

high a yield as later-maturing sorts, in seasons favourable to the latter; but it gives very good crops under reasonable conditions. Its kernels are hard, red, plump and extremely heavy. As they shell out readily, this wheat should always be cut on the green side. Flour from this variety is of very high baking strength but not pale enough to be given the highest rank for colour. The heads are short, downy and bearded, and the straw is short but stands up well. This is the best wheat for districts where there is a tendency towards the production of too long straw and where the greatest possible earliness is essential. One or more new varieties will probably be added to this group very soon.

Durum Group—The So-called "Macaroni" Wheats.

It is necessary to mention these wheats as a separate group because they are so different from the ordinary varieties: the large size and excessive hardness of their kernels rendering them very unpopular with most Canadian millers. While it is true that some durum varieties are used for the manufacture of macaroni, to designate the whole group as "macaroni" wheats gives an incorrect impression. Some of the varieties here included are excellent for bread-making while others are very poor. The great outstanding quality of the durum wheats, which will ultimately make them important in some parts of Canada, is their ability to resist drought. Most of these wheats are bearded, late in ripening and not very strong in the straw.

Kubanka is of the highest quality for bread-making. The colour of the flour is bright, pale yellow.

Goose or Wild Goose is a productive variety of inferior bread-making quality.

Oats.

Banner or American Banner.—The most popular variety and certainly one of the best. Straw of good length and fair strength, kernels long, not early in ripening, very productive, succeeding best on rather heavy soil. The selected strain of this variety grown on the Dominion Experimental Farms is called *Banner, Ottawa 49*.

Victory (also called *Seger* and *Conqueror*).—A Swedish variety which closely resembles *Banner* and is perhaps equally desirable.

Siberian.—A selected strain of this oat has been introduced as *Ontario Agricultural College No. 72*. This is very productive but late in ripening. The straw is longer, and appears to be weaker, than that of *Banner*, but, especially on light soils and in districts where the season is long, the O.A.C. No. 72 is one of the very best sorts.

Gold Rain or Golden Rain.—An excellent Swedish sort, the rapid spreading of which is hindered by the fact that the hull is of a decided yellow colour, instead of being straw-coloured as in most varieties. This objection should be of very little importance. *Gold Rain* is slightly earlier than *Banner* in ripening, gives an excellent yield and has a higher weight per bushel, as a rule, than any other common variety. In strength of straw, it is about the same as other good sorts.

Ligowo.—Usually a little below *Banner* in productiveness but somewhat earlier in ripening. On the whole not quite so desirable, in most localities, as *Banner*.

Daubeney.—Very early in ripening. Generally produces straw of satisfactory length. Kernels long and thin, but with a good percentage of kernel to hull. The selected strain of this oat grown on the Dominion Experimental Farms is designated as *Daubeney, Ottawa 47*. There are other varieties which ripen earlier than *Daubeney* but they are inferior in some respects. *Daubeney* is early enough for almost any special purpose or short season. Very early varieties are not expected to yield as large crops as later sorts, but *Daubeney* is remarkably productive, considering its earliness.

Hullless oat: Liberty, Ottawa 480.—An early ripening sort, producing straw of fair length and giving a good yield. Not equal in productiveness, however, to the best oats of ordinary type. On account of the fact that it gives up its hull in the threshing,