

Huron Wheat	1,805 lbs. or 30 bush.	5 lbs. per acre.
Arthur Selected Peas.	1,507 lbs. or 25 bush.	17 lbs. per acre.
Manchurian Barley	1,015 lbs. or 21 bush.	7 lbs. per acre.
Banner Oats.	2,150 lbs. or 63 bush.	8 lbs. per acre.

Part of the above is sent to Ottawa for distribution to farmers, and the remainder, in so far as it is not required for use on this farm, will be for sale at the following prices, on board cars Cap Rouge: Oats, \$1.00 per bushel of 34 lbs.; barley, \$1.50 per bushel of 48 lbs.; wheat, \$1.75 per bushel of 60 lbs.; peas, \$2.50 per bushel of 60 lbs.

EXPERIMENTAL FARM, BRANDON, MANITOBA.

W. C. McKillop, B.S.A., Superintendent.

THE SEASON.

The spring of 1914 was rather cold and backward, seeding was a little later than average and growth was slow at first. However, moisture was plentiful and when warmth did come, crops advanced rapidly. By July 1 prospects were excellent, but from that time on unfavourable conditions prevailed. Extreme heat, combined with winds and shortage of rain, made crops mature much too fast. As a result yields were from two-thirds to three-quarters of a normal crop.

SPRING WHEAT.

Four named varieties of wheat were tested this year. As usual, Marquis has given the best returns with a yield of 36 bushels 30 lbs. per acre as compared to 22 bushels 35 pounds of Red Fife per acre. The hot weather in July was especially hard on Red Fife and late ripening crops. The five-year average for these two varieties is 42 bushels 36 pounds for Marquis, and 37 bushels 23 pounds for Red Fife. The average number of days maturing is 105 for Marquis and 111½ for Red Fife. The other two varieties, Prelude and Pioneer, have no outstanding merits for this section of Manitoba, and as they are bearded, and easily shelled, they are not recommended. Eleven new varieties under numbers were also tried.

OATS.

Fifteen varieties of oats were tested in uniform duplicate plots. They were sown on summer-fallow land on May 9 at the rate of 2½ bushels per acre. The early varieties did best this year, as they were further advanced when the heat wave came and did not suffer so severely. Daubeney and Orloff are the two highest yielding varieties this year, but as they are usually rather low, the five-year average is considered to be a better guide. Banner is first on the five-year average with 95 bushels 33 pounds per acre. Twentieth Century is second with 93 bushels 16 pounds per acre. Gold Rain, Swedish Select and Victory are the next three and are only slightly below the leaders. We do not consider that any of the newer varieties have equalled Banner for general all-purpose use in Manitoba.

SIX-ROWED BARLEY.

Eight regular named varieties of six-rowed barley were tested this year, and in addition six new sorts under numbers were tried out. Manchurian, Dr. Saunders' selection of the old standard variety Mensury, has given the best returns this year, 56 bushels 37 pounds per acre. Garton's No. 68 and O. A. C. No. 21 have also given good results. These three varieties are recommended for Manitoba.