....	12,600	360	1,610	1.17	1.35	.756
November.....	7,630	665	1,390	1.01	1.13	.653
December.....	2,650	665	1,080	.784	.90	.507
January.....	1,800	595	940	.683	.79	.441
February.....	4,740	600	1,370	.995	1.04	.643
March.....	4,570	630	1,380	1.00	1.15	.646
April.....	1,140	264	710	.516	.58	.333
May.....	865	226	499	.362	.42	.234
June.....	1,090	222	438	.318	.35	.206
July.....	470	152	296	.215	.25	.139
August.....	442	141	258	.187	.22	.121
September.....	415	135	257	.187	.21	.121
The year.....	12,600	135	849	.617	8.39	.399
1938-39						
October 21-31.....	464	242	369	.268	.11	.173
November.....	814	307	438	.318	.35	.206
December.....	3,250	413	884	.642	.74	.415
January.....	8,600	544	992	.720	.83	.465
February.....	14,300	1,460	3,891	2.93	2.95	1.83
March.....	4,610	1,060	2,294	1.67	1.92	1.08
April.....	3,540	730	1,351	.981	1.09	.634
May.....	2,120	628	883	.641	.74	.414
June.....	1,110	400	555	.403	.45	.260
July.....	7,820	338	1,040	.755	.87	.488
August.....	2,290	419	826	.600	.69	.388
September.....	555	302	381	.277	.31	.179

Monthly discharge of South Fork Shenandoah River near Luray, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	708	282	361	0.262	0.30	0.169
November.....	478	328	397	.288	.32	.186
December.....	472	303	372	.270	.31	.175
January.....	1,390	264	483	.351	.40	.227
February.....	4,030	340	1,392	1.01	1.09	.653
March.....	2,020	630	1,012	.735	.85	.475
April.....	4,360	786	1,663	1.21	1.35	.782
May.....	3,380	583	1,110	.806	.93	.521
June.....	7,430	872	2,686	1.95	2.18	1.26
July.....	1,270	602	808	.587	.66	.379
August.....	32,400	554	3,637	2.64	3.05	1.71
September.....	4,220	616	1,230	.893	1.00	.577
The year.....	32,400	264	1,259	.914	12.46	.591
1940-41						
October.....	794	450	553	.402	.46	.260
November.....	2,700	456	975	.706	.79	.458
December.....	5,880	674	1,633	1.19	1.37	.769
January.....	3,200	1,070	1,641	1.19	1.37	.769
February.....	1,350	636	890	.646	.67	.418
March.....	2,140	614	1,150	.835	.96	.540
April.....	7,640	794	1,810	1.31	1.46	.847
May.....	812	420	575	.418	.48	.270
June.....	814	328	490	.356	.40	.230
July.....	952	368	616	.447	.52	.289
August.....	482	311	378	.275	.32	.178
September.....	520	237	322	.234	.26	.151
The year.....	7,640	237	920	.668	9.06	.432
1941-42						
October.....	441	234	271	.197	.23	.127
November.....	312	151	254	.184	.21	.119
December.....	610	248	365	.265	.31	.171
January.....	458	310	371	.269	.31	.174
February.....	1,050	370	579	.420	.44	.271
March.....	4,530	424	1,176	.854	.98	.552
April.....	1,520	451	798	.580	.65	.375
May.....	26,600	339	3,410	2.48	2.96	1.60
June.....	2,540	661	1,256	.912	1.02	.589
July.....	792	370	513	.373	.43	.241
August.....	4,080	332	1,670	1.21	1.40	.762
September.....	2,420	433	728	.529	.59	.342
The year.....	26,600	151	954	.693	9.43	.448
1942-43						
October.....	73,300	507	6,332	4.60	5.30	2.97
November.....	1,790	920	1,254	.911	1.02	.589
December.....	11,600	700	1,607	1.17	1.35	.756
January.....	6,350	1,290	2,001	1.45	1.67	.937
February.....	5,640	1,170	2,612	1.90	1.98	1.23
March.....	7,600	1,020	2,628	1.91	2.20	1.23
April.....	7,550	960	2,112	1.53	1.71	.989
May.....	5,980	1,010	2,312	1.68	1.94	1.09
June.....	3,340	786	1,456	1.06	1.18	.685
July.....	4,000	600	1,153	.837	.96	.541
August.....	730	423	521	.378	.44	.244
September.....	450	287	386	.280	.31	.181
The year.....	73,300	287	2,034	1.48	20.06	.957

Yearly discharge of South Fork Shenandoah River near Luray, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1926.....	931	0.676	9.18	0.437	1,190	0.864	11.74	0.558
1927.....	1,340	.973	13.20	.629	1,390	1.01	13.67	.653
1928.....	1,620	1.18	15.97	.763	1,320	.959	13.08	.620
1929.....	1,260	.915	12.47	.591	1,460	1.06	14.38	.685
1930.....	849	.617	8.39	.399	-	-	-	-
1939.....	-	-	-	-	1,094	.794	10.78	.513
1940.....	1,259	.914	12.46	.591	1,430	1.04	14.15	.672
1941.....	920	.668	9.06	.452	729	.529	7.19	.342
1942.....	954	.693	9.43	.448	1,657	1.20	16.35	.776
1943.....	2,034	1.48	20.06	.957	-	-	-	-

South Fork Shenandoah River near Front Royal, Va.

Location.- Water-stage recorder, lat. 38°54'50", long. 78°12'40", at highway bridge 1 mile west of Front Royal, Warren County, and 3 1/2 miles upstream from confluence with North Fork. Detum of gage is 469.38 feet above mean sea level, detum of 1929. Prior to September 1930, staff gage at site 1 mile upstream.

Drainage area.- 1,638 square miles.

Records available.- June 1899 to July 1906, September 1930 to September 1943.

Extremes.- Maximum discharge, 130,000 second-feet Oct. 16, 1942 (gage height, 34.8 feet, from floodmark in gage house), by slope-area determination; minimum, 59 second-feet, Jan. 30, 1934 (gage height, 0.56 foot); minimum daily, 103 second-feet Sept. 30, 1930.

Remarks.- Flow at low end medium stages regulated by power plants above station.

Monthly discharge of South Fork Shenandoah River near Front Royal, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1899						
June 26-30.....	650	547	594	0.363	0.07	0.235
July.....	950	428	538	.328	.38	.212
August.....	1,280	350	599	.366	.42	.237
September.....	2,080	485	759	.463	.52	.299
1899-1900						
October.....	685	455	559	.341	.39	.220
November.....	6,110	650	1,236	.755	.84	.488
December.....	3,920	515	1,121	.684	.79	.442
January.....	12,800	950	2,265	1.38	1.59	.892
February.....	8,060	950	2,491	1.52	1.58	.982
March.....	12,700	1,680	3,551	2.17	2.50	1.40
April.....	3,490	1,120	1,755	1.07	1.19	.692
May.....	2,010	720	1,160	.708	.82	.458
June.....	5,890	650	1,708	1.04	1.16	.672
July.....	1,120	515	776	.474	.55	.306
August.....	795	400	538	.328	.38	.212
September.....	1,070	350	499	.305	.34	.197
The year.....	12,800	350	1,465	.894	12.13	.578
1900-1						
October.....	3,920	547	1,042	.636	.73	.411
November.....	7,000	580	1,285	.784	.87	.507
December.....	5,150	720	1,417	.865	1.00	.559
January.....	4,660	515	1,366	.834	.96	.539
February.....	1,220	580	818	.499	.52	.323
March.....	11,600	515	1,975	1.21	1.40	.782
April.....	46,200	1,810	8,374	5.11	5.70	3.30
May.....	40,900	1,680	5,768	3.52	4.06	2.28
June.....	11,700	1,940	4,302	2.63	2.93	1.70
July.....	15,100	1,440	3,912	2.39	2.76	1.54
August.....	6,440	1,060	3,204	1.96	2.26	1.27
September.....	7,580	720	1,825	1.11	1.24	.717
The year.....	46,200	515	2,947	1.80	24.43	1.16

Monthly discharge of South Fork Shenandoah River near Front Royal, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1901-2						
October.....	9,730	758	2,020	1.23	1.42	0.795
November.....	2,600	650	966	.590	.66	.381
December.....	43,500	1,220	5,984	3.65	4.21	2.36
January.....	9,600	1,380	3,730	2.28	2.63	1.47
February.....	54,700	1,330	6,439	3.93	4.09	2.54
March.....	76,800	3,070	9,871	6.03	6.95	3.90
April.....	12,300	1,560	3,826	2.34	2.61	1.51
May.....	3,150	910	1,579	.964	1.11	.623
June.....	1,030	650	861	.526	.59	.340
July.....	1,680	515	754	.460	.53	.297
August.....	795	400	571	.349	.40	.226
September.....	2,370	305	531	.324	.36	.209
The year.....	76,800	305	3,084	1.88	25.56	1.22
1902-3						
October.....	2,370	455	848	.518	.60	.335
November.....	2,750	455	784	.479	.53	.310
December.....	6,220	1,440	3,114	1.90	2.19	1.23
January.....	14,300	1,380	3,859	2.36	2.72	1.53
February.....	7,700	2,440	3,768	2.30	2.40	1.49
March.....	17,400	1,940	5,043	3.08	3.55	1.99
April.....	12,400	2,220	4,494	2.74	3.06	1.77
May.....	2,300	1,030	1,417	.865	1.00	.559
June.....	13,600	1,560	4,308	2.63	2.93	1.70
July.....	7,220	910	2,338	1.43	1.65	.924
August.....	2,010	650	1,046	.639	.74	.413
September.....	5,570	650	1,738	1.06	1.18	.685
The year.....	17,400	455	2,720	1.66	22.55	1.07
1903-4						
October.....	2,370	650	842	.514	.59	.332
November.....	870	580	691	.422	.47	.273
December.....	1,680	580	853	.521	.60	.337
January.....	6,650	705	1,295	.791	.91	.511
February.....	6,110	560	1,649	1.01	1.09	.653
March.....	5,080	1,050	1,746	1.07	1.23	.692
April.....	3,940	740	1,453	.887	.99	.573
May.....	5,480	1,150	1,875	1.14	1.31	.737
June.....	3,430	740	1,375	.839	.94	.542
July.....	6,220	560	1,117	.682	.79	.441
August.....	1,100	350	613	.374	.43	.242
September.....	640	320	395	.241	.27	.156
The year.....	6,650	320	1,158	.707	9.62	.457
1904-5						
October.....	368	320	326	.199	.23	.129
November.....	368	320	329	.201	.22	.130
December.....	1,150	320	530	.324	.37	.209
January.....	2,000	425	917	.560	.65	.362
February 1-27.....	6,320	560	1,140	.696	.70	.450
March 5-31.....	6,870	1,400	3,104	1.89	1.90	1.22
April.....	1,810	740	1,143	.698	.78	.451
May.....	2,000	560	920	.562	.65	.363
June.....	9,380	465	1,372	.838	.94	.542
July.....	5,480	890	2,236	1.37	1.58	.885
August.....	3,070	560	1,014	.619	.71	.400
September.....	1,200	417	595	.363	.40	.235
1905-6						
October.....	474	350	417	.255	.29	.165
November.....	474	378	425	.259	.29	.167
December.....	7,020	425	1,476	.901	1.04	.582
January.....	7,350	1,250	2,283	1.39	1.60	.898
February.....	1,850	622	957	.584	.61	.377
March.....	4,980	652	2,233	1.36	1.57	.879
April.....	5,800	1,400	2,393	1.46	1.63	.944
May.....	1,590	670	1,049	.640	.74	.414
June.....	4,120	610	1,464	.894	1.00	.578
July 1-16.....	1,880	705	1,139	.695	.41	.449
1930						
September 22-30.....	358	103	236	-.144	.05	-.093

Monthly discharge of South Fork Shenandoah River near Front Royal, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930-31						
October.....	327	118	225	0.137	0.16	0.088
November.....	444	107	242	.148	.17	.096
December.....	528	162	269	.164	.19	.106
January.....	2,170	240	445	.272	.31	.176
February.....	541	217	348	.212	.22	.137
March.....	-	268	734	.448	.52	.290
April.....	3,710	752	1,920	1.17	1.30	.756
May.....	3,250	502	1,610	.983	1.13	.635
June.....	1,830	338	1,020	.623	.70	.403
July.....	3,170	374	903	.551	.64	.356
August.....	5,100	328	1,050	.641	.74	.414
September.....	1,130	238	553	.338	.38	.218
The year.....	5,100	107	778	.475	6.46	.307
1931-32						
October.....	455	188	314	.192	.22	.124
November.....	422	208	314	.192	.21	.124
December.....	420	210	281	.172	.20	.111
January.....	1,260	346	689	.421	.49	.272
February.....	5,780	294	1,180	.720	.78	.465
March.....	9,490	502	2,390	1.46	1.68	.944
April.....	3,700	758	1,630	.995	1.11	.643
May.....	11,300	876	2,770	1.69	1.95	1.09
June.....	899	335	663	.405	.45	.262
July.....	1,620	228	529	.323	.37	.209
August.....	372	160	281	.172	.20	.111
September.....	802	206	318	.194	.22	.125
The year.....	11,300	160	947	.578	7.88	.374
1932-33						
October.....	11,100	208	1,540	.940	1.08	.608
November.....	9,930	1,170	2,860	1.75	1.95	1.13
December.....	6,260	627	1,490	.910	1.05	.588
January.....	10,200	1,060	2,580	1.58	1.82	1.02
February.....	3,290	1,700	2,400	1.47	1.53	.950
March.....	6,990	1,090	2,090	1.28	1.48	.827
April.....	17,100	1,400	4,730	2.89	3.22	1.87
May.....	3,360	1,280	1,900	1.16	1.34	.750
June.....	2,080	592	901	.550	.61	.355
July.....	5,410	476	1,220	.745	.86	.482
August.....	7,320	550	1,490	.910	1.05	.588
September.....	1,490	516	787	.480	.54	.310
The year.....	17,100	208	1,990	1.21	16.53	.782
1933-34						
October.....	600	282	451	.275	.32	.178
November.....	527	300	425	.260	.29	.168
December.....	669	286	411	.251	.29	.162
January.....	532	170	408	.249	.29	.161
February.....	544	256	392	.239	.25	.154
March.....	5,380	458	1,911	1.17	1.35	.756
April.....	2,820	650	1,522	.929	1.04	.600
May.....	1,300	710	913	.557	.64	.360
June.....	2,400	364	806	.492	.55	.318
July.....	655	221	425	.260	.30	.168
August.....	2,670	334	900	.549	.63	.355
September.....	6,740	343	1,177	.719	.80	.465
The year.....	6,740	170	814	.497	6.75	.321
1934-35						
October.....	2,230	375	855	.522	.60	.337
November.....	4,590	351	713	.435	.49	.281
December.....	43,700	1,000	4,120	2.52	2.90	1.63
January.....	20,000	1,000	3,131	1.91	2.20	1.23
February.....	6,310	1,900	3,190	1.95	2.03	1.26
March.....	7,570	1,560	2,881	1.76	2.03	1.14
April.....	8,620	1,640	4,353	2.66	2.97	1.72
May.....	3,080	1,050	1,512	.923	1.06	.597
June.....	1,480	474	847	.517	.58	.334
July.....	1,450	606	880	.537	.62	.347
August.....	6,440	438	1,356	.828	.95	.555
September.....	19,600	618	2,780	1.70	1.90	1.10
The year.....	43,700	351	2,211	1.35	18.33	.873

Monthly discharge of South Fork Shenandoeh River near Front Royal, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1935-36						
October.....	1,120	380	588	0.359	0.41	0.232
November.....	3,150	388	1,257	.767	.86	.496
December.....	5,620	942	1,876	1.15	1.33	.743
January.....	12,800	1,000	4,121	2.52	2.90	1.63
February.....	12,400	1,300	4,392	2.68	2.89	1.73
March.....	96,400	2,200	10,300	6.29	7.25	4.07
April.....	5,300	1,400	2,927	1.79	2.00	1.16
May.....	1,800	744	1,152	.703	.81	.454
June.....	1,100	470	708	.432	.48	.279
July.....	1,400	488	666	.407	.47	.263
August.....	920	299	509	.311	.36	.201
September.....	2,460	306	567	.346	.39	.224
The year.....	96,400	299	2,422	1.48	20.15	.957
1936-37						
October.....	8,860	354	1,122	.685	.79	.443
November.....	664	345	501	.306	.34	.198
December.....	2,160	408	1,437	.877	1.01	.567
January.....	19,000	1,790	4,758	2.90	3.34	1.87
February.....	16,300	2,100	3,848	2.35	2.45	1.52
March.....	2,780	1,140	1,604	.979	1.13	.633
April.....	43,100	890	4,942	3.02	3.37	1.95
May.....	4,900	1,060	1,932	1.18	1.36	.763
June.....	2,470	960	1,447	.883	.99	.571
July.....	1,540	558	867	.529	.61	.342
August.....	5,120	436	1,144	.698	.80	.451
September.....	5,000	592	1,575	.962	1.07	.622
The year.....	43,100	345	2,084	1.27	17.26	.821
1937-38						
October.....	17,600	505	4,275	2.61	3.01	1.69
November.....	6,420	1,380	2,645	1.61	1.80	1.04
December.....	2,860	1,000	1,451	.886	1.02	.573
January.....	2,680	860	1,212	.740	.85	.478
February.....	1,610	855	1,155	.693	.72	.448
March.....	2,600	880	1,242	.758	.87	.490
April.....	1,600	830	1,146	.700	.78	.452
May.....	1,600	580	863	.527	.61	.341
June.....	1,920	480	964	.589	.66	.361
July.....	5,350	420	1,382	.844	.97	.545
August.....	5,280	364	1,616	.987	1.14	.638
September.....	1,130	360	539	.329	.37	.213
The year.....	17,600	364	1,545	.943	12.80	.609
1938-39						
October.....	589	279	423	.258	.30	.167
November.....	944	360	539	.329	.37	.213
December.....	4,500	476	1,234	.753	.87	.487
January.....	6,970	662	1,070	.653	.75	.422
February.....	12,500	1,750	4,359	2.66	2.77	1.72
March.....	5,080	1,250	2,653	1.62	1.87	1.05
April.....	3,980	886	1,622	.990	1.10	.640
May.....	2,130	674	1,050	.641	.74	.414
June.....	848	514	650	.397	.44	.257
July.....	7,620	446	1,114	.680	.78	.439
August.....	3,570	459	994	.607	.70	.392
September.....	624	280	414	.253	.28	.164
The year.....	12,500	279	1,324	.808	10.97	.522
1939-40						
October.....	740	300	424	.259	.30	.167
November.....	669	354	494	.302	.34	.195
December.....	685	352	466	.284	.33	.184
January.....	1,600	310	588	.359	.41	.232
February.....	4,710	380	1,631	.996	1.07	.644
March.....	2,180	720	1,179	.720	.83	.465
April.....	5,180	894	2,026	1.24	1.38	.801
May.....	3,920	678	1,307	.798	.92	.516
June.....	6,670	990	2,959	1.81	2.02	1.17
July.....	1,270	590	855	.522	.60	.337
August.....	31,200	516	3,933	2.40	2.77	1.55
September.....	4,660	669	1,450	.885	.99	.572
The year.....	31,200	300	1,438	.878	11.96	.567

Monthly discharge of South Fork Shenandoah River near Front Royal, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	992	528	659	0.402	0.46	0.260
November.....	3,580	572	1,290	.788	.88	.509
December.....	6,930	838	1,850	1.13	1.30	.730
January.....	4,180	1,270	1,953	1.19	1.37	.769
February.....	1,600	772	1,056	.645	.67	.417
March.....	2,740	724	1,334	.814	.94	.526
April.....	7,180	932	2,118	1.29	1.44	.834
May.....	920	464	675	.412	.48	.266
June.....	1,150	418	608	.371	.41	.240
July.....	2,020	480	902	.551	.64	.356
August.....	550	356	444	.271	.31	.175
September.....	648	212	347	.212	.24	.137
The year.....	7,180	212	1,103	.673	9.14	.435
1941-42						
October.....	484	212	299	.183	.21	.118
November.....	404	224	312	.190	.21	.123
December.....	775	230	449	.274	.32	.177
January.....	597	300	445	.272	.31	.176
February.....	1,210	412	654	.399	.42	.258
March.....	4,500	397	1,382	.844	.97	.545
April.....	2,220	518	1,050	.641	.72	.414
May.....	33,200	331	3,777	2.31	2.66	1.49
June.....	2,220	698	1,355	.827	.92	.535
July.....	971	360	554	.338	.39	.218
August.....	5,510	389	1,940	1.18	1.36	.763
September.....	2,710	460	808	.493	.55	.319
The year.....	33,200	212	1,091	.666	9.04	.430
1942-43						
October.....	114,000	536	8,678	5.30	6.11	3.43
November.....	2,360	1,080	1,547	.944	1.05	.610
December.....	14,800	825	1,861	1.14	1.31	.737
January.....	8,320	1,320	2,248	1.37	1.58	.885
February.....	6,390	1,390	3,043	1.86	1.94	1.20
March.....	7,310	1,130	3,095	1.89	2.18	1.22
April.....	9,930	1,160	2,550	1.56	1.74	1.01
May.....	6,220	1,180	2,622	1.60	1.84	1.03
June.....	3,480	835	1,639	1.00	1.12	.646
July.....	4,350	708	1,361	.831	.96	.537
August.....	795	375	530	.324	.37	.209
September.....	510	190	394	.241	.27	.156
The year.....	114,000	190	2,470	1.51	20.47	.976

Yearly discharge of South Fork Shenandoah River near Front Royal, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1900.....	1,465	0.894	12.13	0.578	1,535	0.937	12.71	0.606
1901.....	2,947	1.80	24.43	1.16	3,392	2.07	28.12	1.34
1902.....	3,084	1.88	25.56	1.22	2,726	1.66	22.59	1.07
1903.....	2,720	1.66	22.55	1.07	2,520	1.54	20.89	.995
1904.....	1,158	.707	9.62	.457	1,057	.645	8.78	.417
1931.....	778	.475	6.46	.307	793	.484	6.57	.313
1932.....	947	.578	7.88	.374	1,360	.830	11.33	.536
1933.....	1,990	1.21	16.53	.782	1,610	.982	13.35	.635
1934.....	814	.497	6.75	.321	1,186	.724	9.84	.468
1935.....	2,211	1.35	18.33	.873	2,042	1.25	16.94	.808

Yearly discharge of South Fork Shenandoah River near Front Royal, Va.--Continued

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1936.....	2,422	1.48	20.15	0.957	2,368	1.45	19.69	0.937
1937.....	2,084	1.27	17.26	.821	2,529	1.54	20.95	.995
1938.....	1,545	.943	12.80	.609	1,026	.626	8.51	.405
1939.....	1,324	.808	10.97	.522	1,256	.767	10.40	.496
1940.....	1,438	.878	11.96	.567	1,641	1.00	13.63	.646
1941.....	1,103	.673	9.14	.435	873	.533	7.24	.344
1942.....	1,091	.666	9.04	.430	2,024	1.24	16.77	.801
1943.....	2,470	1.51	20.47	.976	-	-	-	-
Highest.....	3,084	1.88	25.56	1.22	3,392	2.07	28.12	1.34
Average.....	1,755	1.07	14.56	.692	1,761	1.08	14.61	.698
Lowest.....	778	.475	6.46	.307	793	.484	6.57	.313

Shenandoah River at Millville, W. Va.

Location.- Water-stage recorder, lat. 39°16'55", long. 77°47'22", 0.4 mile downstream from Cattaill Run, and 1 mile upstream from Millville, Jefferson County. Datum of gage is 293.00 feet above mean sea level, adjustment of 1912. Prior to August 1928, staff gage three-quarters of a mile downstream; datum 293.32 feet above mean sea level, adjustment of 1912.

Drainage area.- 3,040 square miles.

Records available.- April 1895 to March 1909; August 1928 to September 1943.

Extremes.- Maximum discharge, 230,000 second-feet Oct. 16, 1942 (gage height, 32.4 feet, from floodmarks); minimum, about 59 second-feet Oct. 4, 1930 (gage height, 0.39 foot); minimum daily, 194 second-feet July 24, 1930.

Floods of 1870 and Mar. 18, 1936 reached practically same stage, gage height, 26.4 feet (discharge, 151,000 second-feet).

Remarks.- Regulation by hydroelectric plants, particularly that of Potomac Edison Company, half a mile above station.

Monthly discharge of Shenandoah River at Millville, W. Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1895						
April 15-30.....	4,600	1,870	2,904	0.955	0.57	0.617
May.....	20,800	2,560	5,570	1.83	2.11	1.18
June.....	3,130	980	1,613	.531	.59	.343
July.....	7,260	980	1,880	.618	.71	.399
August.....	1,560	540	806	.265	.31	.171
September.....	1,320	610	722	.238	.27	.154
1895-96						
October.....	610	480	537	.177	.20	.114
November.....	690	540	621	.204	.23	.132
December.....	1,450	610	754	.248	.29	.160
January.....	11,400	880	2,434	.801	.92	.518
February.....	12,600	1,450	3,817	1.26	1.36	.814
March.....	12,200	1,450	3,842	1.26	1.45	.814
April.....	8,860	1,450	2,807	.923	1.03	.597
May.....	4,370	1,090	2,127	.700	.81	.452
June.....	3,940	780	2,056	.676	.75	.437
July.....	9,030	1,320	2,858	.940	1.08	.608
August.....	1,870	780	1,150	.378	.44	.244
September.....	13,200	540	1,042	.343	.38	.222
The year.....	13,200	480	1,998	.657	8.94	.425
1896-97						
October.....	140,000	880	7,768	2.56	2.95	1.65
November.....	4,840	880	1,835	.604	.67	.390
December.....	6,380	1,450	2,296	.755	.87	.488
January.....	1,720	980	1,220	.401	.46	.259
February 1-6, 10-28.....	37,900	1,090	11,680	3.84	3.57	2.48
March.....	6,760	2,590	4,946	1.63	1.88	1.05
April.....	3,350	1,620	2,671	.879	.98	.568
May.....	30,600	1,760	6,243	2.05	2.36	1.32
June.....	2,410	1,010	1,632	.537	.60	.347
July.....	3,770	910	1,426	.469	.54	.303
August.....	1,760	730	987	.325	.37	.210
September.....	1,350	580	664	.218	.24	.141
The year.....	140,000	580	-	-	-	-

Monthly discharge of Shenendoah River at Millville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1897-98						
October.....	1,010	550	692	0.228	0.26	0.147
November.....	1,620	650	859	.283	.32	.183
December.....	3,990	820	1,619	.533	.61	.344
January.....	6,180	1,010	2,435	.801	.92	.518
February.....	2,770	1,010	1,612	.530	.55	.343
March.....	5,650	1,010	2,227	.733	.85	.474
April.....	13,100	2,070	4,353	1.43	1.60	.924
May.....	29,200	2,070	5,711	1.88	2.17	1.22
June.....	2,410	1,120	1,647	.542	.60	.350
July.....	3,770	820	1,249	.411	.47	.266
August.....	50,900	1,350	8,164	2.69	3.10	1.74
September.....	1,840	1,120	1,360	.447	.50	.289
The year.....	50,900	550	2,676	.680	11.95	.569
1898-99						
October.....	30,500	1,010	5,684	1.87	2.16	1.21
November.....	4,210	2,070	2,827	.930	1.04	.601
December.....	14,800	2,410	4,498	1.48	1.71	.957
January.....	17,800	2,770	5,116	1.68	1.94	1.09
February 1-21.....	7,380	2,070	3,675	1.21	.94	.782
March 10-31.....	12,700	4,440	7,065	2.32	1.90	1.50
April.....	4,910	2,070	3,289	1.08	1.20	.698
May.....	4,910	1,480	2,533	.834	.96	.539
June.....	4,670	1,010	1,607	.529	.59	.342
July.....	1,760	730	906	.298	.34	.193
August.....	1,910	650	992	.326	.38	.211
September.....	1,760	730	989	.325	.36	.210
1899-1900						
October.....	910	650	785	.258	.30	.167
November.....	5,150	910	1,503	.494	.55	.319
December.....	4,440	820	1,398	.460	.53	.297
January.....	14,800	1,230	2,970	.977	1.13	.631
February.....	14,400	1,350	3,833	1.26	1.31	.814
March.....	17,000	2,590	5,863	1.93	2.22	1.25
April.....	4,670	1,840	2,803	.922	1.03	.596
May.....	2,410	1,230	1,689	.556	.64	.359
June.....	9,020	1,010	2,249	.740	.83	.478
July.....	4,210	775	1,374	.452	.52	.292
August.....	1,290	690	829	.273	.31	.176
September.....	1,230	580	696	.229	.26	.148
The year.....	17,000	580	2,156	.709	9.63	.458
1900-1						
October.....	2,770	650	947	.312	.36	.202
November.....	9,020	730	1,453	.478	.53	.309
December.....	10,100	1,010	2,232	.734	.85	.474
January.....	5,910	820	1,812	.596	.69	.385
February.....	3,150	730	1,315	.433	.45	.280
March.....	20,600	820	3,376	1.11	1.28	.717
April.....	50,000	2,500	12,840	4.22	4.71	2.73
May.....	45,900	2,590	8,704	2.85	3.30	1.85
June.....	38,200	3,770	8,225	2.71	3.02	1.75
July.....	13,900	1,290	4,437	1.46	1.68	.944
August.....	11,200	1,620	3,528	1.16	1.34	.750
September.....	11,900	1,230	2,496	.821	.92	.531
The year.....	50,000	650	4,283	1.41	19.13	.911
1901-2						
October.....	6,460	1,120	1,769	.582	.67	.376
November.....	3,990	910	1,341	.441	.49	.285
December.....	50,000	1,350	8,124	2.67	3.01	1.73
January.....	21,100	2,240	5,176	1.70	1.96	1.10
February.....	50,000	1,120	8,611	2.83	2.95	1.83
March.....	77,900	4,100	13,880	4.57	5.27	2.95
April.....	20,100	2,960	6,785	2.23	2.49	1.44
May.....	7,380	1,760	2,606	.857	.99	.554
June.....	1,910	1,120	1,402	.461	.51	.298
July.....	1,620	865	1,097	.361	.42	.233
August.....	2,410	775	1,062	.349	.40	.226
September.....	1,120	650	724	.238	.27	.154
The year.....	77,900	650	4,367	1.44	19.43	.931

Monthly discharge of Shenandoah River at Millville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1902-3						
October.....	2,160	775	1,069	0.352	0.41	0.228
November.....	3,560	730	1,190	.391	.44	.253
December.....	9,020	2,240	4,728	1.56	1.80	1.01
January.....	27,900	2,070	6,602	2.24	2.58	1.45
February.....	9,360	2,770	5,448	1.79	1.86	1.16
March.....	22,100	3,560	7,907	2.60	3.00	1.68
April.....	23,100	3,660	7,880	2.59	2.89	1.67
May.....	3,560	1,760	2,321	.763	.88	.493
June.....	31,200	2,240	7,448	2.45	2.73	1.58
July.....	9,530	1,420	3,453	1.14	1.31	.737
August.....	2,590	1,060	1,590	.523	.60	.338
September.....	9,360	1,230	2,249	.740	.83	.478
The year.....	31,200	730	4,327	1.42	19.33	.918
1903-4						
October.....	2,770	1,060	1,454	.478	.55	.309
November.....	1,120	730	961	.316	.35	.204
December.....	1,620	650	927	.305	.35	.197
January 1-24.....	3,770	910	1,428	.470	.42	.304
February.....	-	-	-	-	-	-
March 8-31.....	9,900	1,520	2,546	.838	.75	.542
April.....	7,880	1,090	2,191	.721	.80	.466
May.....	5,570	1,650	2,862	.941	1.08	.608
June.....	6,960	1,090	2,430	.799	.89	.516
July.....	12,600	1,090	1,930	.635	.73	.410
August.....	2,030	575	1,096	.361	.42	.233
September.....	880	510	620	.204	.23	.132
1904-5						
October.....	610	480	521	.171	.20	.111
November.....	610	480	528	.174	.19	.112
December.....	2,840	510	780	.257	.30	.166
January.....	4,150	850	2,065	.679	.78	.439
February.....	4,370	1,200	1,684	.554	.58	.358
March.....	9,370	2,560	4,387	1.44	1.66	.931
April.....	3,230	1,200	1,945	.640	.71	.414
May.....	2,940	880	1,382	.455	.52	.294
June.....	13,800	690	2,552	.839	.94	.542
July.....	11,400	1,450	2,994	.985	1.14	.637
August.....	4,840	930	1,557	.512	.59	.331
September.....	1,140	575	610	.266	.30	.172
The year.....	13,800	480	1,771	.583	7.91	.377
1905-6						
October.....	880	540	640	.211	.24	.136
November.....	690	575	624	.205	.23	.132
December.....	11,400	610	2,336	.768	.88	.496
January.....	11,400	2,030	3,719	1.22	1.41	.789
February.....	2,940	1,090	1,643	.540	.56	.349
March.....	9,900	1,090	3,888	1.28	1.48	.827
April.....	9,370	2,380	4,464	1.47	1.64	.950
May.....	2,940	1,090	1,803	.593	.68	.383
June.....	9,540	1,200	2,895	.952	1.06	.615
July.....	2,660	1,200	1,578	.520	.60	.336
August.....	11,800	1,320	5,220	1.72	1.98	1.11
September.....	6,380	1,090	1,980	.651	.73	.421
The year.....	11,800	540	2,574	.847	11.49	.547
1906-7						
October.....	60,800	1,450	8,250	2.71	3.12	1.75
November.....	7,880	1,720	3,020	.993	1.11	.642
December.....	8,520	1,450	3,050	1.00	1.15	.646
January.....	11,400	2,940	4,710	1.55	1.79	1.00
February.....	3,940	2,120	2,990	.984	1.02	.636
March.....	6,980	2,380	3,840	1.26	1.45	.814
April.....	-	-	4,600	1.51	1.68	.976
May.....	-	-	3,400	1.12	1.29	.724
June.....	-	-	7,200	2.37	2.64	1.53
July.....	2,750	1,260	1,700	.559	.64	.361
August.....	2,750	980	1,300	.428	.49	.277
September.....	17,800	980	2,605	.857	.96	.554
The year.....	-	980	3,890	1.28	17.34	.827

Monthly discharge of Shenandoah River at Millville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1907-8						
October.....	2,660	980	1,300	0.428	0.49	0.277
November.....	8,860	980	2,100	.691	.77	.447
December.....	17,800	1,800	4,880	1.61	1.86	1.04
January.....	53,500	2,750	7,550	2.48	2.86	1.60
February.....	37,500	2,380	6,640	2.18	2.35	1.41
March.....	8,520	2,840	4,890	1.61	1.86	1.04
April.....	3,230	1,580	2,290	.753	.84	.487
May.....	33,200	1,520	7,070	2.33	2.67	1.51
June.....	6,960	1,580	3,240	1.07	1.19	.692
July.....	4,150	980	1,740	.572	.66	.370
August.....	8,200	930	2,120	.697	.80	.450
September.....	3,330	830	1,330	.438	.49	.283
The year.....	53,500	830	3,760	1.24	16.84	.801
1908-9						
October.....	5,830	780	1,530	.503	.58	.325
November.....	3,940	1,090	1,550	.510	.57	.330
December.....	1,320	980	1,080	.355	.41	.229
January.....	10,600	1,580	3,630	1.19	1.37	.769
February.....	8,520	2,030	3,930	1.29	1.34	.834
March.....	4,600	1,870	3,010	.990	1.14	.640
1928						
August 23-31.....	3,330	2,520	2,910	.957	.32	.619
September.....	9,200	1,430	2,990	.983	1.10	.635
1928-29						
October.....	1,880	916	1,280	.421	.49	.272
November.....	1,160	695	940	.309	.34	.200
December.....	1,940	862	1,210	.398	.46	.257
January.....	3,120	1,010	1,880	.618	.71	.399
February.....	9,210	1,290	2,200	.724	.75	.468
March.....	18,000	2,260	6,350	2.09	2.41	1.35
April.....	31,600	1,760	6,200	2.04	2.28	1.32
May.....	15,800	2,180	4,700	1.55	1.79	1.00
June.....	3,780	1,580	2,240	.737	.82	.476
July.....	5,280	921	1,960	.645	.74	.417
August.....	1,200	338	843	.277	.32	.179
September.....	1,190	551	670	.220	.25	.142
The year.....	31,600	338	2,540	.836	11.36	.540
1929-30						
October.....	18,000	751	3,850	1.27	1.46	.821
November.....	11,800	1,670	3,580	1.18	1.32	.763
December.....	5,120	-	1,920	.632	.73	.408
January.....	4,380	-	1,910	.628	.72	.406
February.....	7,710	1,300	2,790	.918	.96	.593
March.....	8,220	1,430	2,890	.951	1.10	.615
April.....	2,930	1,210	1,800	.592	.66	.383
May.....	1,410	628	1,030	.339	.39	.219
June.....	1,470	328	787	.259	.29	.167
July.....	801	194	481	.158	.18	.102
August.....	501	266	368	.128	.15	.083
September.....	865	268	417	.137	.15	.088
The year.....	18,000	194	1,810	.595	6.11	.385
1930-31						
October.....	427	200	343	.113	.13	.073
November.....	531	266	415	.137	.15	.088
December.....	904	300	479	.158	.18	.102
January.....	2,900	433	790	.260	.30	.168
February.....	715	380	542	.178	.19	.115
March.....	2,540	544	929	.306	.35	.198
April.....	4,890	1,140	2,900	.954	1.06	.617
May.....	4,600	993	2,510	.826	.95	.534
June.....	3,160	832	1,660	.546	.61	.353
July.....	3,560	514	1,340	.441	.51	.285
August.....	6,160	593	1,600	.526	.61	.340
September.....	1,500	436	822	.270	.30	.175
The year.....	6,160	200	1,200	.395	5.34	.255

Monthly discharge of Shenandoah River at Millville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
October.....	749	252	435	0.143	0.16	0.092
November.....	678	225	388	.128	.14	.083
December.....	600	341	415	.137	.16	.088
January.....	1,740	495	973	.320	.37	.207
February.....	9,220	551	2,000	.658	.71	.425
March.....	14,300	723	3,990	1.31	1.51	.847
April.....	6,990	1,450	3,000	.987	1.10	.638
May.....	31,900	1,620	5,810	1.91	2.20	1.23
June.....	1,750	746	1,140	.375	.42	.242
July.....	2,640	376	889	.292	.34	.189
August.....	720	336	453	.149	.17	.096
September.....	993	270	428	.141	.16	.091
The year.....	31,900	225	1,660	.546	7.44	.353
1932-33						
October.....	18,000	307	2,360	.776	.89	.502
November.....	18,800	1,940	5,020	1.65	1.94	1.07
December.....	9,840	1,070	2,440	.803	.93	.519
January.....	23,400	1,960	4,730	1.56	1.80	1.01
February.....	6,000	2,940	4,060	1.34	1.40	.866
March.....	12,600	2,060	3,830	1.26	1.45	.834
April.....	37,100	2,670	9,020	2.97	3.31	1.92
May.....	7,540	2,680	4,230	1.39	1.60	.998
June.....	3,620	986	1,720	.566	.63	.366
July.....	6,520	946	1,840	.605	.70	.391
August.....	15,400	663	2,790	.918	1.06	.593
September.....	5,900	1,080	1,810	.595	.66	.385
The year.....	37,100	307	3,640	1.20	16.27	.776
1933-34						
October.....	1,120	608	869	.296	.33	.185
November.....	904	564	703	.231	.26	.149
December.....	982	524	676	.222	.26	.143
January.....	1,020	512	795	.262	.30	.169
February.....	953	458	719	.237	.25	.153
March.....	8,340	818	2,890	.951	1.10	.615
April.....	5,040	1,610	2,580	.849	.95	.549
May.....	2,400	1,150	1,560	.513	.59	.332
June.....	3,020	564	1,210	.399	.44	.257
July.....	1,050	370	643	.212	.24	.137
August.....	2,640	445	1,220	.401	.46	.259
September.....	11,100	498	1,730	.569	.63	.368
The year.....	11,100	370	1,300	.428	5.81	.277
1934-35						
October.....	2,640	648	1,296	.426	.49	.275
November.....	1,980	528	878	.289	.32	.187
December.....	52,600	1,700	6,318	2.08	2.40	1.34
January.....	26,000	1,300	4,745	1.56	1.90	1.01
February.....	12,000	3,100	5,992	1.97	2.05	1.27
March.....	11,600	2,860	4,725	1.55	1.79	1.00
April.....	16,500	2,860	7,928	2.61	2.91	1.69
May.....	6,760	1,840	2,844	.936	1.08	.605
June.....	2,490	976	1,645	.541	.60	.350
July.....	1,950	994	1,380	.454	.52	.293
August.....	6,120	610	1,725	.567	.65	.366
September.....	29,300	936	3,758	1.24	1.38	.901
The year.....	52,600	528	3,584	1.18	15.99	.763
1935-36						
October.....	1,520	608	901	.296	.34	.191
November.....	5,130	697	2,127	.700	.78	.452
December.....	7,490	1,300	2,653	.873	1.01	.564
January.....	17,400	1,500	6,210	2.04	2.35	1.32
February.....	26,700	2,200	7,283	2.40	2.59	1.55
March.....	109,000	4,220	17,540	5.77	6.65	3.73
April.....	8,030	2,720	5,105	1.68	1.87	1.09
May.....	3,020	1,420	2,106	.693	.80	.448
June.....	1,950	950	1,307	.430	.48	.278
July.....	1,800	678	1,109	.365	.42	.236
August.....	1,470	550	842	.278	.32	.180
September.....	2,430	546	845	.278	.31	.180
The year.....	109,000	546	4,003	1.32	17.92	.853

Monthly discharge of Shenandoah River at Millville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	8,770	675	1,716	0.564	0.65	0.365
November.....	1,010	666	825	.271	.30	.175
December.....	3,800	687	2,318	.762	.88	.492
January.....	27,700	2,890	7,551	2.48	2.86	1.60
February.....	31,200	3,780	6,926	2.28	2.37	1.47
March.....	4,950	2,120	2,950	.964	1.11	.623
April.....	80,400	1,720	8,385	2.76	3.08	1.78
May.....	9,890	2,040	3,540	1.16	1.34	.750
June.....	3,310	1,590	2,154	.709	.79	.458
July.....	2,640	830	1,459	.480	.55	.310
August.....	14,300	686	2,454	.807	.93	.522
September.....	7,000	1,020	2,670	.878	.98	.567
The year.....	80,400	666	3,551	1.17	15.84	.756
1937-38						
October.....	30,100	1,340	7,133	2.35	2.71	1.52
November.....	9,770	2,430	4,507	1.48	1.65	.957
December.....	4,500	1,700	2,455	.808	.93	.522
January.....	4,200	1,500	1,947	.640	.74	.414
February.....	2,590	1,580	2,003	.659	.69	.425
March.....	4,210	1,580	2,222	.731	.84	.472
April.....	2,360	1,680	2,203	.725	.81	.469
May.....	5,000	1,090	1,846	.607	.70	.392
June.....	2,400	950	1,546	.509	.57	.329
July.....	7,620	649	1,744	.574	.66	.371
August.....	6,880	650	2,372	.780	.90	.504
September.....	1,380	578	801	.263	.29	.170
The year.....	30,100	578	2,573	.846	11.49	.547
1938-39						
October.....	788	499	640	.211	.24	.136
November.....	1,290	542	808	.266	.30	.172
December.....	11,300	766	2,329	.766	.88	.495
January.....	13,400	1,160	1,964	.646	.74	.418
February.....	27,200	3,300	8,439	2.78	2.90	1.80
March.....	9,330	2,240	4,486	1.48	1.71	.957
April.....	8,780	1,660	3,155	1.04	1.16	.672
May.....	3,310	1,380	2,008	.661	.76	.427
June.....	1,440	769	1,070	.352	.39	.228
July.....	14,600	668	2,153	.708	.82	.458
August.....	9,170	780	1,938	.638	.74	.412
September.....	1,070	494	710	.234	.26	.151
The year.....	27,200	494	2,437	.802	10.90	.518
1939-40						
October.....	1,670	512	774	.255	.29	.165
November.....	1,740	690	1,044	.343	.38	.222
December.....	1,660	620	891	.293	.34	.189
January.....	3,280	469	974	.320	.37	.207
February.....	8,780	759	3,004	.988	1.07	.639
March.....	4,360	1,480	2,430	.799	.92	.516
April.....	12,300	1,690	4,801	1.58	1.76	1.02
May.....	7,000	1,470	2,599	.855	.99	.553
June.....	12,300	1,630	5,120	1.68	1.87	1.09
July.....	1,800	1,020	1,372	.451	.52	.291
August.....	36,100	892	4,613	1.52	1.75	.982
September.....	7,810	910	2,360	.776	.87	.502
The year.....	36,100	469	2,498	.822	11.13	.531
1940-41						
October.....	1,760	860	1,145	.377	.43	.244
November.....	7,240	936	2,461	.810	.90	.524
December.....	9,890	1,530	3,053	1.00	1.16	.646
January.....	7,490	2,230	3,409	1.12	1.29	.724
February.....	2,860	1,350	1,952	.642	.67	.415
March.....	5,100	1,320	2,650	.872	1.01	.564
April.....	15,600	1,750	3,952	1.30	1.45	.840
May.....	1,690	827	1,192	.392	.45	.253
June.....	1,910	748	1,052	.346	.39	.224
July.....	5,890	796	1,985	.653	.75	.422
August.....	1,810	576	830	.273	.31	.176
September.....	916	428	597	.196	.22	.127
The year.....	15,600	428	2,024	.666	9.03	.430

Monthly discharge of Shenandoah River at Millville, W. Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	572	406	470	0.155	0.18	0.100
November.....	616	396	505	.166	.19	.107
December.....	1,480	405	787	.259	.30	.167
January.....	978	560	747	.246	.28	.159
February.....	1,980	578	1,164	.383	.40	.248
March.....	8,060	812	2,404	.791	.91	.511
April.....	4,900	978	2,046	.673	.75	.435
May.....	40,400	676	5,942	1.95	2.25	1.26
June.....	2,800	1,150	1,913	.629	.70	.407
July.....	1,540	500	896	.295	.34	.191
August.....	13,000	634	3,352	1.10	1.27	.711
September.....	4,200	800	1,425	.469	.52	.303
The year.....	40,400	396	1,813	.596	8.09	.385
1942-43						
October.....	192,000	900	16,250	5.35	6.16	3.46
November.....	4,100	1,860	2,608	.858	.96	.555
December.....	25,300	1,400	3,207	1.05	1.22	.679
January.....	18,700	2,510	4,154	1.37	1.58	.885
February.....	13,500	2,600	5,662	1.86	1.94	1.20
March.....	14,400	2,170	5,578	1.83	2.12	1.18
April.....	18,600	2,170	4,645	1.53	1.70	.989
May.....	11,800	2,100	4,271	1.40	1.62	.905
June.....	3,940	1,300	2,359	.776	.87	.502
July.....	5,420	1,040	1,829	.602	.69	.389
August.....	1,210	634	851	.280	.32	.181
September.....	812	394	605	.199	.22	.129
The year.....	192,000	394	4,344	1.43	19.40	.924

Yearly discharge of Shenandoah River at Millville, W. Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1896.....	1,998	0.657	8.94	0.425	2,841	0.935	12.71	0.604
1898.....	2,676	.880	11.95	.569	3,506	1.15	15.67	.743
1900.....	2,156	.709	9.63	.458	2,231	.734	9.99	.474
1901.....	4,283	1.41	19.13	.911	4,844	1.59	21.56	1.03
1902.....	4,367	1.44	19.43	.931	4,006	1.32	17.91	.853
1903.....	4,327	1.42	19.33	.918	4,019	1.32	17.93	.853
1905.....	1,771	.583	7.91	.377	1,921	.632	8.57	.408
1906.....	2,574	.847	11.49	.547	3,478	1.14	15.52	.737
1907.....	3,890	1.28	17.34	.827	3,381	1.11	15.08	.717
1908.....	3,760	1.24	16.84	.801	3,416	1.12	15.28	.724
1929.....	2,540	.836	11.36	.540	3,038	1.00	13.58	.646
1930.....	1,810	.595	8.11	.385	1,134	.373	5.06	.241
1931.....	1,200	.395	5.34	.255	1,197	.394	5.34	.255
1932.....	1,660	.546	7.44	.353	2,380	.783	10.64	.506
1933.....	3,640	1.20	16.27	.776	3,011	.990	13.46	.640
1934.....	1,300	.428	5.81	.277	1,830	.602	8.17	.389
1935.....	3,584	1.18	15.99	.763	3,342	1.10	14.91	.711
1936.....	4,003	1.32	17.92	.853	3,937	1.30	17.62	.840
1937.....	3,551	1.17	15.84	.756	4,325	1.42	19.30	.918
1938.....	2,573	.846	11.49	.547	1,707	.562	7.62	.363
1939.....	2,437	.802	10.90	.518	2,346	.772	10.49	.499
1940.....	2,498	.822	11.13	.531	2,817	.927	12.61	.599
1941.....	2,024	.666	9.03	.430	1,613	.531	7.21	.343
1942.....	1,813	.596	8.09	.385	3,532	1.16	15.76	.750
1943.....	4,344	1.43	19.40	.924	-	-	-	-
Highest.....	4,367	1.44	19.43	.931	4,844	1.59	21.56	1.03
Average.....	2,831	.931	12.64	.602	2,910	.957	13.00	.619
Lowest.....	1,200	.395	5.34	.255	1,134	.373	5.06	.241

Cooks Creek at Mount Crawford, Va.

