GRASS SEED YIELD DATA 1969[a] - 1977

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(a) 1969 seeding on Black soil; others on Grey soil

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Seed yields (lbs/acre) from Northern Bromegrass - Carlton seeded at different dates

Dates of Seeding	1969 Seeding					1970 Seeding					1971 Seeding				1972 Seeding					15-Harvest Average
	1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1st 1972	2nd 1973	3rd 1974	TOTAL	1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	
Before May 15	398	563	490	199	1650	500	1039	612	575	2726	613	788	309	1710	996	697	520	390	2603	579
May 16-31	271	581	550	264	1666	449	1104	612	537	2702	655	868	222	1745	1142	647	420	378	2587	580
June 1-15	307	486	546	253	1592	357	1197	700	478	2732	742	818	405	1965	1280	633	423	384	2720	601
June 16-30	302	430	444	214	1390	262	1034	738	464	2498	753	837	445	2035	1417	618	425	391	2851	585
July 1-15	233	355	412	312	1332	236	1182	831	454	2703	508	856	484	1848	688	688	542	482	2400	552
July 16-31	302	292	417	315	1326	158	1026	788	584	2556	685	949	510	2144	226	1057	522	563	2368	560
Aug. 1-15	240	427	350	363	1380	69	971	902	548	2490	292	1079	571	1942	21	1053	530	630	2234	536
Aug. 16-31	81	892	386	477	1836	14	949	902	420	2285	3	802	564	1369	4	965	542	654	2165	510
Sept. 1-15	27	707	532	462	1728	11	974	920	404	2309	1	912	618	1531	2	823	601	674	2100	511
Sept. 16-30	19	827	706	492	2044	7	999	937	387	2330	0	451	534	985	0	680	659	693	2032	493
After Oct. 1	0	1185	642	658	2485	0	729	673	386	1788	0	374	702	1076	-	-	-	-	-	486*

* 11-harvest ave. - not seeded in 1972

Seed yields (lbs/acre) from Southern Bromegrass - Red Patch seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1972	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	7-Harvest Average
Before May 15											203	352	66	621	351	249	216	305	1121	249
May 16-31											270	370	90	730	381	241	231	265	1118	264
June 1-15											311	374	147	832	455	300	242	253	1250	297
June 16-30											334	420	163	917	528	358	253	241	1380	328
July 1-15											151	343	156	650	340	436	237	342	1355	286
July 16-31		NOT TESTED					NOT TESTED				218	339	157	714	91	500	288	319	1198	273
Aug. 1-15											62	362	200	624	15	469	336	332	1152	254
Aug. 16-31											2	274	341	617	6	458	348	359	1171	255
Sept. 1-15											1	290	294	585	3	392	366	354	1115	243
Sept. 16-30											0	104	246	350	0	326	383	348	1057	201
After Oct. 1											0	198	423	621	-	-	-	-	-	207*

* 3-harvest average - trt not seeded in 1972

Seed yields (lbs/acre) from Chewings Fescue - Oasis

Dates of Seeding	1969 Seeding 1st 1970	2nc 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	7-Harvest Average
Before May 15											176	211	34	421	85	78	21	38	222	92
May 16-31											230	432	51	713	80	109	21	35	245	137
June 1-15											89	391	80	560	51	78	20	27	176	105
June 16-30											13	400	113	526	21	47	19	18	105	90
July 1-15											1	364	113	478	14	63	43	24	144	89
July 16-31	NOT TESTED					NOT TESTED					3	404	126	533	2	80	72	25	179	102
Aug. 1-15											0	372	139	511	0	68	106	34	208	103
Aug. 16-31											0	337	161	498	0	57	115	36	208	101
Sept. 1-15											Very poor plant establishment				0	35	77	18	130	33
Sept. 16-30											plots discarded Summer				0	12	38	0	50	13
After Oct. 1											1972				-	-	-	-	-	-

