Table 9.—"Rate of Seeding" Experiment with Oats.

Date seeded.	Rate of Seed per Plot.	Rate of seed per Acre.	Date headed out.	Date cut.	Days to mature.	Size of Plot.	Yield per Plot.	Yield per Acre.
	Lb.	Bu.				Acre.	Lb.	Bu. lb.
April 24	10½	1¼	July 1	Aug. 19	117	¼	460	53 0
" 24	12½	1½	" 1	" 19	117	¼	416	49 0
" 24	15	1¾	" 1	" 19	117	¼	816	96 0
" 24	17	2	June 29	" 21	119	¼	725	81 10
" 24	19	2¼	" 29	" 21	119	¼	651	76 17

In the above experiment the five plots were all seeded on the same day at the rate of 1¼, 1½, 1¾, 2 and 2¼ bushels per acre. It will be noted that 1¾ bushels per acre seems to give the best results, and while the 2- and 2¼-bushel rates of seeding give first-class returns, yet they do not compare with the 1¾-bushel seeding. The 1¼- and 1½-bushel rates seem to be entirely too light to suit conditions at 105-Mile House. This experiment shows clearly the necessity for a knowledge of the most suitable rate to seed per acre, because in the one case we may seed so light that we do not make full use of the stored-up moisture in the soil, and in the other case we seed too heavy for the stored-up moisture, and not only waste seed in the seeding, but actually cut down the final yield per acre.

BARLEY RESULTS.

Only three different varieties of barley were tried—the Smyrna, White Hull-less, and Mensury. Two of these were seeded on May 17th and the White Hull-less on May 21st. There was no particular motive in testing these barleys out in a comparative way, because they are very different in many respects. For instance, the White Hull-less is, as its name implies, a barley that hulls out just like wheat at threshing-time. The Mensury is a six-rowed variety. Both the Mensury and White Hull-less were tried last year and only gave us fair results.

Table 10.—Yields from Three Varieties of Barley.

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.
		Bu.				Acre.	Lb.	Bu. lb.
Smyrna	May 17	1	July 8	Aug. 18	93	1-10th	285	59 18
White Hull-less	" 21	1¼	" 18	" 26	97	¼	648	54 0
Mensury	" 17	1½	" 12	" 20	95	¼	607	50 28

The Smyrna barley, which appears at the head of the list, is a new variety received from Professor Atkinson, who is in charge of dry-land investigational work in the State of Montana. A small 5-lb. package of this sample was received, and the results are estimated from the actual yield from a $^1/_{10}$-acre plot. This barley has given splendid results in Montana, and apparently will suit the dry areas of British Columbia. It grew rapidly and, as will be noted, matured in less time than either of the other varieties. Mention is made particularly of the White Hull-less variety that produced 54 bushels per acre. This barley only produced 9 bu. 28 lb. last year, and it is remarkable that the yield should be so very large for the past summer. It will be well to introduce a "date of seeding" and "rate of seeding" test for this variety, as its success means much in the way of stock-feeding for settlers who may come into the district. This year's results promise well for White Hull-less barley.

DATE OF SEEDING WITH TWO-ROWED CHEVALIER BARLEY.

The Two-rowed Chevalier barley produced the best results last year, and all the seed produced was saved for a "date of seeding" experiment in 1915. During the past summer