Location.- Chain gage, lat. 38°21'33", long. 78°55'53", at upper highway bridge, three-quarters of a mile east of Mount Crawford, Rockingham County, and 2 miles upstream from mouth.

Drainage area.- 42 square miles.

Records available.- July 1905 to July 1906.

Extremes.- Maximum discharge observed, 346 second-feet July 5, 1905 (gage height, 5.5 feet), from rating curve extended above 32 second-feet; minimum, 10 second-feet at times during period September to December 1905.

Monthly discharge of Cooks Creek at Mount Crawford, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
July.....	346	19	43.8	1.04	1.20	0.672
August.....	27	13	19.7	.469	.54	.303
September.....	16	10	12.7	.302	.34	.195
1905-6						
October.....	19	10	11.4	.271	.31	.175
November.....	13	10	11.4	.271	.30	.175
December.....	64	10	18.7	.445	.51	.288
January.....	71	21	27.5	.655	.76	.423
February.....	23	13	18.5	.440	.46	.284
March.....	46	19	30.6	.729	.84	.471
April.....	41	23	28.7	.683	.76	.441
May.....	27	16	20.6	.490	.56	.317
June.....	71	13	21.0	.500	.56	.323
July 1-15.....	71	19	23.8	.567	.52	.366

Middle River near Grottoes, Va.

Location.- Water-stage recorder, lat. 38°16', long. 78°52', at highway bridge at Mount Meridian, Augusta County, 1 1/2 miles upsteam from mouth and 3 miles west of Grottoes, Rockingham County. Datum of gage is 1,061.2 feet above mean sea level, unadjusted. Prior to Sept. 1, 1938, chain gage at same site and datum.

Drainage area.- 360 square miles.

Records available.- February 1925 to September 1943.

Extremes.- Maximum discharge, 24,500 second-feet Mar. 18, 1936 (gage height, 28.57 feet, from floodmarks), from rating curve extended above 10,000 second-feet; minimum observed, 22 second-feet Sept. 21, Oct. 3, 12, 1930 (gage height, 1.90 feet).

Remarks.- Low flow regulated by mills above station.

Monthly discharge of Middle River near Grottoes, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1925						
February 17-28.....	602	410	488	1.36	0.61	0.879
March.....	410	234	299	.831	.96	.537
April.....	1,020	141	240	.667	.74	.431
May.....	720	74	257	.714	.82	.461
June.....	532	34	114	.317	.35	.205
July.....	330	35	166	.461	.53	.298
August.....	132	31	76.2	.212	.24	.137
September.....	111	54	84.8	.236	.26	.153
1925-26						
October.....	98	56	80.3	.223	.26	.144
November.....	-	58	83.4	.232	.26	.160
December.....	-	-	193	.536	.62	.346
January.....	2,250	-	372	1.03	1.19	.666
February.....	2,200	317	627	1.74	1.81	1.12
March.....	468	223	346	.961	1.11	.621
April.....	410	268	345	.958	1.07	.619
May.....	-	86	164	.456	.53	.295
June.....	160	38	107	.297	.33	.192
July.....	280	30	96.1	.267	.31	.173
August.....	-	70	219	.608	.70	.393
September.....	124	-	91.0	.253	.28	.164
The year.....	2,250	-	224	.622	8.47	.402
1927						
April 4-30.....	2,400	410	849	2.36	2.37	1.53
May.....	800	170	351	.919	1.06	.594
June.....	410	115	204	.567	.63	.366
July.....	280	99	140	.389	.45	.251
August.....	304	99	160	.444	.51	.287
September.....	99	70	88.8	.247	.28	.160

Monthly discharge of Middle River near Grottoes, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1927-28						
October.....	1,390	67	266	0.739	0.85	0.478
November.....	1,750	135	284	.789	.88	.510
December.....	1,840	170	470	1.31	1.51	.847
January.....	330	170	228	.633	.75	.409
February.....	640	180	323	.897	.97	.580
March.....	496	161	240	.667	.77	.431
April.....	2,240	210	470	1.31	1.46	.847
May.....	1,930	190	395	1.10	1.27	.711
June.....	464	135	207	.575	.64	.372
July.....	1,480	112	249	.692	.80	.447
August.....	3,820	105	658	1.83	2.11	1.18
September.....	2,160	278	575	1.60	1.78	1.03
The year.....	3,820	67	364	1.01	13.77	.653
1928-29						
October.....	344	161	209	.581	.67	.376
November.....	180	112	140	.389	.43	.251
December.....	290	120	162	.450	.52	.291
January.....	566	152	275	.764	.88	.494
February.....	2,110	180	366	1.02	1.06	.659
March.....	2,060	290	704	1.96	2.26	1.27
April.....	3,230	200	557	1.55	1.73	1.00
May.....	1,520	220	404	1.12	1.29	.724
June.....	840	180	292	.811	.90	.524
July.....	1,120	143	313	.869	1.00	.562
August.....	170	83	120	.333	.38	.215
September.....	330	64	109	.303	.34	.196
The year.....	3,230	64	304	.844	11.46	.545
1929-30						
October.....	1,520	97	235	.653	.75	.422
November.....	1,040	112	253	.703	.78	.454
December.....	880	112	264	.733	.85	.474
January.....	432	127	204	.567	.65	.366
February.....	1,620	180	373	1.04	1.08	.672
March.....	1,300	143	262	.728	.84	.471
April.....	220	112	143	.397	.44	.257
May.....	143	61	104	.289	.33	.187
June.....	266	65	104	.289	.32	.187
July.....	85	37	59.9	.166	.19	.107
August.....	85	34	59.8	.166	.19	.107
September.....	190	36	64.6	.179	.20	.116
The year.....	1,620	34	176	.489	6.62	.316
1930-31						
October.....	97	34	66.4	.184	.21	.119
November.....	110	28	58.9	.164	.18	.106
December.....	225	45	73.5	.204	.24	.132
January.....	600	54	96.0	.267	.31	.173
February.....	139	42	91.3	.254	.26	.164
March.....	600	97	162	.450	.52	.291
April.....	960	132	358	.994	1.11	.642
May.....	1,210	97	290	.806	.93	.521
June.....	920	104	208	.578	.64	.374
July.....	562	97	221	.614	.71	.397
August.....	1,620	71	236	.656	.76	.424
September.....	422	73	114	.317	.35	.205
The year.....	1,620	28	165	.458	6.22	.296
1931-32						
October.....	116	50	81.0	.225	.26	.145
November.....	88	48	73.5	.204	.23	.132
December.....	95	41	68.3	.190	.22	.123
January.....	730	88	191	.531	.61	.343
February.....	1,900	109	288	.900	.86	.517
March.....	3,440	102	557	1.55	1.79	1.00
April.....	580	162	284	.789	.88	.610
May.....	1,100	130	352	.978	1.13	.632
June.....	130	78	105	.292	.33	.189
July.....	254	59	100	.278	.32	.180
August.....	88	44	60.3	.168	.19	.109
September.....	210	44	64.4	.179	.20	.116
The year.....	3,440	41	186	.517	7.02	.334

Monthly discharge of Middle River near Grottoas, Va.--Continued

Month	Discharge in second-feet				Runoff in Inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	5,180	44	390	1.08	1.25	0.698
November.....	1,860	180	493	1.37	1.53	.885
December.....	1,730	123	367	1.02	1.18	.659
January.....	1,860	200	433	1.20	1.38	.776
February.....	1,050	315	539	1.50	1.56	.969
March.....	1,860	243	459	1.28	1.48	.827
April.....	3,020	278	849	2.36	2.63	1.53
May.....	654	221	372	1.03	1.19	.666
June.....	302	116	179	.497	.55	.321
July.....	2,300	109	357	.992	1.14	.641
August.....	544	116	200	.556	.64	.359
September.....	200	78	119	.331	.37	.214
The year.....	5,180	44	395	1.10	14.90	.711
1933-34						
October.....	123	68	85.4	.237	.27	.153
November.....	102	53	75.8	.211	.24	.136
December.....	171	48	80.6	.224	.26	.145
January.....	116	52	84.0	.233	.27	.151
February.....	146	67	92.2	.256	.27	.165
March.....	1,680	109	433	1.20	1.38	.776
April.....	730	138	246	.683	.76	.441
May.....	154	95	120	.333	.38	.215
June.....	328	59	108	.300	.33	.194
July.....	580	57	112	.311	.36	.201
August.....	1,100	64	202	.561	.65	.363
September.....	1,280	64	174	.483	.54	.312
The year.....	1,680	48	152	.422	5.71	.273
1934-35						
October.....	770	82	172	.478	.55	.309
November.....	1,410	70	160	.444	.50	.287
December.....	11,000	221	793	2.20	2.54	1.42
January.....	8,460	200	800	2.22	2.56	1.43
February.....	1,280	382	652	1.81	1.88	1.17
March.....	2,400	354	659	1.83	2.11	1.18
April.....	3,020	328	1,022	2.84	3.17	1.84
May.....	354	171	264	.733	.85	.474
June.....	382	130	182	.506	.56	.327
July.....	810	109	193	.536	.62	.346
August.....	2,350	116	287	.797	.92	.515
September.....	6,450	130	718	1.99	2.22	1.29
The year.....	11,000	70	490	1.36	18.48	.879
1935-36						
October.....	221	116	138	.383	.44	.248
November.....	770	116	261	.725	.81	.469
December.....	1,360	221	385	1.07	1.23	.692
January.....	4,220	290	1,068	2.97	3.42	1.92
February.....	3,820	254	987	2.74	2.96	1.77
March.....	14,600	323	1,704	4.73	5.45	3.06
April.....	1,590	315	722	2.01	2.24	1.30
May.....	444	171	248	.689	.79	.445
June.....	730	130	192	.533	.60	.344
July.....	1,280	116	188	.522	.60	.337
August.....	444	102	149	.414	.48	.268
September.....	2,450	88	208	.578	.64	.374
The year.....	14,600	88	520	1.44	19.66	.931
1936-37						
October.....	3,880	109	356	.989	1.14	.639
November.....	354	88	118	.328	.37	.212
December.....	510	95	308	.856	.99	.553
January.....	4,150	616	1,173	3.26	3.76	2.11
February.....	4,420	412	779	2.16	2.25	1.40
March.....	510	254	355	.986	1.14	.637
April.....	8,260	180	658	1.83	2.04	1.18
May.....	654	232	350	.972	1.12	.628
June.....	544	162	234	.650	.73	.420
July.....	692	138	225	.625	.72	.404
August.....	1,460	116	309	.858	.99	.555
September.....	1,010	146	294	.817	.91	.528
The year.....	8,260	88	428	1.19	16.16	.769

Monthly discharge of Middle River near Grottoes, Va.--Continued

Month	Discharge in second-feet				Runoff in inchee	Discharge in million gellone per day per equare mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	7,590	146	1,077	2.99	3.45	1.93
November.....	1,320	273	487	1.35	1.51	.873
December.....	494	228	295	.819	.94	.529
January.....	930	209	302	.839	.97	.542
February.....	323	197	235	.653	.68	.422
Merch.....	310	182	226	.628	.72	.406
April.....	362	166	213	.592	.66	.383
Mey.....	362	126	178	.494	.57	.319
June.....	430	106	202	.561	.63	.363
July.....	770	91	198	.550	.63	.355
August.....	1,940	100	307	.853	.98	.551
September.....	487	90	116	.322	.36	.208
The year.....	7,590	90	321	.892	12.10	.577
1938-39						
October.....	100	82	88.6	.246	.28	.159
November.....	153	85	98.1	.272	.30	.176
December.....	830	100	166	.461	.53	.298
January.....	1,820	105	250	.694	.80	.449
February.....	3,590	328	839	2.33	2.43	1.51
Merch.....	1,190	260	546	1.52	1.75	.982
April.....	1,150	191	344	.956	1.07	.618
Mey.....	229	147	183	.508	.59	.328
June.....	267	112	140	.389	.43	.251
July.....	364	97	163	.453	.52	.293
August.....	710	98	154	.428	.49	.277
September.....	106	69	82.8	.230	.26	.149
The year.....	3,590	69	251	.697	9.45	.450
1939-40						
October.....	102	66	77.7	.216	.25	.140
November.....	134	77	99.3	.276	.31	.178
December.....	110	78	90.7	.252	.29	.163
January.....	354	76	121	.336	.39	.217
February.....	1,080	95	389	1.08	1.17	.698
March.....	397	132	199	.553	.64	.357
April.....	750	135	282	.783	.87	.506
Mey.....	1,680	109	249	.692	.80	.447
June.....	1,460	178	544	1.51	1.69	.976
July.....	955	155	246	.683	.79	.441
August.....	9,160	143	1,017	2.82	3.25	1.82
September.....	1,320	176	332	.922	1.03	.596
The year.....	9,160	66	303	.842	11.48	.544
1940-41						
October.....	241	128	164	.456	.53	.295
November.....	1,120	144	275	.764	.85	.494
December.....	1,690	168	415	1.15	1.33	.743
January.....	616	254	379	1.05	1.21	.679
February.....	327	170	221	.614	.64	.397
March.....	954	155	298	.828	.95	.535
April.....	1,640	192	414	1.15	1.28	.743
Mey.....	188	108	142	.394	.45	.255
June.....	271	103	137	.381	.43	.246
July.....	504	117	210	.683	.67	.377
August.....	120	78	92.1	.256	.30	.165
September.....	81	58	71.6	.199	.22	.129
The year.....	1,690	58	235	.653	8.86	.422
1941-42						
October.....	81	60	67.5	.188	.22	.122
November.....	93	65	71.0	.197	.22	.127
December.....	154	69	90.5	.251	.29	.162
January.....	114	80	91.6	.254	.29	.164
February.....	258	90	132	.367	.38	.237
Merch.....	730	97	212	.589	.68	.381
April.....	235	85	135	.378	.42	.244
Mey.....	7,840	55	675	1.88	2.17	1.22
June.....	2,170	159	380	1.06	1.18	.685
July.....	264	104	155	.433	.50	.280
August.....	1,710	100	458	1.27	1.46	.821
September.....	448	111	165	.458	.51	.296
The year.....	7,840	60	221	.614	8.32	.397

Monthly discharge of Middle River near Orattoes, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	10,400	125	1,098	3.05	3.52	1.97
November.....	494	218	300	.833	.93	.538
December.....	4,300	156	498	1.38	1.59	.892
January.....	1,140	314	476	1.32	1.52	.853
February.....	1,610	301	669	1.86	1.94	1.20
March.....	2,110	258	666	1.85	2.13	1.20
April.....	1,760	262	444	1.23	1.37	.795
May.....	828	240	386	1.07	1.23	.692
June.....	779	172	343	.953	1.06	.616
July.....	1,710	156	316	.878	1.01	.567
August.....	162	108	127	.353	.41	.228
September.....	128	87	98.4	.273	.30	.176
The year.....	10,400	87	452	1.26	17.01	.814

Yearly discharge of Middle River near Grottoes, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1926.....	224	0.622	8.47	0.402	-	-	-	-
1928.....	364	1.01	13.77	.653	321	0.892	12.15	0.577
1929.....	304	.844	11.46	.545	324	.900	12.22	.582
1930.....	176	.489	6.62	.316	129	.358	4.87	.231
1931.....	165	.458	6.22	.296	167	.464	6.30	.300
1932.....	186	.517	7.02	.334	271	.753	10.27	.487
1933.....	395	1.10	14.90	.711	310	.861	11.71	.556
1934.....	152	.422	5.71	.273	226	.628	8.53	.406
1935.....	490	1.36	18.48	.879	461	1.28	17.37	.827
1936.....	520	1.44	19.66	.931	621	1.45	19.68	.937
1937.....	428	1.19	16.16	.769	519	1.44	19.56	.931
1938.....	321	.892	12.10	.577	194	.539	7.31	.348
1939.....	251	.697	9.45	.450	243	.675	9.19	.436
1940.....	303	.842	11.48	.544	352	.978	13.34	.632
1941.....	235	.653	8.86	.422	183	.508	6.88	.328
1942.....	221	.614	8.32	.397	362	1.01	13.63	.653
1943.....	452	1.26	17.01	.814	-	-	-	-
Highest.....	520	1.44	19.66	.931	521	1.45	19.68	.937
Average.....	305	.847	11.51	.547	306	.850	11.53	.549
Lowest.....	152	.422	5.71	.273	129	.358	4.87	.231

Lewis Creek near Staunton, Va.

Location.- Staff gage, lat. 38°09'32", long. 79°02'17", at private bridge 1.7 miles upstream from Poague Run and about 2 miles northeast of Staunton, Augusta County.

Drainage area.- 18 square miles.

Records available.- July 1905 to July 1906.

Extremes.- Maximum discharge observed, 92 second-feet June 25, 1906 (gage height, 1.94 feet), from rating curve extended above 13 second-feet; minimum observed, 1.2 second-feet May 17, 1906.

Monthly discharge of Lewis Creek near Staunton, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
July.....	23.5	1.9	5.98	0.332	0.38	0.215
August.....	5.5	1.4	3.15	.175	.20	.113
September.....	5.5	1.9	2.76	.153	.17	.099
1905-6						
October.....	18.9	1.4	4.58	.254	.29	.164
November.....	9.7	1.4	3.46	.192	.21	.124
December.....	6.8	1.9	3.34	.186	.21	.120
January.....	44.9	2.3	6.58	.366	.42	.237
February.....	5.5	2.3	3.61	.201	.21	.130
March.....	31.4	4.0	9.70	.539	.62	.348
April.....	12.7	2.3	6.06	.337	.38	.218
May.....	6.6	1.2	7.41	.412	.48	.266
June.....	9.2	3.8	12.3	.683	.76	.441
July 1-15.....	9.1	3.8	6.17	.343	.19	.222

South River at Waynesboro, Va.

Location.- Water-stage recorder, lat. 38°03'40", long. 78°53'50", at highway bridge just upstream from Baker Spring, in Waynesboro, Augusta County, and 4 miles downstream from Back Creek. Datum of gage is 1,277.13 feet above mean sea level, datum of 1929, supplementary adjustment of 1943.

Drainage area.- 144 square miles.

Records available.- July 1928 to September 1943.

Extreme.- Maximum discharge, 12,000 second-feet Oct. 15, 1942 (gage height, 14.8 feet). From rating curve extended above 5,000 second-feet by logarithmic plotting; minimum daily, 21 second-feet Oct. 6, 1939.

Remarks.- Records of discharge from Oct. 1, 1933 to Sept. 30, 1943 include diversion by E. I. du Pont de Nemours & Co., which started to divert water Aug. 17, 1929. Records do not include water diverted from a spring by city of Waynesboro about 3 miles above station. Flow regulated by mill above station. Records of water diverted can be obtained from E. I. du Pont de Nemours & Co., Waynesboro, and from city of Waynesboro.

Monthly discharge of South River at Waynesboro, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
August.....	868	51	177			
September.....	3,730	106	458			
1928-29						
October.....	213	86	120			
November.....	91	70	78.5			
December.....	124	65	80.2			
January.....	642	71	159			
February.....	518	100	157			
March.....	694	157	297			
April.....	1,640	110	321			
May.....	1,600	148	347			
June.....	226	114	162			
July.....	227	74	115			
August.....	79	47	58.7			
September.....	54	45	47.1			
The year.....	1,640	45	161			
1929-30						
October.....	1,450	59	233			
November.....	261	84	126			
December.....	236	84	112			
January.....	185	90	118			
February.....	430	93	164			
March.....	1,240	83	204			
April.....	171	58	85.2			
May.....	63	28	45.8			
June.....	93	28	42.0			
July.....	63	24	27.8			
August.....	36	23	26.5			
September.....	36	27	30.7			
The year.....	1,450	23	101			

Monthly discharge of South River at Waynesboro, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930-31						
October.....	35	30	32.4			
November.....	46	32	37.0			
December.....	54	22	31.8			
January.....	101	31	39.5			
February.....	49	31	38.6			
March.....	394	50	102			
April.....	530	86	206			
May.....	286	66	153			
June.....	278	47	112			
July.....	124	37	58.9			
August.....	1,090	31	138			
September.....	176	42	64.9			
The year.....	1,090	22	84.7			
1931-32						
October.....	51	36	39.5			
November.....	42	37	38.8			
December.....	46	37	40.2			
January.....	356	70	142			
February.....	297	64	110			
March.....	724	60	239			
April.....	340	76	175			
May.....	426	63	160			
June.....	67	32	46.0			
July.....	46	29	32.8			
August.....	32	23	27.0			
September.....	43	22	24.5			
The year.....	724	22	89.6			
1932-33						
October.....	2,100	25	185			
November.....	944	121	291			
December.....	451	70	131			
January.....	863	98	201			
February.....	395	162	238			
March.....	530	124	221			
April.....	2,040	154	561			
May.....	332	122	207			
June.....	202	55	86.8			
July.....	186	42	64.7			
August.....	61	31	38.5			
September.....	38	25	30.6			
The year.....	2,100	25	187			
1933-34						
October.....	36	30	34.2			
November.....	40	35	38.3			
December.....	52	32	37.8			
January.....	47	29	36.3			
February.....	36	30	32.9			
March.....	445	31	143			
April.....	285	80	128			
May.....	132	48	68.9			
June.....	505	37	97.7			
July.....	61	30	39.1			
August.....	54	29	36.8			
September.....	798	29	112			
The year.....	798	29	66.2			
1934-35						
October.....	130	40	56.1			
November.....	803	44	109			
December.....	2,800	102	325			
January.....	1,420	89	243			
February.....	356	162	228			
March.....	597	137	248			
April.....	857	159	434			
May.....	153	83	117			
June.....	126	60	82.6			
July.....	82	52	68.1			
August.....	229	53	92.1			
September.....	1,740	64	239			
The year.....	2,800	40	186			

Monthly discharge of South River at Waynesboro, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per equare mile
	Maximum	Minimum	Mean	Per square mile		
1935-36						
October.....	155	52	63.3			
November.....	332	55	150			
December.....	746	114	231			
January.....	1,380	120	475			
February.....	1,150	141	410			
March.....	5,670	181	829			
April.....	516	141	291			
May.....	305	74	133			
June.....	98	49	68.6			
July.....	91	53	59.1			
August.....	123	44	57.5			
September.....	96	37	47.6			
The year.....	5,670	37	235			
1936-37						
October.....	1,410	46	139			
November.....	75	59	66.6			
December.....	232	65	162			
January.....	1,510	212	470			
February.....	2,220	235	423			
March.....	310	145	205			
April.....	4,390	132	497			
May.....	404	117	209			
June.....	165	83	110			
July.....	246	77	124			
August.....	499	62	129			
September.....	282	83	142			
The year.....	4,390	46	222			
1937-38						
October.....	1,360	86	441			
November.....	1,060	167	303			
December.....	256	118	158			
January.....	298	104	135			
February.....	136	92	110			
March.....	178	95	127			
April.....	185	80	119			
May.....	107	67	79.5			
June.....	220	51	90.7			
July.....	589	48	126			
August.....	230	58	108			
September.....	74	49	56.2			
The year.....	1,560	48	155			
1938-39						
October.....	53	47	49.5			
November.....	142	49	69.9			
December.....	343	65	127			
January.....	575	81	128			
February.....	708	172	330			
March.....	529	133	235			
April.....	208	91	132			
May.....	159	70	94.3			
June.....	125	42	61.3			
July.....	105	40	54.2			
August.....	567	34	84.9			
September.....	54	25	33.9			
The year.....	708	25	115			
1939-40						
October.....	53	21	35.4			
November.....	63	40	49.5			
December.....	57	40	46.3			
January.....	355	35	69.8			
February.....	410	40	176			
March.....	204	76	116			
April.....	343	82	159			
May.....	569	63	107			
June.....	427	65	141			
July.....	100	48	58.8			
August.....	7,080	42	731			
September.....	356	76	135			
The year.....	7,080	21	152			

Monthly discharge of South River at Waynesboro, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1940-41						
October.....	95	45	61.8			
November.....	281	55	97.0			
December.....	844	63	165			
January.....	304	114	170			
February.....	146	70	99.2			
March.....	175	70	107			
April.....	678	101	197			
May.....	100	47	67.9			
June.....	88	40	50.9			
July.....	99	38	53.2			
August.....	39	25	35.1			
September.....	35	26	31.7			
The year.....	844	25	94.6			
1941-42						
October.....	33	27	30.7			
November.....	32	26	28.6			
December.....	160	27	42.3			
January.....	72	32	43.3			
February.....	125	47	69.1			
March.....	604	44	111			
April.....	107	40	64.1			
May.....	3,020	41	449			
June.....	166	60	108			
July.....	67	37	46.6			
August.....	247	34	118			
September.....	174	37	61.5			
The year.....	3,020	26	98.3			
1942-43						
October.....	6,920	53	603			
November.....	168	94	121			
December.....	1,240	80	177			
January.....	477	120	179			
February.....	560	134	251			
March.....	415	110	218			
April.....	1,240	116	252			
May.....	759	112	193			
June.....	216	68	113			
July.....	105	48	66.2			
August.....	53	42	45.5			
September.....	46	34	38.6			
The year.....	6,920	34	188			

Yearly discharge of South River at Waynesboro, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	161				178			
1930.....	101				69.9			
1931.....	84.7				85.1			
1932.....	89.6				130			
1933.....	187				144			
1934.....	66.2				98.3			
1935.....	186				182			
1936.....	235				228			
1937.....	222				266			
1938.....	155				99.8			
1939.....	115				106			
1940.....	152				168			
1941.....	94.6				76.0			
1942.....	93.3				166			
1943.....	188				-			

South River at Basic City, Va.

Location.- Chain gage, lat. 38°04'48", long. 78°52'30", at highway bridge 1 mile downstream from Chesapeake & Ohio Railway bridge at Basic City and half a mile north-east of Waynesboro, Augusta County.

Drainage area.- 152 square miles.

Records available.- July 1905 to July 1906.

Extremes.- Maximum discharge observed, 972 second-feet Dec. 21, 1905 (gage height, 5.5 feet), from rating curve extended above 220 second-feet; minimum, 7 second-feet Nov. 28, 1905.

Remarks.- Flow regulated by mill above station.

Monthly discharge of South River at Basic City, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
July.....	786	41	159	1.05	1.21	0.679
August.....	135	29	70.9	.466	.54	.301
September.....	208	19	58.2	.383	.43	.248
1905-6						
October.....	91	12	42.2	.278	.32	.180
November.....	41	7	23.4	.154	.17	.100
December.....	972	19	160	1.05	1.21	.679
January.....	750	91	258	1.70	1.96	1.10
February.....	261	91	141	.928	.97	.600
March.....	897	112	276	1.82	2.10	1.18
April.....	607	135	241	1.59	1.77	1.03
May.....	159	55	106	.700	.81	.452
June.....	953	41	154	1.01	1.13	.653
July 1-15.....	91	29	62.5	.411	.23	.266

South River at Harrieton, Va.

Location.- Water-stage recorder, lat. 38°13'07", long. 78°50'13", at highway bridge at Harrieton, Augusta County, half a mile downstream from Still Run and 7 miles upstream from confluence with North River. Datum of gage is 1,127.29 feet above mean sea level, datum of 1929. Prior to Sept. 1, 1938, chain gage at same site and datum.

Drainage area.- 222 square miles.

Records available.- February 1925 to September 1943.

Extremes.- Maximum discharge, 23,100 second-feet Oct. 15, 1942 (gage height, 17.2 feet), from rating curve extended above 6,000 second-feet by logarithmic plotting; minimum, 17 second-feet Nov. 14, 1941; minimum daily, 25 second-feet Aug. 24, 1930.

Remarks.- Low flow regulated by mill above station.

Monthly discharge of South River at Harrieton, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1925						
February 15-28.....	623	257	400	1.80	0.94	1.16
March.....	257	145	191	.860	.99	.556
April.....	366	106	140	.630	.70	.407
May.....	416	104	180	.811	.94	.524
June.....	209	73	103	.464	.52	.300
July.....	136	58	80.9	.364	.42	.235
August.....	78	45	62.5	.282	.38	.182
September.....	113	44	56.3	.254	.23	.164
1925-26						
October.....	73	42	54.7	.246	.28	.159
November.....	128	48	60.0	.270	.30	.175
December.....	1,410	-	190	.856	.99	.553
January.....	1,230	-	252	1.14	1.31	.737
February.....	1,230	253	511	2.30	2.40	1.49
March.....	416	160	223	1.00	1.15	.646
April.....	608	145	301	1.36	1.52	.879
May.....	148	84	119	.536	.62	.346
June.....	106	50	77.1	.347	.39	.224
July.....	174	45	69.8	.314	.36	.203
August.....	270	41	77.2	.343	.40	.225
September.....	92	50	68.7	.309	.34	.200
The year.....	1,410	-	165	.743	10.06	.480

Monthly discharge of South River at Harriston, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1926-27						
October.....	86	54	64.4	0.290	0.33	0.187
November.....	1,960	49	337	1.52	1.70	.982
December.....	1,350	110	299	1.35	1.56	.873
January.....	416	124	187	.842	.97	.544
February.....	1,410	133	408	1.84	1.92	1.19
March.....	497	108	229	1.03	1.19	.666
April.....	2,340	205	523	2.36	2.63	1.53
May.....	524	119	245	1.10	1.27	.711
June.....	163	67	105	.473	.53	.306
July.....	155	68	88.5	.399	.46	.258
August.....	185	65	104	.468	.54	.302
September.....	84	60	72.3	.326	.36	.211
The year.....	2,340	49	220	.991	13.46	.641
1927-28						
October.....	2,300	68	462	2.08	2.40	1.34
November.....	1,160	119	255	1.14	1.27	.737
December.....	2,370	160	476	2.14	2.47	1.33
January.....	295	110	173	.779	.90	.503
February.....	616	146	271	1.22	1.32	.789
March.....	270	131	184	.829	.96	.535
April.....	1,640	141	337	1.74	1.94	1.12
May.....	1,730	133	408	1.84	2.12	1.19
June.....	274	96	129	.581	.65	.376
July.....	266	72	122	.550	.63	.355
August.....	1,570	67	269	1.22	1.41	.789
September.....	7,270	172	700	3.15	3.51	.204
The year.....	7,270	67	319	1.44	19.58	.931
1928-29						
October.....	338	114	170	.766	.89	.495
November.....	166	88	105	.473	.53	.306
December.....	158	78	111	.500	.58	.323
January.....	1,290	91	258	1.16	1.34	.750
February.....	970	144	262	1.18	1.23	.763
March.....	1,290	234	491	2.21	2.55	1.43
April.....	4,890	166	682	2.62	2.92	1.69
May.....	3,350	209	497	2.24	2.58	1.45
June.....	383	131	198	.892	1.00	.677
July.....	360	83	145	.644	.74	.416
August.....	91	56	72.1	.325	.38	.210
September.....	86	54	68.2	.307	.34	.198
The year.....	4,890	54	246	1.11	15.07	.717
1929-30						
October.....	4,480	78	460	2.07	2.39	1.34
November.....	560	116	208	.937	1.05	.606
December.....	406	110	176	.793	.91	.513
January.....	316	124	183	.824	.95	.533
February.....	674	149	253	1.14	1.19	.737
March.....	2,140	124	334	1.50	1.73	.969
April.....	266	96	150	.676	.75	.437
May.....	124	52	83.2	.375	.43	.242
June.....	149	47	67.8	.305	.34	.197
July.....	59	35	47.3	.213	.25	.138
August.....	66	25	42.1	.190	.22	.123
September.....	52	29	41.0	.185	.21	.120
The year.....	4,480	25	170	.766	10.42	.495
1930-31						
October.....	70	32	46.5	.209	.24	.135
November.....	83	-	64.0	.243	.27	.157
December.....	81	40	56.9	.256	.30	.165
January.....	242	43	65.4	.295	.34	.191
February.....	72	32	67.0	.257	.27	.166
March.....	645	72	162	.730	.84	.472
April.....	970	151	334	1.50	1.67	.969
May.....	410	112	242	1.09	1.26	.704
June.....	348	81	165	.743	.83	.480
July.....	180	74	99.5	.448	.52	.290
August.....	2,000	67	240	1.08	1.24	.698
September.....	211	59	87.7	.395	.44	.255
The year.....	2,000	32	134	.604	8.22	.390

Monthly discharge of South River at Harriston, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
October.....	87	38	56.5	0.255	0.29	0.165
November.....	67	43	55.8	.251	.28	.162
December.....	69	40	53.8	.242	.28	.156
January.....	454	90	191	.860	.99	.656
February.....	450	90	162	.730	.79	.472
March.....	1,360	79	395	1.78	2.05	1.15
April.....	533	128	277	1.25	1.40	.808
May.....	910	107	286	1.29	1.49	.834
June.....	122	50	81.5	.367	.41	.237
July.....	86	36	57.2	.258	.30	.167
August.....	68	36	45.6	.205	.24	.132
September.....	73	35	44.9	.202	.23	.131
The year.....	1,360	35	142	.640	8.75	.414
1932-33						
October.....	2,070	33	266	1.15	1.33	.743
November.....	1,850	189	452	2.04	2.28	1.32
December.....	860	120	229	1.03	1.19	.666
January.....	2,000	161	377	1.70	1.96	1.10
February.....	535	259	370	1.67	1.74	1.08
March.....	970	195	359	1.62	1.87	1.05
April.....	4,610	226	916	4.13	4.61	2.67
May.....	509	178	311	1.40	1.61	.905
June.....	318	79	139	.626	.70	.405
July.....	535	84	164	.739	.85	.478
August.....	609	84	148	.667	.77	.431
September.....	132	77	96.7	.436	.49	.282
The year.....	4,610	33	317	1.43	19.40	.924
1933-34						
October.....	88	70	78.3	.363	.41	.228
November.....	96	60	73.7	.332	.37	.215
December.....	106	50	72.2	.325	.37	.210
January.....	92	44	69.9	.315	.36	.204
February.....	77	50	61.6	.277	.29	.179
March.....	910	50	272	1.23	1.42	.795
April.....	532	142	232	1.05	1.17	.679
May.....	242	82	133	.599	.69	.397
June.....	970	73	159	.716	.80	.463
July.....	104	49	69.5	.313	.36	.202
August.....	131	50	68.8	.310	.36	.200
September.....	1,160	47	164	.739	.82	.478
The year.....	1,160	44	121	.545	7.42	.352
1934-35						
October.....	214	66	103	.464	.53	.300
November.....	1,460	70	182	.820	.91	.530
December.....	7,250	174	628	2.83	3.26	1.83
January.....	3,110	140	426	1.92	2.21	1.24
February.....	618	274	388	1.75	1.82	1.13
March.....	1,020	214	411	1.85	2.13	1.20
April.....	1,540	243	709	3.19	3.66	2.06
May.....	243	145	191	.860	.99	.556
June.....	1,020	100	178	.802	.89	.518
July.....	228	96	138	.622	.72	.402
August.....	760	96	237	1.07	1.23	.692
September.....	4,250	111	468	2.11	2.35	1.36
The year.....	7,250	66	337	1.52	20.60	.982
1935-36						
October.....	228	80	110	.495	.57	.320
November.....	515	111	264	1.19	1.33	.769
December.....	1,790	187	409	1.84	2.12	1.19
January.....	3,250	214	825	3.72	4.29	2.40
February.....	1,700	228	602	2.71	2.92	1.75
March.....	9,350	290	1,407	6.34	7.31	4.10
April.....	880	267	496	2.23	2.49	1.44
May.....	595	142	241	1.09	1.26	.704
June.....	700	92	163	.689	.77	.445
July.....	210	82	107	.482	.56	.312
August.....	183	66	92.4	.416	.48	.269
September.....	170	59	77.4	.349	.39	.226
The year.....	9,330	59	399	1.80	24.49	1.16

Monthly discharge of South River at Harriston, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	3,230	69	249	1.12	1.29	0.724
November.....	102	62	84.7	.382	.43	.247
December.....	403	80	260	1.17	1.35	.756
January.....	2,990	348	820	3.69	4.25	2.38
February.....	5,110	381	720	3.24	3.37	2.09
March.....	453	213	313	1.41	1.63	.911
April.....	10,100	200	869	3.91	4.36	2.53
May.....	645	183	306	1.38	1.59	.892
June.....	238	102	153	.689	.77	.445
July.....	282	100	156	.703	.81	.454
August.....	730	80	167	.752	.87	.486
September.....	422	102	197	.887	.99	.573
The year.....	10,100	62	355	1.60	21.71	1.03
1937-38						
October.....	2,720	124	705	3.18	3.67	2.06
November.....	2,250	256	473	2.13	2.38	1.38
December.....	388	170	229	1.03	1.19	.666
January.....	441	152	207	.932	1.07	.592
February.....	250	166	205	.923	.96	.507
March.....	361	178	232	1.05	1.21	.679
April.....	294	153	207	.932	1.04	.602
May.....	180	117	138	.622	.72	.402
June.....	294	96	155	.698	.78	.451
July.....	880	80	195	.878	1.01	.567
August.....	351	78	164	.739	.85	.478
September.....	155	80	89.4	.403	.45	.260
The year.....	2,720	78	250	1.13	15.33	.730
1938-39						
October.....	89	73	78.9	.355	.41	.229
November.....	258	76	114	.514	.57	.332
December.....	564	104	205	.923	1.06	.597
January.....	896	134	200	.801	1.04	.582
February.....	1,090	264	474	2.14	2.23	1.38
March.....	842	208	358	1.61	1.86	1.04
April.....	341	159	218	.982	1.10	.635
May.....	213	120	155	.698	.80	.451
June.....	160	82	109	.491	.55	.317
July.....	176	85	112	.505	.58	.326
August.....	798	80	151	.680	.78	.439
September.....	110	63	77.9	.351	.39	.227
The year.....	1,090	63	186	.838	11.37	.542
1939-40						
October.....	98	50	70.8	.319	.37	.206
November.....	104	70	89.2	.402	.45	.260
December.....	113	72	84.9	.382	.44	.247
January.....	512	60	114	.514	.59	.332
February.....	684	66	267	1.20	1.28	.776
March.....	220	117	173	.779	.90	.503
April.....	586	134	251	1.13	1.26	.730
May.....	707	108	167	.752	.87	.486
June.....	651	116	226	1.02	1.14	.659
July.....	146	86	104	.468	.54	.302
August.....	8,490	79	925	4.17	4.80	2.70
September.....	430	127	197	.887	.99	.573
The year.....	8,490	50	222	1.00	13.64	.646
1940-41						
October.....	150	86	109	.491	.57	.317
November.....	403	87	148	.667	.74	.431
December.....	1,160	100	243	1.09	1.26	.704
January.....	450	188	255	1.15	1.33	.743
February.....	202	121	152	.685	.71	.443
March.....	282	112	178	.802	.92	.518
April.....	1,120	165	313	1.41	1.57	.911
May.....	165	85	117	.527	.61	.341
June.....	132	69	89.4	.403	.45	.260
July.....	144	73	94.7	.427	.49	.276
August.....	76	56	68.1	.307	.35	.198
September.....	70	52	61.6	.277	.31	.179
The year.....	1,160	52	152	.685	9.31	.443

Monthly discharge of South River at Harrison, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	66	51	59.5	0.268	0.31	0.173
November.....	73	48	56.4	.254	.28	.164
December.....	194	53	76.8	.346	.40	.224
January.....	100	58	72.7	.327	.38	.211
February.....	194	86	112	.505	.53	.326
March.....	844	83	177	.797	.92	.515
April.....	167	76	106	.477	.53	.308
May.....	3,260	60	595	2.68	3.09	1.73
June.....	317	102	179	.806	.90	.521
July.....	127	68	89.4	.403	.46	.260
August.....	356	62	181	.815	.94	.527
September.....	314	66	101	.455	.51	.294
The year.....	3,260	48	151	.680	9.25	.439
1942-43						
October.....	12,600	75	1,048	4.72	5.44	3.05
November.....	304	149	195	.878	.98	.567
December.....	1,900	129	262	1.18	1.36	.763
January.....	782	204	286	1.29	1.49	.834
February.....	918	204	379	1.71	1.78	1.11
March.....	692	174	335	1.51	1.74	.976
April.....	2,340	179	404	1.82	2.03	1.18
May.....	1,240	189	321	1.45	1.67	.937
June.....	399	122	203	.914	1.02	.591
July.....	216	92	120	.541	.62	.350
August.....	88	73	79.6	.359	.41	.252
September.....	78	62	70.0	.315	.35	.204
The year.....	12,600	62	309	1.39	18.89	.898

Yearly discharge of South River at Harrison, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1926.....	165	0.743	10.06	0.480	197	0.887	12.08	0.573
1927.....	220	.991	13.46	.641	262	1.18	16.01	.763
1928.....	319	1.44	19.58	.931	251	1.13	15.43	.730
1929.....	246	1.11	15.07	.717	285	1.28	17.43	.827
1930.....	170	.766	10.42	.495	113	.509	6.88	.329
1931.....	134	.604	8.22	.390	135	.608	8.26	.393
1932.....	142	.640	8.75	.414	207	.932	12.70	.602
1933.....	317	1.43	19.40	.924	257	1.16	15.75	.750
1934.....	121	.545	7.42	.352	179	.806	10.97	.521
1935.....	337	1.52	20.60	.982	326	1.47	19.92	.950
1936.....	399	1.80	24.49	1.16	384	1.73	23.54	1.12
1937.....	355	1.60	21.71	1.03	423	1.91	25.98	1.23
1938.....	250	1.13	15.33	.730	166	.748	10.13	.483
1939.....	186	.838	11.37	.542	173	.779	10.59	.503
1940.....	222	1.00	13.64	.646	244	1.10	14.95	.711
1941.....	152	.685	9.31	.443	127	.572	7.73	.370
1942.....	151	.680	9.25	.439	262	1.18	16.04	.763
1943.....	309	1.39	18.89	.898	-	-	-	-
Highest.....	399	1.80	24.49	1.16	423	1.91	25.88	1.23
Average.....	233	1.05	14.28	.679	235	1.06	14.37	.685
Lowest.....	121	.545	7.42	.352	113	.509	6.88	.329

South River at Port Republic, Va.

Location.- Staff gage, lat. 38°17'55", long. 78°48'39", on county bridge just east of Port Republic, Rockingham County, and 300 feet upstream from North River.

Drainage area.- 248 square miles.

Records available.- August 1895 to March 1899.

Extremes.- Maximum discharge observed, 9,200 second-feet Sept. 30, 1896 (gage height, 17.0 feet), from rating curve extended above 1,600 second-feet; minimum discharge, 70 second-feet Aug. 24, 1895.

Remarks.- Flow regulated by power plant above station.

Monthly discharge of South River at Port Republic, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1895						
August 6-31.....	105	70	79.8	0.323	0.31	0.209
September.....	112	85	93.7	.379	.42	.245
1895-96						
October.....	85	85	85.0	.343	.40	.222
November.....	95	85	93.3	.375	.42	.242
December.....	290	95	136	.548	.63	.354
January.....	2,350	85	305	1.23	1.42	.795
February.....	1,390	250	517	2.08	2.24	1.34
March.....	1,900	195	473	1.91	2.20	1.23
April.....	1,090	160	375	1.51	1.68	.976
May.....	945	140	218	.879	1.01	.568
June.....	570	120	255	1.03	1.15	.666
July.....	2,280	120	322	1.30	1.50	.840
August.....	250	105	123	.496	.57	.321
September.....	9,200	90	597	2.41	2.69	1.56
The year.....	9,200	85	290	1.17	14.41	.756
1896-97						
October.....	2,420	140	362	1.46	1.68	.944
November.....	1,760	140	376	1.52	1.70	.982
December.....	720	112	208	.839	.97	.542
January.....	195	112	131	.528	.61	.341
February.....	3,720	195	1,072	4.32	4.50	2.79
March.....	720	250	459	1.85	2.13	1.20
April.....	290	170	220	.887	.99	.573
May.....	5,610	170	797	3.21	3.70	2.07
June.....	210	120	152	.613	.68	.396
July.....	160	105	125	.504	.58	.326
August.....	120	85	103	.415	.48	.268
September.....	95	85	91.3	.367	.41	.237
The year.....	5,610	85	336	1.35	18.43	.873
1897-98						
October.....	250	95	119	4.80	.55	3.10
November.....	795	120	192	.774	.86	.500
December.....	495	112	166	.669	.77	.432
January.....	250	130	175	.706	.81	.456
February.....	250	120	162	.653	.68	.422
March.....	350	120	177	.714	.82	.461
April.....	945	250	408	1.65	1.84	1.07
May.....	2,420	180	561	2.26	2.61	1.46
June.....	195	120	153	.617	.69	.399
July.....	290	105	142	.573	.66	.370
August.....	3,600	140	690	2.78	3.20	1.80
September.....	150	100	121	.488	.54	.315
The year.....	3,600	95	257	1.04	14.03	.672
1898-99						
October.....	4,340	100	835	3.37	3.88	2.18
November.....	570	195	282	1.14	1.27	.737
December.....	1,680	180	484	1.95	2.25	1.26
January.....	2,420	290	638	2.57	2.96	1.66
February.....	3,540	290	964	3.89	4.08	2.51
March.....	7,700	570	1,525	6.15	7.09	3.97

Yearly discharge of South River at Port Republic, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1896.....	290	1.17	14.41	0.756	343	1.38	17.31	0.892
1897.....	336	1.35	18.43	.873	297	1.20	16.26	.776
1898.....	257	1.04	14.03	.672	352	1.42	19.25	.918

Elk Run at Elkton, Va.

Location.- Chain gage, lat. 38°24'12", long. 78°37'26", at highway bridge 100 feet downstream from railroad bridge, 500 feet south of the railroad station at Elkton, Rockingham County, and half a mile upstream from mouth.

Drainage area.- 17 square miles.

Records available.- July 1905 to July 1906.

Extremes.- Maximum discharge observed, 132 second-feet Apr. 15, 1906 (gage height, 4.5 feet), from rating curve extended above 17 second-feet; minimum, 5.5 second-feet at times during September 1905.

Monthly discharge of Elk Run At Elkton, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
July.....	57	7	1.19	0.700	0.81	0.452
August.....	85	7	1.41	.829	.96	.536
September.....	15	5.5	6.73	.396	.44	.266
1905-6						
October.....	27	6	9.39	.552	.64	.357
November.....	12	8.5	9.40	.553	.62	.357
December.....	46	7.5	11.8	.694	.80	.449
January.....	29	10	15.8	.929	1.07	.600
February.....	18	11	13.5	.794	.83	.513
March.....	42	11	19.3	1.14	1.31	.737
April.....	132	15	27.0	1.59	1.77	1.05
May.....	20	6.5	11.5	.676	.78	.437
June.....	54	5.5	9.90	.582	.65	.376
July 1-15.....	44	6	10.7	.629	.35	.407

Hawksbill Creek near Luray, Va.

Location.- Staff gage, lat. 38°41'09", long. 78°27'24", 400 feet upstream from Dry Run and 1½ miles north of Luray, Page County.

Drainage area.- 52 square miles.

Records available.- June 1905 to July 1906.

Extremes.- Maximum discharge, 430 second-feet Apr. 15, 1906 (estimated gage height, 3.35 feet), from rating curve extended above 75 second-feet; minimum, 24 second-feet, at times during September 1905.

Highest known stage, 19.55 feet, from well defined floodmarks, Oct. 13, 1893.

Monthly discharge of Hawksbill Creek near Luray, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1905						
July.....	46	30	36.1	0.694	0.80	0.449
August.....	63	27	32.6	.627	.72	.405
September.....	37	24	27.5	.529	.59	.342
1905-6						
October.....	46	27	30.0	.577	.66	.373
November.....	34	27	30.0	.577	.64	.373
December.....	296	30	81.7	1.57	1.81	1.01
January.....	414	52	100	1.92	2.21	1.24
February.....	83	37	53.9	1.04	1.08	.672
March.....	173	42	85.2	1.64	1.89	1.06
April.....	430	69	123	2.37	2.64	1.53
May.....	63	37	53.6	1.03	1.19	.666
June.....	232	37	68.8	1.32	1.47	.853
July 1-15.....	69	37	42.7	.821	.46	.531

North Fork Shenandoah River at Cootes Store, Va.