Seed yields (lbs/acre) from Creeping Red Fescue - Boreal seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Harvest Average
Before May 15	458	271	24	35	788	285	370	371	81	1107	683	794	190	1667	1272	353	82	41	1748	354
May 16-31	637	149	24	37	847	303	305	294	56	958	833	699	211	1743	1273	403	75	27	1778	355
June 1-15	581	129	24	36	770	136	438	380	97	1051	575	1087	325	1987	1188	464	88	32	1772	372
June 16-30	583	298	24	35	940	111	602	422	133	1268	352	1341	389	2082	1092	525	100	36	1753	403
July 1-15	503	285	24	63	875	24	733	414	159	1330	326	1549	485	2360	286	476	100	40	902	364
July 16-31	464	234	24	56	778	12	817	517	163	1509	175	1313	483	1971	195	630	183	146	1154	361
Aug. 1-15	177	307	24	58	566	1	740	819	127	1687	36	1267	666	1969	52	577	274	146	1049	351
Aug. 16-31	3	479	47	92	621	0	892	495	165	1552	0	1058	588	1646	0	456	365	112	933	317
Sept. 1-15	0	410	153	172	735	0	926	642	150	1718	0	1179	784	1963	0	344	354	150	848	351
Sept. 16-30	0	339	337	206	882	0	960	788	134	1882	0	60	242	302	0	231	343	187	761	255
After Oct. 1	0	402	304	208	914	0	585	993	155	1733	0	562	590	1152	-	-	-	-	-	345*

*11-harvest average - trt not seeded in 1972

Seed Yields (lbs/acre) from Meadow Fescue - Mimer seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Harvest Average
Before May 15	590	859	200	37	1686	1197	726	411	521	2855	715	1250	635	2600	1297	899	216	159	2571	647
May 16-31	608	827	236	64	1735	984	747	545	570	2846	890	1315	668	2873	1328	909	241	157	2635	673
June 1-15	670	830	208	103	1811	716	705	401	497	2319	796	1121	664	2581	1380	990	243	171	2784	633
June 16-30	525	875	282	98	1780	586	763	354	542	2245	489	1189	677	2355	1431	1071	244	184	2930	621
July 1-15	629	755	325	127	1836	99	593	441	472	1605	155	1038	837	2030	1023	1094	242	152	2511	532
July 16-31	613	650	289	109	1661	16	584	463	434	1497	105	919	802	1826	574	1387	324	282	2567	503
Aug. 1-15	385	778	316	157	1636	2	410	522	388	1322	32	997	850	1879	162	1469	339	336	2306	476
Aug. 16-31	69	679	345	145	1238	2	808	600	483	1893	0	506	807	1313	8	1399	366	374	2147	439
Sept. 1-15	26	874	394	157	1451	1	809	630	455	1895	0	253	400	653	4	1281	422	340	2047	403
Sept. 16-30	6	658	370	127	1161	1	810	659	427	1897	0	225	350	575	0	1163	478	306	1947	372
After Oct. 1	36	1265	541	174	2016	0	482	578	361	1421	0	150	300	450	-	-	-	-	-	353*

* 11-harvest average - trt not seeded in 1972

Seed yields (lbs/acre) from Reed Canarygrass - Frontier seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Hargest AVERAGE
Before May 15	25	73	33	8	139	192	141	68	121	522	95	128	148	371	254	176	43	39	512	103
May 16-31	25	71	31	9	136	175	160	82	124	541	84	119	71	274	163	264	49	34	510	97
June 1-15	31	56	23	6	116	85	176	103	120	484	39	168	198	405	177	268	61	44	550	104
June 16-30	27	49	25	9	110	39	201	137	114	491	30	239	351	620	190	272	72	54	588	121
July 1-15	21	65	27	8	121	10	301	141	88	540	14	246	87	347	46	182	66	44	338	90
July 16-31	17	75	30	9	131	0	146	153	93	392	4	248	198	450	9	286	78	89	462	96
Aug. 1-15	8	55	31	13	107	0	132	152	81	365	0	213	247	460	1	209	70	76	356	86
Aug. 16-31	0	101	61	12	174	0	104	166	81	351	0	169	186	355	0	168	66	62	296	78
Sept. 1-15	0	149	89	27	265	0	102	180	89	371	0	85	201	286	0	94	51	63	208	75
Sept. 16-30	0	190	108	34	332	0	99	194	97	390	0	50	222	272	0	20	36	63	119	74
After Oct. 1	0	137	97	24	258	0	49	170	66	285	0	50	186	236	-	-	-	-	-	71*

