

Present Program of Work

The breeding work is now given major importance in the department's activities.

The main objectives sought may be summarized as follows:-

In wheat - quality, strength of straw, hardiness and yield.

In barley - strength of straw, hulllessness, freedom from disease, smoothness of awns, and yield.

In oats - low per cent of hull, strength of straw, freedom from disease, and yield.

In corn,- earliness and yield of grain and fodder.

In mangels and swedes - yield of dry matter and keeping quality.

In alfalfa - hardiness, yield, quality, and seed production.

In red clover - hardiness, longevity, and seed production.

In timothy and orchard grass - yield, quality, earliness and suitability for pasture.

In addition to the breeding work, the following problems closely related thereto are being investigated:-

1. - Soil heterogeneity studies and field research technique.
2. - The effect of inbreeding in swedes.
3. - Genetic studies in corn and in oats.
4. - Varietal hybridization in corn.
5. - Varietal resistance to smut in oats.
6. - Varietal hardiness in alfalfa.
7. - Rates and proportions of oats, peas, and vetches for silage.