Location.- Water-stage recorder, lat. 38°38', long. 78°51', at highway bridge at Cootes Store, Rockingham County, 1 mile downstream from Brocks Gap and 3½ miles upstream from Linville Creek. Datum of gage is 1,051.8 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark). Prior to Nov. 15, 1937, chain gage at same site and datum.

Drainage area.- 215 square miles.

Records available.- February 1925 to September 1943.

Extremes.- Maximum discharge, 50,000 second-feet Oct. 15, 1942 (gage height, 25.3 feet, from floodmark), from rating curve extended above 9,000 second-feet by logarithmic plotting and on basis of contracted opening determination at gage height 25.3 feet; minimum, 0.4 second-foot Oct. 1, 1929, Aug. 22 to Sept. 3, 1930.

Monthly discharge of North Fork Shenandoah River at Cootes Store, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1925						
March.....	2,060	48	224	1.04	1.20	0.672
April.....	1,840	37	209	.972	1.08	.628
May.....	1,620	26	196	.912	1.05	.589
June.....	191	14	30.2	.140	.16	.090
July.....	86	8.0	24.3	.113	.13	.073
August.....	12	1.8	4.48	.021	.02	.014
September.....	2.1	1.5	1.77	.008	.01	.0052
1925-26						
October.....	5.3	1.5	2.47	.011	.01	.0071
November.....	156	4.6	29.9	.139	.16	.090
December.....	304	-	68.4	.318	.37	.206
January.....	800	14	118	.549	.65	.355
February.....	1,410	170	520	2.42	2.52	1.56
March.....	304	39	105	.498	.56	.315
April.....	655	104	249	1.16	1.29	.750
May.....	420	35	106	.493	.57	.319
June.....	37	10	22.2	.103	.11	.067
July.....	156	3.9	25.3	.118	.14	.076
August.....	3,670	18	323	1.50	1.73	.969
September.....	655	14	83.7	.389	.43	.251
The year.....	3,670	1.5	135	.628	8.52	.406
1926-27						
October.....	268	28	89.9	.418	.48	.270
November.....	5,840	36	524	2.44	2.72	1.58
December.....	2,630	97	376	1.75	2.02	1.13
January.....	251	-	89	.414	.48	.268
February.....	1,830	75	489	2.27	2.36	1.47
March.....	440	71	173	.805	.93	.520
April.....	2,470	179	705	3.28	3.66	2.12
May.....	1,270	41	196	.912	1.05	.589
June.....	165	17	45.8	.213	.24	.138
July.....	48	12	22.3	.104	.12	.067
August.....	30	15	22.6	.105	.12	.068
September.....	14	3.5	8.83	.041	.05	.026
The year.....	5,840	3.5	225	1.05	14.23	.679
1927-28						
October.....	1,550	3.5	268	1.25	1.44	.808
November.....	565	19	128	.595	.66	.385
December.....	1,690	34	265	1.23	1.42	.795
January.....	542	30	150	.698	.80	.451
February.....	610	78	175	.814	.88	.526
March.....	1,140	57	233	1.08	1.24	.698
April.....	3,910	104	553	2.57	2.87	1.66
May.....	2,480	86	299	1.39	1.60	.898
June.....	490	56	184	.856	.96	.553
July.....	119	7.8	40.5	.188	.22	.122
August.....	935	7.8	125	.581	.67	.376
September.....	600	15	84.1	.391	.44	.253
The year.....	3,910	3.5	209	.972	13.20	.628

Monthly discharge of North Fork Shenandoah River at Cootes Store, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928-29						
October.....	40	14	20.6	0.096	0.11	0.062
November.....	24	14	21.3	.099	.11	.064
December.....	155	18	59.2	.275	.32	.176
January.....	216	32	103	.479	.55	.310
February.....	2,260	44	222	1.03	1.07	.666
March.....	1,770	77	485	2.26	2.61	1.46
April.....	13,600	76	813	3.78	4.22	2.44
May.....	1,770	56	273	1.27	1.46	.821
June.....	935	40	168	.781	.87	.505
July.....	178	9.6	61.2	.285	.33	.184
August.....	9.2	1.8	4.75	.022	.03	.014
September.....	2.8	.6	1.73	.0080	.009	.0052
The year.....	13,600	.6	185	.860	11.69	.556
1929-30						
October.....	2,180	.4	304	1.41	1.63	.911
November.....	2,880	74	351	1.63	1.82	1.05
December.....	640	86	202	.940	1.08	.608
January.....	270	30	90.5	.421	.49	.272
February.....	640	26	168	.735	.77	.475
March.....	980	66	204	.949	1.09	.613
April.....	144	44	70.0	.326	.36	.211
May.....	42	11	30.4	.141	.16	.091
June.....	178	6.5	46.0	.214	.24	.138
July.....	12	1.1	3.73	.017	.02	.011
August.....	.9	.4	.52	.0024	.003	.0016
September.....	.9	.4	.66	.0031	.003	.0020
The year.....	2,880	.4	121	.563	7.67	.364
1930-31						
October.....	1.2	.7	.76	.0035	.004	.0023
November.....	3.7	1.2	3.26	.015	.02	.0097
December.....	9.2	2.9	4.82	.022	.03	.014
January.....	155	6.5	28.3	.132	.15	.085
February.....	31	6.5	13.8	.064	.07	.041
March.....	525	33	97.7	.454	.52	.293
April.....	600	57	293	1.36	1.52	.879
May.....	600	56	181	.842	.97	.544
June.....	490	13	125	.581	.65	.376
July.....	455	16	86.1	.400	.46	.259
August.....	1,400	11	216	1.00	1.15	.646
September.....	105	13	29.5	.137	.15	.088
The year.....	1,400	.7	90.3	.420	5.69	.271
1931-32						
October.....	11	4.5	5.96	.028	.03	.018
November.....	4.5	3.4	3.84	.018	.02	.012
December.....	4.5	3.4	4.07	.019	.02	.012
January.....	63	15	29.3	.136	.16	.088
February.....	2,640	20	220	1.02	1.10	.659
March.....	2,640	26	480	2.23	2.57	1.44
April.....	525	68	155	.721	.80	.466
May.....	3,200	48	569	2.65	3.06	1.71
June.....	92	11	29.9	.139	.15	.090
July.....	35	3.4	10.2	.047	.05	.030
August.....	3.4	1.2	1.50	.0070	.008	.0045
September.....	1.2	.9	1.10	.0051	.006	.0033
The year.....	3,200	.9	126	.586	7.98	.379
1932-33						
October.....	2,880	.6	320	1.49	1.72	.963
November.....	2,040	88	353	1.64	1.83	1.06
December.....	800	30	145	.674	.78	.436
January.....	2,640	86	323	1.50	1.73	.969
February.....	490	99	201	.935	.97	.604
March.....	1,840	83	340	1.58	1.82	1.02
April.....	5,160	119	946	4.40	4.91	2.84
May.....	1,340	107	329	1.53	1.76	.989
June.....	216	7.9	58.7	.273	.30	.176
July.....	270	4.5	41.1	.191	.22	.123
August.....	1,970	6.0	144	.670	.77	.433
September.....	190	15	58.3	.273	.30	.176
The year.....	5,160	.6	271	1.26	17.11	.814

Monthly discharge of North Fork Shenandoah River at Cootes Store, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933-34						
October.....	15	4.5	8.01	0.037	0.04	0.024
November.....	9.4	4.5	6.14	.029	.03	.019
December.....	20	4.5	8.91	.041	.05	.026
January.....	53	8.3	25.4	.118	.14	.076
February.....	19	8.3	11.3	.053	.06	.034
March.....	1,520	11	287	1.33	1.53	.860
April.....	325	46	129	.600	.67	.388
May.....	116	32	61.2	.285	.33	.184
June.....	233	7.5	40.7	.189	.21	.122
July.....	18	1.0	5.04	.023	.03	.015
August.....	29	1.9	10.9	.051	.06	.033
September.....	1,460	2.8	101	.470	.52	.304
The year.....	1,520	1.0	58.1	.270	3.67	.175
1934-35						
October.....	116	10	36.5	.170	.20	.110
November.....	154	7	31.7	.147	.16	.095
December.....	1,400	40	210	.977	1.13	.631
January.....	2,800	40	327	1.52	1.75	.982
February.....	2,110	134	530	2.47	2.57	1.60
March.....	770	116	268	1.25	1.44	.808
April.....	2,330	77	596	2.77	3.09	1.79
May.....	1,640	62	199	.926	1.07	.598
June.....	390	22	93.7	.436	.49	.282
July.....	174	7	31.5	.147	.17	.095
August.....	233	8	37.0	.172	.20	.111
September.....	2,180	9	237	1.10	1.23	.711
The year.....	2,800	7	214	.995	13.50	.643
1935-36						
October.....	86	4	11.4	.053	.06	.034
November.....	2,560	19	259	1.20	1.34	.776
December.....	525	52	153	.712	.82	.460
January.....	1,390	58	455	2.12	2.44	1.37
February.....	4,000	45	613	2.65	3.07	1.84
March.....	14,900	179	1,536	7.14	8.23	4.61
April.....	990	25	288	1.34	1.50	.866
May.....	420	17	67.5	.314	.36	.203
June.....	116	9	29.8	.139	.16	.090
July.....	28	4	10.1	.047	.05	.030
August.....	5	1	2.6	.012	.01	.0078
September.....	5	2	3.2	.015	.02	.0097
The year.....	14,900	1	285	1.33	18.06	.860
1936-37						
October.....	2,880	3	140	.651	.75	.421
November.....	21	6	13.7	.064	.07	.041
December.....	620	8	193	.898	1.04	.580
January.....	2,960	200	656	3.05	3.52	1.97
February.....	4,120	135	447	2.08	2.17	1.34
March.....	225	43	100	.465	.54	.301
April.....	2,720	48	356	1.66	1.85	1.07
May.....	420	57	143	.665	.77	.430
June.....	420	26	88.9	.413	.46	.267
July.....	48	4	18.5	.086	.10	.056
August.....	3,880	2	284	1.32	1.52	.853
September.....	1,060	17	221	1.03	1.15	.666
The year.....	4,120	2	221	1.03	13.94	.666
1937-38						
October.....	3,800	15	518	2.41	2.78	1.56
November.....	347	59	156	.726	.81	.469
December.....	150	55	82.9	.386	.44	.249
January.....	351	44	91.3	.425	.49	.275
February.....	153	60	104	.484	.50	.313
March.....	247	59	119	.553	.64	.357
April.....	245	78	143	.665	.74	.430
May.....	1,200	29	136	.633	.73	.409
June.....	132	26	67.3	.313	.35	.202
July.....	651	13	103	.479	.55	.310
August.....	700	8	147	.684	.79	.442
September.....	25	4	7.9	.037	.04	.024
The year.....	3,800	4	140	.651	8.86	.421

Monthly discharge of North Fork Shenandoah River at Cootee Store, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	25	7	14.4	0.067	0.08	0.043
November.....	16	8	12.1	.056	.06	.036
December.....	1,710	17	141	.656	.76	.424
January.....	3,930	30	334	1.55	1.79	1.00
February.....	3,780	137	728	3.39	3.53	2.19
March.....	1,130	68	275	1.28	1.48	.827
April.....	1,250	36	214	.995	1.11	.643
May.....	500	60	126	.586	.68	.379
June.....	80	14	35.6	.166	.19	.107
July.....	3,770	12	465	2.16	2.49	1.40
August.....	392	20	92.6	.431	.50	.279
September.....	18	3	6.9	.032	.04	.021
The year.....	3,930	3	201	.935	12.71	.604
1939-40						
October.....	81	7	23.8	.111	.13	.072
November.....	69	11	28.3	.132	.15	.085
December.....	74	16	31.5	.147	.17	.095
January.....	449	10	60.8	.283	.33	.183
February.....	464	13	175	.814	.88	.526
March.....	717	64	177	.823	.95	.532
April.....	3,490	142	575	2.67	2.98	1.73
May.....	4,430	49	307	1.43	1.65	.924
June.....	1,220	39	316	1.47	1.64	.950
July.....	69	9	22.8	.106	.12	.068
August.....	1,000	9	167	.777	.90	.502
September.....	900	12	90.7	.422	.47	.273
The year.....	4,430	7	164	.763	10.37	.493
1940-41						
October.....	24	9.0	12.2	.057	.07	.037
November.....	426	11	81.5	.379	.42	.245
December.....	874	38	184	.856	.99	.553
January.....	328	69	157	.730	.84	.472
February.....	132	32	65.3	.304	.32	.196
March.....	527	26	176	.819	.94	.529
April.....	3,500	62	331	1.54	1.72	.995
May.....	59	12	30.1	.140	.16	.090
June.....	104	12	31.9	.143	.17	.096
July.....	690	11	118	.549	.63	.355
August.....	29	3.0	12.0	.056	.06	.036
September.....	62	2.2	14.4	.067	.07	.043
The year.....	3,500	2.2	101	.470	6.39	.304
1941-42						
October.....	3.2	1.7	2.09	.0097	.01	.0063
November.....	4.9	3.0	3.57	.017	.02	.011
December.....	213	3.6	32.4	.151	.17	.098
January.....	63	18	33.1	.154	.18	.010
February.....	434	38	95.4	.444	.46	.287
March.....	2,200	34	319	1.48	1.71	.957
April.....	573	50	182	.847	.94	.547
May.....	12,500	32	964	4.48	5.16	2.90
June.....	246	28	92.1	.428	.48	.277
July.....	44	4.8	13.9	.065	.07	.042
August.....	1,560	6.8	236	1.10	1.27	.711
September.....	267	14	61.3	.285	.32	.184
The year.....	12,500	1.7	171	.795	10.79	.514
1942-43						
October.....	24,900	23	1,401	6.52	7.52	4.21
November.....	219	77	124	.577	.64	.373
December.....	4,500	73	404	1.86	2.17	1.22
January.....	920	68	184	.856	.99	.553
February.....	2,060	92	473	2.20	2.29	1.42
March.....	1,610	86	451	2.10	2.42	1.36
April.....	2,890	87	430	2.00	2.23	1.29
May.....	2,460	87	508	2.36	2.72	1.53
June.....	170	26	73.0	.340	.38	.220
July.....	329	18	69.6	.324	.37	.209
August.....	18	2.8	7.35	.034	.04	.022
September.....	9.2	3.0	4.12	.019	.02	.012
The year.....	24,900	2.8	345	1.60	21.79	1.03

Yearly discharge of North Fork Shenandoah River at Cootee Store, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1926.....	135	0.628	8.52	0.406	209	0.972	13.20	0.628
1927.....	225	1.05	14.23	.679	198	.921	12.53	.595
1928.....	209	.972	13.20	.628	161	.749	10.22	.484
1929.....	185	.860	11.69	.556	248	1.15	15.68	.745
1930.....	121	.563	7.67	.364	50.4	.234	3.19	.151
1931.....	90.3	.420	5.69	.271	90.8	.422	5.71	.273
1932.....	126	.586	7.98	.379	193	.898	12.24	.580
1933.....	271	1.26	17.11	.814	205	.953	12.90	.616
1934.....	58.1	.270	3.67	.175	79.8	.371	5.04	.240
1935.....	214	.995	13.50	.643	225	1.05	14.23	.679
1936.....	285	1.33	18.06	.860	290	1.30	17.70	.840
1937.....	221	1.03	13.94	.666	255	1.19	16.11	.769
1938.....	140	.651	8.86	.421	90.8	.422	5.73	.273
1939.....	201	.935	12.71	.604	194	.902	12.26	.583
1940.....	164	.763	10.37	.493	180	.837	11.40	.541
1941.....	101	.470	6.39	.304	81.1	.377	5.11	.244
1942.....	171	.795	10.79	.514	331	1.54	20.92	.995
1943.....	345	1.60	21.79	1.03	-	-	-	-
Highest.....	345	1.60	21.79	1.03	331	1.54	20.92	.995
Average.....	181	.842	11.45	.544	181	.842	11.42	.544
Lowest.....	58.1	.270	3.67	.175	50.4	.234	3.19	.151

North Fork Shenandoah River near Strasburg, Va.

Location.- Water-stage recorder, lat. 38°58', long. 78°20', at highway bridge 2 miles east of Strasburg, Shenandoah County, 2 miles upstream from Cedar Creek, and 10 miles upstream from confluence with South Fork. Datum of gage is 493.85 feet above mean sea level, datum of 1929. Prior to October 1930 chain gage at same site and datum.

Drainage area.-772 square miles.

Records available.- March 1925 to September 1943.

Extrema.- Maximum discharge 100,000 second-feet Oct. 16, 1942 (gage height, 31.2 feet, from floodmark), from rating curve extended above 46,000 second-feet by logarithmic plotting; minimum, 6 second-feet Feb. 9, 1934 (gage height, 1.52 feet); minimum daily, 41 second-feet Sept. 26, Oct. 1, 1932.

Remarks.- Low flow regulated by power plants and mills above station.

Monthly discharge of North Fork Shenandoah River near Strasburg, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1925						
March 8-31.....	3,440	375	644	1.09	0.97	0.704
April.....	2,760	265	512	.663	.74	.429
May.....	4,430	227	750	.972	1.12	.628
June.....	410	171	226	.293	.33	.189
July.....	1,640	103	381	.494	.57	.319
August.....	217	94	148	.192	.22	.124
September.....	163	74	100	.130	.14	.084
1925-26						
October.....	242	100	141	.183	.21	.118
November.....	438	94	186	.241	.27	.156
December.....	730	-	230	.298	.34	.193
January.....	1,920	-	363	.470	.54	.304
February.....	3,500	474	1,370	1.77	1.84	1.14
March.....	1,270	302	494	.640	.74	.414
April.....	1,030	382	585	.758	.85	.490
May.....	1,190	211	379	.491	.57	.317
June.....	242	124	179	.232	.26	.150
July.....	1,190	103	209	.271	.31	.175
August.....	5,870	152	774	1.00	1.15	.646
September.....	2,370	200	521	.675	.75	.436
The year.....	5,870	94	446	.578	7.83	.374

Monthly discharge of North Fork Shenandoah River near Strasburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1926-27						
October.....	600	216	352	0.456	0.53	0.295
November.....	7,780	226	1,140	1.48	1.65	.957
December.....	3,900	375	1,040	1.35	1.56	.873
January.....	1,190	-	512	.663	.76	.429
February.....	4,400	396	1,380	1.79	1.86	1.16
March.....	2,280	417	699	.905	1.04	.585
April.....	5,870	474	1,820	2.36	2.63	1.53
May.....	2,550	313	738	.956	1.10	.618
June.....	616	144	296	.383	.43	.248
July.....	256	102	162	.210	.24	.136
August.....	210	78	158	.205	.24	.132
September.....	195	49	140	.181	.20	.117
The year.....	7,780	49	697	.903	12.24	.584
1927-28						
October.....	2,960	130	664	.860	.99	.556
November.....	1,890	175	451	.584	.65	.377
December.....	3,140	281	730	.946	1.09	.611
January.....	770	-	363	.470	.54	.304
February.....	1,490	313	559	.724	.78	.468
March.....	1,970	294	578	.749	.86	.484
April.....	7,940	373	1,090	1.41	1.57	.911
May.....	11,000	386	1,280	1.66	1.91	1.07
June.....	1,490	274	649	.841	.94	.544
July.....	731	123	274	.355	.41	.229
August.....	1,410	112	395	.512	.59	.331
September.....	731	96	257	.333	.37	.215
The year.....	11,000	96	608	.788	10.70	.509
1928-29						
October.....	205	109	155	.201	.23	.130
November.....	185	109	139	.180	.20	.116
December.....	579	123	274	.355	.41	.229
January.....	770	127	306	.396	.46	.256
February.....	3,500	170	541	.701	.73	.453
March.....	6,100	373	1,570	2.03	2.34	1.31
April.....	12,100	332	1,380	1.79	2.00	1.16
May.....	3,320	359	835	1.08	1.24	.698
June.....	3,600	287	689	.892	1.00	.577
July.....	3,320	170	632	.819	.94	.529
August.....	200	102	152	.197	.23	.127
September.....	180	72	109	.141	.16	.091
The year.....	12,100	72	565	.732	9.94	.473
1929-30						
October.....	6,100	149	787	1.02	1.18	.659
November.....	6,730	300	1,020	1.32	1.47	.853
December.....	1,570	326	472	.611	.70	.395
January.....	1,010	268	458	.593	.68	.383
February.....	1,650	294	599	.776	.81	.502
March.....	2,420	294	641	.830	.96	.536
April.....	470	186	316	.409	.46	.264
May.....	232	89	159	.206	.24	.133
June.....	449	65	160	.207	.23	.134
July.....	186	56	90.1	.117	.13	.076
August.....	111	45	66.7	.086	.10	.056
September.....	192	41	72.8	.094	.10	.061
The year.....	6,730	41	402	.521	7.06	.337
1930-31						
October.....	76	41	58.9	.076	.09	.049
November.....	106	48	75.8	.088	.11	.063
December.....	259	50	90.1	.117	.13	.076
January.....	746	65	151	.196	.23	.127
February.....	166	60	94.0	.122	.13	.079
March.....	778	89	183	.237	.27	.153
April.....	1,290	203	620	.803	.90	.519
May.....	877	176	368	.477	.55	.308
June.....	1,200	110	307	.398	.44	.257
July.....	827	69	247	.320	.37	.207
August.....	1,880	70	416	.539	.62	.348
September.....	362	72	162	.210	.23	.136
The year.....	1,880	41	232	.301	4.07	.195

Monthly discharge of North Fork Shenandoah River near Strasburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
October.....	135	59	79.6	0.103	0.12	0.067
November.....	98	56	76.3	.099	.11	.064
December.....	110	56	82.0	.106	.12	.068
January.....	239	88	144	.187	.22	.121
February.....	4,550	111	497	.644	.69	.416
March.....	5,000	132	1,030	1.33	1.53	.860
April.....	1,620	260	542	.702	.78	.454
May.....	8,850	351	1,550	2.01	2.32	1.30
June.....	364	138	223	.289	.32	.187
July.....	514	66	152	.197	.23	.127
August.....	162	53	82.7	.107	.12	.069
September.....	102	50	73.6	.095	.11	.061
The year.....	8,850	50	378	.490	6.67	.317
1932-33						
October.....	3,140	62	500	.648	.75	.419
November.....	3,810	250	960	1.24	1.38	.801
December.....	2,430	230	500	.648	.75	.419
January.....	5,450	365	1,040	1.35	1.56	.873
February.....	1,310	474	756	.979	1.02	.633
March.....	3,340	359	823	1.07	1.23	.692
April.....	11,100	514	2,310	2.99	3.34	1.93
May.....	2,880	577	1,130	1.46	1.68	.944
June.....	990	204	372	.482	.54	.312
July.....	528	149	247	.320	.37	.207
August.....	3,640	131	488	.632	.73	.408
September.....	1,390	164	386	.500	.56	.323
The year.....	11,100	62	790	1.02	13.91	.659
1933-34						
October.....	251	57	155	.201	.23	.130
November.....	158	116	137	.177	.20	.114
December.....	181	101	133	.172	.20	.111
January.....	226	100	157	.203	.23	.131
February.....	163	78	121	.157	.16	.101
March.....	2,430	122	587	.760	.88	.491
April.....	877	230	410	.531	.59	.343
May.....	282	192	235	.304	.35	.196
June.....	460	106	174	.225	.25	.145
July.....	126	52	82.4	.107	.12	.069
August.....	419	68	155	.201	.23	.130
September.....	3,850	70	361	.468	.52	.302
The year.....	3,850	52	226	.293	3.96	.189
1934-35						
October.....	1,040	121	223	.289	.33	.187
November.....	1,110	110	173	.224	.25	.145
December.....	11,700	239	1,116	1.45	1.67	.937
January.....	5,680	216	917	1.19	1.37	.769
February.....	4,760	612	1,612	2.09	2.18	1.35
March.....	2,620	554	1,039	1.35	1.56	.873
April.....	4,710	572	1,875	2.43	2.71	1.57
May.....	2,850	354	697	.903	1.04	.584
June.....	1,020	229	490	.635	.71	.410
July.....	670	148	292	.378	.44	.244
August.....	960	146	241	.312	.36	.202
September.....	5,470	137	609	.789	.88	.510
The year.....	11,700	110	767	.994	13.50	.642
1935-36						
October.....	379	146	171	.222	.26	.143
November.....	2,760	176	552	.715	.80	.462
December.....	1,260	231	444	.575	.66	.372
January.....	4,320	250	1,286	1.67	1.92	1.08
February.....	7,850	500	1,968	2.55	2.75	1.65
March.....	56,500	969	5,017	6.50	7.49	4.20
April.....	1,800	502	1,168	1.51	1.68	.976
May.....	1,000	366	478	.619	.71	.400
June.....	500	146	301	.390	.44	.252
July.....	600	95	195	.253	.29	.164
August.....	189	92	120	.155	.18	.100
September.....	379	84	117	.152	.17	.098
The year.....	56,500	84	984	1.27	17.35	.821

Monthly discharge of North Fork Shenandoah River near Stresburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	3,610	92	342	0.443	0.51	0.286
November.....	169	119	143	.185	.21	.120
December.....	1,030	119	498	.645	.74	.417
January.....	6,240	640	1,743	2.26	2.61	1.46
February.....	6,740	697	1,551	2.01	2.09	1.30
March.....	986	378	556	.720	.83	.465
April.....	15,400	277	1,590	1.80	2.01	1.16
May.....	1,900	397	692	.896	1.03	.579
June.....	1,010	251	400	.518	.58	.335
July.....	922	160	271	.351	.40	.227
August.....	5,430	134	731	.947	1.09	.612
September.....	1,920	237	648	.839	.94	.542
The year.....	15,400	92	742	.961	13.04	.621
1937-38						
October.....	9,340	215	1,384	1.79	2.06	1.16
November.....	1,840	510	806	1.04	1.16	.672
December.....	732	327	442	.573	.66	.370
January.....	774	270	368	.477	.55	.308
February.....	492	295	370	.479	.50	.310
March.....	732	295	412	.534	.62	.345
April.....	739	322	480	.622	.69	.402
May.....	2,390	207	471	.610	.70	.394
June.....	372	153	245	.317	.35	.205
July.....	1,060	98	265	.343	.40	.222
August.....	1,590	126	537	.696	.80	.450
September.....	172	110	129	.167	.19	.108
The year.....	9,340	98	494	.640	8.68	.414
1938-39						
October.....	146	98	115	.149	.17	.096
November.....	168	110	128	.166	.19	.107
December.....	3,230	122	504	.653	.75	.422
January.....	7,240	201	615	.797	.92	.515
February.....	11,200	698	2,093	2.71	2.82	1.75
March.....	2,470	440	983	1.27	1.46	.821
April.....	2,550	287	693	.898	1.00	.580
May.....	1,240	277	487	.631	.73	.408
June.....	319	150	210	.272	.30	.176
July.....	6,310	126	959	1.24	1.43	.801
August.....	1,790	206	488	.632	.73	.408
September.....	192	110	144	.187	.21	.121
The year.....	11,200	98	610	.790	10.71	.511
1939-40						
October.....	291	130	173	.224	.26	.145
November.....	424	167	228	.295	.33	.191
December.....	350	144	195	.253	.29	.164
January.....	1,350	150	267	.346	.40	.224
February.....	1,760	180	642	.832	.90	.538
March.....	1,350	286	540	.699	.81	.452
April.....	4,300	424	1,474	1.91	2.13	1.25
May.....	1,500	306	565	.732	.84	.473
June.....	4,840	312	1,220	1.58	1.76	1.02
July.....	378	156	231	.299	.34	.193
August.....	2,630	156	570	.738	.85	.477
September.....	2,230	192	476	.617	.69	.399
The year.....	4,840	130	545	.706	9.60	.456
1940-41						
October.....	281	156	193	.250	.29	.162
November.....	1,950	174	500	.648	.72	.419
December.....	2,230	286	615	.797	.92	.515
January.....	1,170	406	655	.848	.98	.548
February.....	597	266	384	.497	.52	.321
March.....	1,390	242	614	.795	.92	.514
April.....	5,640	344	886	1.15	1.28	.743
May.....	339	159	229	.297	.34	.192
June.....	355	142	211	.273	.30	.176
July.....	3,000	166	569	.737	.85	.476
August.....	639	98	176	.228	.26	.147
September.....	242	80	129	.167	.19	.108
The year.....	5,640	80	430	.557	7.57	.360

Monthly discharge of North Fork Shenendoeh River near Straesburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	116	88	98.4	0.127	0.15	0.082
November.....	126	94	110	.142	.16	.092
December.....	556	98	187	.242	.28	.156
January.....	206	80	147	.190	.22	.123
February.....	839	150	282	.365	.38	.236
March.....	2,790	161	639	.828	.95	.535
April.....	1,130	219	500	.648	.72	.419
May.....	15,300	143	1,560	2.02	2.35	1.31
June.....	517	197	355	.460	.51	.297
July.....	273	101	163	.211	.24	.136
August.....	6,300	116	1,072	1.39	1.60	.898
September.....	1,060	202	398	.503	.56	.325
The year.....	15,300	80	461	.597	8.10	.386
1942-43						
October.....	52,500	219	3,488	4.52	5.21	2.92
November.....	900	430	605	.784	.97	.507
December.....	7,020	320	943	1.22	1.41	.789
January.....	3,050	530	866	1.12	1.29	.724
February.....	4,140	530	1,380	1.79	1.86	1.16
March.....	3,500	440	1,400	1.81	2.09	1.17
April.....	4,940	500	1,114	1.44	1.61	.931
May.....	4,240	440	1,093	1.42	1.64	.918
June.....	752	213	420	.544	.61	.352
July.....	1,000	210	360	.466	.54	.301
August.....	216	131	160	.207	.24	.134
September.....	146	108	123	.159	.18	.103
The year.....	52,500	108	998	1.29	17.55	.834

Yearly discharge of North Fork Shenendoeh River near Straesburg, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1926.....	446	0.578	7.83	0.374	612	0.793	10.75	0.613
1927.....	697	.903	12.24	.584	640	.829	11.23	.536
1928.....	608	.788	10.70	.509	501	.649	8.81	.419
1929.....	565	.732	9.94	.473	709	.918	12.45	.593
1930.....	402	.521	7.06	.337	230	.298	4.04	.193
1931.....	232	.301	4.07	.195	233	.302	4.09	.195
1932.....	378	.490	6.67	.317	522	.676	9.20	.437
1933.....	790	1.02	13.91	.659	662	.858	11.66	.555
1934.....	226	.293	3.96	.189	318	.412	5.58	.266
1935.....	767	.994	13.50	.642	736	.953	12.97	.616
1936.....	984	1.27	17.35	.821	970	1.26	17.09	.814
1937.....	742	.961	13.04	.621	880	1.14	15.46	.737
1938.....	494	.640	8.68	.414	336	.435	5.91	.281
1939.....	610	.790	10.71	.511	596	.772	10.48	.499
1940.....	545	.706	9.60	.456	604	.782	10.65	.505
1941.....	430	.557	7.57	.360	354	.459	6.23	.297
1942.....	461	.597	8.10	.386	854	1.11	15.00	.717
1943.....	998	1.29	17.55	.834	-	-	-	-
Highest....	998	1.29	17.55	.834	970	1.26	17.09	.814
Average....	576	.746	10.14	.482	574	.744	10.09	.481
Lowest....	226	.293	3.96	.189	230	.298	4.04	.193

North Fork Shenandoah River near Riverton, Va.

Location.- Staff gage, lat. 38°57'45", long. 78°13'15", 2 miles upstream from Riverton, Warren County and confluence with South Fork.

Drainage area.- 1,040 square miles.

Records available.- June 1899 to February 1902; August 1902 to July 1906.

Extremes.- Maximum gage height observed, 17.5 feet Apr. 21, 1901 (discharge not determined); maximum daily discharge, 21,600 second-feet Apr. 21, 1901 (gage height, 16.5 feet), from rating curve extended above 2,900 second-feet; minimum, 90 second-feet at times during August 1900.

Monthly discharge of North Fork Shenandoah River near Riverton, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1899						
June 26-30.....	307	255	293	0.282	0.05	0.182
July.....	481	130	228	.220	.25	.142
August.....	390	151	220	.212	.24	.137
September.....	355	140	227	.219	.24	.142
1899-1900						
October.....	225	140	185	.178	.20	.115
November.....	545	168	238	.230	.28	.149
December.....	390	140	255	.246	.28	.159
January.....	4,330	255	702	.677	.78	.438
February.....	3,860	355	1,128	1.09	1.14	.704
March.....	5,700	585	1,620	1.56	1.80	1.01
April.....	1,760	465	765	.738	.82	.477
May.....	585	225	324	.312	.36	.202
June.....	2,200	195	504	.486	.54	.314
July.....	1,620	140	294	.284	.33	.184
August.....	1,207	90	128	.123	.14	.080
September.....	355	130	155	.149	.17	.096
The year.....	5,700	90	521	.502	6.82	.324
1900-1						
October.....	320	168	219	.211	.24	.136
November.....	3,890	140	441	.425	.47	.275
December.....	2,650	140	548	.528	.61	.341
January.....	2,200	195	627	.605	.70	.391
February.....	390	207	299	.288	.30	.186
March.....	11,000	195	1,391	1.34	1.54	.866
April.....	21,600	693	4,034	3.89	4.34	2.51
May.....	17,800	728	2,653	2.56	2.95	1.65
June.....	12,700	990	2,842	2.74	3.06	1.77
July.....	4,030	505	1,499	1.44	1.66	.931
August.....	2,260	428	862	.831	.96	.537
September.....	2,390	168	684	.660	.74	.427
The year.....	21,600	140	1,343	1.30	17.57	.840
1901-2						
October.....	1,320	195	396	.382	.44	.247
November.....	1,580	140	363	.350	.39	.226
December.....	14,600	268	3,091	2.98	3.44	1.93
January.....	3,960	545	1,304	1.26	1.45	.814
February 1-25.....	6,660	1,090	1,969	1.90	1.77	1.23
August 16-31.....	275	220	243	.234	.14	.151
September.....	318	165	211	.204	.23	.132
1902-3						
October.....	440	220	259	.250	.29	.162
November.....	800	190	317	.306	.34	.198
December.....	3,890	495	1,228	1.18	1.36	.763
January 1-28.....	8,390	495	2,225	2.15	2.24	1.39
February 9-28.....	3,200	735	1,127	1.09	.81	.704
March.....	6,860	670	1,750	1.69	1.95	1.09
April.....	6,600	735	1,848	1.78	1.99	1.15
May.....	1,340	390	549	.529	.61	.342
June.....	10,400	580	2,208	2.13	2.38	1.38
July.....	1,840	340	736	.710	.82	.459
August.....	800	255	371	.358	.41	.231
September.....	1,660	295	464	.447	.50	.289

Monthly discharge of North Fork Shenandoah River near Riverton, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1903-4						
October.....	640	275	373	0.360	0.42	0.233
November.....	295	255	265	.256	.29	.165
December.....	522	255	284	.274	.32	.177
January 1-23.....	255	255	255	.246	.21	.159
March 5-31.....	1,610	400	620	.598	.60	.386
April.....	2,460	318	661	.637	.71	.412
May.....	1,840	440	718	.692	.80	.447
June.....	2,090	318	606	.584	.65	.377
July.....	2,210	295	554	.534	.62	.345
August.....	550	125	255	.246	.28	.159
September.....	172	96	124	.120	.13	.078
1904-5						
October.....	125	90	110	.106	.12	.068
November.....	125	100	112	.108	.12	.070
December.....	350	105	225	.217	.25	.140
January 1-7, 21-31.....	1,160	155	759	.732	.44	.473
February.....	855	855	855	.824	.86	.533
March.....	2,900	785	1,335	1.29	1.49	.834
April.....	1,080	375	596	.575	.64	.372
May.....	1,360	230	406	.392	.45	.253
June.....	7,450	155	1,042	1.00	1.12	.646
July.....	2,270	400	908	.876	1.01	.566
August.....	1,320	198	417	.402	.46	.260
September.....	252	140	192	.185	.21	.120
1905-6						
October.....	275	112	170	.164	.19	.106
November.....	230	125	172	.166	.18	.107
December.....	5,580	140	889	.857	.99	.554
January.....	4,160	565	1,036	.996	1.15	.644
February.....	720	285	418	.402	.42	.260
March.....	5,350	275	1,421	1.37	1.58	.885
April.....	3,210	655	1,324	1.27	1.42	.821
May.....	962	285	545	.524	.60	.339
June.....	2,440	285	787	.757	.84	.489
July 1-14.....	1,340	325	523	.503	.26	.325

Cedar Craak near Winchester, Va.

Location.- Water-stage recorder, lat. 39°04'50", long. 78°19'45", a quarter of a mile upstream from Fawcetts Run, 0.3 mile upstream from concrete highway bridge at Marlboro and 10 miles southwest of Winchester, Frederick County. Datum of gage is 647.09 feet above mean sea level, datum of 1929.

Drainage area.- 101 square miles.

Records available.- June 1937 to September 1943.

Extremes.- Maximum discharge, 22,000 second-feet Oct. 15, 1942 (gage height, 27.0 feet, from floodmarks), from rating curve extended above 15,000 second-feet by logarithmic plotting; minimum, not determined; minimum daily, 5.0 second-feet Aug. 24-31, Sept. 6, 1938, July 19-23, 1942.

Flood of Mar. 17, 1936 reached a stage of about 25 feet, from information by local residents (discharge, about 18,000 second-feet).

Monthly discharge of Cedar Creek near Winchester, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937						
June 18-30.....	34	21	25.9	0.256	0.12	0.165
July.....	220	15	35.6	.352	.41	.228
August.....	1,410	13	127	1.26	1.45	.814
September.....	64	11	26.9	.266	.30	.172

Monthly discharge of Ceder Creek near Winchester, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	2,580	13	279	2.76	3.18	1.78
November.....	349	52	109	1.08	1.20	.698
December.....	59	31	42.5	.421	.49	.272
January.....	102	25	46.0	.455	.52	.294
February.....	61	37	46.8	.463	.48	.299
March.....	387	39	96.8	.958	1.10	.619
April.....	126	44	77.8	.770	.86	.498
May.....	911	30	108	1.07	1.23	.692
June.....	144	17	48.1	.476	.53	.308
July.....	35	6	11.7	.116	.13	.075
August.....	43	5	11.3	.112	.13	.072
September.....	23	5	8.77	.087	.10	.056
The year.....	2,580	5	74.2	.735	9.95	.475
1938-39						
October.....	19	7	9.45	.094	.11	.061
November.....	23	10	14.0	.139	.16	.090
December.....	959	18	72.2	.715	.82	.462
January.....	1,240	23	102	1.01	1.16	.653
February.....	1,460	78	260	2.57	2.68	1.66
March.....	581	50	123	1.22	1.41	.789
April.....	690	40	151	1.50	1.67	.969
May.....	172	32	75.3	.746	.86	.482
June.....	59	8	20.8	.206	.23	.133
July.....	253	6	33.4	.331	.38	.214
August.....	96	8	24.5	.243	.28	.157
September.....	23	6	8.07	.080	.09	.052
The year.....	1,460	6	73.2	.725	9.85	.469
1939-40						
October.....	194	10	24.3	.241	.28	.156
November.....	157	15	45.2	.448	.50	.290
December.....	156	18	37.3	.369	.43	.238
January.....	482	18	65.3	.647	.75	.418
February.....	611	35	167	1.65	1.78	1.07
March.....	418	50	116	1.15	1.33	.743
April.....	1,340	77	332	3.29	3.67	2.13
May.....	598	37	109	1.08	1.24	.698
June.....	1,340	29	175	1.73	1.93	1.12
July.....	108	10	25.1	.249	.29	.161
August.....	190	8	34.0	.337	.39	.218
September.....	189	11	34.9	.346	.39	.224
The year.....	1,340	8	96.2	.952	12.98	.615
1940-41						
October.....	56	16	22.1	.219	.25	.142
November.....	731	20	106	1.05	1.17	.679
December.....	370	42	98.8	.978	1.13	.632
January.....	148	50	90.0	.891	1.03	.576
February.....	98	28	51.1	.506	.53	.327
March.....	357	26	114	1.13	1.30	.730
April.....	1,150	46	147	1.46	1.63	.944
May.....	43	14	26.8	.265	.31	.171
June.....	104	12	25.7	.254	.28	.164
July.....	515	14	110	1.09	1.26	.704
August.....	92	15	28.7	.284	.33	.184
September.....	17	6.4	9.27	.092	.10	.060
The year.....	1,150	6.4	69.3	.686	9.32	.443
1941-42						
October.....	12	6	9.0	.089	.10	.058
November.....	27	9	12.2	.121	.14	.078
December.....	232	11	34.2	.339	.39	.219
January.....	66	14	28.1	.278	.32	.180
February.....	229	26	52.5	.520	.54	.336
March.....	517	24	145	1.44	1.66	.931
April.....	317	39	120	1.19	1.33	.769
May.....	1,830	22	161	1.59	1.83	1.03
June.....	82	17	36.7	.363	.40	.235
July.....	40	5	11.3	.112	.13	.072
August.....	334	9	56.7	.561	.65	.363
September.....	40	8	15.6	.154	.17	.100
The year.....	1,830	5	57.0	.564	7.66	.365

Monthly discharge of Cedar Creek near Winchester, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	13,900	10	777	7.69	8.87	4.97
November.....	171	44	82.0	.812	.91	.525
December.....	1,720	32	180	1.78	2.05	1.15
January.....	431	68	149	1.48	1.71	.957
February.....	764	66	239	2.37	2.47	1.53
March.....	526	47	206	2.04	2.35	1.32
April.....	764	54	174	1.72	1.92	1.11
May.....	414	59	111	1.10	1.27	.711
June.....	123	14	36.7	.363	.40	.235
July.....	29	9.4	15.5	.153	.18	.099
August.....	64	6.7	12.0	.119	.14	.077
September.....	12	6.7	7.97	.079	.09	.051
The year.....	13,900	6.7	166	1.64	22.36	1.06

Yearly discharge of Cedar Creek near Winchester, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1938.....	74.2	0.735	9.95	0.475	46.0	0.455	6.17	0.294
1939.....	73.2	.725	9.85	.469	74.1	.734	9.97	.474
1940.....	96.2	.952	12.98	.615	106	1.05	14.32	.679
1941.....	69.3	.686	9.32	.443	54.9	.544	7.40	.352
1942.....	57.0	.564	7.66	.365	140	1.39	18.86	.898
1943.....	166	1.64	22.36	1.06	-	-	-	-

Passaga Creek at Buckton, Va.

Location.-- Water-stage recorder, lat. 38°57', long. 78°16', 350 feet upstream from bridge on Riverton-Strasburg highway, 1 mile south of Buckton, Warren County, and 1 1/4 miles upstream from mouth. Datum of gage is 525.14 feet above mean sea level, datum of 1929. Prior to Oct. 8, 1937, chain gage at highway bridge at different datum.

Drainage area.-- 87 square miles.

Records available.-- April 1932 to September 1943; October 1905 to July 1906 (gage heights only) at site 1 mile downstream.

Extremes.-- 1932-43: Maximum discharge, 21,000 second-feet Oct. 15, 1942 (gage height, 15.5 feet), from rating curve extended above 5,500 second-feet by logarithmic plotting; minimum observed, 0.1 second-foot Aug. 5, 1932 (gage height, 1.38 feet, site and datum then in use).

Remarks.-- Low flow regulated by fish hatchery above station.

Monthly discharge of Passaga Creek at Buckton, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932						
April 4-30.....	272	32	87.1	1.00	1.00	0.646
May.....	2,250	15	278	3.20	3.69	2.07
June.....	74	4.5	17.1	.197	.22	.127
July.....	128	1.2	15.9	.183	.21	.118
August.....	20	.2	2.06	.024	.03	.016
September.....	23	1.5	2.71	.031	.03	.020

Monthly discharge of Passage Creek at Buckton, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932-33						
October.....	135	2.0	19.0	0.218	0.25	0.141
November.....	821	5.1	75.9	.849	.95	.549
December.....	258	8.0	38.2	.439	.51	.284
January.....	2,350	25	196	2.25	2.59	1.45
February.....	166	46	88.4	1.02	1.06	.659
March.....	643	34	108	1.24	1.43	.801
April.....	1,750	62	322	3.70	4.13	2.39
May.....	643	43	156	1.79	2.06	1.16
June.....	44	3.2	14.8	.170	.19	.110
July.....	43	3.8	9.87	.113	.13	.073
August.....	471	3.4	28.2	.324	.37	.209
September.....	245	3.4	34.7	.399	.45	.258
The year.....	2,350	2.0	90.5	1.04	14.12	.672
1933-34						
October.....	16	4.2	7.15	.082	.09	.053
November.....	11	5.1	7.69	.088	.10	.057
December.....	21	6.0	8.07	.093	.11	.060
January.....	26	3.8	12.6	.145	.17	.094
February.....	7.9	3.0	5.79	.067	.07	.043
March.....	186	5.0	73.3	.843	.97	.545
April.....	128	20	53.9	.620	.69	.401
May.....	175	16	39.8	.457	.53	.295
June.....	144	.7	8.31	.086	.11	.062
July.....	20	.4	1.87	.021	.02	.014
August.....	11	.7	2.83	.033	.04	.021
Septambar.....	301	.8	17.3	.199	.22	.129
The year.....	301	.4	20.0	.230	3.12	.149
1934-35						
October.....	58	4.6	10.8	.124	.14	.080
November.....	144	5.2	13.4	.154	.17	.100
December.....	3,200	33	227	2.61	3.01	1.69
January.....	854	27	152	1.75	2.02	1.13
February.....	758	100	246	2.83	2.95	1.83
March.....	588	74	153	1.76	2.03	1.14
April.....	699	69	259	2.98	3.32	1.93
May.....	1,560	28	139	1.60	1.84	1.03
June.....	66	3.7	17.2	.198	.22	.128
July.....	42	1.9	5.82	.067	.08	.043
August.....	22	1.4	5.95	.068	.08	.044
Saptambar.....	670	2.5	72.5	.833	.93	.538
The year.....	3,200	1.4	108	1.24	16.79	.801
1935-36						
October.....	51	2.5	6.76	.078	.09	.050
Novambar.....	117	4.8	31.2	.359	.40	.232
December.....	255	11	47.9	.551	.64	.356
January.....	562	22	197	2.15	2.48	1.39
February.....	1,560	63	357	4.10	4.42	2.65
March.....	3,540	100	552	6.34	7.31	4.10
April.....	348	84	190	2.18	2.43	1.41
May.....	370	12	78.7	.905	1.04	.585
June.....	26	4.4	11.2	.129	.14	.083
July.....	17	2.0	5.83	.067	.08	.043
August.....	13	1.5	2.65	.030	.03	.019
September.....	3.2	1.6	2.37	.027	.03	.018
The year.....	3,540	1.5	122	1.40	19.09	.905
1936-37						
October.....	113	1.7	13.1	.151	.17	.098
Novambar.....	37	2.4	5.41	.062	.07	.040
Decambar.....	121	1.6	33.6	.386	.44	.249
January.....	625	31	151	1.74	2.01	1.12
February.....	635	52	153	1.76	1.83	1.14
March.....	77	24	40.1	.461	.53	.298
April.....	3,540	9.8	240	2.76	3.08	1.78
May.....	284	43	105	1.21	1.40	.782
June.....	64	7.0	21.8	.251	.28	.162
July.....	41	3.5	12.5	.144	.17	.093
August.....	632	1.9	58.0	.667	.77	.431
September.....	1,040	3.0	66.1	.760	.85	.491
The year.....	3,540	1.6	74.3	.854	11.60	.552

Monthly discharge of Paesage Creek at Buckton, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1937-38						
October.....	1,400	4.8	186	2.14	2.47	1.38
November.....	292	45	100	1.15	1.28	.743
December.....	101	25	42.1	.484	.56	.513
January.....	85	16	35.1	.403	.46	.260
February.....	93	27	44.2	.508	.53	.328
March.....	388	39	81.4	.936	1.08	.605
April.....	132	45	74.8	.860	.96	.556
May.....	110	17	41.8	.480	.55	.510
June.....	45	11	20.3	.233	.26	.151
July.....	50	3.3	13.5	.155	.18	.100
August.....	142	3.3	26.7	.307	.35	.198
September.....	10	3.1	5.45	.063	.07	.041
The year.....	1,400	3.1	56.2	.646	8.75	.418
1938-39						
October.....	17	3.9	5.94	.068	.08	.044
November.....	36	5.9	11.0	.126	.14	.081
December.....	1,250	15	89.4	1.03	1.19	.666
January.....	1,030	15	87.1	1.00	1.15	.646
February.....	1,310	74	265	3.05	3.18	1.97
March.....	271	40	97.9	1.13	1.30	.730
April.....	577	32	119	1.37	1.53	.885
May.....	216	14	48.2	.554	.64	.358
June.....	170	4.6	15.4	.177	.20	.114
July.....	543	4.3	58.0	.667	.77	.431
August.....	97	6.3	22.7	.261	.30	.169
September.....	11	3.1	4.45	.051	.06	.033
The year.....	1,310	3.1	67.4	.775	10.54	.501
1939-40						
October.....	71	4.9	12.9	.148	.17	.096
November.....	137	12	35.1	.403	.45	.260
December.....	154	11	26.2	.301	.35	.195
January.....	354	10	41.1	.472	.54	.305
February.....	430	25	106	1.22	1.32	.789
March.....	218	38	80.6	.926	1.07	.598
April.....	696	42	202	2.32	2.58	1.50
May.....	272	32	80.5	.925	1.07	.598
June.....	890	14	125	1.44	1.61	.931
July.....	42	5.5	12.7	.146	.17	.094
August.....	186	4.0	30.9	.355	.41	.229
September.....	69	5.2	16.9	.194	.22	.125
The year.....	890	4.0	63.6	.731	9.96	.472
1940-41						
October.....	74	9.8	18.7	.215	.25	.139
November.....	850	13	105	1.21	1.35	.782
December.....	234	32	70.8	.814	.94	.526
January.....	126	48	85.4	.982	1.13	.635
February.....	87	23	48.3	.555	.58	.359
March.....	256	20	83.0	.954	1.10	.617
April.....	642	31	114	1.31	1.46	.847
May.....	30	6.3	15.1	.171	.20	.112
June.....	84	7.3	20.3	.233	.26	.151
July.....	478	8.0	87.3	1.00	1.15	.646
August.....	48	4.3	13.3	.153	.18	.099
September.....	43	3.0	7.69	.088	.10	.057
The year.....	850	3.0	55.7	.640	8.70	.414
1941-42						
October.....	5.4	2.1	3.81	.044	.05	.028
November.....	9.2	5.0	6.20	.071	.08	.046
December.....	68	5.4	21.0	.241	.28	.156
January.....	44	10	16.8	.193	.22	.125
February.....	104	14	30.2	.347	.36	.224
March.....	428	13	98.5	1.13	1.30	.730
April.....	212	24	76.5	.879	.98	.568
May.....	1,440	10	124	1.43	1.65	.924
June.....	54	6.4	16.6	.191	.21	.123
July.....	182	2.1	14.5	.167	.19	.108
August.....	431	8.7	95.6	1.10	1.27	.711
September.....	270	7.3	51.6	.363	.40	.235
The year.....	1,440	2.1	44.8	.515	6.99	.333

Monthly discharges of Passage Creek at Buckton, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942-43						
October.....	9,290	14	581	6.68	7.70	4.32
November.....	112	36	64.2	.738	.82	.477
December.....	1,440	25	126	1.45	1.67	.937
January.....	400	58	127	1.46	1.68	.944
February.....	700	54	200	2.30	2.40	1.49
March.....	820	29	206	2.37	2.73	1.63
April.....	762	34	131	1.51	1.68	.976
May.....	456	45	116	1.33	1.63	.860
June.....	47	4.7	16.8	1.93	.22	1.26
July.....	28	3.6	7.68	.088	.10	.057
August.....	4.0	1.9	2.81	.032	.04	.021
September.....	17	2.5	4.00	.046	.06	.030
The year.....	9,290	1.9	132	1.52	20.62	.982

Yearly discharge of Passage Creek at Buckton, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1933.....	90.5	1.04	14.12	0.672	81.6	0.937	12.71	0.606
1934.....	20.0	.230	3.12	.149	39.3	.452	6.14	.292
1935.....	108	1.24	16.79	.801	93.5	1.07	14.60	.692
1936.....	122	1.40	19.09	.905	119	1.37	18.64	.885
1937.....	74.3	.854	11.60	.552	97.6	1.12	15.23	.724
1938.....	56.2	.646	8.75	.418	37.5	.431	5.85	.279
1939.....	67.4	.775	10.54	.501	64.6	.743	10.10	.480
1940.....	63.6	.731	9.96	.472	73.6	.846	11.53	.647
1941.....	55.7	.640	8.70	.414	42.1	.484	6.57	.313
1942.....	44.8	.515	6.99	.333	108	1.24	16.77	.801
1943.....	132	1.52	20.62	.982	-	-	-	-
Highest....	132	1.52	20.62	.982	119	1.37	18.64	.885
Average....	75.9	.872	11.84	.564	75.7	.870	11.81	.562
Lowest....	20.0	.230	3.12	.149	37.6	.431	5.85	.279

Catoctin Creek near Jefferson, Md.