* 11-harvest average - trt not seeded 1972

Seed Yields (lbs/acre) from Russian wild-rye - Sawki seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Harvest Average
Before May 15	295	441	187	53	977	62	692	584	158	1496	347	674	317	1338	193	233	109	46	581	293
May 16-31	212	442	184	57	895	68	743	450	127	1388	123	604	310	1097	53	238	102	48	441	255
June 1-15	80	317	139	48	584	29	895	479	169	1572	68	897	523	1488	32	209	159	58	458	273
June 16-30	22	451	247	108	828	7	760	556	176	1499	14	925	488	1427	10	179	215	67	471	282
July 1-15	2	806	352	178	1338	0	639	598	241	1478	3	602	333	938	0	144	165	33	342	273
July 16-31	1	523	277	144	945	0	585	707	343	1635	1	587	498	1086	0	226	253	201	680	290
Aug. 1-15	0	483	301	227	1011	0	289	742	174	1205	0	504	607	1111	0	128	265	301	694	268
Aug. 16-31	0	315	287	232	834	0	232	684	166	1082	0	236	617	853	0	50	238	183	471	216
Sept. 1-15	0	406	638	402	1446	0	207	695	191	1093	0	160	552	712	0	27	133	105	265	234
Sept. 16-30	0	276	529	202	1007	0	181	706	216	1103	0	21	292	313	0	4	29	27	60	166
After Oct. 1	0	510	724	441	1675	0	72	665	130	867	0	23	314	337	-	-	-	-	-	262*

* 11-harvest average - trt not seeded in 1972

Seed yield (lbs/acre) from Hexaploid Timothy - Climax seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Harvest Average
Before May 15	104	582	145	134	965	485	422	370	238	1515	118	305	252	675	562	497	221	341	1621	318
May 16-31	126	806	189	147	1268	504	423	352	228	1507	160	356	257	773	612	537	258	325	1732	352
June 1-15	125	649	205	144	1123	382	449	352	252	1435	228	364	242	834	694	583	280	325	1882	352
June 16-30	96	476	202	161	935	304	398	343	192	1237	275	427	247	949	776	629	302	324	2031	343
July 1-15	115	577	225	166	1083	111	385	407	239	1142	191	451	218	860	405	537	279	338	1559	310
July 16-31	113	679	243	160	1195	75	424	390	286	1175	140	451	245	836	308	584	316	367	1575	319
Aug. 1-15	111	642	250	164	1167	38	453	421	183	1095	61	536	241	838	203	580	331	406	1520	308
Aug. 16-31	141	797	310	181	1429	23	392	352	103	870	1	443	303	747	113	595	352	443	1503	303
Sept. 1-15	125	598	291	244	1258	18	397	333	93	841	1	469	252	722	57	570	362	438	1427	283
Sept. 16-30	101	733	361	253	1448	14	401	314	83	812	0	331	282	613	0	544	372	433	1349	281
After Oct. 1	21	647	402	200	1270	2	351	333	117	803	0	352	288	640	-	-	-	-	-	247*

