

CORN TRIALS

Seed of 11 corn varieties or hybrids and 9 experimental double crosses was furnished by Mr. William Wiidakas for trials at this station in 1949, and Kingscrost hybrids KF-1 and KE-3 were added at this station.

Comparison of shelled corn yields shows Nodak hybrid 208, Experimental double cross number 402, Nodakhybrid 304 and Rainbow to be the highest in this respect, all four averaging about 14.5 bushels per acre. Falconer, an open pollinated variety widely grown in this area, was fifth with an average of 13.8 bushels per acre. Lowest yielding strains at this station in 1949 were Kingscrost hybrid KE-3, Wisconsin 279, N. Dak. Experimental 302A and Minn. 13 (Haney strain) all of which yielded slightly more than 8.0 bushels per acre. All other entries in the 1949 trials here averaged 10.0 bushels or more per acre.

Considering the season, fodder yields were good for all strains. Two experimental double crosses, No. 415 and No. 435 averaged nearly a ton and a half, with the lowest fodder yield for the experimental double crosses being nearly 1¼ ton from No. 573. Fodder yields for the varieties and hybrids ranged from less than a ton for Wis. 240 to nearly a ton and a half from N. Dak. Experimental 302A, Rainbow, KF-1 and KE-3. Falconer averaged about 1 ¼ ton which was just slightly less than 50% of its 1948 average.

Comparison of fodder yields over the last 7 years shows Rainbow Flint, (Mandan strain), to be highest in this respect with an average of 114% of the yield of Falconer for the same period. Falconer has also been outyielded by Nodak 301, Kingscrost KF-1 and Experimental double cross No. 435, all averaging 106% of Falconer for 6, 5 and 4 years respectively. The fodder yield of Experimental double cross No. 785 has equalled the fodder yield of Falconer over the last 4 years. All other entries in the Dickinson trials have been outyielded by Falconer, the lowest yielder being Nodak 203 with a 7 year average fodder yield of only 71% of Falconer. A comparison of shelled corn yields shows that Falconer has outyielded most other entries in this respect with the exception of Nodak 208 and Experimental double cross No. 435 which have 2 and 4 year averages of 102% of Falconer. Experimental double cross No. 435 is the only entry which has outyielded Falconer in both yield of shelled corn and fodder. Falconer has been equalled by Experimental double cross No. 785 in both fodder and shelled corn yield but has exceeded all other entries in either fodder yield, shelled corn yield or both.