Location.- Chain and staff gages, lat. 39°21'25", long. 77°34'25", at highway bridge 0.8 mile downstream from Broad Run and 2 miles west of Jefferson, Frederick County.
 Drainage area.- 111 square miles.
 Records available.- June 1928 to September 1931.
 Extremes.- Maximum stage, 11.30 feet June 19, 1928 (discharge not determined); minimum discharge, 0.7 second-foot Aug. 10-14, Sept. 29, 30, 1930.

Monthly discharge of Catoctin Creek near Jefferson, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928						
June 7-30.....	2,820	51	445	4.01	3.58	2.69
July.....	950	62	185	1.76	2.03	1.14
August.....	365	30	101	.910	1.05	.588
September.....	350	29	89.3	.805	.90	.520

Monthly discharge of Catoctin Creek near Jefferson, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Diecharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928-29						
October.....	90	11	28.2	0.254	0.29	0.164
November.....	81	10	25.9	.233	.26	.151
December.....	269	14	55.8	.503	.58	.325
January.....	500	-	114	1.03	1.19	.666
February.....	570	-	95.9	.864	.90	.558
March.....	605	154	249	2.24	2.58	1.45
April.....	440	135	204	1.84	2.05	1.19
May.....	1,080	76	212	1.91	2.20	1.23
June.....	129	30	65.4	.689	.66	.381
July.....	139	19	42.9	.386	.44	.249
August.....	57	5	17.1	.154	.18	.100
September.....	54	2	15.8	.142	.16	.092
The year.....	1,080	2	94.0	.847	11.49	.547
1929-30						
October.....	945	12	107	.964	1.11	.623
November.....	673	60	135	1.22	1.36	.789
December.....	178	-	77.3	.696	.80	.450
January.....	131	-	83.0	.748	.86	.483
February.....	368	60	166	1.50	1.56	.969
March.....	945	78	198	1.78	2.05	1.15
April.....	360	58	99.5	.896	1.00	.579
May.....	78	24	39.2	.353	.41	.228
June.....	194	17	37.6	.339	.38	.219
July.....	19	1.9	8.59	.077	.09	.050
August.....	11	.7	3.24	.029	.03	.019
September.....	45	.7	5.12	.046	.05	.030
The year.....	945	.7	79.4	.715	9.70	.462
1930-31						
October.....	6.2	.8	2.50	.023	.03	.016
November.....	9.9	3.0	6.23	.056	.06	.036
December.....	470	-	26.6	.240	.28	.155
January.....	180	21	37.2	.335	.39	.217
February.....	52	19	26.1	.235	.24	.152
March.....	400	24	52.4	.472	.54	.305
April.....	360	40	109	.982	1.10	.635
May.....	168	34	53.9	.486	.56	.314
June.....	790	20	71.6	.645	.72	.417
July.....	690	15	107	.964	1.11	.623
August.....	790	8.9	46.8	.422	.49	.273
September.....	111	4.3	15.1	.136	.15	.088
The year.....	790	.8	46.3	.417	5.67	.270

Yearly discharge of Catoctin Creek near Jefferson, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1929.....	94.0	0.847	11.49	0.547	111	1.00	13.63	0.646
1930.....	79.4	.715	9.70	.462	55.7	.502	6.80	.324
1931.....	46.3	.417	5.67	.270				

Monocacy River at Bridgeport, Md.

Location.- Staff gage, lat. 39°40'33", long. 77°14'10", 0.3 mile downstream from bridge on State Highway 32 at Bridgeport, Carroll County, 0.7 mile upstream from Cattail Branch, and 3.4 miles northwest of Taneytown. Datum of gage is 339.851 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 174 square miles.

Records available.- May 1942 to September 1943.

Extremes.- Maximum discharge, 15,000 second-feet May 21, 1943 (gage height, 20.53 feet); minimum observed, 0.3 second-foot Sept. 30, 1943.

Monthly discharge of Monocacy River at Bridgeport, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1942						
May 6-31.....	5,900	28	444	2.55	2.47	1.65
June.....	1,300	36	207	1.19	1.33	.769
July.....	2,380	22	349	2.01	2.32	1.30
August.....	4,620	65	613	3.52	4.06	2.28
September.....	523	16	53.5	.307	.34	.198
1942-43						
October.....	5,160	16	520	2.99	3.44	1.93
November.....	720	62	188	1.08	1.21	.698
December.....	5,230	47	575	3.30	3.81	2.13
January.....	510	83	179	1.03	1.19	.666
February.....	2,340	117	447	2.57	2.68	1.66
March.....	2,030	94	401	2.30	2.66	1.49
April.....	2,400	57	272	1.56	1.75	1.01
May.....	7,640	57	554	3.18	3.67	2.06
June.....	156	16	56.0	.322	.36	.208
July.....	162	6.0	22.4	.129	.15	.083
August.....	27	2.7	6.56	.038	.04	.025
September.....	6.3	.3	2.34	.013	.01	.0064
The year.....	7,640	.3	269	1.55	20.97	1.00

Monocacy River near Frederick, Md.

Location.- Wire end chain gages, lat. 39°27'09", long. 77°22'15", on Cereville Bridge, 300 feet downstream from Tuscorora Creek and 3 miles northeast of Frederick, Frederick County.

Drainage area.- 665 square miles.

Records available.- August 1896 to September 1930.

Extremes.- Maximum discharge, about 20,000 second-feet Nov. 16, 1926 (gage height, about 28 feet); minimum, 15 second-feet several days in October 1910 (gage height, 3.54 feet); questionable, gage read to tenths; see minimum for station at Jug Bridge near Frederick.

Monthly discharge of Monocacy River near Frederick, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1896-97						
October.....	396	103	144	0.217	0.25	0.140
November.....	2,200	124	306	.460	.51	.297
December.....	396	124	187	.281	.32	.182
January.....	730	147	307	.462	.53	.299
February.....	9,750	256	2,062	3.10	3.23	2.00
March.....	4,400	575	1,384	2.10	2.40	1.36
April.....	3,900	322	907	1.36	1.52	.879
May.....	10,400	322	1,650	2.48	2.86	1.60
June.....	2,200	198	492	.740	.83	.478
July.....	4,500	198	710	1.07	1.23	.692
August.....	11,000	172	968	1.46	1.68	.944
September.....	812	114	191	.287	.32	.185
The year.....	11,000	103	769	1.16	15.68	.750
1897-98						
October.....	241	94	137	.206	.24	.133
November.....	9,590	185	1,008	1.52	1.70	.982
December.....	9,330	550	1,980	2.98	3.44	1.93
January.....	7,020	416	2,099	3.16	3.64	2.04
February.....	9,540	480	1,479	2.22	2.31	1.43
March.....	5,350	437	1,319	1.98	2.28	1.28
April.....	1,840	396	692	1.04	1.16	.672
May.....	8,070	322	1,575	2.37	2.73	1.53
June.....	730	256	408	.614	.68	.397
July.....	675	124	223	.335	.39	.217
August.....	7,020	147	926	1.39	1.60	.898
September.....	198	103	128	.192	.21	.124
The year.....	9,590	94	999	1.50	20.38	.969

Monthly discharge of Monocacy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1898-99						
October.....	6,150	103	693	1.04	1.20	0.672
November.....	6,970	256	1,132	1.70	1.90	1.10
December.....	12,800	480	1,943	2.92	3.37	1.89
January.....	9,590	480	1,971	2.96	3.41	1.91
February.....	12,700	575	2,939	4.42	4.60	2.86
March.....	12,100	1,370	3,428	5.16	5.95	3.33
April.....	7,230	396	1,179	1.77	1.98	1.14
May.....	2,380	322	680	1.02	1.18	.659
June.....	5,700	198	759	1.14	1.27	.737
July.....	288	124	196	.295	.34	.191
August.....	525	103	208	.313	.36	.202
September.....	1,020	85	309	.465	.52	.301
The year.....	12,800	85	1,278	1.92	26.08	1.24
1899-1900						
October.....	480	103	133	.200	.23	.129
November.....	2,020	172	401	.603	.67	.390
December.....	1,840	124	449	.675	.78	.436
January.....	4,800	288	1,030	1.55	1.79	1.00
February.....	15,800	525	2,641	3.97	4.13	2.57
March.....	8,180	675	2,188	3.29	3.79	2.13
April.....	1,300	358	576	.866	.97	.560
May.....	1,760	226	438	.659	.76	.426
June.....	1,020	147	294	.442	.49	.286
July.....	702	69	154	.232	.27	.150
August.....	702	49	150	.226	.26	.146
September.....	147	55	82.1	.123	.14	.080
The year.....	15,800	49	699	1.05	14.28	.679
1900-1						
October.....	172	85	102	.153	.18	.099
November.....	3,800	85	454	.683	.76	.441
December.....	6,700	124	520	.782	.90	.505
January.....	2,280	147	436	.659	.76	.426
February.....	525	226	329	.495	.52	.320
March.....	15,500	256	2,167	3.26	3.76	2.11
April.....	12,900	675	2,742	4.12	4.60	2.66
May.....	6,100	396	1,521	2.29	2.64	1.48
June.....	2,650	288	839	1.26	1.41	.814
July.....	730	172	316	.475	.55	.307
August.....	1,840	147	445	.669	.77	.432
September.....	1,520	172	294	.442	.49	.286
The year.....	15,500	85	849	1.28	17.34	.827
1901-2						
October.....	575	172	268	.403	.46	.260
November.....	4,000	198	480	.722	.81	.467
December.....	14,700	358	2,313	3.48	4.01	2.25
January.....	13,000	437	1,924	2.89	3.33	1.87
February.....	19,200	960	3,902	5.87	6.11	3.79
March.....	20,500	785	4,677	7.03	8.10	4.54
April.....	12,800	480	2,261	3.40	3.79	2.20
May.....	575	226	339	.510	.59	.330
June.....	1,840	147	323	.486	.54	.314
July.....	1,680	124	335	.504	.58	.326
August.....	575	69	143	.215	.25	.139
September.....	3,700	55	232	.349	.39	.226
The year.....	20,500	55	1,419	2.13	28.96	1.38
1902-3						
October.....	8,380	172	1,157	1.74	2.01	1.12
November.....	4,000	198	552	.830	.93	.536
December.....	12,000	730	3,981	5.99	6.91	3.87
January.....	10,600	730	3,319	4.99	5.75	3.23
February.....	16,300	1,160	3,124	4.69	4.88	3.03
March.....	16,500	900	3,400	5.11	5.89	3.30
April.....	16,700	840	3,532	5.31	5.92	3.43
May.....	9,540	358	898	1.35	1.56	.873
June.....	16,300	437	1,806	2.72	3.04	1.76
July.....	13,700	525	2,342	3.52	4.06	2.28
August.....	6,700	288	1,063	1.60	1.84	1.03
September.....	5,700	256	795	1.20	1.34	.776
The year.....	16,700	172	2,162	3.25	44.13	2.10

Monthly discharge of Monocecy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1903-4						
October.....	1,930	226	477	0.717	0.83	0.463
November.....	437	198	239	.359	.40	.232
December.....	6,650	172	540	.812	.94	.525
January.....	14,800	260	1,069	1.61	1.86	1.04
February.....	8,760	294	1,502	2.26	2.44	1.46
March.....	12,000	538	1,812	2.72	3.14	1.76
April.....	2,400	294	729	1.10	1.23	.711
May.....	789	198	375	.561	.65	.363
June.....	4,500	144	817	1.23	1.37	.795
July.....	2,760	120	586	.881	1.02	.569
August.....	7,130	80	436	.656	.76	.424
September.....	734	80	251	.377	.42	.244
The year.....	14,800	80	734	1.10	15.06	.711
1904-5						
October.....	969	80	176	.265	.31	.171
November.....	228	120	139	.209	.23	.135
December.....	3,900	120	549	.826	.95	.534
January.....	12,200	538	1,503	2.26	2.61	1.46
February.....	734	368	388	.588	.61	.380
March.....	9,440	538	3,056	4.60	5.30	2.97
April.....	2,220	368	790	1.19	1.33	.769
May.....	450	170	279	.420	.48	.271
June.....	2,860	144	748	1.12	1.25	.724
July.....	6,600	260	1,296	1.95	2.25	1.26
August.....	13,600	228	1,427	2.15	2.48	1.39
September.....	2,130	170	546	.821	.92	.531
The year.....	13,600	80	917	1.38	18.72	.892
1905-6						
October.....	2,040	144	583	.877	1.01	.567
November.....	3,050	198	390	.586	.65	.379
December.....	13,500	408	2,124	3.19	3.68	2.06
January.....	13,200	493	1,657	2.49	2.87	1.61
February.....	3,900	260	824	1.24	1.29	.801
March.....	12,200	584	2,275	3.42	3.94	2.21
April.....	16,800	632	2,877	4.33	4.83	2.80
May.....	734	228	422	.634	.73	.410
June.....	5,200	228	1,037	1.56	1.74	1.01
July.....	584	198	284	.427	.49	.276
August.....	10,800	260	1,780	2.68	3.09	1.73
September.....	682	198	290	.436	.49	.282
The year.....	16,800	144	1,215	1.83	24.81	1.18
1906-7						
October.....	7,760	198	1,490	2.24	2.58	1.45
November.....	734	260	418	.629	.70	.407
December.....	6,600	260	1,430	2.15	2.48	1.39
January.....	9,650	682	2,680	4.03	4.65	2.60
February.....	1,540	408	814	1.22	1.27	.789
March.....	12,400	408	3,240	4.87	5.62	3.15
April.....	3,810	538	967	1.46	1.63	.944
May.....	2,490	368	686	1.03	1.19	.666
June.....	4,700	330	1,430	2.15	2.40	1.39
July.....	10,600	258	1,430	2.15	2.48	1.39
August.....	1,100	165	375	.564	.65	.365
September.....	6,400	138	831	1.25	1.40	.808
The year.....	12,400	138	1,325	1.99	27.05	1.29
1907-8						
October.....	1,320	194	330	.496	.57	.321
November.....	8,500	194	1,540	2.32	2.59	1.50
December.....	11,200	538	2,810	4.23	4.88	2.73
January.....	9,540	734	2,130	3.20	3.69	2.07
February.....	19,200	493	3,400	5.12	5.52	3.31
March.....	6,710	682	2,470	3.71	4.28	2.40
April.....	2,040	408	811	1.22	1.36	.789
May.....	17,300	408	3,870	5.82	6.71	3.76
June.....	906	225	408	.614	.68	.397
July.....	4,200	138	592	.890	1.03	.575
August.....	1,280	152	335	.504	.58	.326
September.....	1,280	102	186	.280	.31	.181
The year.....	19,200	102	1,573	2.37	32.20	1.53

Monthly discharge of Monocacy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1908-9						
October.....	762	126	235	0.353	0.41	0.228
November.....	180	126	154	.232	.26	.150
December.....	472	126	212	.319	.37	.206
January.....	3,380	140	690	1.04	1.20	.672
February.....	10,500	340	2,560	3.85	4.01	2.49
March.....	6,970	560	1,710	2.57	2.96	1.66
April.....	4,850	340	1,350	2.03	2.26	1.31
May.....	2,090	240	564	.848	.98	.548
June.....	2,960	247	982	1.48	1.65	.957
July.....	320	79	150	.226	.26	.146
August.....	537	38	99.2	.149	.17	.096
September.....	402	38	94.0	.141	.16	.091
The year.....	10,500	38	720	1.08	14.69	.698
1909-10						
October.....	282	38	85.6	.129	.15	.083
November.....	127	57	80.8	.122	.14	.079
December.....	9,120	79	664	1.00	1.15	.646
January.....	12,600	150	1,700	2.56	2.95	1.65
February.....	10,200	247	2,200	3.31	3.45	2.14
March.....	7,440	214	917	1.38	1.59	.892
April.....	9,960	127	1,210	1.82	2.03	1.18
May.....	1,030	183	388	.584	.67	.377
June.....	7,760	183	1,130	1.70	1.90	1.10
July.....	789	79	236	.355	.41	.229
August.....	1,540	38	169	.254	.29	.164
September.....	214	22	58.5	.088	.10	.057
The year.....	12,600	22	725	1.09	14.83	.704
1910-11						
October.....	102	15	49.5	.074	.09	.048
November.....	154	38	77.8	.117	.13	.076
December.....	360	79	127	.191	.22	.123
January.....	3,140	154	598	.899	1.04	.581
February.....	1,540	282	815	.123	1.28	.080
March.....	1,880	360	825	1.24	1.43	.801
April.....	3,670	402	990	1.49	1.66	.963
May.....	789	154	293	.441	.51	.285
June.....	632	154	264	.397	.44	.257
July.....	446	57	157	.236	.27	.153
August.....	17,400	38	1,280	1.92	2.21	1.24
September.....	15,200	127	1,180	1.77	1.98	1.14
The year.....	17,400	15	552	.830	11.26	.536
1911-12						
October.....	2,400	79	661	.994	1.15	.642
November.....	2,860	320	865	1.30	1.45	.840
December.....	5,900	360	1,300	1.97	2.25	1.27
January.....	3,800	-	796	1.20	1.38	.776
February.....	13,000	-	1,980	2.98	3.21	1.93
March.....	14,000	593	3,750	5.64	6.50	3.65
April.....	2,860	593	1,250	1.88	2.10	1.22
May.....	1,960	294	719	1.08	1.24	.698
June.....	2,130	197	358	.538	.60	.348
July.....	2,950	139	496	.746	.86	.482
August.....	3,420	139	433	.651	.75	.421
September.....	17,400	68	1,390	2.09	2.33	1.35
The year.....	17,400	68	1,165	1.75	23.82	1.13
1912-13						
October.....	1,050	167	309	.465	.54	.301
November.....	1,960	167	311	.468	.52	.302
December.....	9,360	139	877	1.32	1.52	.853
January.....	4,760	805	1,690	2.54	2.93	1.64
February.....	1,320	197	638	.959	1.00	.620
March.....	13,200	259	2,480	3.73	4.30	2.41
April.....	4,760	643	1,620	2.44	2.72	1.58
May.....	1,960	331	667	1.02	1.18	.659
June.....	643	167	281	.423	.47	.273
July.....	331	36	124	.186	.21	.120
August.....	2,220	68	228	.343	.40	.222
September.....	4,850	30	272	.409	.46	.264
The year.....	13,200	30	796	1.20	16.25	.776

Monthly discharge of Monocacy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1913-14						
October.....	7,890	101	1,060	1.59	1.83	1.03
November.....	2,400	243	516	.776	.87	.502
December.....	7,890	276	1,300	1.95	2.25	1.26
January.....	7,050	545	1,820	2.74	3.16	1.77
February.....	8,520	-	1,250	1.85	1.93	1.20
March.....	7,780	-	1,620	2.44	2.81	1.58
April.....	5,140	545	1,350	2.00	2.23	1.29
May.....	3,350	259	866	1.30	1.50	.840
June.....	569	101	231	.347	.39	.224
July.....	3,900	78	497	.747	.86	.483
August.....	2,400	59	292	.439	.51	.284
September.....	212	43	76.6	.115	.13	.074
The year.....	8,520	43	905	1.36	18.47	.879
1914-15						
October.....	432	30	71.4	.107	.12	.069
November.....	2,580	50	246	.370	.41	.239
December.....	1,250	89	436	.656	.76	.424
January.....	20,900	227	3,300	4.96	5.72	3.21
February.....	17,100	800	3,120	4.69	4.88	3.03
March.....	1,230	302	652	.980	1.13	.633
April.....	445	212	267	.402	.45	.260
May.....	2,710	158	425	.639	.74	.413
June.....	14,800	226	1,270	1.91	2.13	1.23
July.....	318	68	169	.254	.29	.164
August.....	13,000	122	1,960	2.95	3.40	1.91
September.....	10,800	240	1,060	1.59	1.77	1.03
The year.....	20,900	30	1,070	1.61	21.80	1.04
1915-16						
October.....	3,140	286	571	.859	.99	.555
November.....	1,820	198	441	.663	.74	.429
December.....	7,730	158	1,190	1.79	2.06	1.16
January.....	2,540	465	915	1.38	1.59	.892
February.....	5,410	682	1,330	2.00	2.16	1.29
March.....	9,940	318	1,910	2.87	3.31	1.85
April.....	3,910	592	1,200	1.80	2.01	1.16
May.....	705	286	413	.621	.72	.401
June.....	13,300	255	2,140	3.22	3.59	2.08
July.....	5,580	270	824	1.24	1.43	.801
August.....	570	171	297	.447	.52	.289
September.....	7,550	78	653	.982	1.10	.635
The year.....	13,300	78	987	1.48	20.22	.957
1916-17						
October.....	7,010	122	440	.662	.76	.428
November.....	525	122	158	.238	.26	.154
December.....	2,610	158	576	.866	1.00	.560
January.....	3,290	405	1,250	1.88	2.17	1.22
February.....	1,420	240	682	1.03	1.07	.666
March.....	9,750	705	2,380	3.58	4.13	2.31
April.....	7,550	434	1,130	1.70	1.90	1.10
May.....	2,050	232	430	.646	.74	.418
June.....	4,230	218	783	1.18	1.32	.763
July.....	2,840	204	701	1.05	1.21	.679
August.....	4,900	165	643	.967	1.11	.625
September.....	2,410	204	460	.692	.77	.447
The year.....	9,750	122	805	1.21	16.44	.782
1917-18						
October.....	12,400	152	1,440	2.17	2.50	1.40
November.....	3,060	262	604	.908	1.01	.587
December.....	-	-	275	.414	.48	.268
January.....	-	-	408	.614	.71	.397
February.....	13,700	-	3,560	5.35	5.57	3.46
March.....	3,590	454	1,310	1.97	2.27	1.27
April.....	8,830	343	2,370	3.56	3.97	2.30
May.....	5,580	310	705	1.06	1.22	.685
June.....	882	165	286	.430	.48	.278
July.....	713	116	198	.298	.34	.193
August.....	1,200	72	185	.278	.32	.190
September.....	378	54	138	.208	.23	.134
The year.....	13,700	54	935	1.41	19.10	.911

Monthly discharge of Monocacy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1918-19						
October.....	104	72	88.4	.133	.15	.086
November.....	2,410	72	244	.367	.41	.237
December.....	9,750	72	1,070	1.61	1.86	1.04
January.....	6,650	494	1,420	2.14	2.47	1.38
February.....	3,750	191	832	1.25	1.30	.808
March.....	7,550	494	1,530	2.30	2.65	1.49
April.....	3,590	415	853	1.28	1.43	.827
May.....	5,320	396	1,260	1.89	2.18	1.22
June.....	1,910	232	589	.886	.99	.573
July.....	5,410	178	984	1.48	1.71	.957
August.....	1,200	152	291	.438	.50	.283
September.....	1,260	116	235	.353	.39	.228
The year.....	9,750	72	786	1.18	16.04	.763
1919-20						
October.....	622	116	249	.374	.43	.242
November.....	3,750	204	894	1.34	1.50	.866
December.....	2,920	-	791	1.19	1.37	.769
January.....	2,920	-	662	.995	1.15	.643
February.....	-	-	1,500	2.26	2.44	1.46
March.....	10,600	434	3,400	5.11	5.89	3.30
April.....	4,560	525	1,160	1.74	1.94	1.12
May.....	1,420	255	490	.737	.85	.476
June.....	728	158	282	.424	.44	.274
July.....	950	88	243	.365	.42	.236
August.....	5,160	88	751	1.13	1.30	.730
September.....	615	99	217	.326	.36	.211
The year.....	10,600	88	885	1.33	18.09	.860
1920-21						
October.....	4,390	110	373	.561	.65	.363
November.....	2,540	122	548	.824	.92	.533
December.....	8,560	405	1,140	1.71	1.97	1.11
January.....	2,170	240	599	.901	1.04	.582
February.....	950	335	539	.817	.84	.528
March.....	5,580	370	1,160	1.74	2.00	1.12
April.....	1,540	255	451	.678	.76	.438
May.....	12,600	405	2,250	3.38	3.90	2.18
June.....	525	146	279	.420	.47	.271
July.....	638	99	218	.328	.38	.212
August.....	3,360	78	384	.577	.67	.373
September.....	1,820	57	456	.686	.77	.443
The year.....	12,600	57	703	1.06	14.37	.685
1921-22						
October.....	151	72	929	.140	.16	.090
November.....	3,360	101	324	.487	.54	.315
December.....	4,980	270	786	1.18	1.36	.763
January.....	2,240	-	451	.678	.78	.438
February.....	4,980	-	1,410	2.12	2.21	1.37
March.....	8,100	615	2,000	3.01	3.47	1.95
April.....	2,320	320	609	.916	1.02	.592
May.....	2,240	255	569	.856	.99	.553
June.....	6,650	226	946	1.42	1.58	.918
July.....	3,520	146	502	.755	.87	.488
August.....	950	110	230	.346	.40	.224
September.....	198	46	90.8	.137	.15	.088
The year.....	8,100	46	663	.997	13.53	.644
1922-23						
October.....	485	43	119	0.179	0.21	0.116
November.....	92	63	76.9	.116	.13	.075
December.....	850	61	159	.239	.28	.154
January.....	1,820	-	267	.402	.46	.260
February.....	5,240	-	1,080	1.62	1.69	1.05
March.....	5,580	-	1,540	2.32	2.68	1.50
April.....	2,980	318	702	1.06	1.18	.685
May.....	682	240	346	.520	.60	.336
June.....	240	86	162	.244	.27	.158
July.....	13,000	23	502	.755	.87	.488
August.....	900	49	223	.335	.39	.217
September.....	2,170	76	402	.605	.68	.391
The year.....	13,000	23	461	.693	9.44	.448

Monthly discharge of Monocacy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1923-24						
October.....	255	64	120	.180	.21	.116
November.....	226	120	156	.235	.26	.152
December.....	2,390	318	728	1.09	1.26	.704
January.....	14,600	134	2,060	3.10	3.58	2.00
February.....	4,820	405	998	1.50	1.62	.969
March.....	11,600	1,050	3,950	5.94	6.85	3.84
April.....	11,400	615	2,450	3.68	4.11	2.38
May.....	12,300	425	1,740	2.62	3.02	1.69
June.....	11,000	405	1,530	2.30	2.57	1.49
July.....	2,920	179	671	1.01	1.16	.653
August.....	2,170	106	305	.459	.53	.297
September.....	5,750	106	316	.475	.53	.307
The year.....	14,600	64	1,250	1.88	25.70	1.22
1924-25						
October.....	8,930	139	844	1.27	1.46	.821
November.....	1,230	139	254	.382	.43	.247
December.....	615	134	300	.451	.52	.291
January.....	1,170	110	402	.605	.70	.391
February.....	12,000	525	2,470	3.71	3.86	2.40
March.....	2,240	485	764	1.15	1.53	.743
April.....	660	270	428	.644	.72	.416
May.....	1,110	158	406	.611	.71	.395
June.....	-	88	129	.194	.22	.125
July.....	-	43	83.0	.125	.14	.081
August.....	255	28	99.0	.149	.17	.096
September.....	660	30	138	.208	.23	.134
The year.....	12,000	28	513	.771	10.49	.498
1925-26						
October.....	1,420	24	305	.459	.53	.297
November.....	9,290	146	771	1.16	1.29	.750
December.....	1,680	212	568	.854	.98	.552
January.....	7,460	-	878	1.32	1.52	.853
February.....	13,500	335	2,620	3.94	4.10	2.55
March.....	3,750	425	947	1.42	1.64	.918
April.....	7,550	352	947	1.42	1.58	.918
May.....	505	134	266	.400	.46	.259
June.....	900	99	188	.283	.32	.183
July.....	335	78	135	.203	.23	.131
August.....	9,020	78	1,020	1.53	1.76	.989
September.....	4,100	115	565	.850	.95	.549
The year.....	13,500	24	754	1.13	15.36	.730
1926-27						
October.....	7,010	320	872	1.31	1.51	.847
November.....	15,600	290	2,170	3.26	3.64	2.11
December.....	4,730	450	882	1.33	1.53	.860
January.....	2,220	340	866	1.30	1.50	.840
February.....	4,820	392	1,820	2.74	2.85	1.77
March.....	1,710	470	886	1.33	1.53	.860
April.....	7,190	322	1,510	2.27	2.53	1.47
May.....	2,930	322	814	1.22	1.41	.789
June.....	2,080	90	562	.845	.94	.546
July.....	450	90	200	.301	.35	.195
August.....	1,590	135	357	.537	.62	.347
September.....	6,170	80	327	.492	.55	.318
The year.....	15,600	80	929	1.40	18.96	.905
1927-28						
October.....	13,800	76	1,910	2.87	3.31	1.85
November.....	5,540	320	640	.962	1.07	.622
December.....	5,900	305	1,280	1.92	2.21	1.24
January.....	2,360	-	523	.786	.91	.508
February.....	11,900	-	1,530	2.30	2.48	1.49
March.....	4,370	390	1,400	2.11	2.43	1.36
April.....	12,900	430	2,090	3.14	3.50	2.03
May.....	4,190	320	977	1.47	1.70	.950
June.....	12,000	218	2,320	3.49	3.89	2.26
July.....	12,200	340	1,530	2.30	2.65	1.49
August.....	3,250	305	684	1.03	1.19	.666
September.....	2,710	160	461	.693	.77	.448
The year.....	13,800	76	1,280	1.92	26.11	1.24

Monthly discharge of Monocacy River near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928-29						
October.....	642	103	267	.402	.46	.260
November.....	289	157	215	.323	.36	.209
December.....	1,410	89	307	.462	.53	.299
January.....	8,010	-	1,030	1.55	1.79	1.00
February.....	8,930	-	1,240	1.86	1.94	1.20
March.....	10,500	430	2,120	3.19	3.68	2.06
April.....	10,900	340	1,540	2.32	2.59	1.50
May.....	15,000	375	1,310	1.97	2.27	1.27
June.....	3,250	138	483	.726	.81	.469
July.....	305	103	171	.257	.30	.166
August.....	146	75	103	.155	.18	.100
September.....	1,180	67	240	.361	.40	.233
The year.....	15,000	67	749	1.33	15.31	.730
1929-30						
October.....	9,290	108	1,030	1.55	1.79	1.00
November.....	6,080	275	1,040	1.56	1.74	1.01
December.....	1,270	-	573	.862	.99	.557
January.....	1,940	-	608	.914	1.05	.591
February.....	4,460	-	1,260	1.89	1.97	1.22
March.....	8,370	460	1,340	2.02	2.33	1.31
April.....	5,090	333	712	1.07	1.19	.692
May.....	404	141	246	.370	.43	.239
June.....	518	110	219	.329	.37	.213
July.....	146	28	69.7	.105	.12	.068
August.....	50	28	38.8	.058	.07	.038
September.....	160	30	57.4	.086	.10	.056
The year.....	9,290	28	595	.895	12.15	.578

Yearly discharge of Monocacy River near Frederick, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1897.....	769	1.16	15.68	0.750	978	1.47	19.98	0.950
1898.....	999	1.50	20.38	.969	1,053	1.59	21.47	1.03
1899.....	1,278	1.92	26.08	1.24	1,043	1.57	21.29	1.01
1900.....	699	1.05	14.28	.679	707	1.06	14.44	.685
1901.....	849	1.28	17.34	.827	1,018	1.53	20.78	.989
1902.....	1,419	2.13	28.96	1.38	1,642	2.47	33.53	1.60
1903.....	2,162	3.25	44.13	2.10	1,786	2.69	36.45	1.74
1904.....	734	1.10	15.06	.711	702	1.06	14.38	.685
1905.....	916	1.32	18.72	.892	1,105	1.66	22.57	1.07
1906.....	1,215	1.83	24.81	1.18	1,236	1.86	25.23	1.20
1907.....	1,325	1.99	27.05	1.29	1,436	2.16	29.33	1.40
1908.....	1,573	2.37	32.20	1.53	1,231	1.85	25.20	1.20
1909.....	720	1.08	14.69	.688	759	1.11	15.09	.717
1910.....	725	1.02	14.83	.704	676	1.02	13.83	.659
1911.....	552	.830	11.26	.536	769	1.16	15.67	.750
1912.....	1,165	1.75	23.82	1.13	1,054	1.58	21.55	1.02
1913.....	796	1.20	16.25	.776	913	1.37	18.62	.885
1914.....	905	1.36	18.47	.879	725	1.09	14.81	.704
1915.....	1,070	1.61	21.80	1.04	1,190	1.79	24.30	1.16
1916.....	987	1.48	20.22	.957	901	1.35	18.45	.873
1917.....	805	1.21	16.44	.782	901	1.35	18.41	.873
1918.....	935	1.41	19.10	.911	858	1.29	17.53	.834
1919.....	786	1.18	16.04	.763	830	1.25	16.92	.808
1920.....	885	1.33	18.09	.860	897	1.35	18.33	.873
1921.....	703	1.06	14.37	.685	631	.949	12.89	.613

Yearly discharge of Monocacy River near Frederick, Md.--Continued

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1922.....	663	0.997	13.53	0.644	592	0.890	12.09	0.575
1923.....	461	.693	9.44	.448	516	.776	10.55	.502
1924.....	1,250	1.88	25.70	1.22	1,290	1.94	26.38	1.25
1925.....	513	.771	10.49	.498	533	.802	10.88	.518
1926.....	754	1.13	15.36	.730	945	1.42	19.24	.918
1927.....	929	1.40	18.96	.905	926	1.39	18.87	.898
1928.....	1,280	1.92	26.11	1.24	1,020	1.53	20.87	.989
1929.....	749	1.13	15.31	.730	904	1.36	18.48	.879
1930.....	595	.895	12.15	.578	-	-	-	-
Righest....	2,162	3.25	44.13	2.10	1,786	2.69	36.45	1.74
Average....	946	1.42	19.33	.918	962	1.45	19.65	.937
Lowest....	461	.693	9.44	.448	516	.776	10.55	.502

Monocacy River at Jug Bridge, near Frederick, Md.

Location.- Water-stage recorder, lat. 39°24'13", long. 77°21'58", a quarter of a mile upstream from Jug Bridge, 0.35 mile downstream from Linganore Creek, and 2½ miles east of Frederick, Frederick County. Datum of gage is 231.92 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 817 square miles.

Records available.- November 1929 to September 1943.

Extremes.- Maximum discharge, 51,000 second-feet Aug. 24, 1933 (gage height, 28.1 feet); minimum, 35 second-feet Oct. 1, 1930.

Maximum stage known, 30 feet sometime in June 1889, from floodmarks (discharge, 56,000 second-feet).

Remarks.- Records do not include water diverted from Linganore Creek for municipal supply of Frederick and do include inflow from sewage of city of Westminster which obtains its water supply from the Patapsco River Basin and discharges its sewage into Little Pipe Creek. Records of diversion and inflow can be obtained from the office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Monocacy River at Jug Bridge, near Frederick, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
November 21-30.....	1,260	350	805	0.985	0.37	0.637
December.....	1,700	-	663	.812	.94	.525
January.....	2,360	-	779	.953	1.10	.616
February.....	5,120	-	1,520	1.86	1.94	1.20
March.....	9,500	572	1,480	1.81	2.09	1.17
April.....	5,920	440	914	1.12	1.25	.724
May.....	530	177	297	.364	.42	.235
June.....	1,260	139	271	.332	.37	.215
July.....	630	68	128	.157	.18	.101
August.....	79	57	66.3	.081	.09	.052
September.....	142	39	70.2	.086	.10	.056
1930-31						
October.....	62	39	46.8	.057	.07	.037
November.....	90	48	65.1	.080	.09	.052
December.....	3,250	-	229	.280	.32	.181
January.....	2,040	77	261	.319	.37	.206
February.....	460	-	175	.214	.22	.138
March.....	5,920	158	684	.837	.96	.541
April.....	7,540	-	919	1.12	1.25	.724
May.....	-	-	389	.476	.55	.308
June.....	1,340	143	386	.472	.53	.305
July.....	835	110	311	.361	.44	.246
August.....	2,330	78	346	.424	.49	.274
September.....	560	67	124	.152	.17	.098
The year.....	7,540	39	329	.403	5.46	.260

Monthly discharge of Monocecy River at Jug Bridge, near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gellons per dey per square mile
	Maximum	Minimum	Meen	Per square mile		
1931-32						
October.....	89	50	61.3	0.075	0.09	0.048
November.....	-	62	72.4	.089	.10	.058
December.....	254	73	131	.160	.18	.103
Jenuery.....	3,050	211	674	.825	.95	.533
Februery.....	2,970	222	521	.638	.69	.412
Merch.....	6,160	213	1,310	1.60	1.84	1.03
April.....	3,800	347	1,060	1.30	1.45	.840
Mey.....	13,300	390	1,750	2.14	2.47	1.38
June.....	919	194	328	.401	.45	.259
July.....	211	93	151	.185	.21	.120
August.....	281	55	105	.129	.15	.083
September.....	833	44	100	.122	.14	.079
The year.....	13,300	44	523	.640	8.72	.414
1932-33						
October.....	9,820	57	1,120	1.37	1.58	.885
November.....	10,300	630	2,500	3.06	3.41	1.98
December.....	4,380	354	890	1.09	1.26	.704
January.....	3,660	516	1,010	1.24	1.43	.801
Februery.....	4,040	502	1,280	1.57	1.64	1.01
Merch.....	9,280	565	2,470	3.02	3.48	1.95
April.....	10,000	1,120	2,900	3.55	3.96	2.29
Mey.....	3,810	580	1,390	1.70	1.96	1.10
June.....	3,220	246	518	.634	.71	.410
July.....	4,810	167	515	.630	.73	.407
August.....	42,100	155	3,230	3.95	4.55	2.55
September.....	12,600	435	1,220	1.49	1.66	.963
The year.....	42,100	57	1,590	1.95	26.37	1.26
1933-34						
October.....	1,950	312	553	.677	.78	.438
November.....	545	235	293	.359	.40	.232
December.....	830	190	311	.381	.44	.246
Jenuery.....	4,140	370	1,010	1.24	1.43	.801
Februery.....	370	220	261	.319	.33	.206
Merch.....	4,680	240	1,100	1.35	1.56	.873
April.....	4,440	630	1,330	1.63	1.82	1.05
Mey.....	2,590	385	745	.912	1.05	.589
June.....	2,650	217	450	.551	.61	.356
July.....	1,090	111	209	.256	.30	.165
August.....	630	108	206	.252	.29	.163
September.....	29,000	99	2,670	3.27	3.65	2.11
The year.....	29,000	99	761	.931	12.66	.602
1934-35						
October.....	4,800	285	682	.835	.96	.540
November.....	2,890	250	509	.623	.70	.403
December.....	15,400	550	1,820	2.23	2.57	1.44
Jenuery.....	2,260	591	1,010	1.24	1.43	.801
Februery.....	7,410	680	1,950	2.39	2.49	1.54
Merch.....	3,880	760	1,280	1.57	1.81	1.01
April.....	5,330	573	1,300	1.59	1.77	1.03
Mey.....	1,720	311	680	.832	.96	.538
June.....	606	190	307	.376	.42	.243
July.....	564	143	240	.294	.34	.190
August.....	182	84	119	.146	.17	.094
September.....	2,350	90	304	.372	.42	.240
The year.....	15,400	84	842	1.03	14.04	.666
1935-36						
October.....	2,220	103	208	.255	.29	.165
November.....	3,350	179	647	.792	.88	.512
December.....	2,940	358	749	.917	1.06	.593
Jenuery.....	6,410	480	1,910	2.34	2.70	1.51
Februery.....	9,280	460	1,813	2.22	2.39	1.43
Merch.....	18,900	1,400	4,345	5.32	6.13	3.44
April.....	7,790	582	1,758	2.15	2.40	1.39
Mey.....	573	245	385	.471	.54	.304
June.....	1,250	162	290	.355	.40	.229
July.....	771	112	308	.377	.43	.244
August.....	2,740	105	402	.492	.57	.318
September.....	205	93	129	.158	.18	.102
The year.....	18,900	93	1,079	1.32	17.97	.853

Monthly discharge of Monocacy River at Jug Bridge, near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gellons per dey per square mile
	Maximum	Minimum	Meen	Per square mile		
1936-37						
October.....	3,730	111	485	0.594	0.68	0.384
November.....	262	126	171	.209	.23	.135
December.....	5,910	126	1,503	1.84	2.12	1.19
Jenuery.....	6,130	980	2,515	3.08	3.55	1.99
February.....	12,800	1,100	2,462	3.01	3.13	1.95
Merch.....	2,040	682	999	1.22	1.41	.789
April.....	29,900	575	3,011	3.69	4.12	2.38
May.....	2,490	469	1,020	1.25	1.44	.808
June.....	4,010	335	983	1.20	1.34	.776
July.....	2,390	262	612	.749	.86	.484
August.....	6,080	207	983	1.20	1.38	.776
September.....	1,310	178	347	.425	.47	.275
The year.....	29,900	111	1,249	1.53	20.73	.989
1937-38						
October.....	9,070	178	2,017	2.47	2.85	1.60
November.....	13,600	671	2,057	2.52	2.81	1.63
December.....	1,360	519	754	.923	1.06	.597
Jenuery.....	2,600	372	801	.980	1.13	.633
February.....	2,620	490	846	1.04	1.08	.672
March.....	4,750	550	1,143	1.40	1.61	.905
April.....	1,240	450	677	.829	.92	.536
May.....	3,020	315	697	.841	.97	.544
June.....	1,150	211	391	.479	.53	.310
July.....	2,990	148	453	.554	.64	.358
August.....	1,440	115	324	.397	.46	.257
September.....	996	151	304	.372	.42	.240
The year.....	13,600	115	872	1.07	14.48	.692
1938-39						
October.....	286	143	172	.211	.24	.136
November.....	858	146	323	.395	.44	.255
December.....	8,650	454	1,366	1.67	1.92	1.08
Jenuery.....	10,200	399	1,124	1.38	1.59	.892
February.....	13,700	885	2,786	3.41	3.55	2.20
March.....	9,430	732	1,805	2.21	2.55	1.43
April.....	6,050	820	1,764	2.16	2.41	1.40
May.....	1,480	336	685	.838	.97	.542
June.....	2,210	242	430	.526	.59	.340
July.....	779	146	255	.312	.36	.202
August.....	605	93	150	.184	.21	.119
September.....	858	84	178	.218	.24	.141
The year.....	13,700	84	907	1.11	15.07	.717
1939-40						
October.....	2,810	110	327	.400	.46	.259
November.....	2,340	148	415	.508	.57	.328
December.....	692	140	207	.253	.29	.164
Jenuery.....	4,360	132	458	.561	.65	.363
February.....	8,560	294	1,531	1.87	2.02	1.21
Merch.....	11,400	650	1,979	2.42	2.79	1.56
April.....	18,300	920	3,333	4.08	4.55	2.64
May.....	5,600	519	1,115	1.36	1.57	.879
June.....	1,710	288	591	.723	.81	.467
July.....	876	182	344	.421	.49	.272
August.....	4,210	78	435	.532	.61	.344
September.....	21,500	176	1,854	2.27	2.53	1.47
The year.....	21,500	78	1,041	1.27	17.34	.821
1940-41						
October.....	3,410	296	647	.792	.91	.512
November.....	10,000	602	2,094	2.56	2.86	1.65
December.....	5,440	648	1,507	1.84	2.13	1.19
Jenuery.....	2,570	648	1,054	1.29	1.49	.834
February.....	4,760	566	1,015	1.24	1.29	.801
Merch.....	5,310	494	1,355	1.66	1.91	1.07
April.....	11,600	500	1,490	1.81	2.02	1.17
May.....	490	210	336	.411	.47	.266
June.....	1,430	164	411	.503	.56	.325
July.....	670	102	211	.258	.30	.167
August.....	170	80	111	.136	.16	.088
September.....	131	42	75.9	.093	.10	.060
The year.....	11,600	42	855	1.05	14.20	.679

Monthly discharge of Monocacy River at Jug Bridge, near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	76	44	55.9	0.068	0.08	0.044
November.....	199	74	98.9	.121	.14	.078
December.....	1,800	88	307	.376	.43	.243
January.....	1,050	134	281	.344	.40	.222
February.....	5,260	240	891	1.09	1.14	.704
March.....	3,420	257	1,084	1.33	1.53	.860
April.....	8,550	374	1,919	2.35	2.62	1.52
May.....	12,700	232	1,478	1.81	2.09	1.17
June.....	2,700	321	971	1.19	1.33	.769
July.....	2,460	198	719	.880	1.02	.569
August.....	21,300	391	2,269	2.78	3.20	1.80
September.....	2,340	201	414	.607	.56	.328
The year.....	21,300	44	874	1.07	14.54	.692
1942-43						
October.....	13,100	216	2,142	2.62	3.02	1.69
November.....	2,330	643	946	1.16	1.29	.750
December.....	13,900	400	1,893	2.32	2.67	1.50
January.....	3,180	670	1,161	1.42	1.64	.918
February.....	6,400	880	1,955	2.39	2.49	1.54
March.....	4,680	645	1,908	2.34	2.69	1.61
April.....	7,760	570	1,271	1.66	1.74	1.01
May.....	12,600	530	1,626	1.99	2.29	1.29
June.....	940	239	438	.536	.60	.346
July.....	350	110	198	.242	.28	.156
August.....	123	59	85.1	.104	.12	.067
September.....	96	41	65.0	.080	.09	.062
The year.....	13,900	41	1,139	1.39	18.92	.898

Yearly discharge of Monocacy River at Jug Bridge, near Frederick, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	-	-	-	-	482	0.590	8.02	0.381
1931.....	329	0.403	5.46	0.260	322	.394	5.35	.256
1932.....	523	.640	8.72	.414	876	1.07	14.60	.692
1933.....	1,590	1.95	26.37	1.26	1,308	1.60	21.74	1.03
1934.....	761	.931	12.66	.602	918	1.12	15.27	.724
1935.....	842	1.03	14.04	.666	723	.885	12.04	.572
1936.....	1,079	1.32	17.97	.853	1,127	1.38	18.77	.892
1937.....	1,249	1.53	20.73	.989	1,471	1.80	24.42	1.16
1938.....	872	1.07	14.46	.692	624	.764	10.36	.494
1939.....	907	1.11	15.07	.717	829	1.01	13.79	.653
1940.....	1,041	1.27	17.34	.821	1,316	1.61	21.92	1.04
1941.....	855	1.05	14.20	.679	539	.660	8.95	.427
1942.....	874	1.07	14.54	.692	1,256	1.64	20.87	.995
1943.....	1,139	1.39	18.92	.898	-	-	-	-
Highest....	1,590	1.95	26.37	1.26	1,471	1.80	24.42	1.16
Average....	928	1.14	15.42	.737	907	1.11	15.08	.717
Lowest....	329	.403	5.46	.260	322	.394	5.35	.255

Owens Creek at Lantz, Md.

