

OATS.

Cutworms did damage on the six plots tested, and no data of value could be secured.

PEAS.

Peas made a good showing. Prince and Paragon yielded 62 and 54 bushels per acre respectively. Solo, a new, short-strawed, early maturing variety, gave 56 bushels per acre. Ten varieties were tested.

BUCKWHEAT.

Silver Hull and Japanese buckwheat were frosted before they matured.

EXPERIMENTAL STATION FOR CENTRAL ALBERTA, LACOMBE, ALBERTA.

G. H. Hutton, B.S.A., Superintendent.

CHARACTER OF SEASON.

The seeding season at the Lacombe station opened about the middle of April with the land in good tilth. Seeding on plots commenced on April 15. The season of 1914 was ideal, plenty of moisture, heat and sunshine during the growing season to ensure maximum yields. All the varieties were seeded on black loam soil, which had previously grown a crop of roots. One-fortieth acre plots were used in all cases.

WHEAT.

Sixteen varieties of wheat were tested in the season of 1914. Several of these are new and are recorded under number only. Some of the numbered varieties show exceptional promise and compare very favourably with the older varieties, in quality and yield. One of them yielded as high as 73 bushels and 50 pounds per acre. Of the standard named varieties Early Russian, Huron and Bishop were the highest yielders, while Early Russian is the heaviest yielder this year, it is not a variety to be recommended for this district because of its weakness in straw. Prelude, although not one of the highest yielders, is a variety that should gain popularity, especially in those districts where the season is short, because of its early ripening quality. Prelude at this station ripened in 127 days and yielded 36 bushels and 40 pounds per acre.

BARLEY.

Fifteen varieties were tested in 1914. Several of these are new and under number only. However, it is sufficient to say that several of the numbered varieties compare well with the standard varieties. The six-rowed sorts outyielded the two-rowed sorts. Among six-rowed named varieties Mansfield and Odessa were the leading sorts, yielding as high as 89 bushels per acre. The highest yielding two-rowed varieties were Swedish Chevalier, Invincible and Gold. Swedish Chevalier ripened in 136 days and yielded 35 bushels per acre.

OATS.

Twelve varieties of oats were tested, being sown April 16. The leading varieties were, Banner, Danish Island and Irish Victor. These ripened in 137 days and yielded in each case over 100 bushels per acre, Banner topping the varieties with 116 bushels, and 16 pounds per acre. Daubeney and Eighty day are the two earliest varieties, ripening in about 126 days and yielding 68 bushels per acre.

PEAS.

Owing to an invasion of cut-worms in the early summer, the test plots of peas were totally destroyed. Several of the Barley plots suffered slightly from the invaders. However, with the application of Paris green and bran their attack was soon subdued.