

Experimental Farms.

VARIETIES of Potatoes.

Name of Variety.	1896.	1895.	1894.	Average for the whole period.
Early Sunrise	Lbs. 367	Lbs. 407	Lbs. . . .	Lbs. 387
Queen of the Valley	358	462	. . .	410
Thorburn	351	329	357	346
Beauty of Hebron	308	257	406	323
Lee's Favourite	295	284	333	304
Early Rose	294	426	235	318
Burpee's Extra Early	276	276
Daisy	268	376	. . .	322
May Queen Early	259	269	. . .	264
Wonder of the World	247	344	406	332

These variations in yield from year to year of the same variety grown under what appears to be precisely similar conditions of soil and treatment, serve to show the folly of forming hasty conclusions on the tests of a single year.

EXPERIMENTS with Fertilizers on half plots ($\frac{1}{2}$ acre) of Potatoes after Wheat.

No. of Plot.	Fertilizers Applied Each Year.	EAST HALF OF PLOTS.					Total Yield per Acre.	
		Yield of 7 rows Early Rose.	Yield of 5 rows Queen of the Valley.	Yield of 5 rows Daisy.	Yield of 5 rows Early Sunrise.	Yield of 5 rows May Queen Early.		
1	Barn-yard manure (mixed horse and cow manure) well rotted, 12 tons per acre in 1888; 15 tons per acre each year since.	Lbs. 238	Lbs. 185½	Lbs. 151½	Lbs. 179½	Lbs. 154	Bush. 302	Lbs. 50
2	Barn-yard manure (mixed horse and cow manure) fresh, 12 tons per acre in 1888; 15 tons per acre each year since.	213½	166	141	166½	123½	270	10
3	Unmanured	74	57½	44	51½	43	90	. . .
4	Mineral phosphate, untreated, finely ground, 500 lbs. per acre	61	47	33	65½	47½	84	40
5	Mineral phosphate, untreated, finely ground, 500 lbs.; nitrate of soda, 200 lbs. per acre.	67½	55½	50	61	48	94	. . .
6	Barn-yard manure, partly rotted and actively fermenting, 6 tons per acre; mineral phosphate, untreated, finely ground, 500 lbs. per acre, composted together, intimately mixed, and allowed to heat for several days before using	195	154	155	136	129	256	20
7	Mineral phosphate, untreated, finely ground, 500 lbs.; nitrate of soda, 200 lbs.; wood ashes, unleached, 1,000 lbs. per acre.	144	102½	70	95	83½	165	. . .
8	Mineral phosphate, untreated, finely ground, 500 lbs.; wood ashes, unleached, 1,500 lbs. per acre.	115½	85	63	84½	52½	133	50
9	Mineral superphosphate, No. 1, 500 lbs. per acre.	88	81½	72	95½	53	130	. . .
10	Mineral superphosphate, No. 1, 350 lbs.; nitrate of soda, 200 lbs. per acre	83½	73½	61½	83	57	119	50
11	Mineral superphosphate, No. 1, 350 lbs.; nitrate of soda, 200 lbs.; wood ashes, unleached, 1,500 lbs. per acre	120	122	107	129½	68	182	30
12	Unmanured	45½	49	39½	65½	33½	77	40
13	Bone, finely ground, 500 lbs. per acre	66½	52	33½	67	37½	85	50
14	Bone, finely ground, 500 lbs.; wood ashes, unleached, 1,500 lbs. per acre.	139	119	69½	129½	72	176	. . .
15	Nitrate of soda, 200 lbs. per acre	66	78	36½	84½	51	105	30
16	Muriate of potash, 150 lbs. per acre	96	90½	58	83	67½	131	40
17	Sulphate of ammonia, 300 lbs. per acre	56½	54½	23½	41	33	69	50
18	Sulphate of iron, 60 lbs. per acre.	48½	58½	26½	43	30	69	10
19	Common salt (Sodium chloride), 300 lbs. per acre.	31	36	22	46	22½	52	50
20	Land plaster or gypsum (Calcium sulphate) 300 lbs. per acre	57½	55	39	58	39	83	10
21	Unmanured in 1889, mineral superphosphate, No. 2, 500 lbs. per acre each year since.	52	69	41	71½	53	95	50