

Table 19.—"Rate of Seeding" Test with Garton No. 22 Oat.

Variety.	Date seeded.	Rate of Seed per Acre.	Date headed out.	Date cut.	Days to mature.	Size of Plot.	Yield per Plot.	Yield per Acre.
Garton 22	April 23	lb. 25½	July 27	Aug. 31	130	Acre. ¼	lb. 707	Bu. lb. 83 6
"	" 23	34	" 27	" 31	130	¼	700	82 12
"	" 23	42½	" 27	" 31	130	¼	640	72 12
"	" 23	51	" 27	" 31	130	¼	644	75 20
"	" 23	50½	" 27	" 31	130	¼	771	90 24
"	" 23	68	" 27	Sept. 1	132	¼	780	91 26

The above six plots were all seeded on April 23rd, and the results would rather indicate that the heavier seedling has given the best results. It is a surprising fact, however, that the ¾- and 1-bushel seedlings produced better results than the 1¼- and 1½-bushel seedlings. This somewhat interferes with the theory of the heavier seedling producing uniformly better results. It is simply another case where an accurate statement can only be deducted after years of experimentation. An important point to be observed is the fact that all yields reported are very good indeed for dry-land conditions, and further substantiates the contention that these areas may ultimately be used profitably for farming purposes.

NINE-ACRE BULK CROP OF OATS.

To test the possibility of oat production in even a more convincing manner a 9-acre field was seeded to Garton No. 22. This field was seeded three days after the plots of the above table, and matured in 123 days, or in seven days less time than the average of the plots recorded under Table 18. The field produced a total of 727 bushels, or on an average 80 bu. 7 lb. per acre. This is certainly an enormous yield for a field of this size. The field was seeded at the rate of 1¾ bushels per acre.

TEST WITH VARIOUS BARLEYS.

In all, four different varieties of barley were tried. The same statement may be made with reference to the Quillehena test as was made regarding the 105-Mile House experiments, to the effect that the varieties of barley tested were so different in character that no particular thought was given to comparative yields from each. The experiment was simply to test different varieties.

Table 20.—Results of growing Various Barleys.

Variety.	Date seeded.	Rate of Seed per Acre.	Date headed out.	Date cut.	Days to mature.	Size of Plot.	Yield per Plot.	Yield per Acre.
Smyrna	April 23	lb. 40	July 6	Aug. 19	113	Acre. ¼	lb. 510	Bu. lb. 87 24
Mensury	" 23	72	" 7	" 14	108	¼	1,015	84 20
Two-rowed Chevallier ..	" 23	72	" 19	" 20	125	¼	887	76 44
White Hull-less	" 23	40	" 12	" 19	113	¼	844	70 16

The Smyrna barley, which produced the largest yield, was imported from Montana, and as only a 5-lb. package was received it was seeded at a very light rate per acre, to give it ample opportunity to stool. It was therefore grown on a ¼-acre plot and produced at the rate of 87 bu. 24 lb. per acre. The yields of the Mensury and Two-rowed Chevallier are excellent, and, like many of the results obtained at both stations, would be remarkable yields wherever secured. The yield of 70 bu. 16 lb. for White Hull-less is considerably above the average, and augurs well for the production of such grains as will be necessary for the feeding of live stock.