

Uniform Bromegrass Trial

The hay yields for the 1960 season of the 14 strains of smooth bromegrass included in the uniform bromegrass trial are give in Table 5. The 6-year average yields for all strains in the trial are given in Table 6. These plots were seeded in 1953, and some of the plots show considerable deterioration of stand, although invasion of other grass and weeds has been very light so far. The plots of Canadian commercial, Manchar, Martin, Kuhl, and Mandan 404, were noticeably less vigorous and thinner in the 1960 season than in previous seasons.

Table 5. Composition of 1960 Hay Yields from Bromegrass Plots seeded in 1953.				
Composition of Yield				
Variety	Grass	Other Grass	Weeds	Total Plot Production - Lbs./Acre
Achenback	1247	---	---	1247
Oklahoma Synthetic	1131	2	2	1135
Lincoln	1103	9	3	1115
Fischer	1093	13	5	1111
Lancaster	1086	3	6	1095
Kuhl	1059	25	4	1088
Bin 12	1065	3	3	1071
Manchar	997	57	3	1057

Lyon	1042	---	---	1042
Elsberry	995	12	3	1010
Homesteader	996	---	4	1000
Mandan 404	988	---	3	991
Canadian Com.	988	---	2	990
Martin	971	11	4	986
Average	1054	10	3	1067

The average production of seeded grass for all brome varieties was 1054 pounds per acre this year. Achenbach, a southern type, was top producer at 1247 pounds per acre. Oklahoma synthetic at 1131, Lincoln at 1103, and Fischer at 1093 were next in order. Martin, at 971 pounds per acre, was the lowest producer of this group. Martin is an old-field strain from Minnesota and is considered to have southern-type characteristics. In general the southern bromes continued to show somewhat greater productivity than the northern types. However, differences between the types were not pronounced this year and Elsberry (Missouri) and Martin (Minn.) joined the northern types at the bottom of the list.

The data of Table 6 shows that on the average Lincoln brome has had a slight over-all advantage in productivity, followed closely by Fischer, Achenbach, and Oklahoma synthetic. Of the northern type bromes Manchar, Mandan 404, and Homesteader all have about the same average yield, with the range being only from 1124 pounds per acre for Homesteader to 1130 pounds per acre for Manchar. Canadian commercial, with a 6-year average yield of 1030 pounds per acre, appears to be slightly less productive than the other northern strains.

Table 6. Hay Yields from Uniform Bromegrass Trial seeded in 1953.								
Oven-dry weight - Lbs./Acre								
Variety	1954	1955	1956	1957	1958	1959	1960	6-Yr.-

								Av. Yield
Lincoln	1606	1498	---	1459	1260	906	1115	1307
Fischer	1637	1414	---	1408	1239	849	1111	1276
Achenbach	1702	1463	---	1318	1159	734	1247	1271
Oklahoma Syn.	1363	1426	---	1614	1190	789	1135	1253
Elsberry	1190	1548	---	1537	1184	952	1010	1237
Bin 12	1289	1326	---	1380	1206	1007	1071	1213
Lancaster	1275	1476	---	1397	1142	864	1095	1208
Lyon	1380	1511	---	1417	1140	707	1042	1200
Kuhl	1334	1352	---	1486	1107	704	1088	1179
Martin	1247	1335	---	1160	1179	951	986	1143
Manchar	1241	1478	---	1132	1126	746	1057	1130
Mandan 404	1261	1359	---	1226	1069	865	991	1129
Homesteader	1214	1433	---	1319	1099	677	1000	1124
Canad. Com.	1122	1287	---	1095	920	774	990	1030
Average	1347	1421	---	1353	1144	823	1067	1193

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