Location.- Water-stage recorder, lat. 39°40'36", long. 77°27'50", half a mile west of Lantz post office (Deerfield station on Western Maryland Railroad), Frederick County, and 1½ miles south of Sabillasville.

Drainage area.- 5.70 square miles.

Records available.- October 1931 to September 1943.

Extremes.- Maximum discharge, 4,500 second-feet Dec. 1, 1934 (gage height, 8.4 feet), from rating curve extended above 1,000 second-feet; minimum 0.06 second-foot Oct. 8, 1941 (gage height, 0.85 foot), not including about 0.10 second-foot diverted above station; minimum daily, including water diverted above gage, 0.18 second-foot Sept. 20, 1932, Sept. 30, Oct. 7, 8, 1941.

Remarks.- Records do not include water diverted by pumps half a mile above station (drainage area, 3.83 square miles) to Maryland Tuberculosis Sanatorium. Records of pumpage can be obtained from the office of Chief Engineer, Maryland State Department of Health, Baltimore.

Monthly discharge of Owene Creek at Lantz, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
October.....	0.9	0.36	0.518			
November.....	1.7	.41	.510			
December.....	3.8	.47	1.21			
January.....	26	2.4	5.35			
February.....	15	2.8	4.49			
March.....	59	2.6	12.6			
April.....	32	5.5	13.1			
May.....	84	6	20.1			
June.....	5.5	2.0	3.79			
July.....	2.9	.55	1.37			
August.....	1.2	.16	.399			
September.....	.6	.07	.195			
The year.....	84	.07	5.32			
1932-33						
October.....	60	.15	8.36			
November.....	143	10	28.8			
December.....	21	5.5	9.15			
January.....	31	6	10.0			
February.....	33	7.5	12.4			
March.....	53	7	22.1			
April.....	91	14	27.2			
May.....	32	6.5	15.4			
June.....	12	1.9	4.22			
July.....	26	1.1	3.72			
August.....	330	.9	19.8			
September.....	31	3.4	6.84			
The year.....	330	.15	14.0			
1933-34						
October.....	14	3.0	4.33			
November.....	5.2	2.0	2.88			
December.....	10	1.7	3.22			
January.....	26	3.5	8.78			
February.....	4.0	1.4	2.52			
March.....	31	2.0	9.37			
April.....	23	7.4	13.8			
May.....	20	4.8	8.61			
June.....	27	2.1	4.81			
July.....	4.2	.81	1.59			
August.....	8.5	.51	1.77			
September.....	112	.51	14.7			
The year.....	112	.51	6.37			
1934-35						
October.....	26	3.8	8.00			
November.....	41	3.8	8.58			
December.....	396	8.6	29.3			
January.....	20	6.5	10.9			
February.....	36	6.8	16.0			
March.....	40	12	16.8			
April.....	36	8.3	16.0			
May.....	23	4.3	9.77			
June.....	11	1.6	3.79			
July.....	40	.90	4.34			
August.....	5.5	.78	1.51			
September.....	15	.82	2.43			
The year.....	396	.78	10.6			
1935-36						
October.....	47	.95	3.03			
November.....	18	2.4	8.27			
December.....	27	5.9	10.7			
January.....	41	6.2	14.3			
February.....	43	4.7	10.7			
March.....	173	20	51.0			
April.....	55	9.0	21.6			
May.....	8.5	2.3	4.57			
June.....	6.3	1.0	2.31			
July.....	2.6	.47	.958			
August.....	8.0	.29	1.01			
September.....	1.7	.19	.367			
The year.....	173	.19	10.8			

Monthly discharge of Owens Creek et Lantz, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gellons per dey per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	41	0.31	2.64			
November.....	4.0	.70	1.24			
December.....	33	.60	10.3			
January.....	40	9.7	19.6			
February.....	121	11	25.0			
Merch.....	26	9.7	13.8			
April.....	451	8.0	40.3			
May.....	39	5.2	14.8			
June.....	28	3.7	10.0			
July.....	32	2.6	6.23			
August.....	21	1.2	3.37			
September.....	3.7	.98	1.59			
The year.....	451	.31	12.3			
1937-38						
October.....	122	1.0	12.9			
November.....	66	7.9	16.6			
December.....	12	5.6	7.61			
January.....	18	4.5	6.79			
February.....	18	5.3	7.50			
March.....	23	5.6	10.4			
April.....	12	5.5	7.60			
May.....	38	3.2	7.99			
June.....	15	2.2	4.80			
July.....	11	1.4	3.40			
August.....	11	1.0	2.70			
September.....	13	1.1	3.27			
The year.....	122	1.0	7.63			
1938-39						
October.....	3.0	1.6	1.99			
November.....	11	1.5	4.78			
December.....	52	5.1	13.9			
January.....	39	6.7	11.5			
February.....	67	12	23.8			
March.....	33	9.8	16.2			
April.....	30	11	16.7			
May.....	16	3.0	7.80			
June.....	10	1.8	3.63			
July.....	6.2	.80	1.68			
August.....	10	.26	.829			
September.....	2.5	.17	.618			
The year.....	67	.17	8.52			
1939-40						
October.....	14.0	.53	2.07			
November.....	17.0	1.5	3.22			
December.....	10.5	1.4	2.38			
January.....	21	1.4	3.04			
February.....	44	1.7	9.67			
March.....	31	8.1	18.5			
April.....	81	13.5	25.8			
May.....	62	7.2	16.4			
June.....	28	3.5	9.59			
July.....	6.2	1.6	2.95			
August.....	38	.92	4.09			
September.....	80	2.2	6.99			
The year.....	81	.53	8.69			
1940-41						
October.....	26	3.9	6.85			
November.....	55	7.9	14.5			
December.....	32	7.4	13.5			
January.....	20	6.0	9.78			
February.....	15.5	5.0	7.20			
Merch.....	24	5.0	11.0			
April.....	89	5.6	15.2			
May.....	5.8	2.0	3.75			
June.....	17.5	1.2	3.28			
July.....	7.2	.45	1.28			
August.....	2.3	.19	.602			
September.....	1.1	.08	.276			
The year.....	89	.08	7.26			

Monthly discharge of Owens Creek at Lantz, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	0.98	0.08	0.287			
November.....	6.0	.31	.879			
December.....	32	.47	3.19			
January.....	12.0	.65	2.42			
February.....	42	1.9	7.67			
March.....	48	3.7	15.2			
April.....	64	6.6	22.6			
May.....	94	3.8	14.9			
June.....	22	3.1	7.33			
July.....	17.5	1.6	4.10			
August.....	63	1.8	11.2			
September.....	18.0	2.0	3.46			
The year.....	94	.08	7.77			
1942-43						
October.....	150	1.6	18.3			
November.....	25	7.0	11.2			
December.....	73	7.0	15.4			
January.....	28	5.0	11.8			
February.....	35	7.0	16.2			
March.....	41	8.5	17.3			
April.....	46	6.4	15.0			
May.....	160	7.1	21.1			
June.....	14.5	2.8	6.11			
July.....	9.0	1.0	2.85			
August.....	.98	.35	.626			
September.....	.88	.14	.310			
The year.....	160	.14	11.4			

Yearly discharge of Owens Creek at Lantz, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1932.....	5.32				8.88			
1933.....	14.0				11.0			
1934.....	6.37				8.37			
1935.....	10.6				8.58			
1936.....	10.8				10.1			
1937.....	12.3				14.2			
1938.....	7.63				6.26			
1939.....	8.52				7.42			
1940.....	8.69				11.0			
1941.....	7.26				4.70			
1942.....	7.77				11.2			
1943.....	11.4				-			
Highest....	14.0				14.2			
Average....	9.22				9.55			
Lowest.....	5.32				4.70			

Linganore Creek near Frederick, Md.

Location.- Staff gage, lat. 39°24'55", long. 77°20'00", 2¼ miles upstream from mouth and 4 miles east of Frederick, Frederick County. Prior to Sept. 12, 1934, staff gage at pumping station, 1½ miles downstream.

Drainage area.- 82.3 square miles; 84.6 square miles prior to September 1934.

Records available.- November 1931 to March 1932, September 1934 to September 1943.

Extremes.- Maximum discharge, 3,400 second-feet Aug. 14, 1942 (gage height, 11.72 feet), from rating curve extended above 2,300 second-feet by logarithmic plotting; minimum observed, 6.0 second-feet Oct. 9, 1941 (gage height, 1.00 foot).

Maximum stage known prior to 1942, 10.5 feet Aug. 23 or 24, 1933, from floodmarks (discharge, 2,920 second-feet).

Monthly discharge of Linganore Creek near Frederick, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1931-32						
December.....	38	10	15.9	0.188	0.22	0.122
January.....	120	21	42.5	.502	.58	.324
February.....	150	20	42.1	.498	.54	.322
March 1-26.....	92	24	53.9	.637	.62	.412
1934						
September 12-30.....	575	21	110	1.34	.95	.866
1934-35						
October.....	118	34	48.2	.586	.68	.379
November.....	102	29	39.9	.485	.54	.313
December.....	745	44	91.3	1.11	1.28	.717
January.....	245	54	90.1	1.09	1.26	.704
February.....	605	-	175	2.13	2.22	1.38
March.....	370	91	137	1.66	1.91	1.07
April.....	745	80	141	1.71	1.91	1.11
May.....	173	45	72.7	.883	1.02	.571
June.....	245	38	54.9	.667	.74	.451
July.....	144	18	29.6	.360	.42	.233
August.....	21	11	14.9	.161	.21	.117
September.....	745	10	60.3	.733	.82	.474
The year.....	745	10	78.9	.959	13.01	.620
1935-36						
October.....	87	18	23.7	.288	.33	.186
November.....	173	22	50.1	.609	.68	.394
December.....	234	34	55.4	.673	.78	.455
January.....	1,000	50	172	2.09	2.41	1.35
February.....	850	65	216	2.62	2.83	1.69
March.....	968	130	274	3.33	3.84	2.15
April.....	370	88	150	1.82	2.03	1.18
May.....	98	42	61.9	.752	.87	.486
June.....	122	26	45.7	.555	.62	.359
July.....	182	19	40.9	.497	.57	.321
August.....	345	15	48.7	.592	.68	.383
September.....	32	15	20.5	.249	.28	.161
The year.....	1,000	15	96.3	1.17	15.92	.756
1936-37						
October.....	182	19	34.6	.420	.48	.271
November.....	41	19	23.1	.281	.31	.182
December.....	485	20	100	1.22	1.41	.799
January.....	485	74	185	2.25	2.59	1.45
February.....	640	126	203	2.47	2.57	1.60
March.....	203	81	112	1.36	1.57	.879
April.....	1,070	57	155	1.88	2.10	1.22
May.....	203	64	109	1.32	1.52	.853
June.....	369	49	108	1.31	1.46	.847
July.....	515	38	85.3	1.04	1.20	.672
August.....	345	34	87.5	1.06	1.22	.685
September.....	67	29	41.8	.508	.57	.328
The year.....	1,070	19	103	1.25	17.00	.808
1937-38						
October.....	1,000	29	149	1.81	2.09	1.17
November.....	1,260	73	157	1.91	2.13	1.23
December.....	118	59	79.7	.968	1.12	.626
January.....	163	56	71.1	.864	1.00	.558
February.....	320	53	87.1	1.06	1.10	.685
March.....	163	65	93.5	1.14	1.31	.737
April.....	144	52	70.7	.859	.96	.555
May.....	87	40	52.6	.639	.74	.413
June.....	224	24	43.4	.527	.59	.341
July.....	395	19	55.5	.674	.78	.436
August.....	76	11	23.8	.289	.33	.187
September.....	183	16	39.2	.476	.53	.308
The year.....	1,260	11	76.8	.933	12.68	.603

Monthly discharge of Linganore Creek near Frederick, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	173	21	32.5	0.395	0.46	0.255
November.....	53	22	31.7	.385	.43	.249
December.....	282	38	84.9	1.03	1.19	.666
January.....	1,240	40	97.1	1.18	1.36	.763
February.....	700	102	225	2.73	2.84	1.76
March.....	370	95	165	2.00	2.31	1.29
April.....	345	81	140	1.70	1.90	1.10
May.....	295	47	90.5	1.10	1.27	.711
June.....	395	38	63.7	.774	.86	.500
July.....	78	23	34.1	.414	.48	.268
August.....	76	15	22.9	.278	.32	.180
September.....	78	11	17.5	.213	.24	.138
The year.....	1,240	11	82.8	1.01	13.66	.653
1939-40						
October.....	183	16.5	32.4	.394	.45	.255
November.....	89	20	29.4	.357	.40	.231
December.....	73	19.0	25.3	.307	.35	.198
January.....	224	15.0	29.8	.362	.42	.234
February.....	701	16.0	105	1.28	1.38	.827
March.....	522	59	130	1.58	1.82	1.02
April.....	1,330	55	256	3.11	3.47	2.01
May.....	258	76	118	1.43	1.65	.924
June.....	163	37	60.8	.739	.82	.478
July.....	102	24	38.7	.470	.54	.304
August.....	78	18.5	27.9	.339	.39	.219
September.....	1,270	17.0	72.8	.885	.99	.572
The year.....	1,330	15.0	76.8	.933	12.68	.603
1940-41						
October.....	213	30	45.0	.547	.63	.354
November.....	482	35	124	1.51	1.68	.976
December.....	232	56	97.5	1.18	1.37	.763
January.....	142	64	96.1	1.17	1.35	.756
February.....	324	64	98.6	1.20	1.25	.776
March.....	326	61	111	1.35	1.55	.873
April.....	722	63	131	1.59	1.78	1.03
May.....	60	32	49.2	.586	.67	.379
June.....	151	24	41.3	.502	.56	.324
July.....	118	15	35.3	.405	.47	.262
August.....	27	10	15.4	.187	.22	.121
September.....	20	6.6	9.44	.115	.13	.074
The year.....	722	6.6	70.6	.858	11.66	.555
1941-42						
October.....	16	6.0	9.73	.118	.14	.076
November.....	45	12	14.7	.179	.20	.116
December.....	234	13	32.1	.390	.45	.252
January.....	94	16	23.8	.289	.33	.187
February.....	254	21	42.9	.521	.54	.337
March.....	325	21	55.6	.676	.78	.437
April.....	582	37	122	1.48	1.65	.957
May.....	1,030	26	97.3	1.18	1.36	.763
June.....	649	43	107	1.30	1.46	.840
July.....	364	34	71.2	.865	1.00	.559
August.....	2,110	37	257	3.12	3.61	2.02
September.....	226	29	57.1	.694	.77	.449
The year.....	2,110	6.0	74.5	.905	12.29	.585
1942-43						
October.....	1,440	33	189	2.30	2.65	1.49
November.....	210	69	102	1.24	1.39	.801
December.....	1,090	48	146	1.77	2.04	1.14
January.....	200	82	116	1.41	1.63	.911
February.....	489	84	166	2.02	2.11	1.31
March.....	382	75	168	2.04	2.56	1.32
April.....	273	81	120	1.46	1.63	.944
May.....	162	56	79.6	.967	1.12	.625
June.....	108	31	50.4	.612	.68	.396
July.....	42	17	26.0	.316	.36	.204
August.....	22	10	13.9	.169	.19	.109
September.....	17	8.4	10.5	.128	.14	.083
The year.....	1,440	8.4	98.8	1.20	16.30	.776

Yearly discharge of Linganore Creek near Frederick, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1935.....	78.9	0.959	13.01	0.620	74.6	0.906	12.30	0.586
1936.....	96.3	1.17	15.92	.756	98.8	1.20	16.33	.776
1937.....	103	1.25	17.00	.808	122	1.48	20.14	.957
1938.....	76.8	.933	12.68	.603	57.0	.693	9.42	.448
1939.....	82.8	1.01	13.66	.653	77.6	.943	12.79	.609
1940.....	76.8	.933	12.68	.603	91.7	1.11	15.16	.717
1941.....	70.6	.858	11.66	.555	53.1	.645	8.77	.417
1942.....	74.5	.905	12.29	.585	107	1.30	17.58	.840
1943.....	98.8	1.20	16.30	.776	-	-	-	-

Goose Creek near Leesburg, Va.

Location.- Water-stage recorder, lat. 39°01', long. 77°35', 400 feet upstream from highway bridge at Evergreen Mills, three-quarters of a mile downstream from Little River, and 7 miles south of Leesburg, Loudoun County. Datum of gage is 249.0 feet above mean sea level, unadjusted. Prior to Nov. 29, 1938, chain gage at highway bridge 400 feet downstream.

Drainage area.- 338 square miles.

Records available.- July 1909 to December 1912; January 1930 to September 1943.

Extremes.- Maximum discharge, 45,000 second-foot Aug. 26, 1937 and Oct. 16, 1942

(gage heights, 26.86 feet, site and datum then in use, and 22.9 feet, present datum, respectively), from rating curve extended above 8,000 second-foot by logarithmic plotting on basis of slope-area determination at gage height, 22.9 feet; minimum, 0.4 second-foot Sept. 29, 1941.

Maximum stage known, about 29 feet (former site and datum) in May or June 1889.

Monthly discharge of Goose Creek near Leesburg, Va.

Month	Discharge in second-foot				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1909						
July 12-31.....	95	48	67.8	0.201	0.15	0.130
August.....	743	25	71.5	.212	.24	.137
September.....	130	27	63.5	.188	.21	.122
1909-10						
October.....	182	27	95.5	.283	.33	.183
November.....	210	102	163	.482	.54	.312
December.....	1,150	-	160	.473	.55	.306
January.....	2,490	-	439	1.30	1.50	.840
February.....	2,270	155	648	1.92	2.00	1.24
March.....	1,410	130	321	.950	1.10	.614
April.....	743	84	255	.754	.84	.487
May.....	225	73	130	.385	.44	.249
June.....	2,040	93	397	1.17	1.30	.766
July.....	391	42	130	.385	.44	.249
August.....	76	10	34.8	.103	.12	.067
September.....	36	2	14.6	.043	.05	.028
The year.....	2,490	2	229	.678	9.21	.438
1910-11						
October.....	210	1.6	27.5	.081	.09	.052
November.....	106	30	55.2	.164	.18	.106
December.....	336	-	89.7	.265	.30	.171
January.....	944	95	296	.876	1.01	.566
February.....	588	256	313	.926	.96	.598
March.....	646	168	341	1.01	1.16	.653
April.....	924	168	314	.929	1.04	.600
September.....	1,150	25	379	1.12	1.25	.724

Monthly discharge of Goose Creek near Leesburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1911-12						
October.....	1,150	84	219	0.648	0.75	0.419
November.....	743	130	428	1.27	1.42	.821
December.....	1,150	150	446	1.32	1.52	.853
January.....	944	256	465	1.38	1.59	.892
February.....	1,590	199	492	1.46	1.58	.944
March.....	2,040	477	849	2.51	2.89	1.62
April.....	1,070	405	600	1.78	1.99	1.15
May.....	1,820	513	859	2.54	2.93	1.64
June.....	944	441	642	1.90	2.12	1.23
July.....	665	84	292	.864	1.00	.558
August.....	743	57	331	.979	1.13	.633
September.....	7,000	7	748	2.21	2.47	1.43
The year.....	7,000	7	530	1.57	21.39	1.01
1912						
October.....	704	142	254	.751	.87	.485
November.....	155	130	144	.426	.48	.275
December.....	3,160	130	304	.899	1.04	.581
1930						
January 21-31.....	214	178	198	.586	.24	.379
February.....	1,690	206	420	1.24	1.29	.801
March.....	3,300	206	450	1.33	1.53	.860
April.....	1,590	186	315	.932	1.04	.602
May.....	300	56	113	.354	.39	.216
June.....	126	16	48.3	.145	.16	.092
July.....	139	2.1	15.3	.045	.05	.029
August.....	2.2	1.5	1.86	.0055	.006	.0036
September.....	4.2	1.5	2.07	.0061	.007	.0039
1930-31						
October.....	2.7	1.5	2.12	.0063	.007	.0041
November.....	6.2	2.4	3.83	.011	.01	.0071
December.....	436	4.6	30.5	.090	.10	.058
January.....	700	7.0	49.8	.147	.17	.095
February.....	56	10	26.3	.078	.08	.050
March.....	348	24	85.6	.247	.28	.160
April.....	502	46	164	.485	.54	.313
May.....	392	46	116	.343	.40	.222
June.....	273	6.6	63.2	.187	.21	.121
July.....	370	2.6	49.0	.145	.17	.094
August.....	348	1.8	49.3	.146	.17	.094
September.....	269	2.0	23.7	.070	.08	.045
The year.....	700	1.5	55.2	.163	2.22	.105
1931-32						
October.....	54	2.2	6.16	.018	.02	.012
November.....	14	5.0	9.19	.027	.03	.018
December.....	52	13	23.1	.068	.08	.044
January.....	436	60	157	.464	.53	.300
February.....	1,400	85	238	.704	.76	.455
March.....	2,960	82	481	1.42	1.64	.918
April.....	2,200	178	486	1.44	1.61	.931
May.....	7,760	175	830	2.46	2.84	1.59
June.....	316	62	124	.367	.41	.237
July.....	382	15	70.6	.209	.24	.135
August.....	86	1.3	12.2	.036	.04	.023
September.....	470	1.2	27.9	.083	.09	.054
The year.....	7,760	1.2	206	.609	8.29	.394
1932-33						
October.....	1,230	2	202	.598	.69	.386
November.....	12,400	267	1,210	3.58	3.99	2.31
December.....	2,110	170	417	1.23	1.42	.795
January.....	7,310	284	795	2.55	2.71	1.52
February.....	1,950	368	544	1.61	1.68	1.04
March.....	1,740	280	500	1.48	1.71	.957
April.....	3,530	323	880	2.60	2.90	1.68
May.....	2,320	281	581	1.72	1.98	1.11
June.....	316	65	162	.479	.53	.310
July.....	2,210	26	181	.536	.62	.346
August.....	7,010	16	560	1.66	1.91	1.07
September.....	484	98	192	.568	.63	.367
The year.....	12,400	2	518	1.53	20.77	.989

Monthly discharge of Goose Creek near Leesburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933-34						
October.....	262	78	116	0.343	0.40	0.222
November.....	145	64	81.3	.241	.27	.156
December.....	197	50	79.7	.236	.27	.163
January.....	326	59	147	.435	.50	.281
February.....	145	40	65.6	.194	.20	.126
March.....	1,550	51	384	1.14	1.31	.737
April.....	668	200	384	1.14	1.27	.737
May.....	1,000	159	335	.991	1.14	.641
June.....	576	28	141	.417	.47	.270
July.....	1,290	8	95.9	.284	.33	.184
August.....	712	9	77.1	.228	.26	.147
September.....	1,740	8	239	.707	.78	.457
The year.....	1,740	8	179	.530	7.21	.343
1934-35						
October.....	345	55	127	.376	.43	.243
November.....	574	46	103	.305	.34	.197
December.....	4,930	145	480	1.42	1.64	.918
January.....	2,400	149	421	1.25	1.44	.808
February.....	3,030	249	892	2.61	2.72	1.69
March.....	1,440	326	575	1.70	1.96	1.10
April.....	3,510	382	828	2.45	2.73	1.58
May.....	3,020	173	455	1.35	1.56	.873
June.....	589	52	170	.503	.56	.325
July.....	81	6	35.3	.104	.12	.067
August.....	36	3	11.5	.034	.04	.022
September.....	1,250	3	154	.456	.51	.295
The year.....	4,930	3	350	1.04	14.05	.672
1935-36						
October.....	587	29	75.1	.222	.26	.143
November.....	994	88	307	.908	1.01	.587
December.....	1,040	140	265	.784	.90	.607
January.....	3,140	146	716	2.12	2.44	1.37
February.....	3,260	207	920	2.72	2.93	1.76
March.....	3,260	452	1,265	3.74	4.31	2.42
April.....	857	203	447	1.32	1.47	.853
May.....	281	74	148	.438	.50	.283
June.....	587	30	88.2	.261	.29	.169
July.....	294	13	35.7	.106	.12	.068
August.....	362	5.0	29.8	.088	.10	.067
September.....	17	2.1	6.23	.018	.02	.012
The year.....	3,260	2.1	357	1.06	14.35	.685
1936-37						
October.....	677	7.3	44.5	.132	.15	.085
November.....	16	3.2	7.67	.023	.03	.016
December.....	1,990	5.0	316	.935	1.08	.604
January.....	2,150	182	685	2.03	2.34	1.31
February.....	6,580	362	899	2.66	2.77	1.72
March.....	520	178	328	.970	1.12	.627
April.....	19,000	118	1,295	3.83	4.27	2.48
May.....	1,090	158	371	1.10	1.27	.711
June.....	812	85	199	.589	.66	.381
July.....	812	38	144	.426	.49	.275
August.....	24,000	21	1,188	3.51	4.05	2.27
September.....	632	68	182	.538	.60	.348
The year.....	24,000	3.2	469	1.39	18.83	.898
1937-38						
October.....	7,500	72	1,064	3.15	3.63	2.04
November.....	4,010	362	669	1.98	2.21	1.28
December.....	520	150	274	.811	.94	.524
January.....	857	123	262	.775	.89	.501
February.....	767	165	319	.944	.98	.610
March.....	767	219	359	1.06	1.22	.685
April.....	857	226	364	1.08	1.20	.698
May.....	299	118	173	.512	.59	.331
June.....	452	36	92.3	.273	.30	.176
July.....	362	20	52.6	.156	.18	.101
August.....	497	11	54.6	.162	.19	.105
September.....	149	5.4	17.0	.050	.06	.032
The year.....	7,500	5.4	308	.911	12.39	.589

Monthly discharge of Goose Creek near Leesburg, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	80	5.9	14.8	0.044	0.05	0.028
November.....	155	18	45.3	.134	.15	.087
December.....	2,220	91	352	1.04	1.20	.672
January.....	3,450	126	357	1.06	1.22	.685
February.....	2,570	367	1,015	3.00	3.12	1.94
March.....	1,570	254	516	1.53	1.76	.989
April.....	1,190	185	427	1.26	1.41	.814
May.....	511	98	220	.651	.75	.421
June.....	309	41	97.8	.269	.32	.187
July.....	350	18	95.0	.281	.32	.182
August.....	691	10	70.8	.209	.24	.135
September.....	473	5	29.6	.088	.10	.057
The year.....	3,450	5	265	.784	10.64	.507
1939-40						
October.....	626	8	53.3	.158	.18	.102
November.....	932	26	135	.399	.45	.258
December.....	276	23	53.1	.157	.18	.101
January.....	747	19	86.1	.255	.29	.165
February.....	3,000	42	444	1.31	1.42	.847
March.....	1,500	198	440	1.30	1.50	.840
April.....	2,960	187	775	2.29	2.56	1.48
May.....	2,170	169	436	1.29	1.49	.834
June.....	608	101	277	.820	.91	.530
July.....	596	25	115	.340	.39	.220
August.....	356	20	93.5	.277	.32	.179
September.....	417	14	82.5	.244	.27	.158
The year.....	3,000	8	247	.731	9.96	.472
1940-41						
October.....	434	32	99.5	.294	.34	.190
November.....	1,550	60	342	1.01	1.13	.653
December.....	1,220	129	338	1.00	1.15	.646
January.....	648	221	378	1.12	1.29	.724
February.....	400	170	260	.769	.80	.497
March.....	864	126	386	1.14	1.31	.737
April.....	2,750	183	514	1.52	1.70	.982
May.....	176	40	110	.325	.37	.210
June.....	347	14	82.5	.244	.27	.158
July.....	712	18	154	.456	.53	.295
August.....	74	4.8	20.6	.061	.07	.039
September.....	23	.4	6.58	.019	.02	.012
The year.....	2,750	.4	224	.663	8.98	.429
1941-42						
October.....	7	.8	2.54	.0075	.009	.0048
November.....	37	6	15.4	.046	.05	.030
December.....	263	12	62.4	.185	.21	.120
January.....	199	15	58.6	.173	.20	.112
February.....	856	70	161	.476	.50	.308
March.....	1,540	70	372	1.10	1.27	.711
April.....	971	104	266	.787	.88	.509
May.....	1,680	72	320	.947	1.09	.612
June.....	541	73	155	.459	.51	.297
July.....	553	31	102	.302	.35	.195
August.....	2,580	58	422	1.25	1.44	.808
September.....	1,660	61	225	.666	.74	.430
The year.....	2,580	.8	181	.536	7.25	.346
1942-43						
October.....	26,100	110	2,265	6.70	7.72	4.33
November.....	850	263	415	1.23	1.37	.795
December.....	3,820	132	449	1.33	1.53	.860
January.....	1,180	228	415	1.23	1.42	.795
February.....	1,710	302	697	2.06	2.14	1.33
March.....	1,310	192	670	1.98	2.28	1.28
April.....	2,320	221	538	1.59	1.77	1.03
May.....	646	207	305	.902	1.04	.583
June.....	270	72	154	.456	.51	.295
July.....	243	26	67.4	.199	.23	.129
August.....	50	11	15.7	.046	.05	.030
September.....	78	3.7	12.5	.037	.04	.024
The year.....	26,100	3.7	501	1.48	20.10	.957

Yearly discharge of Goose Creek near Leesburg, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1910.....	229	0.678	9.21	0.438	209	0.618	8.36	0.399
1912.....	530	1.57	21.39	1.01	498	1.47	20.09	.950
1931.....	55.2	.163	2.22	.105	55.4	.164	2.23	.106
1932.....	206	.609	8.29	.394	354	1.05	14.26	.679
1933.....	518	1.53	20.77	.989	389	1.15	15.61	.743
1934.....	179	.530	7.21	.343	216	.639	8.68	.413
1935.....	350	1.04	14.05	.672	344	1.02	13.82	.659
1936.....	357	1.06	14.35	.685	334	.988	13.44	.639
1937.....	469	1.39	18.83	.898	606	1.79	24.35	1.16
1938.....	308	.911	12.39	.589	175	.518	7.01	.335
1939.....	265	.784	10.64	.507	250	.740	10.05	.478
1940.....	247	.731	9.96	.472	292	.864	11.77	.558
1941.....	224	.663	8.98	.429	165	.488	6.63	.315
1942.....	181	.536	7.25	.346	438	1.30	17.60	.840
1943.....	501	1.48	20.10	.957	-	-	-	-
Highest....	530	1.57	21.39	1.01	606	1.79	24.35	1.16
Average....	308	.911	12.38	.589	309	.914	12.42	.591
Lowest....	55.2	.163	2.22	.105	55.4	.164	2.23	.106

Great Seneca Creek near Gaithersburg, Md.

Location.- Chain gage, lat. 39°10'01", long. 77°13'37", at highway bridge 0.1 mile downstream from Whetstone Run and 2 miles northwest of Gaithersburg, Montgomery County. Datum of gage is 305.37 feet above mean sea level (Washington Suburban Sanitary Commission bench mark).

Drainage area.- 41.0 square miles.

Records available.- March 1925 to January 1931.

Extremes.- Maximum discharge, about 800 second-feet Nov. 16, 1926 (gage height, 8.80 feet), from rating curve extended above 450 second-feet; minimum, 1.3 second-feet Sept. 28, 1930 (gage height, 0.94 foot).

Monthly discharge of Great Seneca Creek near Gaithersburg, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1925						
March 19-31.....	85	36	43.5	1.06	0.51	0.685
April.....	48	25	31.6	.771	.86	.498
May.....	35	18.5	24.4	.595	.69	.385
June.....	36	11.5	15.9	.388	.43	.251
July.....	112	9.5	22.7	.554	.64	.358
August.....	51	9.5	14.8	.361	.42	.233
September.....	73	8.5	14.3	.348	.39	.225
1925-26						
October.....	120	12	26.2	.639	.74	.413
November.....	99	26	37.2	.907	1.01	.556
December.....	50	-	27.9	.690	.78	.459
January.....	295	19.5	44.2	1.08	1.24	.698
February.....	251	-	65.9	1.61	1.68	1.04
March.....	52	27	34.5	.841	.97	.544
April.....	44	20.5	27.6	.673	.75	.435
May.....	42	15	19.4	.473	.55	.306
June.....	31	8.0	13.9	.339	.38	.219
July.....	164	7.6	18.3	.446	.51	.288
August.....	106	5.7	21.9	.534	.62	.345
September.....	494	11	45.8	1.12	1.25	.724
The year.....	494	5.7	31.6	.771	10.48	.498

Monthly discharge of Greet Seneca Creek near Gaithersburg, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Meen	Per square mile		
1926-27						
October.....	134	21	33.7	0.822	0.95	0.531
November.....	598	23	63.2	1.54	1.72	.995
December.....	127	-	53.5	1.30	1.50	.840
January.....	93	-	43.9	1.07	1.23	.692
February.....	141	42	65.9	1.61	1.68	1.04
March.....	64	40	49.4	1.20	1.38	.776
April.....	300	40	65.2	1.59	1.77	1.03
May.....	72	40	50.6	1.23	1.42	.795
June.....	87	26	37.7	.920	1.03	.595
July.....	32	17	22.3	.544	.63	.352
August.....	72	16	23.6	.576	.66	.372
September.....	61	14	17.3	.422	.47	.273
The year.....	598	14	43.7	1.07	14.44	.692
1927-28						
October.....	165	13	36.0	.978	1.01	.567
November.....	102	24	31.8	.776	.87	.502
December.....	170	26	50.4	1.23	1.42	.795
January.....	66	-	32.1	.783	.90	.506
February.....	190	-	60.9	1.40	1.61	.963
March.....	107	34	49.1	1.20	1.38	.776
April.....	242	31	54.2	1.32	1.47	.853
May.....	90	29	43.9	1.07	1.23	.692
June.....	330	16	81.0	1.98	2.21	1.28
July.....	59	26	39.4	.961	1.11	.621
August.....	299	23	58.4	1.42	1.64	.918
September.....	106	26	39.6	.966	1.08	.624
The year.....	330	13	48.0	1.17	15.93	.756
1928-29						
October.....	37	27	29.6	.722	.83	.467
November.....	63	24	28.5	.695	.78	.449
December.....	60	-	27.3	.666	.77	.430
January.....	97	-	34.1	.832	.96	.538
February.....	261	-	51.0	1.24	1.29	.801
March.....	162	37	66.7	1.63	1.88	1.05
April.....	258	34	66.0	1.61	1.80	1.04
May.....	109	31	48.5	1.18	1.36	.763
June.....	184	20	33.0	.805	.90	.520
July.....	34	14	24.3	.593	.68	.383
August.....	22	9	13.9	.339	.39	.219
September.....	24	4	10.5	.256	.29	.165
The year.....	261	4	36.0	.878	11.93	.567
1929-30						
October.....	350	14	38.0	.927	1.07	.599
November.....	60	18	27.5	.671	.75	.434
December.....	34	-	22.5	.549	.63	.355
January.....	35	-	21.4	.522	.60	.337
February.....	104	18	42.4	1.03	1.07	.666
March.....	122	20	34.7	.846	.98	.547
April.....	149	24	45.9	1.12	1.25	.724
May.....	33	17	23.9	.583	.67	.377
June.....	27	7.4	13.3	.324	.36	.209
July.....	10	2.6	5.11	.125	.14	.088
August.....	4.4	1.8	2.75	.067	.08	.043
September.....	3.2	1.3	2.03	.050	.06	.032
The year.....	350	1.3	23.1	.563	7.66	.364
1930-31						
October.....	5.4	1.4	2.70	.066	.08	.043
November.....	11	4.8	6.34	.155	.17	.100
December.....	130	-	10.3	.251	.29	.162
January 1-13.....	35	7.4	12.3	.300	.15	.194

Yearly discharge of Great Seneca Creek near Gaithersburg, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1926.....	31.6	0.771	10.48	0.498	36.6	0.893	12.12	0.577
1927.....	43.7	1.07	14.44	.692	41.0	1.00	13.57	.646
1928.....	48.0	1.17	15.93	.756	45.2	1.10	15.01	.711
1929.....	36.0	.878	11.93	.567	36.2	.883	12.00	.571
1930.....	23.1	.563	7.66	.364	17.4	.424	5.75	.274

Seneca Creek at Dawsonville, Md.

Location.- Water-stage recorder, lat. 39°07'41", long. 77°20'13", 60 feet downstream from highway bridge, 150 feet downstream from confluence of Great Seneca and Little Seneca Creeks, and half a mile east of Dawsonville, Montgomery County. Datum of gage is 214.15 feet above mean sea level, adjustment of 1912.

Drainage area.- 101 square miles.

Records available.- October 1930 to September 1943.

Extremes.- Maximum discharge, 6,500 second-feet Aug. 24, 1933 (gage height, 10.3 feet), from rating curve extended above 2,000 second-feet on basis of velocity-area studies; minimum, 1.9 second-feet Oct. 1, 1930 (gage height, 0.57 foot).

Monthly discharge of Seneca Creek at Dawsonville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1930-31						
October.....	12	1.9	7.10	0.070	0.08	0.045
November.....	21	11	15.7	.155	.17	.100
December.....	347	-	30.5	.302	.35	.195
January.....	174	15	34.6	.343	.40	.222
February.....	54	20	26.7	.264	.27	.171
March.....	292	25	44.3	.439	.51	.284
April.....	224	26	57.5	.569	.63	.368
May.....	124	20	30.3	.300	.35	.194
June.....	268	11	44.4	.440	.49	.284
July.....	483	11	56.1	.555	.64	.359
August.....	219	8.4	35.3	.350	.40	.226
September.....	84	3.1	10.1	.100	.11	.065
The year.....	483	1.9	32.8	.325	4.40	.210
1931-32						
October.....	91	3.8	9.64	.095	.11	.061
November.....	16	8.4	12.6	.125	.14	.081
December.....	53	11	20.6	.204	.24	.132
January.....	154	23	58.9	.583	.67	.377
February.....	437	29	61.6	.610	.66	.394
March.....	830	28	109	1.08	1.24	.698
April.....	454	43	100	.990	1.10	.640
May.....	500	45	97.5	.965	1.11	.624
June.....	118	22	40.3	.399	.45	.258
July.....	106	7.4	21.1	.209	.24	.135
August.....	25	3.2	8.35	.083	.10	.054
September.....	94	2.9	12.2	.121	.14	.078
The year.....	830	2.9	46.0	.455	6.20	.294
1932-33						
October.....	767	6.2	93.9	.930	1.07	.601
November.....	983	64	158	1.56	1.74	1.01
December.....	496	45	95.6	.946	1.09	.611
January.....	494	66	108	1.07	1.23	.692
February.....	451	80	128	1.27	1.32	.821
March.....	421	72	138	1.37	1.58	.885
April.....	645	106	199	1.97	2.20	1.27
May.....	694	108	215	2.13	2.46	1.38
June.....	451	63	105	1.04	1.16	.672
July.....	1,950	46	155	1.53	1.76	.989
August.....	2,420	36	195	1.93	2.22	1.25
September.....	200	58	81.5	.807	.90	.522
The year.....	2,420	6.2	140	1.39	18.73	.898

Monthly discharge of Seneca Creek at Dawsonville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933-34						
October.....	133	53	64.3	0.637	0.73	0.412
November.....	88	44	50.3	.498	.56	.322
December.....	104	44	54.0	.535	.62	.346
January.....	222	45	88.2	.873	1.01	.564
February.....	180	45	56.6	.560	.58	.362
March.....	1,210	50	198	1.96	2.26	1.27
April.....	296	73	122	1.21	1.35	.782
May.....	361	65	107	1.06	1.22	.685
June.....	275	41	74.9	.742	.83	.480
July.....	237	23	38.5	.381	.44	.246
August.....	116	18	32.6	.323	.37	.209
September.....	1,080	21	161	1.59	1.77	1.03
The year.....	1,210	18	87.3	.864	11.74	.558
1934-35						
October.....	174	52	73.8	.731	.84	.472
November.....	185	48	61.6	.610	.68	.394
December.....	797	65	120	1.19	1.37	.769
January.....	436	73	121	1.20	1.38	.776
February.....	588	80	205	2.03	2.11	1.31
March.....	510	120	178	1.76	2.03	1.14
April.....	970	115	204	2.02	2.25	1.31
May.....	989	88	159	1.57	1.81	1.01
June.....	310	56	85.4	.846	.94	.547
July.....	73	33	47.1	.466	.54	.301
August.....	37	20	27.9	.276	.32	.178
September.....	699	20	95.7	.948	1.06	.613
The year.....	989	20	114	1.13	15.33	.730
1935-36						
October.....	210	40	55.0	.545	.63	.362
November.....	308	51	96.4	.954	1.06	.617
December.....	157	60	81.7	.809	.93	.523
January.....	1,370	69	225	2.23	2.57	1.44
February.....	1,240	67	307	3.04	3.28	1.96
March.....	708	118	232	2.30	2.65	1.49
April.....	305	98	147	1.46	1.63	.944
May.....	160	58	84.7	.839	.97	.542
June.....	253	43	70.8	.701	.78	.453
July.....	146	30	49.3	.488	.56	.315
August.....	556	22	75.5	.748	.86	.483
September.....	52	25	32.1	.318	.35	.206
The year.....	1,370	22	121	1.20	16.27	.776
1936-37						
October.....	126	30	41.6	.412	.48	.266
November.....	49	29	34.0	.337	.38	.218
December.....	642	28	120	1.19	1.37	.769
January.....	616	88	194	1.92	2.21	1.24
February.....	677	132	202	2.00	2.08	1.29
March.....	174	98	125	1.24	1.43	.801
April.....	1,400	75	191	1.89	2.11	1.22
May.....	252	82	128	1.27	1.46	.821
June.....	1,070	65	157	1.55	1.73	1.00
July.....	175	43	67.7	.670	.77	.433
August.....	1,210	35	169	1.67	1.92	1.08
September.....	343	46	74.7	.740	.83	.478
The year.....	1,400	28	125	1.24	16.77	.801
1937-38						
October.....	1,630	46	214	2.12	2.44	1.37
November.....	1,290	100	175	1.73	1.93	1.12
December.....	157	86	102	1.01	1.16	.653
January.....	210	77	104	1.03	1.19	.666
February.....	390	80	120	1.19	1.24	.769
March.....	251	86	111	1.10	1.27	.711
April.....	196	71	101	1.00	1.12	.646
May.....	120	58	73.3	.726	.84	.469
June.....	110	38	53.8	.533	.69	.344
July.....	232	24	57.9	.573	.66	.370
August.....	437	26	67.5	.668	.77	.432
September.....	179	26	58.9	.583	.65	.377
The year.....	1,630	24	103	1.02	13.96	.659

Monthly discharge of Seneca Creek at Dawsonville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallone per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	52	32	37.0	0.366	0.42	0.237
November.....	102	35	48.4	.479	.53	.310
December.....	356	54	91.5	.906	1.04	.686
January.....	1,400	50	120	1.19	1.37	.769
February.....	760	123	261	2.53	2.69	1.67
March.....	381	115	175	1.73	1.99	1.12
April.....	500	105	158	1.56	1.74	1.01
May.....	150	58	96.2	.952	1.10	.615
June.....	443	52	84.5	.937	.93	.541
July.....	80	34	43.1	.427	.49	.276
August.....	224	20	33.1	.328	.38	.212
September.....	176	18	31.4	.311	.35	.201
The year.....	1,400	18	97.1	.961	13.03	.621
1939-40						
October.....	332	24	44.5	.441	.51	.285
November.....	172	35	50.6	.501	.86	.324
December.....	120	33	42.5	.421	.49	.272
January.....	500	32	57.7	.571	.66	.369
February.....	457	34	103	1.02	1.10	.659
March.....	412	64	119	1.18	1.36	.763
April.....	931	56	194	1.92	2.14	1.24
May.....	210	73	108	1.07	1.23	.692
June.....	128	40	60.4	.698	.67	.386
July.....	333	26	54.6	.541	.62	.350
August.....	119	22	38.1	.377	.45	.244
September.....	111	21	35.8	.354	.40	.229
The year.....	931	21	75.4	.747	10.17	.483
1940-41						
October.....	102	28	35.4	.350	.40	.226
November.....	540	35	105	1.04	1.16	.672
December.....	153	53	79.0	.782	.90	.505
January.....	180	55	93.3	.924	1.06	.597
February.....	166	60	86.9	.860	.90	.556
March.....	207	58	99.7	.987	1.14	.638
April.....	659	66	124	1.23	1.37	.795
May.....	64	32	48.5	.480	.55	.310
June.....	322	31	61.2	.606	.68	.392
July.....	188	22	45.1	.447	.51	.289
August.....	126	14	25.9	.256	.30	.165
September.....	66	7.5	13.9	.138	.15	.089
The year.....	659	7.5	67.9	.672	9.12	.434
1941-42						
October.....	18	6.6	11.0	.109	.13	.070
November.....	41	15	18.4	.182	.20	.118
December.....	163	18	37.3	.369	.43	.238
January.....	117	23	35.2	.349	.40	.226
February.....	208	31	51.7	.512	.53	.331
March.....	284	31	69.7	.690	.80	.446
April.....	411	44	103	1.02	1.14	.659
May.....	707	34	81.9	.811	.93	.524
June.....	116	26	44.2	.438	.49	.283
July.....	727	21	57.3	.567	.65	.366
August.....	612	25	118	1.17	1.34	.756
September.....	532	22	57.9	.573	.64	.370
The year.....	727	6.6	57.2	.566	7.68	.366
1942-43						
October.....	1,900	34	230	2.28	2.63	1.47
November.....	162	75	99.3	.983	1.10	.635
December.....	1,210	60	149	1.48	1.70	.957
January.....	223	90	112	1.11	1.28	.717
February.....	502	109	185	1.83	1.91	1.18
March.....	313	94	168	1.66	1.92	1.07
April.....	300	99	130	1.29	1.44	.834
May.....	293	73	103	1.02	1.17	.659
June.....	139	42	65.4	.648	.72	.419
July.....	150	23	38.9	.385	.44	.249
August.....	22	12	16.2	.160	.19	.103
September.....	159	13	29.3	.290	.32	.187
The year.....	1,900	12	110	1.09	14.82	.704

Yearly discharge of Seneca Creek at Dawsonville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1931.....	32.8	0.325	4.40	0.210	31.9	0.316	4.29	0.204
1932.....	46.0	.455	6.20	.294	71.4	.707	9.61	.457
1933.....	140	1.39	18.73	.898	125	1.24	16.74	.801
1934.....	87.3	.864	11.74	.558	94.6	.937	12.72	.606
1935.....	114	1.13	15.33	.730	112	1.11	15.06	.717
1936.....	121	1.20	16.27	.776	118	1.17	15.88	.756
1937.....	125	1.24	16.77	.801	150	1.49	20.07	.963
1938.....	103	1.02	13.86	.659	76.8	.760	10.32	.491
1939.....	97.1	.961	13.03	.621	93.8	.929	12.60	.600
1940.....	75.4	.747	10.17	.483	82.2	.814	11.07	.526
1941.....	67.9	.672	9.12	.434	55.2	.547	7.42	.354
1942.....	57.2	.566	7.68	.366	91.9	.910	12.35	.588
1943.....	110	1.09	14.82	.704	-	-	-	-
Highest.....	140	1.39	18.73	.898	150	1.49	20.07	.963
Average.....	90.5	.896	12.16	.579	91.9	.910	12.34	.588
Lowest.....	32.8	.325	4.40	.210	31.9	.316	4.29	.204

Difficult Run near Great Falls, Va.

