

good condition of tilth and as uniform in character as possible, to provide for eight fifth acre plots. Two of these plots were to be sown early in the season at each farm, and two on the same day each week following for four sowings, thus making the sowing period cover three weeks. The quantity of seed to be used at each sowing was at the rate of 40 lbs. per acre for one of the plots, and 80 lbs. per acre for the other. Directions were also given that when the flax had reached that degree of maturity when about one-third of the seed was ripe, the flax on one half of each plot was to be pulled and tied in small bundles and when cured in the field the weight of the straw ascertained. On the other half of each plot the seed was to be allowed to ripen, and then harvested and threshed to find out the yield. Arrangements were also made for packing and forwarding a bale of 50 lbs. weight of the pulled flax from each plot to Messrs. J. & J. Livingston, of Baden, Ontario, to be retted and scutched and the quantity and quality of the fibre in each case ascertained. These experiments in cultivation were conducted at the Central Experimental Farm at Ottawa, and at the Branch Farms at Nappan, N.S., Brandon, Man., Indian Head, Sask., and at Agassiz, B.C.

The instructions given were carefully carried out, and the 400 lbs. of pulled and cured flax sent to Baden, Ont., from each farm. At the conclusion of the test the Messrs. Livingston reported that the flax grown at Nappan, Ottawa and Agassiz had produced a profitable proportion of fibre of good quality, but that the samples grown at Brandon and Indian Head had given but a small yield of fibre, which was of poor quality. Their opinion was that the fibre produced from the flax grown on these two latter farms was not sufficient to pay the cost of working.

PRODUCTION OF CURED FLAX FOR FIBRE AT OTTAWA.

The heaviest yield of pulled flax grown at Ottawa—7,878 lbs. per acre—was gathered from a plot which had 80 lbs. of seed per acre, sown on May 7. The second heaviest crop was also had from a plot sown with seed at the rate of 80 lbs. per acre, sown on May 14. The pulled flax in this instance weighed 6,657 lbs. per acre. The average weight of pulled straw from the four plots sown with 80 lbs. of seed per acre was at the rate of 6,379 lbs. per acre, while the four plots sown at the rate of 40 lbs. per acre gave an average of 5,616 lbs. of cured flax per acre.

AT NAPPAN, NOVA SCOTIA.

The heaviest yield of pulled flax grown at Nappan—8,200 lbs. per acre—was from a plot sown June 4, with 40 lbs. of seed per acre, and the second heaviest, 6,000 lbs. per acre, from one sown on May 28, with 80 lbs. per acre. The average weight of cured straw grown from the plots sown with 80 lbs. of seed per acre was 4,850 lbs. per acre, whereas the four sown with 40 lbs. per acre gave an average of 5,350 lbs. per acre.

AT BRANDON, MANITOBA.

The heaviest yield of pulled flax grown at Brandon—1,900 lbs. per acre—was from a plot sown on May 23, with 40 lbs. of seed per acre. The second heaviest, 1,270 lbs. per acre, was had from one sown June 6, with 80 lbs. of seed per acre. The average weight pulled and cured from the plots sown with 80 lbs. of seed per acre was 1,237 lbs. per acre, while the four plots sown with 40 lbs. of seed per acre gave an average crop of 1,327 lbs. per acre.

AT INDIAN HEAD, SASKATCHEWAN.

The heaviest weight of pulled flax, cured, grown at Indian Head—4,240 lbs. per acre—was obtained from a plot sown on May 23, with 80 lbs. of seed per acre. The second heaviest, 4,120 lbs. per acre, was from a plot sown May 30, with 80 lbs. of seed per acre. The average weight of pulled flax cured from the plots sown with 80 lbs. of seed per acre was 4,030 lbs. per acre, while the four plots sown with 40 lbs. per acre produced an average crop of 3,360 lbs. of cured flax per acre.