

Table 7.—Experiment with Larger Areas of Oats.

Variety of Oat.	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.	Bu.	Bu. lb.
Banner	April 30	1½	July 13	Aug. 23	115	5	310	62 0
Sixty-day	May 4	1½	" 1	" 8	93	3	174	58 0
O.A.C. No. 72 ..	" 5	1½	" 8	" 22	100	3	153	51 0
Abundance	" 7	1½	" 12	" 22	107	3	139½	46 17

It will be noted that all four varieties were seeded at the same rate per acre, and, in addition to this, were seeded from two to nine days later in the spring than were the plots recorded in Table No. 6 above. We think, perhaps, that the later seeding may account somewhat for the smaller yields obtained, but we will have something to say on this point later when the results of our "date of seeding" experiments are recorded. The above table also shows that the same varieties grown on a larger plot mature in from two to ten days less time. Special attention is called to the Sixty-day oat recorded in the above table. This oat was also imported by the writer from the dry areas of Montana two years ago. It produced 38 bushels per acre in 1914 and 58 bushels during the past summer. While the above yields are perhaps not large, yet for a dry-land area and for larger plots they are indeed good yields.

"DATE OF SEEDING" EXPERIMENT.

For the experiment regarding the "date of seeding" of oats the New Market variety was selected. This variety was grown last year on a 17-acre field and produced 39 bushels per acre. Each plot was seeded at the rate of 1½ bushels per acre. The first plot was seeded on April 15th, and another plot seeded one week later, and this was continued until all five plots were sown. As will be noted from the following table, the dates of seeding were as follows: April 15th, 22nd, 29th, May 6th and 13th.

Table 8.—"Date of Seeding" Experiment with New Market Oats.

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.
April 15	1½	July 1	Aug. 18	125	¼	800	94 4
" 22	1½	" 4	" 18	118	¼	900	105 30
" 29	1½	" 10	" 26	119	¼	818	96 8
May 6	1½	" 17	" 31	117	¼	729	85 26
" 13	1½	" 20	" 31	110	¼	706	83 2

It will be noted that the plots seeded on April 22nd matured in seven days less time than did the one which had been seeded one week earlier. The plots seeded April 22nd, 29th, and May 6th all took practically the same time to mature, while that which was seeded on May 13th actually matured seven days earlier than that which was seeded one week earlier, but the yield for the last-sown plot is the smallest of all. In the yields per acre, which is really the important consideration, the plot seeded April 22nd gave the best returns in the enormous yield of 105 bu. 30 lb. per acre. The yields from the plots seeded April 29th, May 6th, and May 13th are in the exact order of the date of seeding, producing 96 bu. 8 lb., 85 bu. 26 lb., and 83 bu. 2 lb. respectively. So that from the above experiment and for the year 1915 April 22nd seems to be about the best date for the seeding of oats.

"RATE OF SEEDING" EXPERIMENT WITH OATS.

It was also thought advisable to try a "rate of seeding" experiment with oats. The New Market variety was used in this test and the results were as follows:—