* 11-harvest average - trt not seeded 1972

Seed Yields (lbs/acre) from Nodosum Timothy - S.50 seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	7-Harvest Average
Before May 15											68	181	170	419	281	272	34	25	612	147
May 16-31											156	238	171	565	328	252	42	39	661	175
June 1-15											117	305	191	613	309	254	51	41	655	181
June 16-30											103	329	219	651	290	256	59	43	648	186
July 1-15											83	329	300	712	90	138	67	45	340	150
July 16-31	NOT TESTED					NOT TESTED					32	309	228	569	41	167	115	72	395	138
Aug. 1-15											10	293	201	504	22	208	138	73	441	135
Aug. 16-31											0	265	189	454	13	228	156	66	463	131
Sept. 1-15											Poor plant				6	165	126	45	342	86*
Sept. 16-30											establishment				0	102	96	24	222	56*
After Oct. 1											Plots discarded summer 1972				-	-	-	-	-	-

* 4-harvest average

Seed Yields (lbs/acre) from Wheatgrass, Crested - Fairway seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Harvest Average
Before May 15	564	946	213	81	1804	604	559	489	275	1927	592	701	330	1623	908	613	399	135	2055	494
May 16-31	713	989	226	99	2027	672	647	470	347	2136	721	983	439	2143	779	745	388	126	2038	556
June 1-15	609	1151	243	93	2096	539	806	561	420	2326	512	941	518	1971	779	886	434	138	2237	575
June 16-30	520	1150	284	96	2050	672	695	468	368	2203	355	963	570	1888	779	1027	479	149	2434	572
July 1-15	409	1443	438	162	2452	517	687	575	382	2161	250	723	522	1495	471	1169	501	141	2282	559
July 16-31	349	1500	461	174	2484	317	853	631	462	2263	276	773	682	1731	358	1096	579	173	2206	579
Aug. 1-15	406	1339	562	243	2550	104	517	578	396	1595	182	805	783	1770	167	1094	621	183	2065	532
Aug. 16-31	171	1242	693	350	2456	82	637	661	231	1611	15	673	702	1390	82	1085	658	198	2023	499
Sept. 1-15	41	1258	637	342	2278	51	668	710	280	1709	11	790	762	1563	44	892	632	210	1778	489
Sept. 16-30	76	1396	788	351	2611	20	699	759	327	1805	0	641	880	1521	1	699	606	222	1528	498
After Oct. 1	11	1404	907	442	2764	1	476	988	464	1929	0	429	901	1330	-	-	-	-	-	548

Seed Yields (lbs/acre) from Wheatgrass, Intermediate - Chief seeded at different dates

Dates of Seeding	1969 Seeding 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	1970 Seeding 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	1971 Seeding 1st 1972	2nd 1973	3rd 1974	TOTAL	1972 Seeding 1st 1973	2nd 1974	3rd 1975	4th 1976	TOTAL	15-Harvest Average
Before May 15	388	461	9	6	864	464	287	90	189	1030	575	428	345	1348	637	673	165	105	1580	321
May 16-31	441	561	9	6	1017	572	306	123	210	1211	703	549	393	1645	884	774	172	148	1978	390
June 1-15	425	632	6	6	1069	555	283	114	181	1133	515	569	460	1544	859	816	179	155	2009	384
June 16-30	351	604	5	8	968	519	279	142	261	1201	352	560	416	1328	834	858	185	162	2039	369
July 1-15	445	664	9	8	1126	416	350	166	235	1167	172	450	466	1088	415	833	233	229	1710	339
July 16-31	336	728	13	11	1138	271	381	245	280	1177	198	584	430	1212	249	1020	325	220	1814	356
Aug. 1-15	177	691	17	16	901	127	358	259	324	1068	84	586	524	1194	107	917	378	264	1666	322
Aug. 16-31	59	762	28	18	867	85	361	222	224	892	0	398	716	1114	50	824	417	251	1542	294
Sept. 1-15	53	872	97	23	1045	52	395	270	258	975	0	516	784	1300	31	770	449	331	1581	327
Sept. 16-30	0	980	123	23	1126	18	429	317	293	1057	0	132	329	461	12	716	481	411	1620	284
After Oct. 1	0	835	173	26	1034	4	301	308	352	965	0	295	728	1023	-	-	-	-	-	275*

