

Agassiz, B.C.—The averages of the crop returns for the last years at the Experimental Farm at Agassiz are as follows:—

Common Emmer kernels.....	1,808 lbs. per acre.
Goose.....	2,477 " "
Roumanian.....	2,667 " "
Red Fife.....	2,495 " "
Preston.....	2,622 " "

In this case the yield of emmer is much below that of the four varieties of wheat.

SUMMARY OF COMPARISONS BETWEEN EMMER AND WHEAT.

It will be seen from the figures given above that emmer has been distinctly less productive than the best wheats, except at Brandon, where, although it yielded more than Red Fife and Preston, it was still inferior in crop to Goose and Roumanian. Though these conclusions are drawn from a comparatively small series of tests (three or four years) and are not, therefore, to be regarded as final, they indicate clearly that Common Emmer cannot generally be depended upon to give as large a crop of grain as the most productive varieties of wheat.

COMMON EMMER COMPARED WITH OATS AND BARLEY.

In order to arrive at a fair basis for comparison among these cereals, it is necessary to deduct from each the amount of husk or chaff present. This is here reckoned at 30 per cent for Banner oats, 12 per cent for Mensury barley and 20 per cent for Common Emmer. Of course, this material is not by any means worthless for feeding purposes, nor is it strictly accurate to assume that equal weights of the kernels of these different grains are of equal nutritive value. The analyses of Banner oats published in the Report of the Experimental Farms for 1903, page 135, and the analyses given at the end of this bulletin show considerable differences in composition in the kernels of these different classes of cereals. The kernels of Banner oats, for instance, contain relatively a very large percentage of fat; and both Banner oat kernels and the kernels of Common Emmer contain a distinctly higher proportion of albuminoids than the kernels of Mensury barley. In carbohydrates, however, barley kernels are better than those of oats, and perhaps superior to Common Emmer also. The full discussion of these differences would require more analytical data than are at present available; and no attempt will therefore be made in this bulletin to state with precision the relative values of equal weights of the kernels of these cereals.

Ottawa, Ont.—The averages of the returns of the past three years at the Experimental Farm at Ottawa are as follows:—

Common Emmer kernels....	1,176 lbs. per acre.
Mensury barley kernels.....	2,000 " "
Banner oat kernels.....	1,596 " "

These differences are very striking, and show the marked inferiority of the emmer in this climate.

Nappan, N.S.—The averages in this case are calculated from the yields obtained for four years:—

Common Emmer kernels....	1,696 lbs. per acre.
Mensury barley kernels.....	2,394 " "
Banner oat kernels.....	1,925 " "

These results are similar to those obtained at Ottawa.