

On the 8th of May, 1884, this seed was cut into single eyes and planted, each selection by itself in the garden, so that we had four short rows of each of ten varieties. The first row containing the cuttings of the largest tuber from the most productive hill, the second those of the smallest tuber from the most productive hill, the third row the cuttings of the largest tuber from the least productive hill, and the fourth those of the smallest tuber from the least productive hill.

The cultivation was alike and the treatment was alike during the whole period of growth, and when the tops were dead the rows were dug, and yield of merchantable and unmerchantable potatoes carefully noted.

In order to bring the results into comparison we calculated the yields obtained to the 100 eyes, and arranged the varieties in the order of merchantable yield, omitting one which is not entirely comparable. We have, then, in contrast nine varieties, the yield from the largest tuber from the most productive hill and the largest tuber from the least productive hill, the smallest tuber from the most productive hill and the smallest tuber from the least productive hill, as shown in the following table:

TABLE I.

	From most productive hill. Largest tuber. Lbs.		From least productive hill. Largest tuber. Lbs.	
	Merch.	Total.	Merch.	Total.
Rural Blush .....	116	138	102	123
Early Sunrise .....	109	123	51	62
Conqueror .....	94	103	56	62
Defiance .....	93	130	90	116
Adirondac .....	91	103	64	86
Walls' Orange .....	75	92	55	72
Beauty of Hebron .....	62	86	48	73
Crandall's Seedling .....	57	71	73	88
Early Mayflower .....	51	106	54	83
Average .....	83	106	66	85

TABLE I.—Continued.

	From most productive hill. Smallest tuber. Lbs.		From least productive hill. Smallest tuber. Lbs.	
	Merch.	Total.	Merch.	Total.
Rural Blush .....	96	119	52	79
Early Sunrise .....	82	102	27	55
Conqueror .....	65	78	27	42
Defiance .....	57	88	26	72
Adirondac .....	67	79	70	91
Walls' Orange .....	55	70	51	73
Beauty of Hebron .....	80	105	59	79
Crandall's Seedling .....	64	72	61	69
Early Mayflower .....	54	84	34	61
Average .....	69	88	45	69

We will now re-arrange this table in order to bring out a most important conclusion. We will bring in contrast the merchantable and the total yield from the smallest tuber of the most productive hill and that of the largest tuber from the least productive hill. Whereby it will be seen that the smallest tubers from the most productive hills yielded more crop than did the largest tubers from the least productive hills.

TABLE II.

	Smallest tuber from most productive hill. Lbs.		Largest tuber from least productive hill. Lbs.	
	Merch.	Total.	Merch.	Total.
Rural Blush .....	96	119	102	123
Early Sunrise .....	82	102	51	62
Conqueror .....	65	78	56	62
Defiance .....	57	88	90	116
Adirondac .....	67	79	64	86
Walls' Orange .....	55	70	55	72
Beauty of Hebron .....	80	105	48	73
Crandall's Seedling .....	64	72	73	88
Early Mayflower .....	61	84	54	83
Average .....	69	88	66	85

These tables (the more they are examined the stronger does the evidence appear,) furnish an important clue for progress in the improvement of the potato. They seem to indicate very