

Potash	-	-	-	-	-	-	-	29.96
Soda	-	-	-	-	-	-	-	3.13
Lime	-	-	-	-	-	-	-	21.57
Magnesia	-	-	-	-	-	-	-	8.47
Phosphoric acid	-	-	-	-	-	-	-	4.09
Sulphuric acid	-	-	-	-	-	-	-	2.96
Carbonic acid	-	-	-	-	-	-	-	18.05
Silica	-	-	-	-	-	-	-	1.95
Chlorine	-	-	-	-	-	-	-	7.25
								<u>      </u>
								<u>      </u>

## TIMOTHY GRASS.

100 parts produce, 5.29 per cent. of ashes.

100 parts of the ashes contain;

Potash,	. . . . .	31.45
Soda,	. . . . .	1.53
Lime,	. . . . .	14.94
Magnesia,	. . . . .	5.30
Phosphoric acid,	. . . . .	11.29
Oxide of iron,	. . . . .	.27
Sulphuric acid,	. . . . .	4.86
Carbonic acid,	. . . . .	4.02
Chlorine,	. . . . .	1.71
Silica,	. . . . .	31.09

Upon knowing the weight of an average crop of each of these plants, we can now ascertain the aggregate quantity of inorganic matters abstracted from the soil by each crop, per annum.

The following gives the weight, per acre, of an assumed crop, with the amount of inorganic matters in each crop of the dried plant.

The first column gives the weight of the crop after being secured, the second after being dried at 212°.

	Weight of crop per acre in pounds.		Ashes per acre in pounds.
	As gathered.	Dried at 212°	
Indian corn, . . . grain,	2250	2000	12
Do. stalks, leaves, } &c., or fodder, }	9000	8000	288
Wheat, . . . . grain,	1000	900	18
Do. . . . . straw,	2000	1900	76
Rye, . . . . . grain,	1450	1300	29
Do. . . . . straw,	4500	4300	236
Oats, . . . . . grain,	2200	2000	64
Do. . . . . straw,	3500	3200	241
Tobacco, . . . . leaves,	800	750	108
Do. . . . . stalks,	600	550	50
Red clover, . . . (hay,)	3000	2700	236
Timothy, . . . . (hay,)	3000	2700	153
Potatoes, . . . . (tubers,)	9000	3000	124
Do. . . . . tops,	3000	1000	150