* 11-harvest average - trt not seeddd in 1972

Seed Yields (lbs/acre) from Carlton bromegrass seeded with different companion crops

COMPANION CROP	Bu/A 1969	1969 Seeding Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	1970 Seeding Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	1971 Seeding Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr. Ave.	Grass Seed 11-Harvest Average
Control	-	98	863	390	199	1550	-	715	1165	527	705	3112	-	831	783	405	2019	-	607
Wheat	55	118	887	384	275	1664	16	151	1171	636	559	2517	46	262	639	384	1285	39	497
Flax	27	135	776	364	181	1456	11	185	1395	539	690	2809	21	248	878	404	1530	20	527
Oats	137	91	719	304	203	1317	34	181	1210	636	676	2703	114	223	791	440	1454	95	498
Late barley	110	81	968	359	220	1628	27	148	1447	462	609	2666	94	183	689	352	1224	77	502
Early barley	85	98	834	299	248	1479	20	177	1334	565	641	2717	80	331	767	365	1463	62	514
Rape	43	137	800	410	303	1650	26	140	1271	583	723	2717	41	262	777	374	1413	37	525

Seed Yields (lbs/acre) from Boreal creeping red fescue seeded with different companion crops

COMPANION CROP	Bu/A 1969	1969 Seeding Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	1970 Seeding Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	1971 Seeding Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr. Ave.	Grass Seed 11-Harvest Average
Control	-	271	458	30	0	759	-	637	681	343	112	1773	-	937	1007	224	2168	-	427
Wheat	61	59	526	30	0	615	18	42	799	349	83	1273	45	118	990	124	1232	41	284
Flax	32	167	512	30	0	709	10	55	816	464	90	1425	22	323	1059	225	1607	21	340
Oats	143	94	595	30	0	719	32	70	766	330	96	1262	115	180	1065	118	1363	97	304
Late barley	113	22	688	30	0	740	30	39	763	450	82	1334	89	60	1042	108	1210	77	299
Early barley	84	100	655	30	0	785	19	58	754	342	148	1302	71	304	1117	164	1585	58	334
Rape	50	285	494	30	0	809	29	63	848	379	119	1409	33	220	1360	260	1840	37	369

Seed Yields (lbs/acre) from Mimer meadow fescue seeded with different companion crops

COMPANION CROP	1969 Seeding						1970 Seeding						1971 Seeding					Grass Seed 11-Harvest Average
	Bu/A 1969	Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr. Ave.	
Control	-	390	859	162	137	1548	-	1009	723	474	432	2638	-	763	900	473	2136	-	575
Wheat	60	245	895	198	158	1496	14	240	862	580	520	2202	40	276	770	419	1465	38	469
Flax	29	369	898	160	89	1516	10	294	982	556	517	2349	19	332	1012	550	1894	19	524
Oats	133	235	987	187	78	1487	39	232	919	541	498	2190	107	279	862	544	1685	93	487
Late barley	106	164	961	153	85	1363	28	197	994	468	472	2131	80	139	602	294	1035	71	412
Early barley	85	233	856	178	105	1372	17	246	983	513	538	2280	77	279	828	395	1502	60	467
Rape	42	385	769	175	115	1444	25	254	933	524	491	2202	33	199	950	468	1617	33	478

Seed Yields (lbs/acre) from Frontier reed canarygrass seeded with different companion crops

