

two hundred and sixty-nine days; the shortest during the same period was two hundred and sixteen days. In the year 1835, of 230 days navigation, 25,798 boats and rafts passed through one of its locks in the two directions. In 1836, of 216 days navigation, 25,516 boats, &c. passed. The average of these two years, would be equivalent to 34,516 boats, &c., for a year of navigation of 300 days. The largest number of boats, &c., which have passed on the Erie canal, during the same period of fourteen years, in any one month, was in October 1835, viz: 4,215, that is 136 per day, which is equivalent to 40,800 for a year of 300 days.

“The greatest number of boats which have passed in one day through a lock on the Erie canal, so far as we have any official statement on the subject, is 302. At this rate, the year of navigation of 300 days would give 90,600.

“The locks upon the Erie canal are single, as are at present those on the Chesapeake and Ohio canal. The latter however, have all been constructed with a view to a double lockage, when the exigencies of the company shall require it. The intelligent officers of the Erie canal, who have furnished the foregoing statements, concur in the opinion, that the double locks would increase the facilities to the extent of two thirds. The opinion is also distinctly expressed, that although under very favorable circumstances, 302 boats have passed in a single day, 250 may be taken as the number which may conveniently be passed.

“From these data, derived from long experience, we are led to these results :

	<i>Double Locks.</i>	<i>Single Locks.</i> <i>(<math>\frac{2}{3}</math> increase)</i>
1. Boats, &c. which have actually passed in 1835, in 230 days as above,	25,798	42,996
2. Do. do. in 1836. in 216 days,	25,516	42,526
3. Assuming 300 days of navigation for the year, and the average of the two years above would be	34,516	57,526
4. Assuming the same year of 300 days, and the rate of the greatest month's work would be	40,800	68,000
5. Do. do. do. assuming the rate of the greatest day's work as above, 302,	90,600	151,000
6. Do. do. do. assuming the rate, which it is represented, as above, may be		