

periment a failure but this is still to be shown. For each of the undesirable characters listed a correspondingly good one has been found. A large number of plants have proved so far to be resistant to leaf and stem rust. And some of these have produced excellent loaves of bread with high protein content. And so with other characters. But it is difficult to find one plant or one 8-foot row with the maximum of desirable characters. When that is done a variety will be available which will satisfy the demands of the breeder and also the farmer. The aim of the work was the production of an otherwise good variety resistant to leaf rust. The road to that goal is a complicated one and the end is not yet. If success is finally secured the cost of the work will be a mere nothing compared with the calculated savings which would result from disease free crops.

Some 1948 Pasture Seedings on Fargo Clay

Fourteen one-acre pastures were seeded with the grasses, pasture mixtures, or legumes noted herein on May 25 and 26, 1948 at Fargo. The seed bed was dry, cloddy fall plowed land which had been disked and packed in the spring. Establishment counts made October 12, 13, and 14, 1948 follow. Stand ratings used were as follows: (1) Less than one plant per square foot—Very poor, (2) One plant per square foot—Poor; two plants per square foot—Fair; 3 to 4 plants per square foot—Good; 5 or more plants per square foot—Excellent. All stands rated poor, very poor, or failure are scheduled for reseeding. Each square foot contained in addition to the species seeded variable numbers of weedy grasses and other weeds.

Species	Plants per square foot	Stand Rating
Standard crested wheat grass.....	2.6	Fair
Fairway crested wheat grass.....	0.5	Very poor
Intermediate wheat grass	3.4	Good
Mandan wild rye	4.7	Good
Russian wild rye	0.9	Very poor
Bromegrass northern strain.....	35.1	Excellent
Brome-alfalfa	10.1 brome	Excellent
	3.9 alfalfa	
Sweet clover Albotrea	9.5	Excellent
Subterranean clover	3.9	Good
Green stipa grass	0.1	Very poor
Big bluestem	0.4	Very poor
Switch grass	1.0	Poor
Meadow Fescue	5.9	Excellent
Kentucky blue grass	Failure	

Stand counts will be made again in the spring of 1949 to test winter survival. (Abstracted from Annual Report of Departments of Animal Husbandry and Botany.)