COMPANION CROP	Bu/A 1969	1969 Seeding Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	1970 Seeding Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	1971 Seeding Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr ave.	Grass Seed 11-Harvest Average
Control	-	0	14	11	25	50	-	83	88	29	26	226	-	28	93	58	179	-	41
Wheat	56	0	9	5	16	30	14	0	72	57	42	171	40	8	97	81	186	37	35
Flax	23	0	17	7	15	39	10	0	108	58	35	201	14	12	110	59	181	16	38
Oats	132	0	14	5	12	31	31	1	111	69	35	216	91	6	120	55	181	85	39
Late barley	109	0	20	5	13	38	26	0	84	52	22	158	86	3	80	43	126	74	29
Early barley	81	0	16	5	9	30	19	1	126	56	33	216	69	11	97	44	152	56	36
Rape	37	0	7	5	13	25	25	1	81	47	23	152	40	9	85	50	144	34	29

Seed Yields(lbs/acre) from Sawki Russian wildrye seeded with different companion crops

COMPANION CROP	Bu/A 1969	1969 Seeding Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	1970 Seeding Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	1971 Seeding Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 Yr ave.	Grass seed 11-harvest average
Control	-	96	641	187	53	977	-	304	959	705	254	2222	-	63	793	248	1104	-	391
Wheat	62	0	276	82	45	403	18	0	620	690	229	1539	46	0	236	99	335	42	207
Flax	31	1	406	126	65	598	11	1	681	600	184	1466	26	0	444	99	543	23	237
Oats	145	0	290	50	44	384	36	0	551	659	205	1415	98	0	463	134	597	93	218
Late barley	108	0	391	52	63	506	26	0	201	534	90	825	83	0	293	53	346	72	152
Early barley	84	0	523	67	65	655	24	1	579	759	235	1574	77	1	445	84	530	62	251
Rape	43	1	307	69	45	422	34	0	798	618	297	1713	39	0	432	160	592	39	248

Seed Yields (lbs/acre) from Climax hexaploid timothy seeded with different companion crops

COMPANION CROP	1969 Seeding						1970 Seeding						1971 Seeding							
	Bu/A 1969	Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr ave	Grass seed 11-harvest average
Control	-	52	582	245	134	1013	-	450	357	307	208	1322	-	289	224	265	778	-	283
Wheat	58	55	581	194	139	969	14	216	471	319	217	1223	45	181	255	298	734	39	266
Flax	24	41	582	188	120	931	9	236	431	310	218	1195	21	223	229	225	677	18	255
Oats	132	77	605	175	115	972	34	246	408	281	229	1164	90	188	276	295	759	85	263
Late barley	97	97	665	219	127	1108	26	242	446	267	219	1174	72	156	278	288	722	65	273
Early barley	73	84	574	183	113	954	19	273	415	293	221	1202	67	219	350	305	874	53	275
Rape	40	45	537	197	134	913	29	195	425	303	214	1137	33	169	304	305	778	34	257

Seed yields (lbs/acre) from Fairway crested wheatgrass seeded with different companion crops

COMPANION CROP	Bu/A 1969	1969 Seeding Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	1970 Seeding Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	1971 Seeding Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr ave.	Grass seed 11-harvest average
Control	-	364	946	213	181	1704	-	727	678	436	369	2210	-	505	915	422	1842	-	523
Wheat	55	313	1275	239	230	2057	13	149	598	453	245	1445	42	136	637	272	1045	37	413
Flax	26	308	1193	187	250	1938	11	278	621	417	346	1662	19	321	1042	421	1784	19	489
Oats	124	255	1269	306	204	2034	35	273	684	494	354	1805	110	186	801	332	1319	90	469
Late barley	108	179	1014	252	190	1635	31	174	577	371	317	1439	74	76	532	277	885	71	360
Early barley	75	267	1004	217	181	1669	18	201	624	460	374	1659	72	169	757	312	1238	55	415
Rape	36	281	971	250	200	1702	25	264	566	384	365	1579	45	133	744	415	1292	35	416

Seed Yields (lbs/acre) from Chief intermediate wheatgrass seeded with different companion crops