Location.- Water-stage recorder, lat. 38°58'33", long. 77°14'46", 300 feet downstream from Rocky Run, and 1½ miles southeast of Great Falls, Fairfax County. Datum of gage is 151.4 feet above mean sea level (unadjusted).

Drainage area.- 58 square miles.

Records available.- December 1934 to September 1943.

Extremes.- Maximum discharge, 2,890 second-feet June 13, 1936, Oct. 28, 1937 (gage height, 10.6 feet), from rating curve extended above 1,100 second-feet by logarithmic plotting; minimum, 3.4 second-feet sometime in October 1941 (gage height, 2.21 feet).

Monthly discharge of Difficult Run near Great Falls, Va.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1935						
January.....	610	48	106	1.83	2.11	1.18
February.....	280	50	115	1.98	2.06	1.28
March.....	396	71	108	1.86	2.14	1.20
April.....	514	67	124	2.14	2.39	1.38
May.....	244	47	75.1	1.29	1.49	.834
June.....	126	33	52.5	.905	1.01	.585
July.....	32	16	24.5	.422	.49	.273
August.....	27	11	15.1	.260	.30	.168
September.....	478	11	59.3	1.02	1.14	.659
1935-36						
October.....	157	20	31.9	.550	.63	.355
November.....	288	29	60.9	1.05	1.17	.679
December.....	101	36	49.3	.833	.96	.538
January.....	777	41	129	2.22	2.56	1.45
February.....	586	40	163	2.51	3.03	1.82
March.....	598	74	148	2.55	2.94	1.65
April.....	182	58	84.7	1.46	1.63	.944
May.....	262	38	65.0	1.12	1.29	.724
June.....	440	27	69.9	1.19	1.33	.769
July.....	175	21	36.4	.628	.72	.406
August.....	271	15	35.1	.605	.70	.391
September.....	25	14	16.8	.290	.32	.187
The year.....	777	14	73.7	1.27	17.28	.821

Monthly discharge of Difficult Run near Great Falls, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	109	17	25.7	0.443	0.51	0.286
November.....	31	20	21.7	.374	.42	.242
December.....	276	20	69.2	1.19	1.37	.769
January.....	584	49	147	2.53	2.92	1.64
February.....	535	71	122	2.10	2.19	1.36
March.....	148	58	77.5	1.34	1.54	.866
April.....	1,160	50	126	2.17	2.42	1.40
May.....	148	49	76.2	1.31	1.51	.847
June.....	101	32	49.6	.855	.95	.553
July.....	204	23	48.6	.838	.97	.542
August.....	661	15	72.3	1.25	1.44	.808
September.....	239	24	42.5	.733	.82	.474
The year.....	1,160	15	72.9	1.26	17.06	.814
1937-38						
October.....	1,020	26	154	2.66	3.07	1.72
November.....	980	50	103	1.78	1.99	1.15
December.....	85	45	58.7	1.01	1.16	.653
January.....	181	51	72.4	1.25	1.44	.808
February.....	194	46	74.6	1.29	1.34	.834
March.....	116	54	69.4	1.20	1.38	.776
April.....	120	45	62.0	1.07	1.19	.692
May.....	80	34	45.9	.791	.91	.511
June.....	71	21	29.9	.516	.58	.333
July.....	101	15	25.2	.486	.56	.314
August.....	110	11	25.6	.407	.47	.263
September.....	68	10	15.8	.272	.30	.176
The year.....	1,020	10	61.4	1.06	14.39	.685
1938-39						
October.....	20	14	14.9	.257	.30	.166
November.....	62	15	21.9	.378	.42	.244
December.....	169	24	45.8	.790	.91	.511
January.....	735	24	60.6	1.04	1.20	.672
February.....	384	48	111	1.91	1.99	1.23
March.....	174	44	67.9	1.17	1.35	.756
April.....	150	43	68.4	1.18	1.32	.763
May.....	67	22	38.4	.662	.76	.428
June.....	68	16	24.5	.422	.47	.273
July.....	39	11	17.0	.293	.34	.189
August.....	212	8	18.4	.317	.37	.205
September.....	268	10	25.7	.443	.49	.286
The year.....	735	8	42.4	.731	9.92	.472
1939-40						
October.....	276	14	29.7	.512	.59	.331
November.....	215	18	36.4	.628	.70	.406
December.....	69	17	23.8	.410	.47	.265
January.....	158	14	26.2	.452	.52	.292
February.....	323	16	60.2	1.04	1.12	.672
March.....	288	33	62.4	1.08	1.24	.698
April.....	685	29	106	1.93	2.04	1.18
May.....	107	28	39.5	.681	.78	.440
June.....	34	15	20.0	.345	.39	.223
July.....	77	11	17.6	.303	.35	.196
August.....	55	8	15.9	.274	.32	.177
September.....	103	8	16.6	.286	.32	.185
The year.....	685	8	37.7	.650	8.84	.420
1940-41						
October.....	57	11	16.9	.291	.34	.188
November.....	332	16	66.2	1.14	1.27	.737
December.....	89	30	44.4	.766	.88	.495
January.....	159	33	60.8	1.05	1.21	.679
February.....	70	35	45.5	.784	.82	.507
March.....	161	36	62.8	1.08	1.25	.698
April.....	425	36	69.4	1.20	1.34	.776
May.....	35	18	27.7	.478	.55	.309
June.....	118	18	32.3	.557	.62	.360
July.....	297	12	46.9	.809	.93	.523
August.....	39	7.0	12.0	.207	.24	.134
September.....	12	3.7	5.88	.101	.11	.065
The year.....	425	3.7	40.8	.703	9.56	.454

Monthly discharge of Difficult Run near Great Falls, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	6.0	3.7	4.69	0.081	0.09	0.052
November.....	12	6.4	7.75	.134	.15	.087
December.....	118	7.2	20.7	.411	.47	.266
January.....	120	9.0	24.1	.416	.48	.269
February.....	148	18	32.4	.559	.58	.361
March.....	400	18	60.4	1.04	1.20	.672
April.....	226	22	42.1	.726	.81	.469
May.....	182	17	31.5	.543	.63	.351
June.....	158	11	21.1	.364	.41	.235
July.....	158	11	18.4	.317	.37	.205
August.....	392	14	50.9	.878	1.01	.567
September.....	139	13	28.2	.486	.54	.314
The year.....	400	3.7	28.5	.491	6.74	.317
1942-43						
October.....	1,400	15	150	2.59	2.99	1.67
November.....	68	38	45.5	.784	.87	.507
December.....	634	27	70.6	1.22	1.41	.789
January.....	88	44	53.3	.919	1.06	.594
February.....	247	39	91.8	1.58	1.64	1.02
March.....	169	25	81.5	1.41	1.63	.911
April.....	262	51	79.5	1.37	1.53	.885
May.....	357	48	93.6	1.61	1.86	1.04
June.....	204	31	55.6	.959	1.07	.620
July.....	148	17	35.5	.612	.71	.396
August.....	20	6.4	10.4	.179	.21	.116
September.....	147	8.0	16.1	.278	.31	.180
The year.....	1,400	6.4	65.2	1.12	15.29	.724

Yearly discharge of Difficult Run near Great Falls, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1935.....	-	-	-	-	67.9	1.17	15.89	0.756
1936.....	73.7	1.27	17.28	0.821	71.7	1.24	16.82	.801
1937.....	72.9	1.26	17.06	.814	89.5	1.54	20.98	.995
1938.....	61.4	1.06	14.39	.685	41.9	.722	9.80	.467
1939.....	42.4	.731	9.92	.472	43.0	.741	10.05	.479
1940.....	37.7	.650	8.84	.420	40.8	.703	9.57	.454
1941.....	40.8	.703	9.56	.454	33.0	.568	7.78	.367
1942.....	28.5	.491	6.74	.317	48.2	.831	11.30	.537
1943.....	65.2	1.12	15.29	.724	-	-	-	-

Rock Creek at Sherrill Drive, Washington, D. C.

Location.-- Water-stage recorder, lat. 38°58'21", long. 77°02'25", 600 feet downstream from Sherrill Drive bridge in Rock Creek Park in Washington and 7½ miles upstream from mouth. Datum of gage is 148.99 feet above mean sea level, adjustment of 1912.

Drainage area.-- 62.2 square miles.

Records available.-- October 1929 to September 1943.

Extremes.-- Maximum discharge, 4,460 second-feet Aug. 24, 1933 (gage height, 11.6 feet), from rating curve extended above 3,200 second-feet; minimum, 0.5 second-foot Oct. 1-7, 1930 (gage height, 1.04 feet).

Monthly discharge of Rock Creek at Sherrill Drive, Washington, D. C.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1929-30						
October.....	-	-	38.7	0.622	0.72	0.402
November.....	85	22	33.2	.534	.60	.345
December.....	64	-	34.1	.548	.63	.354
January.....	62	-	34.2	.550	.63	.355
February.....	284	35	73.8	1.19	1.24	.769
March.....	582	40	72.5	1.17	1.35	.756
April.....	722	40	81.8	1.32	1.47	.853
May.....	57	25	33.0	.531	.61	.343
June.....	57	12	21.7	.349	.39	.226
July.....	13	2.7	7.09	.114	.13	.074
August.....	2.3	1.1	1.72	.028	.03	.018
September.....	8.5	.7	2.04	.033	.04	.021
The year.....	-	.7	35.9	.577	7.84	.373
1930-31						
October.....	10	.5	2.63	.042	.05	.027
November.....	9.4	2.7	5.57	.090	.10	.058
December.....	41	5.1	8.75	.141	.16	.091
January.....	42	6.3	11.8	.190	.22	.123
February.....	24	7.7	11.9	.191	.20	.123
March.....	118	13	23.4	.376	.43	.243
April.....	104	18	31.4	.505	.56	.326
May.....	122	13	26.5	.426	.49	.275
June.....	89	5.7	21.7	.349	.39	.226
July.....	367	5.7	25.7	.413	.48	.267
August.....	73	4.6	18.3	.294	.34	.190
September.....	8.5	2.7	4.83	.078	.09	.050
The year.....	367	.5	16.1	.259	3.51	.167
1931-32						
October.....	28	2.0	5.25	.084	.10	.054
November.....	10	2.7	4.57	.073	.08	.047
December.....	25	6.3	10.8	.174	.20	.112
January.....	110	18	36.7	.590	.68	.381
February.....	187	22	36.6	.588	.63	.380
March.....	594	19	64.4	1.04	1.20	.672
April.....	194	31	51.5	.828	.92	.535
May.....	580	28	73.6	1.18	1.36	.763
June.....	147	15	27.3	.439	.49	.284
July.....	44	4.6	13.4	.215	.25	.139
August.....	8.5	1.4	4.15	.067	.08	.043
September.....	67	.9	7.03	.113	.13	.073
The year.....	594	.9	28.0	.450	6.12	.291
1932-33						
October.....	419	2.7	56.8	.913	1.05	.590
November.....	363	35	98.8	1.59	1.77	1.03
December.....	373	27	59.8	.961	1.11	.621
January.....	412	45	71.9	1.16	1.34	.750
February.....	192	50	78.1	1.26	1.31	.814
March.....	288	49	82.5	1.33	1.53	.860
April.....	524	64	114	1.83	2.04	1.18
May.....	225	50	83.5	1.34	1.54	.866
June.....	241	28	52.8	.849	.95	.549
July.....	819	24	65.0	1.05	1.21	.679
August.....	2,430	17	131	2.11	2.43	1.36
September.....	131	28	39.3	.632	.70	.408
The year.....	2,430	2.7	77.9	1.25	16.98	.808
1933-34						
October.....	88	27	35.8	.576	.66	.372
November.....	47	26	30.7	.494	.55	.319
December.....	75	26	33.5	.539	.62	.348
January.....	154	29	52.0	.836	.96	.540
February.....	145	33	41.8	.672	.70	.434
March.....	879	46	122	1.96	2.26	1.27
April.....	221	52	82.2	1.32	1.47	.853
May.....	155	48	73.6	1.18	1.36	.763
June.....	191	25	41.4	.666	.74	.430
July.....	178	13	27.2	.437	.50	.282
August.....	122	10	24.5	.394	.45	.255
September.....	862	12	126	2.03	2.26	1.31
The year.....	879	10	57.5	.924	12.53	.597

Monthly discharge of Rock Creek at Sherrill Drive, Washington, D. C.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1934-35						
October.....	102	33	44.6	0.717	0.83	0.463
November.....	370	32	49.2	.791	.88	.511
December.....	572	46	83.8	1.35	1.56	.873
January.....	388	50	91.7	1.47	1.70	.950
February.....	372	57	138	2.22	2.31	1.43
March.....	430	80	119	1.91	2.20	1.23
April.....	818	75	148	2.38	2.66	1.54
May.....	930	53	111	1.78	2.05	1.15
June.....	238	32	54.3	.873	.97	.564
July.....	39	17	26.1	.420	.48	.271
August.....	20	8.2	13.8	.222	.26	.143
September.....	350	9.0	47.7	.767	.86	.496
The year.....	930	8.2	76.8	1.23	16.76	.795
1935-36						
October.....	217	18	29.1	.468	.54	.302
November.....	268	27	62.1	.998	1.11	.645
December.....	83	37	47.9	.770	.89	.498
January.....	774	44	144	2.32	2.68	1.50
February.....	779	42	184	2.96	3.19	1.91
March.....	569	73	155	2.49	2.87	1.61
April.....	200	62	90.1	1.45	1.62	.937
May.....	142	37	59.4	.955	1.10	.617
June.....	86	21	33.5	.539	.60	.348
July.....	70	14	23.9	.384	.44	.248
August.....	281	9.0	28.7	.461	.53	.298
September.....	22	9.8	13.9	.223	.25	.144
The year.....	779	9.0	72.3	1.16	15.82	.750
1936-37						
October.....	46	11	17.7	.285	.33	.184
November.....	22	14	16.4	.264	.29	.171
December.....	335	15	60.4	.971	1.12	.628
January.....	434	50	125	2.01	2.32	1.30
February.....	537	67	116	1.86	1.94	1.20
March.....	133	58	78.5	1.26	1.45	.814
April.....	1,360	53	156	2.51	2.80	1.62
May.....	117	52	78.3	1.26	1.45	.814
June.....	515	37	70.9	1.14	1.27	.737
July.....	133	23	39.1	.629	.73	.407
August.....	1,380	19	122	1.96	2.26	1.27
September.....	81	24	35.2	.566	.63	.366
The year.....	1,380	11	76.1	1.22	16.59	.789
1937-38						
October.....	1,430	26	144	2.32	2.68	1.50
November.....	1,270	52	124	1.99	2.22	1.29
December.....	83	51	60.3	.969	1.12	.626
January.....	138	48	66.8	1.07	1.23	.692
February.....	313	52	84.6	1.36	1.42	.879
March.....	136	63	76.9	1.24	1.43	.801
April.....	116	47	64.1	1.03	1.15	.666
May.....	104	36	47.4	.762	.88	.492
June.....	83	24	32.2	.518	.58	.335
July.....	128	14	27.5	.442	.51	.286
August.....	215	12	30.0	.462	.56	.312
September.....	94	12	24.5	.394	.44	.255
The year.....	1,430	12	65.1	1.05	14.22	.679
1938-39						
October.....	26	16	19.1	.307	.35	.198
November.....	42	18	22.6	.363	.40	.235
December.....	201	27	43.9	.706	.81	.456
January.....	696	22	62.8	1.01	1.16	.653
February.....	344	53	117	1.88	1.96	1.22
March.....	240	62	89.0	1.43	1.65	.924
April.....	402	53	98.1	1.58	1.76	1.02
May.....	89	33	50.9	.818	.94	.529
June.....	144	20	35.1	.564	.63	.365
July.....	137	17	29.1	.468	.54	.302
August.....	195	9.1	19.9	.320	.37	.207
September.....	178	7.5	20.3	.326	.36	.211
The year.....	696	7.5	50.2	.807	10.93	.522

Monthly discharge of Rock Craek at Sharrill Driva, Weshington, D. C.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	265	15	34.6	0.556	0.64	0.359
Novambar.....	120	20	29.2	.469	.52	.303
Decembar.....	62	19	24.7	.397	.46	.257
January.....	191	19	30.3	.487	.56	.315
February.....	416	20	69.6	1.12	1.21	.724
Merch.....	298	39	69.8	1.12	1.29	.724
April.....	750	38	119	1.91	2.13	1.23
May.....	117	41	57.6	.926	1.07	.598
June.....	44	18	27.4	.441	.49	.285
July.....	106	12	22.5	.362	.42	.234
August.....	90	9.5	17.3	.278	.32	.180
September.....	58	9.1	17.3	.278	.31	.180
The year.....	750	9.1	43.1	.693	9.42	.448
1940-41						
October.....	35	13	17.7	.285	.33	.184
November.....	370	18	60.1	.966	1.08	.624
Decambar.....	121	30	47.4	.762	.88	.492
January.....	188	35	61.5	.989	1.14	.639
February.....	111	35	50.0	.804	.84	.520
Merch.....	130	38	61.9	.995	1.15	.643
April.....	304	36	69.9	1.12	1.25	.724
May.....	36	18	28.4	.457	.53	.295
June.....	102	16	32.5	.523	.58	.338
July.....	144	13	27.1	.436	.50	.282
August.....	108	8.4	18.6	.299	.34	.193
September.....	15	2.8	6.01	.097	.11	.063
The year.....	370	2.8	40.0	.643	8.73	.416
1941-42						
October.....	10	2.1	5.29	.085	.10	.055
November.....	18	6.4	8.63	.139	.15	.090
December.....	92	8.4	19.1	.307	.35	.198
January.....	44	11	18.0	.289	.33	.187
February.....	160	14	30.6	.492	.51	.318
March.....	167	20	48.0	.772	.89	.499
April.....	252	26	59.9	.963	1.07	.622
May.....	122	20	32.0	.514	.59	.332
June.....	108	11	23.2	.373	.42	.241
July.....	63	7.8	18.5	.297	.34	.192
August.....	249	11	36.2	.582	.67	.376
September.....	47	5.7	12.4	.199	.22	.129
The year.....	252	2.1	26.0	.418	5.64	.270
1942-43						
October.....	1,800	7.8	121	1.95	2.24	1.26
November.....	54	30	37.4	.601	.67	.388
December.....	547	26	63.5	1.02	1.18	.659
January.....	88	35	48.6	.791	.90	.505
February.....	235	49	91.4	1.47	1.53	.950
March.....	207	41	90.5	1.45	1.68	.937
April.....	266	50	75.4	1.21	1.35	.782
May.....	480	46	75.8	1.22	1.41	.789
June.....	230	24	47.3	.760	.85	.491
July.....	77	13	23.2	.373	.43	.241
August.....	12	4.5	7.32	.118	.14	.076
September.....	191	4.5	18.7	.301	.34	.195
The year.....	1,800	4.5	58.2	.936	12.72	.605

Yeerly discharge of Rock Creek at Sherrill Drive, Washington, D. C.

Year	Year ending Sapt. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1930.....	35.9	0.577	7.84	0.373	28.4	0.457	6.20	0.295
1931.....	16.1	.259	3.51	.167	16.4	.264	3.58	.171
1932.....	28.0	.450	6.12	.291	44.2	.711	9.67	.460
1933.....	77.9	1.25	16.98	.808	68.2	1.10	14.88	.711
1934.....	57.5	.924	12.53	.597	64.1	1.03	13.97	.666

Yearly discharge of Rock Creek et Sherrill Drive, Washington, D. C.--Continued

Year	Year ending Sept. 30				Celender year			
	Discharge in second-feet		Runoff in inches	Discharge in million gellons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gellons per day per square mile
	Mean	Per square mile			Meen	Per square mile		
1935.....	76.8	1.23	16.76	0.795	73.5	1.18	16.03	0.763
1936.....	72.3	1.16	15.82	.750	68.6	1.10	15.02	.711
1937.....	76.1	1.22	16.59	.789	95.7	1.54	20.87	.995
1938.....	65.1	1.05	14.22	.679	44.8	.720	9.76	.465
1939.....	50.2	.807	10.93	.522	50.4	.810	10.99	.524
1940.....	43.1	.693	9.42	.448	46.1	.741	10.09	.479
1941.....	40.0	.643	8.73	.416	32.3	.519	7.04	.335
1942.....	26.0	.418	5.64	.270	41.9	.674	9.13	.436
1943.....	58.2	.936	12.72	.605	-	-	-	-
Highest....	77.9	1.25	16.98	.808	95.7	1.54	20.87	.995
Average....	51.7	.831	11.27	.537	51.9	.834	11.33	.539
Lowest....	16.1	.259	3.51	.167	16.4	.264	3.58	.171

Rock Creek et Q Street, Washington, D. C.

(Rock Creek et Lyon's Mill, D. C.)

Location.-- Water-stage recorder, lat. 38°54'40", long. 77°03'06", 100 feet upstream from Q Street bridge and 1.1 miles upstream from mouth. Prior to October 1929, water-stage recorder at Lyon's Mill Road bridge 1,000 feet upstream at different datum.

Drainage area.-- 75.8 square miles.

Records available.-- August 1892 to December 1894, October 1929 to September 1933.

Extremes.-- Maximum discharge, 4,560 second-feet Aug. 24, 1933 (gage height, 14.0 feet), from rating curve extended above 800 second-feet; minimum, 1.0 second-foot Sept. 7, 1930 (gage height, 1.65 feet).

Monthly discharge of Rock Creek at Q Street, Washington, D. C.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gellons per day per square mile
	Maximum	Minimum	Meen	Per square mile		
1892						
August 18-31.....	29	23	26.4	0.348	0.13	0.225
September.....	137	21	32.8	.433	.48	.280
1892-93						
October.....	29	21	23.7	.313	.36	.202
November.....	102	22	35.4	.467	.52	.302
December.....	137	27	44.5	.587	.68	.379
January.....	236	29	65.7	.867	1.00	.560
February.....	390	37	94.0	1.24	1.29	.801
Merch.....	265	58	88.5	1.17	1.35	.756
April.....	124	44	65.9	.869	.97	.562
May.....	980	58	107	1.41	1.63	.911
June.....	133	31	46.0	.607	.68	.392
July.....	436	20	53.0	.699	.81	.452
August.....	261	8	22.0	.290	.33	.187
September.....	89	10	19.8	.261	.29	.169
The year.....	980	8	55.3	.730	9.91	.472
1893-94						
October.....	436	13	39.3	.518	.60	.335
November.....	315	23	56.5	.745	.83	.482
December.....	198	32	58.6	.773	.89	.500
January.....	205	46	56.0	.739	.85	.478
February.....	156	44	63.0	.831	.87	.537
Merch.....	205	54	68.6	.905	1.04	.585
April.....	232	40	67.8	.894	1.00	.578
May.....	156	35	59.6	.786	.91	.508
June 1-15.....	41	20	29.8	.383	.22	.254
August 20-29.....	13	6	8.10	.107	.04	.069
September 2-22.....	31	15	21.4	.282	.22	.182
1894						
October.....	58	17	24.9	.328	.38	.212
November.....	78	22	31.3	.413	.46	.267

Monthly discharge of Rock Creek at Q Street, Washington, D. C.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mila		
1929-30						
October 18-31.....	254	16	61.6	0.813	0.42	0.525
November.....	95	26	37.5	.495	.55	.320
December.....	63	-	35.4	.467	.54	.302
January.....	81	-	41.7	.550	.63	.355
February.....	289	38	79.8	1.05	1.09	.679
March.....	598	46	82.2	1.08	1.24	.698
April.....	811	45	96.7	1.28	1.43	.827
May.....	70	28	39.5	.521	.60	.337
June.....	138	16	32.3	.426	.48	.275
July.....	34	4.5	11.9	.157	.18	.101
August.....	-	-	2.70	.036	.04	.023
September.....	35	1.2	4.09	.054	.06	.035
1931						
July 15-31.....	339	11	38.4	.507	.32	.328
August.....	146	7	30.0	.396	.46	.256
September.....	51	5.5	9.83	.130	.14	.084
1931-32						
October.....	42	3.6	8.27	.109	.13	.070
November.....	80	4.6	9.34	.123	.14	.080
December.....	60	8.5	15.3	.202	.23	.131
January.....	230	22	52.9	.698	.80	.451
February.....	326	24	45.6	.602	.65	.389
March.....	842	24	87.6	1.16	1.34	.750
April.....	235	35	64.1	.846	.94	.547
May.....	712	28	95.1	1.25	1.44	.808
June.....	386	17	39.7	.524	.58	.339
July.....	89	7	20.5	.270	.31	.175
August.....	23	2.3	7.25	.096	.11	.062
September.....	218	2.5	17.5	.231	.26	.149
The year.....	842	2.3	38.6	.509	6.93	.329
1932-33						
October.....	656	3.5	84.5	1.12	1.29	.724
November.....	493	42	128	1.69	1.89	1.09
December.....	544	40	82.0	1.08	1.24	.698
January.....	515	47	87.7	1.16	1.34	.750
February.....	300	58	97.6	1.29	1.34	.834
March.....	387	50	99.1	1.31	1.51	.847
April.....	730	78	150	1.98	2.21	1.28
May.....	256	56	103	1.36	1.57	.879
June.....	393	39	72.7	.959	1.07	.620
July.....	1,140	32	97.3	1.28	1.48	.827
August.....	2,710	21	188	2.48	2.86	1.60
September.....	108	33	47.0	.620	.69	.401
The year.....	2,710	3.5	103	1.36	18.49	.879

Northeast Branch Anacostia River at Riverdale, Md.

Location.- Water-stage recorder, lat. 38°57'37", long. 76°55'34", at Riverdale Road bridge in Riverdale, Prince Georges County, and 1 3/4 miles upstream from confluence with Northwest Branch. Datum of gage is 14.00 feet above mean sea level (Washington Suburban Sanitary Commission bench mark). Prior to June 12, 1942 wire-weight gage at same site and datum.

Drainage area.- 72.8 square miles.

Records available.- August 1938 to September 1943.

Extremes.- Maximum discharge, 3,660 second-feet Oct. 16, 1942 (gage height, 12.93 feet), from rating curve extended above 2,950 second-feet; minimum observed, 5.6 second-feet Sept. 29, 30, Oct. 1, 1941 (gage height, 2.72 feet).

Maximum stage known, about 15.5 feet Aug. 23 or 24, 1933, from floodmarks (discharge, 10,500 second-feet, from rating curve extended above 2,950 second-feet).

Monthly discharge of Northeast Branch Anacostia River at Riverdale, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938						
August 13-31.....	122	9	21.4	0.294	0.21	0.190
September.....	252	11	42.9	.589	.66	.381

Monthly discharge of Northeast Branch Anacostie River at Riverdale, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	58	17	24.5	0.337	0.39	0.218
November.....	87	23	34.5	.474	.53	.306
December.....	215	31	61.9	.850	.98	.549
January.....	961	27	91.4	1.26	1.45	.814
February.....	706	71	206	2.83	2.95	1.83
March.....	392	69	131	1.80	2.08	1.16
April.....	444	67	129	1.77	1.98	1.14
May.....	95	26	54.4	.747	.86	.483
June.....	84	20	33.3	.457	.51	.295
July.....	68	14	23.4	.321	.37	.207
August.....	146	9.0	19.8	.272	.31	.176
September.....	270	9.6	30.9	.424	.47	.274
The year.....	961	9.0	69.1	.949	12.88	.613
1939-40						
October.....	365	16	45.8	.629	.73	.407
November.....	128	23	36.8	.505	.56	.326
December.....	78	24	35.3	.485	.56	.313
January.....	244	20	37.5	.515	.59	.333
February.....	856	24	121	1.66	1.79	1.07
March.....	814	48	121	1.66	1.91	1.07
April.....	1,730	48	231	3.17	3.54	2.05
May.....	370	42	81.7	1.12	1.29	.724
June.....	54	14	26.0	.357	.40	.231
July.....	60	8.0	21.4	.294	.34	.190
August.....	204	7.2	30.6	.420	.48	.271
September.....	778	11	49.0	.673	.75	.435
The year.....	1,730	7.2	69.3	.952	12.94	.615
1940-41						
October.....	54	16	22.5	.309	.36	.200
November.....	630	25	101	1.39	1.55	.898
December.....	340	33	68.3	.938	1.08	.606
January.....	302	38	93.8	1.29	1.49	.834
February.....	112	35	60.5	.831	.86	.537
March.....	269	38	84.5	1.16	1.34	.750
April.....	551	36	95.5	1.31	1.46	.847
May.....	56	14	23.9	.328	.38	.212
June.....	221	14	50.0	.687	.77	.444
July.....	418	14	55.5	.762	.88	.492
August.....	162	11	25.4	.349	.40	.226
September.....	14	5.6	8.32	.114	.13	.074
The year.....	630	5.6	57.3	.787	10.70	.509
1941-42						
October.....	13	6.4	9.37	.129	.15	.083
November.....	33	13	15.9	.218	.24	.141
December.....	177	13	31.5	.433	.50	.280
January.....	75	16	26.6	.365	.42	.236
February.....	290	22	50.6	.695	.72	.449
March.....	546	25	102	1.40	1.61	.905
April.....	706	29	96.2	1.32	1.47	.853
May.....	207	19	42.1	.578	.67	.374
June.....	164	12	27.9	.383	.43	.248
July.....	79	10	26.0	.357	.41	.231
August.....	2,180	18	205	2.82	3.25	1.82
September.....	67	12	21.7	.298	.33	.193
The year.....	2,180	6.4	54.8	.753	10.20	.487
1942-43						
October.....	2,600	17	234	3.21	3.70	2.07
November.....	103	47	65.9	.905	1.01	.585
December.....	1,020	36	116	1.59	1.83	1.03
January.....	144	47	71.8	.986	1.14	.637
February.....	496	68	161	2.21	2.30	1.43
March.....	376	54	141	1.94	2.23	1.25
April.....	454	62	106	1.46	1.63	.944
May.....	421	49	87.7	1.20	1.39	.776
June.....	111	18	41.8	.574	.64	.371
July.....	30	11	16.9	.232	.27	.150
August.....	20	7.3	9.55	.131	.15	.085
September.....	74	9.7	17.7	.243	.27	.157
The year.....	2,600	7.3	88.8	1.22	16.56	.789

Yearly discharge of Northeast Branch Anacostia River at Riverdale, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	69.1	0.949	12.88	0.613	68.8	0.945	12.83	0.611
1940.....	69.3	.952	12.94	.615	75.3	1.03	14.08	.666
1941.....	57.3	.787	10.70	.509	46.1	.633	8.60	.409
1942.....	54.8	.753	10.20	.487	85.1	1.17	15.85	.756
1943.....	88.8	1.22	16.56	.789	-	-	-	-

Northeast Branch Anacostia River at Hyattsville, Md.

Location.- Staff gage, lat. 38°57'00", long. 76°56'07", at highway bridge in Hyattsville, Prince Georges County, and 0.6 mile upstream from confluence with Northwest Branch. Datum of gage is 5.02 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).
 Drainage area.- 75 square miles.
 Records available.- July 1911 to September 1912.
 Extremes.- Maximum daily discharge, 1,760 second-feet May 7, 1912; minimum daily, 2.0 second-feet Sept. 13, 1912.

Monthly discharge of Northeast Branch Anacostia River at Hyattsville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1911						
July.....	11	3.5	6.15	0.082	0.09	0.053
August.....	404	3.7	35.2	.469	.54	.303
September.....	124	9.3	24.2	.323	.36	.209
1911-12						
October.....	308	9.5	32.3	.431	.50	.279
November.....	197	17.5	70.9	.945	1.05	.611
December.....	414	30	91.9	1.23	1.42	.795
January.....	786	59	169	2.25	2.59	1.45
February.....	800	21	165	2.20	2.37	1.42
March.....	992	7.5	219	2.92	3.37	1.89
April.....	258	57	107	1.43	1.60	.924
May.....	1,760	44	204	2.72	3.14	1.76
June.....	886	11.0	96.0	1.28	1.43	.827
July.....	195	8.0	48.1	.641	.74	.414
August.....	58	4.0	16.2	.216	.25	.140
September 1-22.....	117	2.0	21.6	.288	.24	.186

Northwest Branch Anacostia River near Colesville, Md.

Location.- Water-stage recorder, lat. 39°03'55", long. 77°01'48", 400 feet upstream from highway bridge, 1 1/2 miles southwest of Colesville, Montgomery County, and 10 miles upstream from Sligo Branch. Datum of gage is 264.85 feet above mean sea level, adjustment of 1912. From Apr. 22, 1932 to Apr. 9, 1934, staff gages at same site and datum. Prior to Apr. 22, 1932 staff gages with various datum planes in same general vicinity.
 Drainage area.- 21.3 square miles.
 Records available.- February 1924 to September 1943.
 Extremes.- Maximum discharge, 4,500 second-feet Aug. 23, 1933 (gage height, 9.3 feet, from floodmarks), from rating curve extended above 2,000 second-feet; minimum, 0.4 second-foot Aug. 11, 12, 1930, Sept. 2, 1932.
 Remarks.- Subsequent to Aug. 12, 1939 records include inflow pumped from Patuxent River to augment water supply for Washington Suburban Sanitary District. Records of pumpage can be obtained from the Washington Suburban Sanitary Commission, Hyattsville, Md.

Monthly discharge of Northwest Branch Anacostie River near Colesville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1924						
March.....	304	18	65.2	3.06	3.53	1.98
April.....	430	28	64.0	3.00	3.35	1.94
May.....	176	28	58.3	2.74	3.16	1.77
June.....	188	19	34.7	1.63	1.82	1.05
July.....	40	12	18.6	.873	1.01	.564
August.....	285	10	32.5	1.53	1.76	.989
September.....	640	10	47.7	2.24	2.50	1.45
1924-25						
October.....	65	18	29.4	1.38	1.59	.892
November.....	117	18	21.7	1.02	1.14	.659
December.....	34	16	19.4	.911	1.05	.589
January.....	116	15.5	32.6	1.53	1.76	.989
February.....	200	20	53.4	2.51	2.61	1.62
March.....	38	15.5	20.0	.940	1.08	.608
April.....	31	13.5	17.0	.798	.89	.516
May.....	24	8.5	13.8	.648	.75	.419
June.....	24	3.5	6.58	.309	.34	.200
July.....	138	2.0	17.7	.831	.96	.537
August.....	22	3.0	6.31	.296	.34	.191
September.....	34	3.5	6.95	.326	.36	.211
The year.....	200	2.0	20.2	.948	12.87	.613
1925-26						
October.....	61	4.0	11.5	.540	.62	.349
November.....	213	11	25.1	1.18	1.32	.763
December.....	37	-	13.8	.648	.75	.419
January.....	216	9.0	26.6	1.25	1.44	.808
February.....	170	13	49.3	2.31	2.40	1.49
March.....	41	13	18.0	.845	.97	.546
April.....	30	10.5	14.8	.695	.78	.449
May.....	32	7.0	9.97	.463	.53	.299
June.....	9	4.7	6.68	.314	.35	.203
July.....	192	3.8	12.8	.601	.69	.388
August.....	104	2.5	12.3	.577	.67	.373
September.....	325	3.7	31.0	1.46	1.63	.944
The year.....	325	2.5	19.1	.897	12.15	.580
1926-27						
October.....	161	8	17.9	.840	.97	.543
November.....	469	12	55.6	2.61	2.91	1.69
December.....	81	-	27.2	1.28	1.48	.827
January.....	32	13	18.5	.869	1.00	.562
February.....	192	17	41.4	1.94	2.02	1.25
March.....	58	17	21.1	.991	1.14	.641
April.....	378	17	40.7	1.91	2.13	1.23
May.....	57	14	19.7	.925	1.07	.598
June.....	23	8	12.4	.582	.65	.376
July.....	36	5	8.90	.418	.48	.270
August.....	112	6	12.1	.568	.65	.367
September.....	119	5	10.2	.479	.53	.310
The year.....	469	5	23.6	1.11	15.03	.717
1927-28						
October.....	258	5	38.3	1.80	2.08	1.16
November.....	168	12	24.1	1.13	1.26	.730
December.....	154	14	34.5	1.62	1.87	1.05
January.....	44	-	18.8	.883	1.02	.571
February.....	362	-	46.1	2.16	2.33	1.40
March.....	121	17	31.0	1.46	1.68	.944
April.....	173	15	27.8	1.31	1.46	.847
May.....	58	14	22.6	1.06	1.22	.685
June.....	126	12	21.9	1.03	1.15	.666
July.....	34	6	10.9	.512	.59	.331
August.....	420	6	29.6	1.39	1.60	.898
September.....	77	10	15.9	.746	.83	.482
The year.....	420	5	26.7	1.25	17.09	.808

Monthly discharge of Northwest Branch Anacostie River near Colesville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1928-29						
October.....	16	9	11.2	0.526	0.61	0.340
November.....	28	11	12.9	.606	.68	.392
December.....	36	10	13.0	.610	.70	.394
January.....	85	-	20.2	.948	1.09	.613
February.....	261	-	34.3	1.61	1.68	1.04
March.....	232	13	45.8	2.15	2.48	1.39
April.....	352	13	38.4	1.80	2.01	1.16
May.....	18	10	13.6	.638	.74	.412
June.....	344	9	41.7	1.96	2.19	1.27
July.....	11	4	7.32	.344	.40	.222
August.....	8	3	4.26	.200	.23	.129
September.....	16	2	4.27	.200	.22	.129
The year.....	352	2	20.4	.958	13.03	.619
1929-30						
October.....	173	6.4	17.3	.812	.94	.525
November.....	62	8	13.8	.648	.72	.419
December.....	24	-	11.5	.540	.62	.349
January.....	25	-	11.2	.526	.61	.340
February.....	123	9	24.5	1.15	1.20	.743
March.....	120	8.1	19.6	.920	1.06	.595
April.....	150	13	23.6	1.11	1.24	.717
May.....	13	7.3	9.86	.463	.53	.299
June.....	82	4.4	9.26	.435	.49	.281
July.....	5.2	.8	2.97	.139	.16	.090
August.....	1.1	.4	.72	.034	.04	.022
September.....	17	.6	1.40	.066	.07	.043
The year.....	173	.4	12.0	.563	7.68	.364
1930-31						
October.....	3.2	1.0	1.84	.086	.10	.056
November.....	5.2	1.5	3.13	.147	.16	.095
December.....	32	-	3.91	.179	.21	.116
January.....	42	2.8	5.93	.278	.32	.180
February.....	8.1	3.5	4.52	.212	.22	.137
March.....	18	3.8	7.46	.350	.40	.226
April.....	43	6.0	12.0	.563	.63	.364
May.....	250	4.1	15.8	.742	.86	.480
June.....	109	1.4	12.0	.563	.63	.364
July.....	363	1.2	20.4	.958	1.10	.619
August.....	100	1.5	12.2	.573	.66	.370
September.....	2.8	1.0	1.84	.086	.10	.056
The year.....	363	1.0	8.45	.397	5.39	.257
1931-32						
October.....	10	1	1.79	.084	.10	.054
November.....	5	1.5	2.37	.111	.12	.072
December.....	6	2	3.50	.164	.19	.106
January.....	72	5	15.7	.737	.85	.476
February.....	80	6.5	11.5	.540	.58	.349
March.....	280	7	22.6	1.06	1.22	.685
April.....	39	7	12.3	.577	.64	.373
May.....	262	6.5	25.0	1.17	1.35	.756
June.....	94	4.5	11.1	.521	.58	.337
July.....	18	2	4.77	.224	.26	.145
August.....	11	.6	1.85	.087	.10	.056
September.....	14	.4	1.72	.081	.09	.052
The year.....	280	.4	9.53	.447	6.08	.289
1932-33						
October.....	307	.9	28.0	1.31	1.51	.847
November.....	311	10	44.6	2.09	2.33	1.35
December.....	206	8.8	24.9	1.17	1.35	.756
January.....	170	13	24.2	1.14	1.31	.737
February.....	100	16	26.3	1.23	1.28	.795
March.....	219	14	34.1	1.60	1.84	1.03
April.....	149	19	39.8	1.87	2.09	1.21
May.....	75	15	26.1	1.23	1.42	.795
June.....	73	7.5	14.7	.690	.77	.446
July.....	154	6.2	19.1	.897	1.03	.580
August.....	1,280	4.3	57.0	2.68	3.09	1.73
September.....	54	7.9	11.9	.559	.62	.361
The year.....	1,280	.9	29.3	1.38	18.64	.892

Monthly discharge of Northwest Branch Anacostia River near Colesville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1933-34						
October.....	46	8.3	11.9	0.559	0.64	0.361
November.....	20	9.2	10.2	.479	.53	.310
December.....	49	9.2	12.2	.573	.66	.370
January.....	75	9.0	19.6	.920	1.06	.595
February.....	37	8.0	11.9	.559	.58	.361
March.....	684	10	49.2	2.31	2.66	1.49
April.....	124	14	24.3	1.14	1.27	.737
May.....	90	13	23.3	1.09	1.26	.704
June.....	203	8.3	25.2	1.18	1.32	.763
July.....	50	4.2	8.00	.376	.43	.243
August.....	36	2.9	6.75	.317	.37	.205
September.....	308	3.7	48.9	2.30	2.57	1.49
The year.....	684	2.9	21.0	.986	13.35	.637
1934-35						
October.....	27	10	13.7	.643	.74	.416
November.....	226	10	20.8	.977	1.09	.631
December.....	272	14	29.9	1.40	1.61	.905
January.....	208	16	33.0	1.55	1.79	1.00
February.....	139	19	46.6	2.19	2.28	1.42
March.....	237	24	40.5	1.90	2.19	1.23
April.....	420	21	52.4	2.46	2.74	1.59
May.....	495	16	39.9	1.87	2.16	1.21
June.....	102	10	18.6	.873	.97	.564
July.....	68	5.9	10.6	.498	.57	.322
August.....	7.4	3.6	5.13	.241	.28	.156
September.....	308	3.6	23.5	1.10	1.23	.711
The year.....	495	3.6	27.7	1.30	17.65	.840
1935-36						
October.....	66	6.6	11.5	.540	.62	.349
November.....	204	9.5	26.1	1.23	1.37	.795
December.....	36	13	17.4	.817	.94	.528
January.....	610	14	59.6	2.80	3.23	1.81
February.....	700	13	97.0	4.55	4.91	2.94
March.....	230	23	51.4	2.41	2.78	1.56
April.....	66	18	27.4	1.29	1.44	.834
May.....	36	10	17.3	.812	.94	.525
June.....	41	6.3	11.2	.526	.59	.340
July.....	42	5.0	9.64	.453	.52	.293
August.....	188	3.1	13.5	.634	.73	.410
September.....	7.8	3.3	4.81	.226	.25	.146
The year.....	700	3.1	28.7	1.35	18.32	.873
1936-37						
October.....	21	4.5	6.73	.316	.36	.204
November.....	9.0	5.3	6.31	.296	.33	.191
December.....	141	4.5	25.5	1.20	1.38	.776
January.....	286	16	50.9	2.39	2.76	1.54
February.....	213	21	42.0	1.97	2.05	1.27
March.....	61	19	26.1	1.23	1.42	.795
April.....	812	15	60.7	2.85	3.18	1.84
May.....	53	16	24.7	1.16	1.34	.750
June.....	108	11	22.7	1.07	1.19	.692
July.....	42	7.0	12.1	.568	.65	.367
August.....	373	7.0	52.5	2.46	2.84	1.59
September.....	55	8.2	12.3	.577	.64	.373
The year.....	812	4.5	28.5	1.34	18.14	.866
1937-38						
October.....	585	8.6	54.3	2.55	2.94	1.65
November.....	656	16	45.1	2.12	2.36	1.37
December.....	29	16	19.5	.915	1.05	.591
January.....	65	15	23.7	1.11	1.28	.717
February.....	148	16	30.6	1.44	1.50	.931
March.....	82	16	24.2	1.14	1.31	.737
April.....	39	14	21.0	.986	1.10	.637
May.....	37	11	15.7	.737	.85	.476
June.....	22	6.6	9.80	.460	.51	.297
July.....	40	3.8	8.75	.411	.47	.266
August.....	126	4.4	16.1	.756	.87	.489
September.....	49	3.6	8.83	.415	.46	.268
The year.....	656	3.5	23.1	1.08	14.70	.698

Monthly discharge of Northwest Branch Anacostie River near Colesville, Md.--Continued

Month	Discharge in second-foot				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938-39						
October.....	11	6.3	7.25	0.340	0.39	0.220
November.....	14	6.6	8.49	.399	.45	.258
December.....	65	10	18.7	.878	1.01	.567
January.....	364	11	28.5	1.34	1.54	.866
February.....	260	19	49.9	2.34	2.44	1.51
March.....	60	19	31.1	1.46	1.68	.944
April.....	129	19	34.8	1.63	1.82	1.05
May.....	26	11	16.0	.751	.87	.485
June.....	76	7.0	12.2	.573	.64	.370
July.....	17	5.3	7.80	.366	.42	.237
August.....	61	3.8	8.88			
September.....	68	7.3	12.1			
The year.....	364	3.8	19.4			
1939-40						
October.....	181	7.4	17.4			
November.....	45	7.4	10.6			
December.....	25	6.6	9.12			
January.....	90	6.5	12.2			
February.....	229	6.5	28.1			
March.....	103	12	25.3			
April.....	303	13	43.3			
May.....	37	13	17.4			
June.....	16	10	12.1			
July.....	22	6.6	12.9			
August.....	102	5.1	14.9			
September.....	44	5.6	11.7			
The year.....	303	5.1	17.8			
1940-41						
October.....	23	5.9	10.7			
November.....	161	7.0	26.3			
December.....	68	10	16.8			
January.....	78	12	23.6			
February.....	44	12	18.9			
March.....	66	12	22.6			
April.....	184	12	25.3			
May.....	19	9.0	13.3			
June.....	35	7.4	12.6			
July.....	36	7.3	13.3			
August.....	54	7.8	13.7			
September.....	14	3.1	7.10			
The year.....	184	3.1	17.0			
1941-42						
October.....	7.8	4.7	5.61			
November.....	15	6.3	9.21			
December.....	46	6.3	13.3			
January.....	23	10	12.7			
February.....	93	10	16.9			
March.....	99	9.5	19.8			
April.....	156	11	25.4			
May.....	67	9.5	16.8			
June.....	43	7.8	16.4			
July.....	34	7.1	15.3			
August.....	66	8.0	16.8			
September.....	18	4.1	13.1			
The year.....	156	4.1	15.1			
1942-43						
October.....	420	10	39.1			
November.....	18	8.6	12.0			
December.....	168	9.0	22.9			
January.....	22	12	14.1			
February.....	132	14	32.6			
March.....	101	12	31.3			
April.....	121	15	25.1			
May.....	450	13	30.5			
June.....	52	9.0	16.7			
July.....	62	10	19.0			
August.....	20	15	18.5			
September.....	70	8.5	19.5			
The year.....	450	8.5	23.4			

Yearly discharge of Northwest Branch Anacostia River near Colesville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1925.....	20.2	0.948	12.87	0.613	18.5	0.869	11.78	0.562
1926.....	19.1	.897	12.15	.580	23.3	1.09	14.82	.704
1927.....	23.6	1.11	15.03	.717	23.3	1.09	14.98	.704
1928.....	26.7	1.25	17.09	.808	21.7	1.02	13.97	.659
1929.....	20.4	.958	13.03	.619	20.9	.981	13.32	.634
1930.....	12.0	.563	7.68	.364	9.20	.432	5.87	.279
1931.....	8.45	.397	5.39	.257	8.36	.392	5.33	.253
1932.....	9.53	.447	6.08	.289	17.0	.798	10.86	.516
1933.....	29.3	1.38	18.64	.892	24.0	1.13	15.28	.730
1934.....	21.0	.986	13.35	.637	23.5	1.10	14.96	.711
1935.....	27.7	1.30	17.65	.840	26.9	1.26	17.14	.814
1936.....	28.7	1.35	18.32	.873	27.3	1.28	17.46	.827
1937.....	28.5	1.34	18.14	.866	35.2	1.65	22.42	1.07
1938.....	23.1	1.08	14.70	.698	16.0	.751	10.20	.485
1939.....	19.4				19.6			
1940.....	17.8				19.2			
1941.....	17.0				14.9			
1942.....	15.1				19.0			
1943.....	23.4				-			
1925-1938								
Highest....	29.3	1.38	18.64	.892	35.2	1.65	22.42	1.07
Average....	21.3	1.00	13.58	.646	21.1	.981	13.44	.641
Lowest....	8.45	.397	5.39	.257	8.36	.392	5.33	.253

Northwest Branch Anacostia River near Hyattsville, Md.

