

Experimental Farms.

Cluster; and 1894, 1895 and 1896, Banner. In 1896 the Banner was sown 2nd May, came up the 10th May, and was harvested 8th August, requiring from the date of sowing to maturity a period of 90 days. In every instance this year, excepting that of plot No. 12, the yield of oats has been very much above the average of the previous seven years. The crop of plot 2 fertilized with fresh barn-yard manure has again exceeded that of plot 1, treated with rotted manure and the average of the former for eight years now stands 6 bushels 19 lbs. higher than that of the latter.

EXPERIMENTS with Fertilizers on plots of Oats, $\frac{1}{20}$ th acre.

No. of Plot.	Fertilizers applied each Year.	AVERAGE YIELD FOR SEVEN YEARS.		8TH SEASON, 1896. VARIETY BANNER.		AVERAGE YIELD FOR EIGHT YEARS.				
		Yield of Grain.	Yield of Straw.	Yield of Grain.	Yield of Straw.	Yield of Grain.	Yield of Straw.			
		Per acre.	Per acre	Per acre.	Per acre	Per acre.	Per acre			
		Bush. lbs.	Lbs.	Bush. lbs.	Lbs.	Bush. lbs.	Lbs.			
1	Barn-yard manure, well rotted, 15 tons per acre	37	29½	2,817	84	14	4,590	43	23	3,039
2	Barn-yard manure, fresh, 15 tons per acre.	44	2½	3,163	93	18	4,400	50	8½	3,318
3	Unmanured	27	2½	1,542	51	6	2,070	30	3½	1,608
4	Mineral phosphate, untreated, finely ground, 500 lbs. per acre.	27	3¼	1,814	56	6	2,050	30	24½	1,843
5	Mineral phosphate, untreated, finely ground; 500 lbs., nitrate of soda, 200 lbs. per acre	43	10½	2,822	72	2	2,940	46	31	2,837
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.	36	14½	2,561	71	26	3,430	40	28½	2,670
7	Mineral phosphate, untreated, finely ground, 500 lbs.; nitrate of soda, 200 lbs.; wood ashes, unleached, 1,000 lbs. per acre	38	11½	3,277	73	8	3,590	42	23½	3,316
8	Mineral phosphate, untreated, finely ground, 500 lbs., wood ashes, unleached, 1,500 lbs. per acre	33	10¼	2,399	65	20	2,740	37	11½	2,442
9	Mineral superphosphate, No. 1, 500 lbs. per acre	30	7½	2,031	54	24	1,960	33	9½	2,022
10	Mineral superphosphate, No. 1, 350 lbs.; nitrate of soda, 200 lbs. per acre	40	4½	2,951	65	30	2,870	43	11½	2,941
11	Mineral superphosphate, No. 1, 350 lbs.; nitrate of soda, 200 lbs.; wood ashes, unleached, 1,500 lbs. per acre	33	11	2,561	47	32	1,060	35	5½	2,373
12	Unmanured	22	30¼	1,675	20	10	1,330	22	19½	1,632
13	Bone, finely ground, 500 lbs. per acre	28	26¼	2,018	52	22	2,060	31	26	2,023
14	Bone, finely ground, 500 lbs.; wood ashes, unleached, 1,500 lbs. per acre	30	13½	2,072	69	24	3,390	35	10½	2,237
15	Nitrate of soda, 200 lbs. per acre	40	6	2,682	71	6	3,030	43	31½	2,725
16	Muriate of potash, 150 lbs. per acre	30	30	2,247	53	8	2,390	33	23	2,265
17	Sulphate of ammonia, 300 lbs. per acre	38	15½	3,251	66	6	2,560	41	30½	3,165
18	Sulphate of iron, 60 lbs. per acre	30	4½	2,169	64	24	2,500	34	15½	2,210
19	Common salt (Sodium chloride) 300 lbs. per acre	28	33½	2,034	65	..	1,960	33	16½	2,025
20	Land plaster or gypsum (Calcium sulphate) 300 lbs. per acre	29	5½	2,186	45	20	1,790	31	7½	2,137
21	Mineral superphosphate, No. 2, 500 lbs. per acre	26	31	1,920	52	12	1,950	30	3½	1,924