

it has varied from 48 bushels and 26 lbs per acre to 29 bushels and 7 lbs. At Nappan, N.S., the experimental plots have returned at the rate of 95 bushels 10 lbs per acre, and at Agassiz, B.C., 58 bushels 8 lbs per acre.

Bonanza—This is another white oat of fair promise, but closely resembles Prize Cluster and Victoria Prize. On the Central Experimental Farm it gave a crop in 1891 of 23 bushels and 30 lbs per acre; at Nappan, N.S., 77 bushels 32 lbs; at Indian Head 72 bushels 22 lbs, and at Agassiz, B.C., 37 bushels 12 lbs.

Banner—This very promising variety has made a good record for itself during the past season. It is a branching oat, with a long kernel, not very plump or heavy, but very vigorous and productive; on the Central Experimental Farm it has varied in yield on different soils from 87 bushels 22 lbs to 37 bushels 13 lbs per acre. At the branch farm at Nappan, N.S., it has given on experimental plots at the rate of 94 bushels 4 lbs per acre; at Brandon, Manitoba, 81 bushels 33 lbs; at Indian Head, N.W.T., 86 bushels 24 lbs, and at Agassiz, B.C., 73 bushels 32 lbs per acre.

American Triumph—A few reports have been received giving the results of the tests of samples of this grain. They nearly all speak of the variety as being late, and this agrees with our experience in Ottawa. As there are many earlier ripening varieties which have given on the average much better results, there seems no special reason for continuing the distribution of American Triumph.

TWO ROWED BARLEY.

In the annual report of the experimental farms for 1890 reference was made to the importation from England by the Government of a large lot of one of the best varieties of two-rowed barley for seed, which was sold to farmers at less than the cost of importation, in order to thoroughly test the value of this grain in all parts of the Dominion. A shipment of 400 English bushels of the barley grown from that seed, weighing about 52 lbs to the bushel, was subsequently forwarded to England to be malted and brewed by one of the leading brewers there. Before being forwarded the barley was thoroughly cleaned under the supervision of the Director and the small kernels and as much as possible of the broken seed removed. In October a report of the results obtained by the brewer was received, which was highly satisfactory and showed that good two-rowed barley, such as will meet the approval of the English brewer, can be grown in Canada. Many samples of barley much better in quality and heavier have since been received at the Farm from farmers in Ontario. Favorable reports as to the yield of the barley have been received from every hand, and it is the general opinion that the crop of two-rowed is much better than the six-rowed.

Prize Prolific—This useful variety has been widely distributed, and the reports of the past season have been on the whole very favorable. In some localities the straw is reported to be weak, a failing which in wet seasons seems to be common to all the two rowed barleys of the Chevalier type, not because the straw is less stout than other sorts, but because the pendant head when weighted with water proves a much greater strain on the straw than do the

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more upright heads which characterize the Duckbill, Goldthorpe, Italian and other sorts of that class. At the Central Experimental the Prize Prolific barley has yielded in different fields and plots from 33 bushels 18 lbs to 65 bushels 10 lbs; at the branch farm at Nappan, N.S., 50 bushels; at Brandon, Man., 74 bushels 34 lbs; at Indian Head, N.W.T., from 45 to 54 bushels 28 lbs; and at Agassiz, B.C., 32 bushels 39 lbs.

Danish Chevalier—At the Central Experimental Farm this variety gave crops varying from 41 bushels 40 lbs to 43 bushels 41 lbs; at the Brandon, Man., Farm, 68 bushels 16 lbs; at Indian Head, N.W.T., 44 bushels 20 lbs; and at Agassiz, B.C., 33 bushels 36 lbs.

Webb's Kinver Chevalier—A supply of this fine variety of barley, which has carried off so many prizes in England, was purchased early in the year from Edward Webb & Son, of Wardsley, England. On the Central Experimental Farm it yielded a crop on one field of 42 bushels 36 lbs per acre, and on another 58 bushels 2 lbs; at Nappan, N.S., the yield was 48 bushels 16 lbs; at Brandon, Man., 61 bushels 17 lbs, and at Agassiz 20 bushels and 40 lbs per acre.

Goldthorpe—This variety of two-rowed barley was imported from James Coster & Co., of London, England, two years ago. It very much resembles the Duckbill in habit of growth, but the grain is said to be superior, with a thinner skin on the kernel. The crop has varied in different soils on the Central Farm from 49 bushels 28 lbs to 29 bushels 6 lbs. On the Nappan Farm it has yielded at the rate of 47 bushels per acre; at Brandon 65 bushels 21 lbs; at Agassiz, B.C., 42 bushels and 4 lbs per acre.

SPRING WHEAT.

Ladoga—This early ripening wheat continues to give good returns in many parts of the Dominion, succeeding best on comparatively light soils and in those districts where the summer season is short. On the Central Farm the yield has varied on different soils from 25 bushels 10 lbs to 21 bushels 7 lbs; at the branch farm at Nappan, N.S., it has given a return of 30 bushels; at Brandon, Man., it has yielded 33 bushels; at Indian Head, on different plots from 36 bushels 46 lbs to 33 bushels 20 lbs, and at Agassiz, B.C., 18 bushels and 20 lbs per acre.

Campbell's White Chaff—This variety of spring wheat, so promising for the eastern pro-

vinces, has again proved very productive. It is not, however, as yet a variety to be recommended for Manitoba or the Northwest Territories. It is too soft and lacks that proportion of gluten which would make strong flour.

Red Fife—The Red Fife as grown in the Canadian Northwest is one of the best wheats which the world produces. As grown there it is of the highest quality; is productive and comparatively free from rust; when grown in the eastern provinces it is much less desirable.

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