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.

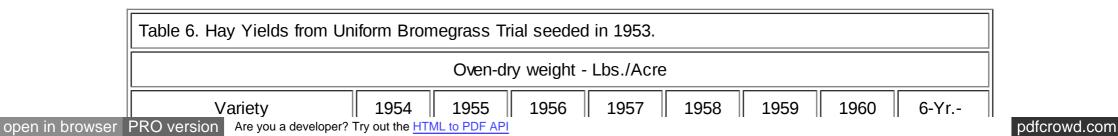
Table 5. Composition of 1960 Hay Yields from Bromegrass Plots seeded in 1953.							
Composition of Yield							
Variety	Grass	Other Grass	Weeds	Total Plot Production - Lbs./Acre			
Achenback	1247			1247			
Oklahoma Synthetic	1131	2	2	1135			
Lincoln	1103	9	3	1115			
Fischer	1093	13	5	1111			
Lancaster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

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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 3 100		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.



-							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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