Location.- Water-stage recorder, lat. 38°57'12", long. 76°57'59", at Queens Chapel Road Bridge, 1 mile west of Hyattsville, Prince Georges County and 1 mile downstream from Sligo Branch. Datum of gage is 17.30 feet above mean sea level, adjustment of 1912. Prior to Oct. 22, 1938, wire-weight gage at present site and datum.

Drainage area.- 49.4 square miles.

Records available.- July 1938 to September 1943.

Extremes.- Maximum discharge, 2,280 second-feet Oct. 16, 1942 (gage height, 9.92 feet); minimum, 0.8 second-foot Oct. 3, 7, 1941, Aug. 26, 1943.

Maximum stage known, about 13.5 feet in August 1933.

Remarks.- Low flow regulated by storage and diversion at Burnt Mills Reservoir (drainage area, 26 square miles) and subsequent to Aug. 12, 1939 by inflow pumped from Patuxent River basin as required for water supply by Washington Suburban Sanitary District. Pumpage from Patuxent River basin and storage and diversion records at Burnt Mills filtration plant can be obtained from the Washington Suburban Sanitary Commission, Hyattsville, Md.

Monthly discharge of Northwest Branch Anacostia River near Hyattsville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1938						
July 12-31.....						
August.....	86	2.8	14.4			
September.....	340	3.3	26.4			
	59	3.3	10.5			
1938-39						
October.....	10	3.8	5.62			
November.....	20	4.8	8.68			
December.....	138	10	26.9			
January.....	766	12	48.5			
February.....	462	35	97.7			
March.....	132	27	58.6			
April.....	274	26	69.2			
May.....	60	11	27.7			
June.....	65	7.2	15.6			
July.....	59	4.2	10.1			
August.....	119	1.5	7.37			
September.....	108	1.8	11.9			
The year.....	766	1.5	31.9			

Monthly discharge of Northwest Branch Anacostia River near Hyattsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	230	6.0	19.8			
November.....	50	8.0	13.5			
December.....	41	6.3	11.6			
January.....	135	6.5	15.9			
February.....	309	10	49.4			
March.....	239	24	50.1			
April.....	897	18	101			
May.....	86	20	34.9			
June.....	27	5.5	10.1			
July.....	25	3.6	6.90			
August.....	130	3.0	9.48			
September.....	207	3.2	12.6			
The year.....	897	3.0	27.8			
1940-41						
October.....	26	3.8	6.04			
November.....	335	5.7	42.9			
December.....	141	9.5	26.1			
January.....	156	15	43.0			
February.....	67	17	29.9			
March.....	122	13	37.3			
April.....	376	13	44.4			
May.....	17	5.1	9.91			
June.....	100	5.1	20.6			
July.....	175	5.1	18.9			
August.....	71	3.2	12.3			
September.....	7.6	1.7	2.58			
The year.....	376	1.7	24.4			
1941-42						
October.....	5.7	.9	2.44			
November.....	15	1.9	4.30			
December.....	132	3.5	12.7			
January.....	42	2.8	8.16			
February.....	179	5.7	18.2			
March.....	251	5.4	39.7			
April.....	256	8.4	38.1			
May.....	117	6.2	18.3			
June.....	160	5.2	18.0			
July.....	160	4.0	23.5			
August.....	978	6.6	66.9			
September.....	76	4.0	8.79			
The year.....	978	.9	21.7			
1942-43						
October.....	946	4.4	86.0			
November.....	37	16	22.0			
December.....	444	13	46.6			
January.....	59	17	27.5			
February.....	248	25	71.6			
March.....	174	19	66.6			
April.....	259	22	50.2			
May.....	447	21	49.0			
June.....	95	6.5	19.1			
July.....	48	3.7	7.44			
August.....	25	1.3	3.61			
September.....	172	2.0	11.0			
The year.....	946	1.3	38.3			

Yearly discharge of Northwest Branch Anacostia River near Hyattsville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1939.....	31.9				32.1			
1940.....	27.8				30.2			
1941.....	24.4				19.8			
1942.....	21.7				33.1			
1943.....	38.3				-			

Northwest Branch Anacostia River at Bladensburg, Md.

Location.- Staff gage, lat. 38°56'45", long. 76°56'52", 300 feet upstream from Capitol Transit Co. railway bridge and 0.5 mile northwest of Bladensburg, Prince Georges County. Datum of gage is 3.33 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 52 square miles.

Records available.- July 1911 to September 1912.

Extremes.- Maximum daily discharge, 617 second-feet Feb. 27, 1912; minimum daily, 3.0 second-feet Aug. 2, 1911.

Remarks.- Medium and high stages on Northeast Branch Anacostia River or extreme high tides may cause backwater at this station.

Monthly discharge of Northwest Branch Anacostia River at Bladensburg, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1911						
July.....	16	3.2	5.25	0.101	0.12	0.065
August.....	468	3.0	30.2	.581	.67	.376
September.....	473	5.8	41.5	.798	.89	.516
1911-12						
October.....	218	6.0	23.2	.446	.51	.288
November.....	111	9.8	39.2	.754	.84	.487
December.....	387	13	58.8	1.13	1.30	.730
January.....	597	14	87.1	1.67	1.92	1.08
February.....	617	21	101	1.94	2.09	1.25
March.....	548	9.0	117	2.25	2.59	1.45
April.....	220	41	67.0	1.29	1.44	.834
May.....	366	24	88.8	1.71	1.97	1.11
June.....	310	14	57.4	1.10	1.23	.711
July.....	120	16	41.1	.790	.91	.511
August.....	48	14	20.2	.388	.45	.251
September 1-22.....	182	12	29.2	.562	.46	.363

Beaverdam Branch Anacostia River at Kenilworth, D. C.

Location.- Staff gage, lat. 38°54'57", long. 76°55'57", at Kenilworth Avenue bridge and 0.3 mile north of District of Columbia line at Kenilworth. Datum of gage is 2.42 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.- 14 square miles.

Records available.- July 1911 to September 1912.

Extremes.- Maximum daily discharge, 440 second-feet July 18, 1912; minimum daily, 0.2 second-foot June 14, 1912.

Remarks.- Records may be affected by backwater during abnormally high tides.

Monthly discharge of Beaverdam Branch Anacostia River at Kenilworth, D. C.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1911						
July.....	4.0	1.1	1.88	0.134	0.15	0.087
August.....	6.8	.5	2.30	.164	.19	.106
September.....	42	1.1	3.68	.263	.29	.170
1911-12						
October.....	48	2.5	6.69	.478	.55	.309
November.....	60	4.0	14.5	1.04	1.16	.672
December.....	95	5.5	18.6	1.33	1.53	.860
January.....	64	8.7	20.7	1.48	1.71	.957
February.....	89	6.0	21.6	1.54	1.66	.995
March.....	187	1.5	34.3	2.45	2.82	1.58
April.....	30	7.8	14.8	1.06	1.18	.685
May.....	76	1.8	15.3	1.09	1.26	.704
June.....	46	.2	7.14	.510	.57	.330
July.....	440	.5	19.4	1.39	1.60	.898
August.....	2.2	.7	1.51	.094	.11	.061
September 1-21.....	14	.5	1.68	.120	.09	.078

Occoquan Creek near Occoquan, Va.

Location.- Water-stage recorder, lat. 38°42'20", long. 77°19'35", 1½ miles upstream from Sandy Run, and 4½ miles upstream from Occoquan, Prince William County. Datum of gage is 76.21 feet above mean sea level, datum of 1929.

Drainage area.- 546 square miles.

Records available.- February 1913 to May 1916; December 1920 to September 1923; June 1937 to September 1943.

Extremes.- Maximum discharge, 37,000 second-foot Oct. 16, 1942 (gage height, 27.6 feet, from floodmark), from rating curve extended above 15,000 second-foot; minimum daily, 1.0 second-foot Dec. 11, 12, 1941.

Flood of April 1937 reached a stage of 24.87 feet, from floodmarks (discharge, 29,200 second-foot, from rating curve extended above 15,000 second-foot).

Remarks.- Flow regulated by power plants above station on Occoquan Creek and Bull Run.

Monthly discharge of Occoquan Creek near Occoquan, Va.

Month	Discharge in second-foot				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1913						
February 14-28.....	249	118	164	0.300	0.17	0.194
March.....	6,570	86	1,040	1.90	2.19	1.23
April.....	13,600	165	1,630	2.99	3.34	1.93
May.....	13,000	98	1,070	1.96	2.26	1.27
June.....	360	64	149	.273	.50	.176
July.....	65	31	42.5	.078	.09	.050
August.....	590	16	54.9	.101	.12	.065
September.....	840	9.7	51.9	.095	.11	.061
1913-14						
October.....	1,460	24	179	.328	.58	.212
November.....	965	41	130	.238	.27	.154
December.....	4,480	46	312	.571	.66	.369
January.....	8,340	152	926	1.70	1.96	1.10
February.....	3,160	180	582	1.07	1.11	.692
March.....	3,380	407	1,170	2.14	2.47	1.38
April.....	2,900	206	794	1.45	1.62	.937
May.....	748	68	213	.390	.45	.252
June.....	1,870	35	170	.311	.35	.201
July.....	725	35	188	.344	.40	.222
August.....	660	22	74.3	.136	.16	.088
September.....	75	13	26.4	.048	.05	.031
The year.....	8,340	13	396	.725	9.88	.469
1914-15						
October.....	61	12	21.9	.040	.05	.026
November.....	261	17	46.9	.086	.10	.056
December.....	838	30	205	.375	.43	.242
January.....	18,300	120	1,920	3.52	4.06	2.28
February.....	10,600	301	1,600	2.93	3.05	1.89
March.....	2,030	129	409	.749	.86	.484
April.....	400	77	119	.218	.24	.141
May.....	558	58	107	.196	.23	.127
June.....	12,400	72	822	1.51	1.68	.976
July.....	105	32	57.9	.106	.12	.068
August.....	2,410	39	415	.760	.88	.491
September.....	500	35	105	.192	.21	.124
The year.....	18,300	12	479	.877	11.91	.567
1915-16						
October.....	2,010	78	226	.414	.48	.268
November.....	373	58	88.8	.163	.18	.105
December.....	1,900	55	250	.458	.53	.296
January.....	1,060	140	372	.681	.79	.440
February.....	2,600	286	847	1.55	1.67	1.00
March.....	7,140	145	727	1.33	1.53	.860
April.....	4,680	176	728	1.33	1.48	.860
1920-21						
December 16-31.....	-	-	960	1.76	1.05	1.14
January.....	6,690	232	1,030	1.89	2.18	1.22
February.....	-	182	844	1.55	1.61	1.00
March.....	-	240	723	1.32	1.52	.853
April.....	1,460	154	413	.756	.84	.489
May.....	7,800	254	1,300	2.38	2.74	1.54
June.....	370	55	123	.225	.25	.145
July.....	1,120	33	187	.342	.39	.221
August.....	306	16	64.9	.119	.14	.077
September.....	764	13	73.2	.134	.15	.087

Monthly discharge of Occoquan Creek near Occoquan, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1921-22						
October.....	22	12	16.4	0.030	0.03	0.019
November.....	696	25	86.1	.158	.18	.102
December.....	546	91	157	.288	.33	.186
January.....	4,220	67	457	.837	.96	.541
February.....	5,640	211	1,600	2.93	3.05	1.89
March.....	4,620	254	1,330	2.44	2.81	1.58
April.....	435	-	198	.363	.40	.235
May.....	5,000	-	618	1.13	1.30	.730
June.....	4,080	81	515	.943	1.05	.609
July.....	488	62	164	.300	.35	.194
August.....	564	28	81.9	.150	.17	.097
September.....	2,000	27	215	.394	.44	.255
The year.....	5,640	12	446	.817	11.07	.528
1922-23						
October.....	360	24	50.5	.092	.11	.060
November.....	46	23	32.8	.060	.07	.039
December.....	1,840	33	162	.297	.34	.192
January.....	3,190	104	641	1.17	1.35	.756
February.....	1,540	-	467	.855	.89	.553
March.....	5,270	210	1,250	2.29	2.64	1.48
April.....	4,140	192	745	1.36	1.52	.879
May.....	-	84	210	.385	.44	.249
June.....	308	37	106	.194	.22	.125
July.....	902	25	128	.234	.27	.151
August.....	2,090	39	306	.560	.65	.362
September.....	4,680	57	472	.864	.96	.558
The year.....	5,270	23	361	.698	9.46	.451
1937						
June 9-30.....	1,340	130	332	.608	.50	.393
July.....	752	82	150	.275	.32	.178
August.....	9,650	55	881	1.61	1.86	1.04
September.....	1,340	46	260	.476	.53	.308
1937-38						
October.....	8,090	77	1,219	2.23	2.57	1.44
November.....	3,870	256	705	1.29	1.44	.834
December.....	532	168	277	.507	.58	.328
January.....	2,260	214	551	.973	1.12	.629
February.....	2,750	222	623	1.14	1.19	.737
March.....	1,340	264	470	.861	.99	.556
April.....	1,440	116	326	.597	.67	.386
May.....	583	90	165	.302	.35	.195
June.....	1,610	41	152	.278	.31	.180
July.....	972	48	215	.394	.45	.255
August.....	995	32	217	.397	.46	.257
September.....	64	11	41.8	.077	.09	.050
The year.....	8,090	11	411	.753	10.22	.487
1938-39						
October.....	48	11	34.7	.064	.07	.041
November.....	355	12	81.7	.150	.17	.097
December.....	3,290	127	649	1.19	1.37	.769
January.....	8,730	140	751	1.36	1.59	.892
February.....	7,370	352	1,539	2.82	2.94	1.82
March.....	5,290	213	792	1.45	1.67	.937
April.....	2,680	181	606	1.11	1.24	.717
May.....	532	52	165	.299	.34	.193
June.....	1,120	38	156	.266	.32	.185
July.....	2,260	50	455	.833	.96	.638
August.....	1,780	32	229	.419	.48	.271
September.....	360	14	60.5	.111	.12	.072
The year.....	8,730	11	453	.830	11.27	.536

Monthly discharge of Occoquan Creek near Occoquan, Va.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1939-40						
October.....	313	16	62.2	0.114	0.13	0.074
November.....	3,840	58	289	.529	.59	.342
December.....	1,360	45	159	.291	.34	.188
January.....	2,530	61	283	.518	.60	.335
February.....	4,170	105	967	1.77	1.91	1.14
March.....	5,190	186	807	1.48	1.71	.957
April.....	8,090	163	1,623	2.97	3.31	1.92
May.....	3,050	143	519	.951	1.10	.615
June.....	579	64	154	.282	.31	.182
July.....	1,260	56	140	.256	.30	.165
August.....	252	34	68.2	.125	.14	.081
September.....	599	4	80.0	.147	.16	.095
The year.....	8,090	4	425	.778	10.60	.503
1940-41						
October.....	211	31	65.6	.120	.14	.078
November.....	5,690	57	748	1.37	1.53	.885
December.....	2,260	157	564	1.03	1.19	.666
January.....	2,400	208	664	1.22	1.41	.789
February.....	1,240	172	366	.670	.70	.433
March.....	3,370	162	592	1.08	1.24	.698
April.....	6,960	136	740	1.36	1.52	.879
May.....	125	57	78.6	.144	.17	.093
June.....	1,160	46	190	.348	.39	.225
July.....	1,210	60	250	.458	.53	.296
August.....	130	33	54.3	.099	.11	.064
September.....	70	30	43.3	.079	.09	.051
The year.....	6,960	30	362	.663	9.02	.429
1941-42						
October.....	34	23	27.9	.051	.06	.033
November.....	23	1.5	3.66	.0067	.007	.0043
December.....	882	1.0	80.8	.148	.17	.096
January.....	400	20	98.4	.180	.21	.116
February.....	3,170	97	413	.756	.79	.489
March.....	4,230	81	910	1.67	1.92	1.08
April.....	2,060	74	308	.564	.63	.365
May.....	853	53	134	.245	.28	.158
June.....	1,000	40	148	.271	.30	.175
July.....	1,340	41	174	.319	.37	.206
August.....	13,300	51	1,377	2.52	2.90	1.63
September.....	3,950	55	359	.658	.73	.425
The year.....	13,300	1.0	337	.617	8.37	.399
1942-43						
October.....	27,700	87	2,960	5.42	6.25	3.50
November.....	732	163	322	.590	.66	.381
December.....	10,000	116	863	1.58	1.82	1.02
January.....	1,800	259	470	.861	.99	.556
February.....	5,000	308	1,072	1.96	2.04	1.27
March.....	4,380	213	1,072	1.96	2.26	1.27
April.....	5,800	190	707	1.29	1.44	.834
May.....	2,080	186	485	.888	1.02	.574
June.....	352	60	147	.269	.30	.174
July.....	72	34	48.5	.089	.10	.058
August.....	35	22	31.0	.057	.07	.037
September.....	32	25	29.2	.053	.06	.034
The year.....	27,700	22	685	1.25	17.01	.808

Yearly discharge of Occoquan Creek near Occoquen, Va.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-foot		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1914.....	396	0.725	9.88	0.469	368	0.674	9.15	0.436
1915.....	479	.877	11.91	.567	503	.921	12.52	.595
1921.....	-	-	-	-	417	.764	10.36	.494
1922.....	446	.817	11.07	.528	445	.815	11.05	.527
1923.....	381	.698	9.46	.451	-	-	-	-
1938.....	411	.753	10.22	.487	291	.533	7.24	.344
1939.....	453	.830	11.27	.536	451	.789	10.72	.510
1940.....	425	.778	10.60	.503	497	.910	12.40	.588
1941.....	362	.663	9.02	.429	257	.471	6.40	.304
1942.....	337	.617	8.37	.399	679	1.24	16.86	.801
1943.....	685	1.25	17.01	.808	-	-	-	-
Highest.....	685	1.25	17.01	.808	679	1.24	16.86	.801
Average.....	438	.802	10.88	.518	452	.791	10.74	.511
Lowest.....	337	.617	8.37	.399	257	.471	6.40	.304

MONONGAHELA RIVER BASIN

Youghiogheny River near Oakland, Md.

Location.- Wire-weight gage, let. $39^{\circ}25'19''$ N, long. $79^{\circ}25'32''$ W, at Baltimore & Ohio Railroad bridge, 50 feet downstream from Little Youghiogheny River end $1\frac{1}{4}$ miles northwest of Oakland, Garrett County. Datum of gage is 2,353.11 feet above mean sea level, unadjusted.

Drainage area.- 134 square miles.

Records available.- August 1941 to September 1943.

Extremes.- Maximum discharge, 3,780 second-feet Dec. 29, 1942 (gage height, 7.59 feet); minimum observed, 12 second-feet Sept. 24, 28, 1941.

Flood of March 1936 reached a stage of 15.3 feet, from floodmarks.

Monthly discharge of Youghiogheny River near Oakland, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941						
August 26-31.....	1,160	135	440	3.28	0.73	2.12
September.....	318	14	60.9	.454	.51	.293
1941-42						
October.....	138	15	43.2	.322	.37	.208
November.....	442	48	147	1.10	1.22	.711
December.....	1,220	59	235	1.75	2.02	1.13
January.....	660	80	206	1.54	1.77	.995
February.....	1,000	100	351	2.62	2.73	1.69
March.....	2,040	76	435	3.25	3.75	2.10
April.....	2,230	76	380	2.84	3.16	1.84
May.....	1,710	76	457	3.41	3.93	2.20
June.....	236	57	101	.754	.84	.487
July.....	121	19	45.3	.338	.39	.218
August.....	1,870	19	242	1.81	2.09	1.17
September.....	488	54	145	1.08	1.21	.698
The year.....	2,230	15	232	1.73	23.48	1.12
1942-43						
October.....	1,400	72	279	2.08	2.40	1.34
November.....	840	143	346	2.58	2.88	1.67
December.....	3,230	170	687	5.13	5.91	3.32
January.....	1,590	160	525	3.92	4.51	2.53
February.....	1,570	175	566	4.22	4.40	2.73
March.....	1,540	138	448	3.34	3.85	2.16
April.....	1,910	132	518	3.87	4.32	2.50
May.....	585	76	201	1.50	1.75	.969
June.....	267	19	69.6	.519	.58	.335
July.....	795	16	147	1.10	1.26	.711
August.....	1,040	55	208	1.55	1.79	1.00
September.....	149	13	45.7	.341	.38	.220
The year.....	3,230	13	336	2.51	34.01	1.62

Youghiogheny River at Friendsville, Md.

Location.- Water-stage recorder, lat. 39°39'17", long. 79°24'27", 0.6 mile upstream from highway bridge at Friendsville, Garrett County, and 1¼ miles upstream from Bear Creek. Datum of gage is 1,487.59 feet above mean sea level, unadjusted. August 1898 to December 1904 and October 1926 to September 1931 chain gages on highway bridge at Friendsville, datum planes of these gages 1,471.35 and 1,471.30 feet, respectively, above mean sea level, unadjusted.

Drainage area.- 295 square miles, 288 square miles prior to September 1931.

Records available.- August 1898 to December 1904 (republished and revised in Report of Flood Commission of Pittsburg, Pa., 1912), and December 1940 to September 1943, in reports of Geological Survey. October 1926 to September 1931 in reports of Pennsylvania Department of Forests and Waters.

Extremes.- Maximum discharge observed, 10,000 second-feet Mar. 1, 1902 (gage height, 11.5 feet, site and datum then in use); minimum daily, 19 second-feet (regulated) Nov. 18, 1930.

Maximum stage known, 14.2 feet, from floodmarks, Mar. 29, 1924, former site and datum, or about 10 feet, present site and datum, determined from relation curve (discharge not determined).

Remarks.- Low and medium flow regulated by Deep Creek reservoir (drainage area, 68.5 square miles) since Jan. 6, 1925. Records of change in contents of reservoir can be obtained from Pennsylvania Electric Co., Oakland, Md.

Monthly discharge of Youghiogheny River at Friendsville, Md.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1898						
August 17-31.....	1,510	158	447	1.50	0.84	0.969
September.....	290	95	140	.470	.52	.304
1898-99						
October.....	4,250	95	609	2.04	2.35	1.32
November.....	2,000	405	794	2.66	2.97	1.72
December.....	3,950	405	1,146	3.85	4.44	2.49
January.....	4,400	710	1,471	4.94	5.70	3.19
February.....	4,250	545	1,489	5.00	5.21	3.23
March.....	4,720	1,180	2,028	6.81	7.85	4.40
April.....	2,780	345	939	3.15	3.51	2.04
May.....	6,900	345	1,516	5.09	5.87	3.29
June.....	2,250	241	802	2.69	3.00	1.74
July.....	795	158	275	.923	1.06	.597
August.....	470	95	156	.523	.60	.338
September.....	241	71	129	.433	.48	.280
The year.....	6,900	71	945	3.17	43.04	2.05
1899-1900						
October.....	124	71	85	.285	.33	.184
November.....	625	124	254	.852	.95	.551
December.....	1,400	197	666	2.23	2.57	1.44
January.....	2,000	625	1,104	3.70	4.27	2.39
February.....	2,640	470	1,183	3.97	4.13	2.57
March.....	2,920	885	1,477	4.96	5.72	3.21
April.....	1,400	345	720	2.42	2.70	1.56
May.....	545	241	354	1.19	1.37	.769
June.....	545	241	658	2.21	2.47	1.43
July.....	1,080	95	282	.946	1.09	.611
August.....	405	95	172	.577	.67	.373
September.....	95	51	69	.232	.26	.150
The year.....	2,920	51	582	1.95	26.53	1.26
1900-1						
October.....	197	71	110	.369	.43	.238
November.....	6,900	124	640	2.15	2.40	1.39
December.....	3,650	197	1,033	3.47	4.00	2.24
January.....	2,000	545	805	2.70	3.11	1.75
February.....	1,650	625	660	2.21	2.30	1.43
March.....	5,200	625	1,932	6.48	7.47	4.19
April.....	5,040	885	2,198	7.38	8.23	4.77
May.....	3,350	345	1,197	4.02	4.64	2.60
June.....	2,000	241	672	2.26	2.52	1.46
July.....	795	95	187	.628	.72	.406
August.....	345	95	147	.493	.57	.319
September.....	241	71	114	.383	.43	.248
The year.....	6,900	71	808	2.71	36.82	1.75

Monthly discharge of Youghiogheny River at Friendsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1901-2						
October.....	95	22	76	0.255	0.29	0.165
November.....	290	71	135	.453	.51	.293
December.....	6,540	241	1,756	5.89	6.79	3.81
January.....	3,350	405	1,030	3.46	3.99	2.24
February.....	3,500	625	925	3.10	3.23	2.00
March.....	8,160	625	2,181	7.32	8.44	4.73
April.....	4,720	405	1,846	6.19	6.91	4.00
May.....	1,400	241	564	1.89	2.18	1.22
June.....	1,280	197	392	1.32	1.47	.853
July.....	2,640	158	660	2.21	2.55	1.43
August.....	545	71	189	.634	.73	.410
September.....	95	51	69	.232	.26	.150
The year.....			820	2.75	37.35	1.78
1902-3						
October.....	885	124	291	.977	1.13	.631
November.....	1,880	124	413	1.39	1.55	.898
December.....	5,360	710	2,238	7.51	8.66	4.85
January.....	4,880	405	1,417	4.76	5.49	3.08
February.....	6,030	710	2,296	7.70	8.02	4.98
March.....	4,720	710	1,817	6.10	7.03	3.94
April.....	2,640	405	1,058	3.55	3.96	2.29
May.....	1,080	158	492	1.65	1.90	1.07
June.....	5,200	470	1,823	6.12	6.83	3.96
July.....	1,880	158	804	2.70	3.11	1.75
August.....	290	95	175	.587	.68	.379
September.....	158	35	83	.279	.31	.180
The year.....			1,068	3.58	48.67	2.31
1903-4						
October.....	470	35	155	.520	.60	.336
November.....	1,180	71	281	.943	1.05	.609
December.....	197	197	197	.661	.76	.427
January.....	5,360	197	1,113	3.73	4.30	2.41
February.....	3,990	290	1,571	5.27	5.68	3.41
March.....	3,770	470	1,458	4.89	5.64	3.16
April.....	1,260	405	664	2.23	2.49	1.44
May.....	2,400	241	838	2.81	3.24	1.82
June.....	545	197	361	1.21	1.35	.782
July.....	345	95	192	.644	.74	.416
August.....	124	35	62	.208	.24	.134
September.....	51	51	51	.171	.19	.111
The year.....			576	1.93	26.28	1.25
1904						
October.....	71	51	67	.225	.26	.145
November.....	71	51	56	.188	.21	.122
December.....	4,450	71	775	2.60	3.00	1.68
1926-27						
October.....	1,110	97	484			
November.....	786	85	418			
December.....	1,350	240	512			
January.....	4,420	120	814			
February.....	1,920	214	898			
March.....	1,920	140	616			
April.....	1,570	140	500			
May.....	2,170	140	664			
June.....	1,070	140	347			
July.....	174	48	79.4			
August.....	744	63	199			
September.....	110	20	62.9			
The year.....	4,420	20	464			

Monthly discharge of Youghiogheny River at Friendsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1927-28						
October.....	4,000	97	556			
November.....	1,700	110	776			
December.....	4,570	300	1,140			
January.....	2,070	280	662			
February.....	2,440	300	899			
March.....	2,960	322	1,080			
April.....	4,280	371	1,030			
May.....	5,920	244	723			
June.....	1,210	258	709			
July.....	3,870	253	747			
August.....	1,470	160	472			
September.....	449	150	339			
The year.....	5,920	97	760			
1928-29						
October.....	244	69	169			
November.....	1,070	85	329			
December.....	3,480	260	660			
January.....	1,580	280	734			
February.....	3,090	160	414			
March.....	2,310	349	884			
April.....	3,220	354	1,360			
May.....	1,820	388	962			
June.....	1,160	156	471			
July.....	586	69	250			
August.....	449	156	283			
September.....	515	97	249			
The year.....	3,480	69	564			
1929-30						
October.....	5,770	143	792			
November.....	3,360	249	835			
December.....	2,190	305	725			
January.....	946	170	404			
February.....	1,470	170	815			
March.....	1,640	312	719			
April.....	1,360	178	524			
May.....	482	124	230			
June.....	994	73	199			
July.....	174	46	103			
August.....	253	46	124			
September.....	218	52	141			
The year.....	5,770	46	465			
1930-31						
October.....	276	52	124			
November.....	105	19	54.0			
December 1-27.....	492	45	143			
January 28-31.....	1,820	586	1,160			
February.....	1,840	214	693			
March.....	2,700	235	704			
April.....	2,600	201	898			
May.....	2,960	291	958			
June.....	1,210	110	353			
July.....	400	73	207			
August.....	908	97	293			
September.....	1,320	140	511			
1940-41						
December 4-31.....	1,070	382	678			
January.....	2,090	379	797			
February.....	783	384	523			
March.....	1,990	327	849			
April.....	2,720	126	622			
May.....	1,240	88	264			
June.....	6,540	128	922			
July.....	4,500	145	782			
August.....	1,510	103	429			
September.....	708	104	339			

Monthly discharge of Youghiogheny River at Friendsville, Md.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	493	144	349			
November.....	1,030	217	473			
December.....	1,310	140	425			
January.....	1,120	160	406			
February.....	1,930	210	706			
March.....	3,110	234	791			
April.....	3,810	213	725			
May.....	2,260	196	813			
June.....	367	124	210			
July.....	212	45	96.9			
August.....	2,910	50	505			
September.....	864	106	514			
The year.....	3,810	45	483			
1942-43						
October.....	2,070	193	534			
November.....	1,460	288	657			
December.....	6,120	350	1,343			
January.....	3,000	550	1,220			
February.....	3,030	572	1,233			
March.....	3,000	520	1,058			
April.....	3,220	347	1,055			
May.....	796	186	397			
June.....	546	57	186			
July.....	1,320	64	308			
August.....	1,480	184	415			
September.....	460	72	232			
The year.....	6,120	57	718			

Yearly discharge of Youghiogheny River at Friendsville, Md.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1899.....	945	3.17	43.04	2.05	818	2.74	37.13	1.77
1900.....	582	1.95	26.53	1.26	650	2.18	29.51	1.41
1901.....	808	2.71	36.82	1.75	823	2.76	37.58	1.78
1902.....	820	2.75	37.35	1.78	900	3.02	41.10	1.95
1903.....	1,068	3.58	48.67	2.31	872	2.93	39.74	1.89
1904.....	576	1.93	26.28	1.25	601	2.02	27.34	1.31
1927.....	464				553			
1928.....	760				651			
1929.....	564				665			
1930.....	465							
1941.....					565			
1942.....	483				592			
1943.....	718				-			

Big Piney Run near Salisbury, Pa.

Location.- Water-stage recorder, lat. 39°43'32", long. 79°02'57", an eighth of a mile upstream from Little Piney Run and 2½ miles southeast of Salisbury, Somerset County.

Drainage area.- 24.5 square miles.

Records available.- June 1932 to September 1943.

Extremes.- Maximum discharge, 4,300 second-feet Apr. 26, 1937 (gage height, 7.6 feet), from rating curve extended above 320 second-feet on basis of slope-area determination of flood of Mar. 17, 1936 (gage height, 7.5 feet); minimum, 0.10 second-foot Sept. 11-13, 17, 18, 24, 25, 27-29, 1943 (gage height, 0.98 foot).

Remarks.- Records do not include water diverted 3 miles above station (drainage area, 11.8 square miles) by city of Frostburg, Md., and from spring 700 feet above station to city of Salisbury, Pa. Records of water diverted by city of Frostburg can be obtained from office of Chief Engineer, Maryland State Department of Health, Baltimore, and that diverted by city of Salisbury, Pa., from water department of that city.

Monthly discharge of Big Piney Run near Salisbury, Pa.

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1932						
June.....	25	2.6	7.47			
July.....	23	1.0	3.86			
August.....	8.3	.41	1.74			
September.....	1.4	.25	.444			
1932-33						
October.....	126	.35	17.5			
November.....	244	13	51.1			
December.....	89	5	24.5			
January.....	100	21	37.4			
February.....	88	33	50.5			
March.....	736	22	123			
April.....	376	28	103			
May.....	330	23	94.2			
June.....	20	2.3	9.72			
July.....	33	1.1	5.22			
August.....	55	.5	5.12			
September.....	39	2.4	10.2			
The year.....	736	.35	44.3			
1933-34						
October.....	11	.9	2.45			
November.....	19	1.1	8.29			
December.....	196	4.7	39.6			
January.....	645	16	81.1			
February.....	32	5.0	11.8			
March.....	154	6.0	49.1			
April.....	227	15	62.1			
May.....	15	4.3	9.58			
June.....	137	1.7	12.1			
July.....	20	.9	2.91			
August.....	62	.6	7.16			
September.....	109	.8	10.5			
The year.....	645	.6	24.8			
1934-35						
October.....	45	3.1	9.23			
November.....	82	6.3	20.4			
December.....	102	8.0	35.0			
January.....	319	22	73.5			
February.....	219	13	62.2			
March.....	143	27	74.4			
April.....	224	14	55.1			
May.....	243	10	72.6			
June.....	56	5.5	18.8			
July.....	19	1.6	7.97			
August.....	164	1.5	31.3			
September.....	145	4.0	23.6			
The year.....	319	1.5	40.3			
1935-36						
October.....	12	1.8	4.09			
November.....	46	3.1	12.8			
December.....	120	6.6	31.9			
January.....	132	12	47.1			
February.....	550	9	73.2			
March.....	2,060	85	316			
April.....	254	14	61.5			
May.....	28	2.3	9.84			
June.....	9.0	.9	2.36			
July.....	39	.4	2.82			
August.....	34	.9	4.08			
September.....	3.8	.5	1.36			
The year.....	2,060	.4	47.4			

Monthly discharge of Big Piney Run near Salisbury, Pa.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1936-37						
October.....	244	0.6	20.2			
November.....	164	5.3	25.2			
December.....	148	3.4	53.2			
January.....	629	52	168			
February.....	117	22	48.9			
March.....	268	22	61.0			
April.....	2,000	24	150			
May.....	88	14	33.5			
June.....	23	2.6	9.06			
July.....	13	.7	2.88			
August.....	142	.6	14.0			
September.....	35	1.2	9.11			
The year.....	2,000	.6	49.6			
1937-38						
October.....	1,300	1.2	92.4			
November.....	77	13	28.8			
December.....	211	9.5	42.0			
January.....	86	10	28.6			
February.....	126	20	45.8			
March.....	231	21	57.4			
April.....	64	14	35.8			
May.....	126	6.3	40.3			
June.....	19	2.5	8.72			
July.....	188	1.0	26.3			
August.....	16	.3	3.79			
September.....	5.1	.5	1.64			
The year.....	1,300	.3	34.4			
1938-39						
October.....	1.3	.22	.444			
November.....	5.2	.20	1.05			
December.....	32	2.9	10.5			
January.....	150	2.9	29.4			
February.....	322	38	116			
March.....	192	18	73.0			
April.....	298	29	74.9			
May.....	62	3.8	19.8			
June.....	65	1.9	12.9			
July.....	55	3.4	12.4			
August.....	13	.69	3.20			
September.....	12	.18	1.38			
The year.....	322	.18	28.9			
1939-40						
October.....	36	.40	3.78			
November.....	24	2.0	7.51			
December.....	24	2.8	11.0			
January.....	27	4.0	6.94			
February.....	48	3.5	19.1			
March.....	373	16	95.6			
April.....	363	27	116			
May.....	269	8.7	33.7			
June.....	156	15	44.8			
July.....	103	2.0	16.7			
August.....	709	1.4	60.5			
September.....	150	5.5	35.6			
The year.....	709	.40	37.5			
1940-41						
October.....	31	3.1	7.39			
November.....	145	18.5	35.2			
December.....	110	25	55.0			
January.....	60	13.0	26.3			
February.....	53	9.7	17.6			
March.....	138	10.0	48.3			
April.....	510	8.5	65.9			
May.....	25	5.1	9.74			
June.....	536	7.3	62.5			
July.....	28	2.5	9.13			
August.....	35	.75	5.89			
September.....	5.4	.38	1.45			
The year.....	536	.38	28.7			

Monthly discharge of Big Piney Run near Salisbury, Pa.--Continued

Month	Discharge in second-feet				Runoff in inches	Discharge in million gallons per day per square mile
	Maximum	Minimum	Mean	Per square mile		
1941-42						
October.....	3.4	0.43	0.988			
November.....	18.5	1.5	4.92			
December.....	167	2.0	18.8			
January.....	53	6.1	18.3			
February.....	127	15.5	43.9			
March.....	399	12.5	83.8			
April.....	312	10.5	64.1			
May.....	505	8.2	81.7			
June.....	262	16.0	50.9			
July.....	264	3.8	23.2			
August.....	117	3.3	25.2			
September.....	91	5.4	24.2			
The year.....	585	.43	36.6			
1942-43						
October.....	2,740	7.0	164			
November.....	63	17.0	30.8			
December.....	738	17.0	85.4			
January.....	324	22	75.4			
February.....	174	28	71.3			
March.....	224	16.0	59.2			
April.....	429	12.5	73.2			
May.....	623	13.5	65.6			
June.....	58	2.4	12.7			
July.....	9.4	1.0	2.93			
August.....	2.5	.22	.912			
September.....	.30	.10	.146			
The year.....	2,740	.10	53.6			

Yearly discharge of Big Piney Run near Salisbury, Pa.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile	Discharge in second-feet		Runoff in inches	Discharge in million gallons per day per square mile
	Mean	Per square mile			Mean	Per square mile		
1933.....	44.3				40.7			
1934.....	24.8				26.0			
1935.....	40.3				39.0			
1936.....	47.4				51.6			
1937.....	49.6				55.1			
1938.....	34.4				21.6			
1939.....	28.9				29.8			
1940.....	37.5				43.9			
1941.....	28.7				22.6			
1942.....	36.6				56.2			
1943.....	53.6				-			
Highest.....	53.6				58.2			
Average.....	38.7				38.8			
Lowest.....	24.8				21.6			

MISCELLANEOUS DISCHARGE MEASUREMENTS

In addition to the records of stream flow obtained at gaging stations in Maryland and the Potomac River Basin and reported in the preceding pages, measurements of flow were made at other points, as shown in the following table.

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943

Wicomico River Basin				
Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1933 Nov. 3	East Branch Wicomico River	Wicomico River..	$\frac{1}{4}$ mile upstream from Pennsylvania Railroad bridge at Salisbury, Md.	16.8
1934 Jan. 18	.....do.....	.....do.....	.....do.....	18.9
Elk River Basin				
1934 Aug. 28	Big Elk Creek.	Elk River.....	Highway bridge 1 mile upstream from Elkton, Md.	28.6
July 11	.....do.....	.....do.....	Friendship Park in Elkton, Md.	36.0
11	Little Elk Creek	.....do.....	U.S. Highway 40 near Elkton, Md.	11.7
Susquehanna River Basin				
1933 July 12	Deer Creek....	Susquehanna River	$\frac{1}{2}$ mile downstream from Island Branch near Harkins, Md.	46.4
12	.....do.....	.....do.....	Highway bridge near Kalmia, Md.	115
12	Little Deer Creek	Deer Creek.....	1,000 feet downstream from highway bridge	12.5
30	Kellogg Branch	.....do.....	Mouth at Rocks, Md.....	.8
Aug. 17	.....do.....	.....do.....	.....do.....	1.0
Sept. 8	.....do.....	.....do.....	.....do.....	2.0
Oct. 12	.....do.....	.....do.....	.....do.....	1.0
1934 Jan. 17	.....do.....	.....do.....	.....do.....	1.5
Gunpowder River Basin				
1930 Dec. 16	Gunpowder Falls	Gunpowder River.	Highway bridge on Falls Road downstream from Prettyboy dam site near Weisburg, Md.	35.2
16	.....do.....	.....do.....	Upstream from Little Falls at Blue Mount, Md.	26.7
16	.....do.....	.....do.....	.....do.....	25.3
16	.....do.....	.....do.....	At Glencoe, Md.....	14.9
17	.....do.....	.....do.....	.....do.....	37.7
15	.....do.....	.....do.....	At Phoenix, Md.....	62.0
17	.....do.....	.....do.....	.....do.....	44.7
1931 Jan. 28	.....do.....	.....do.....	.....do.....	91.2
28	.....do.....	.....do.....	.....do.....	90.1
Feb. 26	.....do.....	.....do.....	.....do.....	82.3
Mar. 26	.....do.....	.....do.....	.....do.....	98.4
Apr. 29	.....do.....	.....do.....	.....do.....	90.2
May 28	.....do.....	.....do.....	.....do.....	84.2
1926 Nov. 30	.....do.....	.....do.....	Downstream from Lock Raven Dam, Md.	400
Dec. 15	.....do.....	.....do.....	.....do.....	238
1927 Apr. 9	.....do.....	.....do.....	.....do.....	264
June 28	.....do.....	.....do.....	.....do.....	38.2
28	.....do.....	.....do.....	.....do.....	36.4
1938 Dec. 19	.....do.....	.....do.....	.....do.....	42.6
1939 May 6	.....do.....	.....do.....	.....do.....	288
1930 Dec. 16	Little Falls.	Gunpowder Falls.	Mouth at Blue Mount, Md.	20.2
15	Greens Branch.	.....do.....	Mouth near Phoenix, Md....	1.3
1931 Jan. 28	.....do.....	.....do.....	.....do.....	1.79
Feb. 26	.....do.....	.....do.....	.....do.....	1.53
Mar. 26	.....do.....	.....do.....	.....do.....	2.22
Apr. 29	.....do.....	.....do.....	.....do.....	2.09
May 28	.....do.....	.....do.....	.....do.....	2.1
28	Western Run..	.....do.....	At Western Run, Md.....	28.3
1930 Dec. 17	.....do.....	.....do.....	Upstream from Beaver Dam Run near Ashland, Md.	27.8
1931 Jan. 28	.....do.....	.....do.....	.....do.....	30.4
Feb. 26	.....do.....	.....do.....	.....do.....	28.1
26	.....do.....	.....do.....	.....do.....	38.2
Mar. 26	.....do.....	.....do.....	.....do.....	31.6
Apr. 29	.....do.....	.....do.....	.....do.....	31.4
May 28	.....do.....	.....do.....	.....do.....	36.3

Miscellaneous discharge measurements in Maryland and Potomac River Basin
during the period 1892-1943--Continued

Gunpowder River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1930 Dec. 15	Western Run...	Gunpowder Falls	Downstream from Beaver Dam Run near Ashland, Md.	40.7
1931 Jan. 28	Beaver Dam Run	Western Run.....	At Cockeysville, Md.....	10.1
Feb. 26	....do.....	....do.....	....do.....	9.54
Mar. 26	....do.....	....do.....	....do.....	10.3
Apr. 29	....do.....	....do.....	....do.....	9.1
May 28	....do.....	....do.....	....do.....	9.17
1930 Dec. 15	....do.....	....do.....	Mouth near Ashland, Md..	10.1
17	....do.....	....do.....	....do.....	8.7
1931 Feb. 26	Fitzhugh Run..	Gunpowder Falls.	Near Basley, Md.....	.34
Mar. 26	....do.....	....do.....	....do.....	.64
Apr. 29	....do.....	....do.....	....do.....	.71
May 28	....do.....	....do.....	....do.....	.74
1931 Jan. 28	Long Quarter Branch	Peterson Run....	Near Towson, Md.....	.59
Feb. 26	....do.....	....do.....	....do.....	.52
Mar. 26	....do.....	....do.....	....do.....	.79
Apr. 29	....do.....	....do.....	....do.....	.90
May 28	....do.....	....do.....	....do.....	.80
1931 Jan. 28	Dulaney Valley Branch	Gunpowder Falls.	Near Dulaney Valley, Md..	1.00
Feb. 26	....do.....	....do.....	....do.....	.89
Mar. 26	....do.....	....do.....	....do.....	.91
Apr. 29	....do.....	....do.....	....do.....	.91
May 28	....do.....	....do.....	....do.....	1.21

Patapsco River Basin

1935 Aug. 27	Deep Run.....	Patapsco River..	Mouth near Elkridge, Md.	4.70
8	Stony Run.....	....do.....	Righway bridge 1 mile east of Elkridge, Md..	8.22
27	....do.....	....do.....	....do.....	6.11

South River Basin

1930 Oct. 28	Bacon Ridge Branch	South River.....	Highway bridge $\frac{1}{2}$ mile east of Chesterfield, Md.	3.25
1941 May 27	....do.....	....do.....	....do.....	5.03
Sept. 2	....do.....	....do.....	....do.....	3.79
1939 Nov. 15	....do.....	....do.....	$\frac{3}{8}$ mile north of defense highway near Annapolis, Md.	7.35
1940 Sept. 12	....do.....	....do.....	....do.....	6.70
1941 May 27	....do.....	....do.....	....do.....	5.88
Sept. 2	....do.....	....do.....	....do.....	3.77
1930 Oct. 28	North River..	....do.....	$\frac{1}{2}$ mile west of Chesterfield, Md.	.74
Nov. 24	....do.....	....do.....	1.6 miles upstream from mouth and $7\frac{1}{2}$ miles west of Annapolis, Md.	2.02
24	....do.....	....do.....	.8 mile upstream from mouth just below Defense Highway.	3.81
24	Unnamed tributary	North River....	From right bank of North River 1.6 miles upstream from mouth of North River.	1.52
24	....do.....	....do.....	From right bank of North River 1.2 miles upstream from mouth of North River	.12
24	....do.....	....do.....	From right bank of North River .9 mile upstream from mouth of North River	.04
1941 May 27	Rutland Branch	....do.....	.7 mile upstream from mouth near Annapolis, Md.	1.14
Sept. 2	....do.....	....do.....	....do.....	1.07
1939 Nov. 15	....do.....	....do.....	$\frac{1}{2}$ mile upstream from mouth near Rutland, Md.	1.77
1940 Sept. 12	....do.....	....do.....	....do.....	1.59
1930 Nov. 24	....do.....	....do.....	Mouth near Rutland, Md.	1.20
1939 Nov. 14	....do.....	....do.....	....do.....	1.62

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Patuxent River Basin				
Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1839 Aug. 15	Patuxent River	Chesapeake Bay..	1 mile downstream from Hawlings River near Ashton, Md.	18.8
	15	do.	do.	22.9
	18	do.	do.	45.6
	19	do.	do.	310
	19	do.	do.	227
Sept. 13	do.	do.	do.	24.6
19	do.	do.	do.	9.22
Nov. 29	do.	do.	do.	36.9
1940 Feb. 1	do.	do.	do.	41.0
Mar. 1	do.	do.	do.	88.2
	22	do.	do.	96.6
Apr. 26	do.	do.	do.	161
May 25	do.	do.	do.	135
June 26	do.	do.	do.	36.6
July 18	do.	do.	do.	29.0
	20	do.	do.	24.4
Aug. 2	do.	do.	do.	15.6
Sept. 12	do.	do.	do.	20.6
	16	do.	do.	23.1
	20	do.	do.	18.0
Dec. 11	do.	do.	do.	71.3
	11	do.	do.	68.3
1941 May 23	do.	do.	do.	37.4
June 2	do.	do.	do.	54.4
July 1	do.	do.	do.	28.7
	28	do.	do.	16.7
Sept. 13	do.	do.	do.	10.5
	15	do.	do.	12.3
Oct. 1	do.	do.	do.	5.03
Nov. 17	do.	do.	do.	15.9
Dec. 9	do.	do.	do.	14.6
1942 May 7	do.	do.	do.	44.6
June 12	do.	do.	do.	26.2
July 22	do.	do.	do.	13.2
Sept. 25	do.	do.	do.	16.9
1896 Sept. 18	do.	do.	At Laurel, Md.	161
Nov. 25	do.	do.	do.	123
1897 Feb. 11	do.	do.	do.	104
	23	do.	do.	612
Mar. 12	do.	do.	do.	155
May 25	do.	do.	do.	734
July 13	do.	do.	do.	539
	22	do.	do.	6,140
Sept. 3	do.	do.	do.	63
1898 Jan. 28	do.	do.	do.	359
May 19	do.	do.	do.	221

Potomac River Basin				
1897 Sept. 23	North Branch Potomac River	Potomac River...	Near Germania, W. Va...	54
	do.	do.	do.	38
1905 July 17	do.	do.	200 yards upstream from Laurel Run near Schell, W. Va.	136
1897 Sept. 27	do.	do.	Above mouth of Savage River near Blooming-ton, Md.	122
	do.	do.	do.	102
1942 May 23	do.	do.	At Luke, Md.	3,800
1897 Oct. 28	do.	do.	Near Twentyfirst, Md.	126
	28	do.	Near Gerstell, Md.	138
1930 Nov. 19	do.	do.	Near Cresaptown, Md.	36.6
1925 Sept. 3	do.	do.	4½ miles upstream from Cumberland, Md.	55.6
	3	do.	do.	56.8
	11	do.	do.	62.6
1923 Aug. 25	do.	do.	Below dam at Cumberland Md.	57.6
	Nov. 6	do.	do.	157
	6	do.	do.	130
1925 Sept. 12	do.	do.	do.	54.6
1895 June 20	Potomac River.	Chesapeake Bay..	At Great Cacapon, W. Va. above mouth of Cacapon River	331
	July 18	do.	do.	543
	Aug. 26	do.	do.	132

Miscellaneous discharge measurements in Maryland and Potomac River Basin
during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft. ²)
1897 Oct. 11	Potomac River.	Chesapeake Bay..	At Hancock, Md.....	202
1922 Nov. 15	.....do.....	.....do.....	At Williamsport, Md.....	310
1925 Sept. 4	.....do.....	.....do.....	.....do.....	634
.....do.....	.....do.....	.....do.....	.....do.....	190
1894 July 2	.....do.....	.....do.....	At Harpers Ferry, W. Va. above mouth of Shenandoah River	1,220
.....do.....	.....do.....	.....do.....	.....do.....	377
1897 Oct. 13	.....do.....	.....do.....	.....do.....	329
1930 Nov. 6	.....do.....	.....do.....	.....do.....	576
.....do.....	.....do.....	.....do.....	At Brunswick, Md.....	833
.....do.....	.....do.....	.....do.....	.....do.....	6,780
1942 Oct. 17	Boundary Channel of Potomac River	.....do.....	Near Memorial Bridge, Washington, D. C.	
1897 Sept. 24	Suffalo Creek.	North Branch Potomac River.	At mouth near Bayard, W. Va.	23
1905 July 16	Difficult Creek	.....do.....	At mouth 4 miles down- stream from Gorman W. Va.	10
1931 June 18	Stony River..	.....do.....	Below Stony River Dam, W. Va. (gate closed)	2.8
.....do.....	.....do.....	.....do.....	{ 4 inch gate opening}	19.0
.....do.....	.....do.....	.....do.....	{ 8 inch gate opening}	36.8
.....do.....	.....do.....	.....do.....	{ 10 inch gate opening}	46.8
.....do.....	.....do.....	.....do.....	{ 12 inch gate opening}	57.0
1905 July 16	.....do.....	.....do.....	Bridge near Gorman, W. Va.	78
1897 Sept. 25	.....do.....	.....do.....	Mouth near Schell, W. Va.	38
1931 June 18	Unnamed tributary	Stony River....	Mouth just below Stony River Dam	2.2
1897 Sept. 25	Abram Creek..	North Branch Potomac River	100 yards above railroad bridge near Harrison, W. Va.	7.4
1924 Nov. 1	Savage River..	.....do.....	600 feet upstream from Westernport dam at Sond, Md.	7.57
.....do.....	.....do.....	.....do.....	300 feet upstream from Westernport dam at Sond, Md.	5.36
.....do.....	.....do.....	.....do.....	100 feet downstream from Westernport dam at Sond, Md.	6.20
.....do.....	.....do.....	.....do.....	.....do.....	3.90
1897 Oct. 27	.....do.....	.....do.....	$\frac{1}{2}$ mile upstream from mouth and upstream from Piedmont water supply intake.	11
.....do.....	.....do.....	.....do.....	At mouth near Bloomington, Md.	7
.....do.....	Georges Creek.	.....do.....	At Cumberland & Pennsylvania Railroad bridge at Westernport, Md.	6
.....do.....	New Creek....	.....do.....	Mouth near Keyser, W. Va.	3.5
.....do.....	Wills Creek..	.....do.....	Above paper mill near Cumberland, Md.	12
1898 May 12	.....do.....	.....do.....	At pulp mill bridge, Cumberland, Md.	381
.....do.....	.....do.....	.....do.....	.....do.....	368
1923 Aug. 25	.....do.....	.....do.....	At Cumberland, Md.....	78
.....do.....	.....do.....	.....do.....	.....do.....	57
1925 Sept. 11	.....do.....	.....do.....	.....do.....	14.5
1905 July 18	Town Drain...	Wills Creek....	Mechanics Street bridge, Cumberland, Md.	18
1939 Sept. 3	Outfall sewer.	North Branch Potomac River	South Cumberland, Md....	13.0
1930 Nov. 18	Chesapeake & Ohio Canal..	Potomac River...	At heading in Cumberland Md.	18.0
.....do.....	.....do.....	.....do.....	.....do.....	18.8
1931 Mar. 12	.....do.....	.....do.....	.....do.....	48.5
.....do.....	.....do.....	.....do.....	.....do.....	32.0
.....do.....	.....do.....	.....do.....	.....do.....	14.2
1932 Feb. 29	.....do.....	.....do.....	.....do.....	14.5
.....do.....	.....do.....	.....do.....	.....do.....	73.7
.....do.....	.....do.....	.....do.....	.....do.....	52.2
.....do.....	.....do.....	.....do.....	.....do.....	25.5
1933 June 7	.....do.....	.....do.....	.....do.....	21.1
1923 Aug. 25	.....do.....	.....do.....	Opposite gaging station on North Branch Potomac River near Cumberland, Md.	116
.....do.....	.....do.....	.....do.....	.....do.....	46.7
1929 July 19	.....do.....	.....do.....	.....do.....	39.2
.....do.....	.....do.....	.....do.....	.....do.....	27.6
.....do.....	.....do.....	.....do.....	.....do.....	

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1945--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1930 Jan. 10	Chesapeake & Ohio Canal	Potomac River...	Opposite gaging station on North Branch Potomac River near Cumberland, Md.	21.0
Mar. 13	...do.....	...do.....	...do.....	32.7
Apr. 30	...do.....	...do.....	...do.....	28.0
May 27	...do.....	...do.....	...do.....	49.8
July 23	...do.....	...do.....	...do.....	32.7
Nov. 17	...do.....	...do.....	...do.....	28.6
1931 Jan. 15	...do.....	...do.....	...do.....	10.2
Mar. 12	...do.....	...do.....	...do.....	23.1
May 14	...do.....	...do.....	...do.....	48.5
July 20	...do.....	...do.....	...do.....	21.2
Sept. 19	...do.....	...do.....	...do.....	27.4
19	...do.....	...do.....	...do.....	25.8
25	...do.....	...do.....	...do.....	27.4
Dec. 4	...do.....	...do.....	...do.....	17.0
1932 Feb. 29	...do.....	...do.....	...do.....	14.5
Oct. 20	...do.....	...do.....	Opposite gaging station on Potomac River at Hancock, Md.	14.0
1933 May 13	...do.....	...do.....	...do.....	10
June 5	...do.....	...do.....	...do.....	38.4
Aug. 2	...do.....	...do.....	...do.....	20
7	...do.....	...do.....	...do.....	10
1930 Nov. 6	...do.....	...do.....	At Harpers Ferry, W. Va.	50.0
6	...do.....	...do.....	At Brunswick, Md.....	35.8
1905 Oct. 30	...do.....	...do.....	Opposite gaging station on Potomac River at Point of Rocks, Md.	78.8
Nov. 9	...do.....	...do.....	...do.....	90.0
1926 Oct. 27	...do.....	...do.....	...do.....	47
1930 June 6	...do.....	...do.....	...do.....	83
Nov. 1	...do.....	...do.....	...do.....	50.5
1931 Oct. 23	...do.....	...do.....	At Lock 7 at Glen Echo, Md.	21.7
1933 Oct. 4	...do.....	...do.....	...do.....	20
Nov. 2	...do.....	...do.....	...do.....	15
1934 Sept. 9	...do.....	...do.....	At Sycamore Island near Washington, D. C.	20
1941 Sept. 22	...do.....	...do.....	...do.....	64.2
23	...do.....	...do.....	...do.....	45.7
Oct. 21	...do.....	...do.....	...do.....	157
Dec. 17	...do.....	...do.....	Above Lock 5 near Washington, D. C.	9.9
1942 July 24	...do.....	...do.....	...do.....	146
Sept. 23	...do.....	...do.....	...do.....	169
1943 Feb. 19	...do.....	...do.....	...do.....	.29
1930 Mar. 25	...do.....	...do.....	At Chain Bridge, Washington, D. C.	264
June 5	...do.....	...do.....	...do.....	340
July 14	...do.....	...do.....	...do.....	242
22	...do.....	...do.....	...do.....	306
29	...do.....	...do.....	...do.....	317
29	...do.....	...do.....	...do.....	283
Aug. 15	...do.....	...do.....	...do.....	277
1931 July 10	...do.....	...do.....	...do.....	374
Aug. 27	...do.....	...do.....	...do.....	372
28	...do.....	...do.....	...do.....	351
Nov. 23	...do.....	...do.....	...do.....	303
1932 Mar. 30	...do.....	...do.....	...do.....	339
Apr. 4	...do.....	...do.....	...do.....	301
July 19	...do.....	...do.....	...do.....	379
1933 Apr. 26	...do.....	...do.....	...do.....	282
Nov. 2	...do.....	...do.....	...do.....	298
1934 June 15	...do.....	...do.....	...do.....	270
Nov. 20	...do.....	...do.....	...do.....	262
1935 May 28	...do.....	...do.....	...do.....	301
Sept. 9	...do.....	...do.....	...do.....	307
1936 May 1	...do.....	...do.....	...do.....	241
Sept. 24	...do.....	...do.....	...do.....	261
Oct. 13	...do.....	...do.....	...do.....	338
1937 Aug. 11	...do.....	...do.....	...do.....	288
1938 June 27	...do.....	...do.....	...do.....	278
Oct. 11	...do.....	...do.....	...do.....	325
1939 Mar. 20	...do.....	...do.....	...do.....	356
July 10	...do.....	...do.....	...do.....	380
Aug. 28	...do.....	...do.....	...do.....	336
Sept. 30	...do.....	...do.....	...do.....	180
1940 Feb. 17	...do.....	...do.....	...do.....	196
June 28	...do.....	...do.....	...do.....	284

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1940 Dec. 16	Chesapeake & Ohio Canal	Potomac River...	At Chain Bridge, Washington, D. C.	372
1941 Apr. 29	.....do.....	.....do.....	.....do.....	365
Ssept. 22	.....do.....	.....do.....	.....do.....	322
23	.....do.....	.....do.....	.....do.....	317
1942 Apr. 3	.....do.....	.....do.....	.....do.....	380
Aug. 26	.....do.....	.....do.....	.....do.....	446
1931 Sept. 19	Chesapeake & Ohio Spillway	Chesapeake & Ohio Canal	1 mile downstream from heading, near Cumberland, Md.	11.9
Dec. 4	.....do.....	.....do.....	.....do.....	2.9
1932 Feb. 29	.....do.....	.....do.....	.....do.....	7.0
July 28	.....do.....	.....do.....	.....do.....	16.4
Sept. 17	.....do.....	.....do.....	.....do.....	.74
1933 June 7	.....do.....	.....do.....	.....do.....	1.72
1895 July 18	Chesapeake & Ohio feeder	.....do.....	At Great Cacapon, W. Va.	164
Aug. 26	.....do.....	.....do.....	.....do.....	92
1941 Oct. 6	.....do.....	.....do.....	At Lock 5 near Washington, D. C.	247
Dec. 17	.....do.....	.....do.....	.....do.....	425
1942 Feb. 23	.....do.....	.....do.....	.....do.....	245
June 22	.....do.....	.....do.....	.....do.....	360
July 24	.....do.....	.....do.....	.....do.....	267
Sept. 23	.....do.....	.....do.....	.....do.....	243
1943 Feb. 19	.....do.....	.....do.....	.....do.....	38.0
1897 Sept. 25	Evitts Creek..	North Branch Potomac River	Mouth near Cumberland, Md.	21
1933 June 7	Beavers Run...	Evitts Creek...	Mouth near Bedford Valley, Pa.	3.25
Aug. 5	.....do.....	.....do.....	.....do.....	.25
1934 June 12	.....do.....	.....do.....	.....do.....	1.50
1938 Oct. 13	.....do.....	.....do.....	.....do.....	.3
June 13	.....do.....	.....do.....	.....do.....	3.49
1897 Sept. 28	Patterson Creek	North Branch Potomac River	At Baltimore & Ohio Railroad bridge near Patterson depot, W. Va.	12
24	South Branch Potomac River	Potomac River...	300 yards upstream from North Fork near Petersburg, W. Va.	96
1930 Apr. 24	.....do.....	.....do.....	At highway bridge 3 miles north of Moorefield, W. Va.	586
1931 Sept. 26	.....do.....	.....do.....	.....do.....	196
1897 Sept. 26	.....do.....	.....do.....	Just above bridge near Romney, W. Va.	205
1930 Mar. 11	.....do.....	.....do.....	Grace Bridge, 2½ miles southwest of Springfield, W. Va.	2,160
1941 Oct. 15	Unnamed tributary	Straight Crsek..	2.3 miles north of Monterey and 1.8 miles upstream from Straight Creek	1
14	.....do.....	Above unnamed tributary	In northern corner of corporate limits of Monterey, Va.	.12
1897 Sept. 24	North Fork of South Branch Potomac River	South Branch Potomac River	Mouth near Petersburg, W. Va.	17
24	South Fork of South Branch Potomac River	.....do.....	Near Moorefield, W. Va..	34
1940 Dec. 19	Stony Run.....	South Fork of South Branch Potomac River	Mouth near Moorefield, W. Va.	2.46
1897 Sept. 26	Mill Creek...	South Branch Potomac River	Mouth near Romney, W. Va.	3
25	Town Creek...	Potomac River...	200 yards above Chesapeake & Ohio Canal	11
29	Little Cacapon River	.....do.....	Near Little Cacapon, W. Va.	1.6
26	Purslane Run..	.....do.....	Near Paw Paw, W. Va.....	.5
26	Fifteenmile Creek	.....do.....	Near Little Orleans, Md.	.5
29	Sideling Hill Creek	.....do.....	Above slackwater near Lineburg, W. Va.	1.4
1939 Oct. 4	Cacapon River.	.....do.....	¼ mile upstream from Trout Run near Wardensvills, W. Va.	45.6
4	.....do.....	.....do.....	.....do.....	44.5

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1897 Sept. 29	Cecapon River.	Potomac River...	$\frac{1}{2}$ mile upstream from mouth near Greet Cecepon, W. Va.	81
1939 Oct. 4	Loet Rivar....	Cacapon River...	$\frac{1}{4}$ mile upstream from sinks, near River Sinke, W. Ve.	33.4
4	....do.....	....do.....	....do.....	32.7
Nov. 1	Trout Run.....	....do.....	$1\frac{1}{2}$ miles upstream from mouth near Werdensville, W. Ve.	16.4
1940 May 25	....do.....	....do.....	....do.....	20.7
1939 Nov. 1	Weites Run....	....do.....	Mouth near Wardensville, W. Ve.	7.73
1940 Mey 25	....do.....	....do.....	....do.....	16.2
1897 Oct. 11	Sir Johns Run.	Potomac River...	Near Sir Johns Run, W. Ve.	.9
11	Tonolowey Creek	....do.....	Mouth at Hancock, Md....	5.4
1940 Mer. 2	....do.....	....do.....	....do.....	19.1
1941 Apr. 21	....do.....	....do.....	....do.....	11.9
Mey 23	....do.....	....do.....	....do.....	2.49
Juna 23	....do.....	....do.....	....do.....	3.21
Dec. 22	....do.....	....do.....	....do.....	2.68
1942 Jen. 27	....do.....	....do.....	....do.....	7.98
Mer. 16	....do.....	....do.....	....do.....	15
Apr. 17	....do.....	....do.....	....do.....	22.9
May 19	....do.....	....do.....	....do.....	10
June 2	....do.....	....do.....	....do.....	26.6
Sept. 2	....do.....	....do.....	....do.....	3.18
Nov. 4	....do.....	....do.....	....do.....	17.0
1897 Sept. 30	Warm Spring Run	....do.....	Below Baltimore & Ohio Railroad bridge near Hancock, Md.	2.7
Oct. 1	Great Tonoloway Creek	....do.....	Mouth near Hancock, Md..	5.6
1	Sleepy Creek..	....do.....	$\frac{1}{4}$ mila upstream from Baltimora & Ohio Railroad bridge near Munson, W. Va.	2.3
1	Licking Creek.	....do.....	Mouth near Ernstville, Md.	22
1943 Sept. 29	Back Creek....	....do.....	Stete Highway 608, 1 mile south of Dehavan, Ve.	3.55
1937 Oct. 28	....do.....	....do.....	At site of former gaging station near Hedgesville, W. Ve.	14,500
1897 Oct. 7	....do.....	....do.....	Near Baltimora & Ohio Railroad bridge upstream from North Mountain, W. Ve.	6.5
Oct. 8	....do.....	....do.....	Mouth near North Mountain, W. Ve.	50
1941 Oct. 16	Hogue Creek...	Back Creek.....	U. S. Highway 50, 5.9 miles west of Winchester, Va. and 7 miles upstream from mouth.	1.16
1897 Oct. 7	Big Spring Run	Potomac River...	At Charlas Mills near Big Spring, Md.	3.8
7	Little Conococheague Creek	....do.....	At Charles Milla near Four Locks, Md.	2.5
2	Conococheague Creek	....do.....	500 feet below bridge near Williamsport, Md.	198
1941 Oct. 16	Opequon Creek.	....do.....	U. S. Highway 50, 4.1 miles southeast of Winchester, Ve. end 0.4 mile upstream from Buffalo Dick Run	.92
16	....do.....	....do.....	U. S. Highway 340, 3.5 miles east of Winchester, Ve. and 0.2 mile upstream from Abrens Creek	5.26
1930 Sept. 10	....do.....	....do.....	.4 mile west of Blairtown, W. Va.	43.6
1897 Oct. 8	....do.....	....do.....	Mouth near Bedington, W. Va.	50
1941 Oct. 16	Reerdon Spring	Opequon Creek...	4.3 milas southeast of Winchester and 0.5 mile upstream from mouth	.098

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued				
Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1941 Oct. 16	Abrams Creek..	Opequon Creek...	.5 mile southwest of Winchester and 1.7 miles upstream from Town Run	3.76
16	Merriman Spring	Abrams Creek....	1.0 mile west of Winchester at crossing of Winchester & Warden'sville railroad	2.87
16	Redbud Run....	Opequon Creek...	1.8 miles northeast of Winchester and 1.6 miles upstream from mouth	3.15
16	....do.....	....do.....	3.7 miles east of Winchester and 0.1 mile upstream from mouth	2.62
1905 May 9	Tuscarora Creek	....do.....	At Martinsburg, W. Va...	25.2
1898 Oct. 2	Antietam Creek	Potomac River...	At Stonebraker's paper mill near Hagerstown, Md.	70
1930 Nov. 8	....do.....	....do.....	Near Emmertsville, Md...	42.7
8	....do.....	....do.....	At Antietam, Md.....	63.5
1897 Oct. 9	Marah Run....	Antietam Creek..	At street crossing below south end drain, Hagerstown, Md.	3.6
1941 Oct. 15	North River...	South Fork Shenandoah River	At forest road bridge, 2.5 miles upstream from Staunton dam and 4 miles upstream from Broad Run	.182
15	....do.....	....do.....	At forest road bridge, 2.2 miles upstream from Staunton dam and 3.6 miles upstream from Broad Run	.200
15	....do.....	....do.....	At Stokesville, 1 mile downstream from Little River	0
15	....do.....	....do.....	.9 mile northeast of Mount Solon and 4.5 miles downstream from Little River	0
14	....do.....	....do.....	State route 42 at Bridgewater, Va.	33.7
1897 Mar. 22	....do.....	....do.....	Upstream from confluence with Middle River near Mount Meridian, Va.	841
7	....do.....	....do.....	....do.....	153
1895 Aug. 7	South Fork Shenandoah River	Shenandoah River	At Southern Railroad bridge 400 feet upstream from confluence with North Fork near Riverton, Va.	791
1897 Oct. 4	....do.....	....do.....	....do.....	572
31	....do.....	....do.....	....do.....	389
1930 Nov. 6	Shenandoah River	Potomac River..	Railroad bridge at Riverton Line Co., Front Royal, Va.	252
1894 July 6	....do.....	....do.....	At Harpers Ferry, W. Va.	1,220
1930 Nov. 6	....do.....	....do.....	....do.....	332
1941 Oct. 15	Unnamed tributary	North River....	At mouth, 2.6 miles upstream from Staunton Dam	0
15	....do.....	....do.....	At mouth, 2.0 miles upstream from Staunton Dam	.01
15	Skidmore Fork.	....do.....	At mouth, 1.8 miles west of Stokesville, Va.	0
15	Little River..	....do.....	At mouth, 1.1 miles northwest of Stokesville, Va.	0
1930 Nov. 5	Moesy Creek...	....do.....	Upstream from Todd Spring near Mount Solon, Va.	2.1
5	....do.....	....do.....	Downstream from Todd Spring near Mount Solon, Va.	10.5
1941 Oct. 16	....do.....	....do.....	Downstream from dam at Mount Solon, Va.	0

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1897 Oct. 30	Naked Creek...	North River.....	$\frac{1}{2}$ mile upstream from mouth near Verbena, Va.	25
1931 Aug. 26	Dry River.....	....do.....	Upstream from pumped wells in principal channel feeding intake for city of Harrisonburg and $2\frac{1}{2}$ miles upstream from Rawley Springs, Va.	.78
26	....do.....	....do.....	Downstream from pumped wells in principal channel feeding intake for city of Harrisonburg and $2\frac{1}{2}$ miles upstream from Rawley Springs, Va.	.92
Oct. 7	....do.....	....do.....	Upstream from intake for city of Harrisonburg and 2 miles upstream from Rawley Springs, Va.	4.9
Nov. 29	....do.....	....do.....	....do.....	1.9
1932 Mar. 31	....do.....	....do.....	....do.....	312
May 16	....do.....	....do.....	....do.....	233
Aug. 5	....do.....	....do.....	....do.....	3.7
26	....do.....	....do.....	....do.....	1.4
26	....do.....	....do.....	Downstream from intake for city of Harrisonburg and 2 miles upstream from Rawley Springs, Va.	.02
1941 Oct. 14	Middle River..	....do.....	U. S. Highway 250 at Churchville, Va.	13.9
1897 Mar. 22	....do.....	....do.....	At mouth near Mount Meridian, Va.	625
Apr. 19	....do.....	....do.....	....do.....	229
Nov. 7	....do.....	....do.....	....do.....	92
1941 Oct. 14	Buffalo Branch	Middle River....	Highway 254, 1.2 miles east of Buffalo Gap, Va., and 3 miles upstream from mouth	.2
15	Jennings Branch	....do.....	Highway 42 at Churchville Va.	.5
15	Whiskey Creek.	Jennings Branch.	Just upstream from Baylor Spring, 2 miles west of Churchville, Va., and 3 miles from mouth	.162
15	Baylor Spring.	Whiskey Creek..	At mouth, 2 miles west of Churchville, Va.	1.01
15	Christians Creek	Middle River....	U. S. Highway 11, 1.5 miles northeast of Greenville, Va.	1
14	....do.....	....do.....	U. S. Highway 250, 3.5 miles southeast of Staunton, Va.	12.8
1942 Sept. 15	South River...	South Fork Shenandoah River	Upstream from mill at Greenville, Va.	3.5
15	....do.....	....do.....	At highway bridge $\frac{3}{4}$ mile northwest of Lyndhurst, Va.	38.0
15	....do.....	....do.....	....do.....	38.1
15	....do.....	....do.....	At highway bridge $\frac{3}{4}$ mile northeast of Lyndhurst, Va., and $\frac{1}{4}$ mile upstream from Buck Creek	40.1
15	....do.....	....do.....	....do.....	39.4
15	....do.....	....do.....	$1\frac{1}{2}$ miles upstream from Waynesboro, Va.	44.2
1928 May 15	....do.....	....do.....	....do.....	40.1
16	....do.....	....do.....	1 mile upstream from Waynesboro, Va.	170
1941 Sept. 26	....do.....	....do.....	.5 mile upstream from Spring Branch and .7 mile upstream from Waynesboro, Va.	25.2
1927 Sept. 20	....do.....	....do.....	Highway bridge at Waynesboro, Va.	4,190
1928 May 15	....do.....	....do.....	$1\frac{1}{2}$ miles downstream from Waynesboro, Va.	215

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1941 Sept. 15	Ruck Creek...	South Fork Shenandoah River	.8 mile east of Lyndhurst, Va.	0.78
15	Unnamed tributary	.....do.....	1 mile west of Waynesboro, Va.	2.54
26	Spring Branch	South River.....	At mouth, .7 mile west of Waynesboro, Va.	1.8
15	Unnamed tributary	.....do.....	1 mile west of Waynesboro, Va.	2.54
1928 May 16	Kainer Spring..	.....do.....	Near Waynesboro, Va.	3.7
Aug. 13	.....do.....	.....do.....	.....do.....	3.5
1941 Sept. 15	.....do.....	.....do.....	.....do.....	1.00
1928 May 16	Baker Spring..	.....do.....	.....do.....	10.8
June 28	.....do.....	.....do.....	.....do.....	9.3
July 31	.....do.....	.....do.....	.....do.....	10.6
Aug. 13	.....do.....	.....do.....	.....do.....	8.0
June 28	Loth Spring...	.....do.....	.....do.....	.78
1936 Oct. 30	Beagles Gap Run	.....do.....	Ramsay Mountain, about 4 miles northeast of Waynesboro, Va.	.64
1897 Oct. 31	Elk Run.....	South Fork Shenandoah River	Near Elkton, Va.....	5.5
27	Hawksbill Creek	.....do.....	Near Luray, Va.....	71
1930 Apr. 18	Hite's Spring..	Hawksbill Creek.	1½ miles east of Lurey, Va.	6.6
18	Yager's Spring	.....do.....	1 mile north of Luray, Va.	12.1
18	Harnsberger's Springs, Nos. 1 & 2	.....do.....	South of Lurey, Va.....	1.0
18	Harnsberger's Spring No. 3	.....do.....	.....do.....	.8
19	Price's Spring No. 1	.....do.....	2 miles southwest of Lurey, Va.	3.1
19	Price's Spring No. 2	.....do.....	.....do.....	1.4
1941 Oct. 15	Mayors Rock and Stony Man Springs	Dry Run.....	At Lurey Reservoir 2.6 miles southeast of Lurey, Va.	.19
15	Heights Springs	.....do.....	1.2 miles northeast of Lurey, Va.	1.58
1897 Oct. 6	Flint Run.....	South Fork Shenandoah River	Near mouth 5 miles upstream from Front Royal, Va.	3.2
6	Gooneys Creek.	.....do.....	Near mouth 5 miles upstream from Front Royal, Va.	2.3
1941 Oct. 15	North Fork Shenandoah River	Shenandoah River	U. S. Highway 11, 0.4 mile upstream from Smiths Creek	20.6
1931 Oct. 7	.....do.....	.....do.....	Brocks Gap near Cootes Store, Va.	7.3
1895 Aug. 7	.....do.....	.....do.....	2/3 mile upstream from confluence with South Fork, near Riverton, Va.	362
1897 Oct. 4	.....do.....	.....do.....	.....do.....	140
1930 Nov. 6	.....do.....	.....do.....	Highway bridge at Riverton Station of Southern Railroad	103
1931 Mar. 30	Ebbing and Flowing Spring	Unnamed tributary of Linville Creek	4½ miles southwest of Broadway, Va.	1.4
1941 Oct. 14	Dry Fork.....	North Fork Shenandoah River	Highway 808, 0.4 mile east of Lacey Springs, Va.	7.45
14	Smiths Creek..	.....do.....	U. S. Highway 211, 1.2 miles east of New Market, Va.	11.5
15	Inflow of Mount Jackson Reservoir	Smiths Creek...	2 miles southeast of Mount Jackson and 1.3 miles upstream from mouth	.01
15	Mill Creek....	.....do.....	U. S. Highway 11 at mill at south edge of Mount Jackson and 0.1 mile upstream from mouth	3.79
15	Little Stony Creek	Stony Creek.....	8 miles west of Woodstock and 1.8 miles upstream from mouth	.63

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1936 July 2	Cedar Creek...	North Fork Shenandoah River	1 mile upstream from Marlboro Bridge near Winchester, Va.	19.2
6	...do.....	...do.....	...do.....	13.6
11	...do.....	...do.....	...do.....	9.0
1897 Oct. 12	...do.....	...do.....	...do.....	27
15	Passage Creek.	...do.....	At entrance to Fort Valley near Riverton, Va.	6
1905 Oct. 26	...do.....	...do.....	At Bucton, Va.....	40
Dec. 26	...do.....	...do.....	...do.....	50
1906 Apr. 13	...do.....	...do.....	...do.....	91
June 16	...do.....	...do.....	...do.....	132
1920 May 28	Little Passage Creek	Passage Creek...	Little Fort Valley near Strasburg, Va.	.6
28	...do.....	...do.....	At trail crossing in Mud Hole Gap near Strasburg, Va.	1.3
1931 Apr. 30	...do.....	...do.....	Mud Role Gap, 5 miles south of Strasburg, Va.	1.1
1897 Oct. 4	Happy Creek...	Shenandoah River	Mouth at Riverton, Va...	3.1
1941 Oct. 15	...do.....	...do.....	2.2 miles southeast of Front Royal and 0.9 miles upstream from Sloan Run	.224
15	Sloan Run....	Happy Creek....	At U. S. Remount Station 2.2 miles southeast of Front Royal, Va., at mouth	.282
1897 Oct. 7	Crooked Run...	Shenandoah River	Highway bridge on road to Cedarville, near Riverton, Va.	3.4
7	Wappon Run...	...do.....	At mouth near Linden, Va.	1.1
9	Stonebridge Run	...do.....	Near Milldale, Va.....	3
9	Parker Creek..	...do.....	Near Millwood, Va.....	4
8	Crystal Run...	...do.....	Near Berryville, Va.....	3
2	Bullskin Run...	...do.....	At mouth near Kabletown, W. Va.	7.5
1	Evitt Run....	...do.....	At mouth near Charles Town, W. Va.	12
25	Flowing Run...	...do.....	Near Millville, W. Va...	4.5
14	Catoctin Creek	Potomac River...	Near Baltimore & Ohio Railroad bridge near Catoctin Station, Md.	20
1943 Sept. 16	...do.....	...do.....	At Taylorsville, Va....	2.37
1897 Oct. 15	...do.....	...do.....	$\frac{1}{2}$ mile upstream from mouth, near Taylorsville, Va.	7
1930 Nov. 6	...do.....	...do.....	At mouth near Point of Rocks, Md.	.7
1897 Oct. 15	Tuscarora Creek	...do.....	Near Baltimore & Ohio Railroad bridge near Licksville, Md.	3.1
15	Monocacy River	...do.....	At mouth near Dickerson, Md.	219
1931 Oct. 6	Owens Creek...	Monocacy River..	Just upstream from Agees Branch, 1 mile west of Lantz, Md.	.14
1932 Aug. 3	...do.....	...do.....	...do.....	.68
Sept. 16	...do.....	...do.....	...do.....	.18
16	...do.....	...do.....	...do.....	.17
1933 Jan. 30	...do.....	...do.....	...do.....	8.18
June 2	...do.....	...do.....	...do.....	4.32
1931 Oct. 6	...do.....	...do.....	Just downstream from Agees Branch, 1 mile west of Lantz, Md.	.38
1932 Aug. 3	...do.....	...do.....	...do.....	.75
Sept. 16	...do.....	...do.....	...do.....	.18
16	...do.....	...do.....	...do.....	.19
1933 Jan. 30	...do.....	...do.....	...do.....	9.64
June 2	...do.....	...do.....	...do.....	4.80
1931 Oct. 30	Diversion for Tuberculosis Sanatorium at Sabillasville	Owens Creek....	Diverted by pumps from Owens Creek just upstream from Agees Branch (small pump)	.12
3	...do.....	...do.....	(large pump).....	.14
1940 Aug. 28	...do.....	...do.....	(small pump).....	.115
28	...do.....	...do.....	(large pump).....	.128
28	...do.....	...do.....	(pumps in unison)....	.132

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1931 Oct. 6	Agees Branch..	Owens Creek....	At mouth near Lantz, Md.	0.13
1932 Aug. 3	.....do.....	.....do.....	.....do.....	.17
Sept. 16	.....do.....	.....do.....	.....do.....	.032
1933 Jan. 30	.....do.....	.....do.....	.....do.....	3.93
June 2	.....do.....	.....do.....	.....do.....	1.33
1943 Aug. 4	Carroll Creek.	Monocacy River..	At weir operated by Camp Detrick, near Frederick, Md.	3.26
4	.....do.....	.....do.....	.....do.....	3.26
1897 Oct. 14	.....do.....	.....do.....	At Zents mill race, Frederick, Md.	5.6
14	.....do.....	.....do.....	At Frederick, Md.	6
14	Broad Run....	Potomac River..	Near Edwards Ferry, Md.	1
1941 Oct. 17	Goose Creek...	.....do.....	3.3 miles west of Middleburg and 0.3 mile upstream from Cromwell Run	.21
1943 Sept. 15	.....do.....	.....do.....	Highway 626, 2 miles northwest of Middleburg, Va.	3.18
1913 July 16	.....do.....	.....do.....	At former gaging station near Leesburg, Va.	40.5
1915 June 18	.....do.....	.....do.....	.....do.....	363
1897 Oct. 14	.....do.....	.....do.....	3/4 mile upstream from mouth, near Edwards Ferry, Md.	19
1943 Sept. 29	Little River..	Goose Creek....	Upstream from diversion dam, 1 mile west of Aldie, Va.	1.21
28	Broad Run....	Potomac River..	Highway 7, 8 1/2 miles southeast of Leesburg, Va.	.005
1897 Oct. 15	Seneca Creek..	.....do.....	At Seneca mill race, Seneca, Md.	25
1930 June 30	.....do.....	.....do.....	Seneca, Md.	1.2
30	Great Seneca Creek	Seneca Creek....	Dawsonville, Md.	1.6
30	Little Seneca Creek	.....do.....	.....do.....	.08
1933 Nov. 2	Dalecarlia Power Plant Tailrace	Potomac River..	Tailrace near Chain Bridge, Washington, D. C.	154
1934 June 15	.....do.....	.....do.....	.....do.....	120
Nov. 20	.....do.....	.....do.....	.....do.....	171
1935 May 28	.....do.....	.....do.....	.....do.....	169
Sept. 9	.....do.....	.....do.....	.....do.....	157
1938 Oct. 11	.....do.....	.....do.....	.....do.....	161
1939 Mar. 20	.....do.....	.....do.....	.....do.....	250
July 10	.....do.....	.....do.....	.....do.....	156
Aug. 28	.....do.....	.....do.....	.....do.....	116
Sept. 30	.....do.....	.....do.....	.....do.....	149
1940 Feb. 17	.....do.....	.....do.....	.....do.....	196
June 28	.....do.....	.....do.....	.....do.....	122
Dec. 16	.....do.....	.....do.....	.....do.....	195
1941 Apr. 29	.....do.....	.....do.....	.....do.....	160
Sept. 22	.....do.....	.....do.....	.....do.....	156
23	.....do.....	.....do.....	.....do.....	113
1942 Apr. 3	.....do.....	.....do.....	.....do.....	215
1938 Sept. 18	Rock Creek...	.....do.....	At East-West Highway near Washington, D. C.	8.42
18	.....do.....	.....do.....	Near Kalmia Street, Washington, D. C.	9.86
1941 Nov. 13	.....do.....	.....do.....	.....do.....	6.65
13	.....do.....	.....do.....	At Rock Bridge, Washington, D. C.	7.21
1938 Sept. 18	.....do.....	.....do.....	Below Pierce Mill, Washington, D. C.	10.9
1939 Aug. 8	.....do.....	.....do.....	.....do.....	13.2
1941 Nov. 13	.....do.....	.....do.....	.....do.....	7.13
1938 Sept. 18	.....do.....	.....do.....	Below Piney Branch, Washington, D. C.	11.4
1939 Aug. 8	.....do.....	.....do.....	.....do.....	15.3
1941 Nov. 13	.....do.....	.....do.....	.....do.....	7.36
1897 Aug. 18	.....do.....	.....do.....	At Zoological Park, Washington, D. C.	26
Nov. 21	.....do.....	.....do.....	.....do.....	37
1898 Jan. 28	.....do.....	.....do.....	.....do.....	89
May 18	.....do.....	.....do.....	.....do.....	95
1900 Apr. 24	.....do.....	.....do.....	.....do.....	77
1902 Feb. 27	.....do.....	.....do.....	.....do.....	1,810

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1940 May 10	Rock Creek....	Potomac River...	500 feet upstream from Connecticut Avenue bridge, Washington, D. C.	42.9
1908 Oct. 3	...do.....	...do.....	At Massachusetts Avenue bridge, Washington, D. C.	28.7
Nov. 11	...do.....	...do.....	...do.....	28.4
Dec. 10	...do.....	...do.....	...do.....	33.9
Dec. 12	...do.....	...do.....	...do.....	154
1909 Jan. 24	...do.....	...do.....	...do.....	178
Jan. 24	...do.....	...do.....	...do.....	165
Feb. 11	...do.....	...do.....	...do.....	169
Feb. 11	...do.....	...do.....	...do.....	129
Feb. 15	...do.....	...do.....	...do.....	77.6
Apr. 13	...do.....	...do.....	...do.....	66.1
Apr. 13	...do.....	...do.....	...do.....	61.7
May 17	...do.....	...do.....	...do.....	45.7
Nov. 29	...do.....	...do.....	...do.....	17.5
1938 Sept. 18	...do.....	...do.....	Bridle path bridge upstream from Q Street, Washington, D. C.	12.9
1939 Aug. 8	...do.....	...do.....	...do.....	14.6
1941 Nov. 13	...do.....	...do.....	...do.....	9.21
1938 Nov. 2	Indian Creek..	Northeast Branch Anacostia River	Near Berwyn, Md.....	6.52
Dec. 15	...do.....	...do.....	...do.....	8.19
1939 Jan. 18	...do.....	...do.....	...do.....	9.75
Jan. 30	...do.....	...do.....	...do.....	574
Feb. 2	...do.....	...do.....	...do.....	41.1
Feb. 3	...do.....	...do.....	...do.....	559
Feb. 4	...do.....	...do.....	...do.....	366
Feb. 6	...do.....	...do.....	...do.....	37.5
Feb. 27	...do.....	...do.....	...do.....	103
Apr. 4	...do.....	...do.....	...do.....	30.4
May 2	...do.....	...do.....	...do.....	30.4
June 13	...do.....	...do.....	...do.....	6.46
July 11	...do.....	...do.....	...do.....	7.32
Feb. 3	Paint Branch..	...do.....	Highway bridge at College Park, Md.	1,040
Feb. 3	...do.....	...do.....	...do.....	583
Feb. 3	...do.....	...do.....	...do.....	319
Feb. 4	...do.....	...do.....	...do.....	228
Feb. 4	...do.....	...do.....	...do.....	102
1940 June 19	Northwest Branch Anacostia River	Anacostia River.	.5 mile south of Norwood, Md. (one pump in operation at Mink Hollow)	7.93
June 20	...do.....	...do.....	(two pumps in operation).....	14.1
June 21	...do.....	...do.....	(no pumps).....	2.28
1930 Aug. 5	...do.....	...do.....	$\frac{1}{2}$ mile upstream from dam at Burnt Mills, Md.	1.0
1938 Sept. 19	Washington Suburban Sanitary Commission Pumping Station discharge	Northwest Branch Anacostia River	Diversion from Patuxent River Basin by Mink Hollow Pumping Station near Ashton, Md.	11.7
Sept. 19	...do.....	...do.....	...do.....	14.6
Sept. 19	...do.....	...do.....	...do.....	7.07
Sept. 19	...do.....	...do.....	...do.....	6.25
1939 Feb. 28	Fourmile Run..	Potomac River..	Old Glebe Road bridge near Alexandria, Va.	357
Feb. 28	...do.....	...do.....	...do.....	169
Feb. 28	...do.....	...do.....	...do.....	93.2
Mar. 1	...do.....	...do.....	...do.....	47.4
Feb. 28	...do.....	...do.....	South Arlington Ridge Road near Alexandria, Va.	386
Feb. 28	...do.....	...do.....	...do.....	220
Feb. 28	...do.....	...do.....	...do.....	135
Mar. 1	...do.....	...do.....	...do.....	58.9
Feb. 28	Long Branch..	Fourmile Run...	Mouth at South Glebe Road bridge near Alexandria, Va.	60.7
Feb. 28	...do.....	...do.....	...do.....	20.5
Feb. 28	...do.....	...do.....	...do.....	22.3
Mar. 1	...do.....	...do.....	...do.....	6.53

Miscellaneous discharge measurements in Maryland and Potomac River Basin during the period 1892-1943--Continued

Potomac River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1945 Sept. 28	Accotink Craek	Potomac River...	U. S. Highway 1 at Accotink, Va.	0.327
1941 Oct. 17	Broad Run.....	Occoquan Creek..	Highway 28, 3 miles west of Manassas, Va.	1.31
1943 Sept. 16	...do.....	...do.....	Highway 614, 4 miles south of Manassas, Va.	2.37
1941 Oct. 17	Cedar Run.....	Broad Run.....	1.3 miles northeast of Warrenton, Va.	.72
1943 Sept. 16	...do.....	...do.....	Highway 646, 8 miles south of Manassas, Va.	1.63
1941 Oct. 17	Bull Run.....	Occoquan Craek..	Highway 28, 3.2 miles north of Manassas, Va.	.13
1943 Sept. 16	...do.....	...do.....	...do.....	.15
27	Powells Creek.	Potomac River...	2 miles northeast of Dumfries, Va., and 2 miles upstream from mouth	.444
16	Quantico Creek	...do.....	At Dumfries, Va.....	.80
27	...do.....	...do.....	...do.....	1.12
16	Aquia Creak...	...do.....	Highway 641, 1 $\frac{1}{4}$ miles northeast of Garrieonville, Va.	.009
27	...do.....	...do.....	...do.....	.435

Monongahela River Basin

1935 May 22	Youghiogheny River	Monongahala River	At Sang Run, Md.....	786
July 22	...do.....	...do.....	...do.....	1,140
27	...do.....	...do.....	...do.....	154
Sept. 9	...do.....	...do.....	...do.....	692
1931 Oct. 27	...do.....	...do.....	At Friendsville, Md.....	330
1932 May 21	...do.....	...do.....	...do.....	675
1942 Juna 29	Pennsylvania Electric Co. Tailrace	Deep Creek.....	At Pannsylvania Electric Co. on Deep Creek, 7 miles north of Oakland, Md.	272
1932 Mar. 2	Big Piney Run.	Cassalman River.	Upstream from city of Frostburg pumping plant, 5 miles northwest of Frostburg, Md.	1.5
Sapt. 5	...do.....	...do.....	...do.....	.2
1936 Mar. 17	...do.....	...do.....	At water supply dam for city of Frostburg, Md.	2,120
1937 Sept. 24	Salisbury Spring	Big Piney Run...	2 $\frac{1}{4}$ miles southeast of Salisbury, Pa., and 700 feet upstream from gaging station on Big Piney Run	.094
1938 May 13	...do.....	...do.....	...do.....	.166
1939 Dec. 13	...do.....	...do.....	...do.....	.138
July 12	...do.....	...do.....	...do.....	.113
1940 Aug. 8	...do.....	...do.....	...do.....	.109
1941 Mar. 22	...do.....	...do.....	...do.....	.106
May 31	...do.....	...do.....	...do.....	.079
Aug. 1	...do.....	...do.....	...do.....	.073
1943 Apr. 9	...do.....	...do.....	...do.....	.086
July 10	...do.....	...do.....	...do.....	.079

APPENDIX

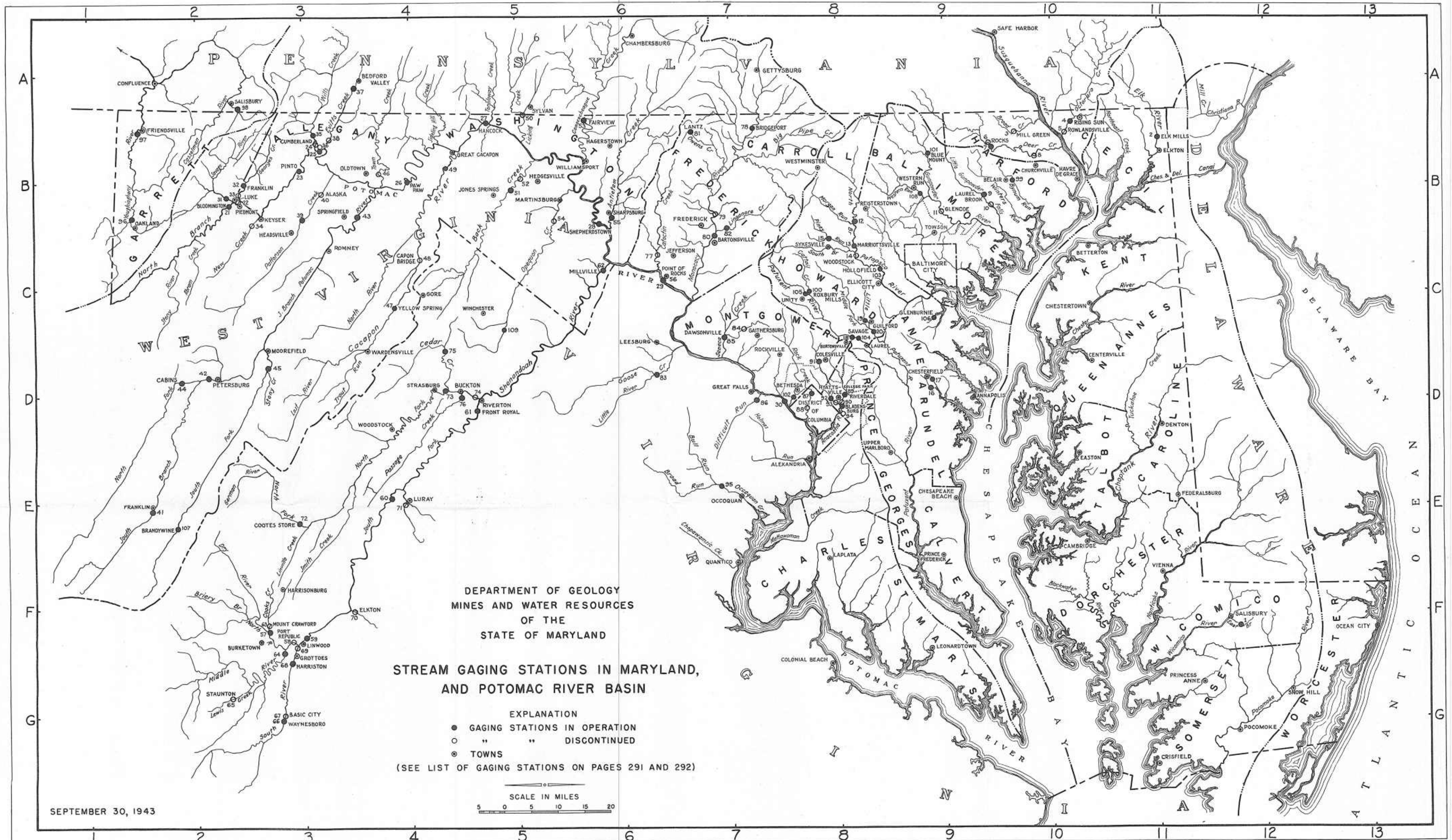
List of all gaging stations with location key..... 291
Map showing location of gaging stations, facing page..... 292

List of all gaging stations with location key

Name of gaging station	Location key
WICOMICO RIVER BASIN	
1. East Branch Wicomico River near Salisbury, Md.....	F-12
ELK RIVER BASIN	
2. Big Elk Creek at Flk Mills, Md.....	B-11
SUSQUEHANNA RIVER BASIN	
3. Broad Creek at Mill Green, Md.....	B-10
4. Octoraro Creek near Rising Sun, Md.....	B-10
5. Octoraro Creek at Rowlandsville, Md.....	B-10
6. Deer Creek above Kellogg Branch, at Rocks, Md.....	B-9
7. Deer Creek at Rocks, Md.....	B-9
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