COMPANION CROP	Bu/A 1969	1969 Seeding Grass Seed Harvest 1st 1970	2nd 1971	3rd 1972	4th 1973	TOTAL	Bu/A 1970	1970 Seeding Grass Seed Harvest 1st 1971	2nd 1972	3rd 1973	4th 1974	TOTAL	Bu/A 1971	1971 Seeding Grass Seed Harvest 1st 1972	2nd 1973	3rd 1974	TOTAL	Bu/A 3 yr ave.	Grass seed 11-harvest average
Control	-	183	661	9	12	865	-	464	338	129	148	1079	-	645	419	256	1320	-	297
Wheat	55	174	751	7	10	942	17	309	476	148	163	1096	43	117	204	169	490	38	230
Flax	28	230	793	9	10	1042	11	421	397	154	173	1145	18	193	338	230	761	19	268
Oats	135	182	695	6	8	891	33	340	416	129	160	1045	100	156	331	230	717	89	241
Late barley	102	98	656	15	10	779	29	319	430	139	113	1001	72	111	275	170	556	68	212
Early barley	74	125	601	8	10	744	22	336	396	140	142	1014	70	189	332	196	717	55	225
Rape	43	226	606	8	10	850	25	448	490	189	213	1340	35	128	291	228	647	34	258

NORTHERN BROMEGRASS - CARLTON

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	649	441	558	352	2000	644	341	627	198	1810	476
40	748	454	407	340	1949	498	421	482	160	1561	439
60	679	557	393	382	2011	363	437	504	165	1469	435
80	634	392	312	289	1627	284	405	373	133	1195	353
100	555	458	303	284	1600	83	305	290	103	781	298

SOUTHERN BROMEGRASS - RED PATCH

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	275	175	250	355	1055	192	341	531	102	1166	278
40	486	191	247	264	1188	347	411	363	146	1267	307
60	452	308	263	294	1317	126	448	397	135	1106	303
80	439	312	203	186	1140	115	308	225	116	764	238
100	375	279	249	215	1118	106	342	321	155	924	255

CHEWINGS FESCUE - OASIS

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	129	156	17	1	303	65	116	94	10	285	74
40	105	92	8	1	206	46	135	79	20	280	61
60	46	55	10	1	112	44	74	97	10	225	42
80	54	45	7	1	107	35	67	46	10	158	33
100	53	44	9	1	107	16	51	72	10	149	32

CREEPING RED FESCUE - BOREAL

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	1340	521	102	20	1983	695	459	283	121	1558	443
40	1060	441	108	20	1629	379	691	336	62	1468	387
60	854	483	138	39	1514	361	589	396	54	1400	364
80	695	371	64	10	1140	225	473	198	46	942	260
100	629	321	57	12	1019	286	378	256	33	953	247

MEADOW FESCUE - MIMER

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	1101	739	413	77	2330	1111	413	520	3	2047	547
40	1019	805	271	56	2151	871	347	298	3	1519	459
60	1014	600	89	53	1756	664	348	252	1	1265	378
80	759	482	90	49	1380	593	255	113	1	962	293
100	717	361	76	49	1203	515	223	157	1	896	262

MEADOW FOXTAIL - OREGON

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20						622	124	387	74	1207	302
40						424	303	241	78	1046	262
60	NOT TESTED					324	338	292	50	1004	251
80						255	232	133	38	658	165
100						188	269	257	47	761	190

REED CANARYGRASS - FRONTIER

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	153	203	14	9	379	110	30	30	52	222	75
40	225	105	7	5	342	56	27	10	20	113	57
60	254	147	8	9	418	37	36	16	26	115	67
80	227	103	13	14	357	48	37	14	37	136	62
100	191	130	20	14	355	52	48	16	28	144	62

RUSSIAN WILDRYE - SAWKI

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	101	123	0	9	233	9	151	238	7	405	80
40	71	218	10	22	321	3	194	150	10	357	85
60	43	305	40	29	417	1	151	194	11	357	97
80	41	279	85	31	436	0	81	95	5	181	77
100	35	215	61	40	351	0	87	96	1	184	67

HEXAPLOID TIMOTHY - CLIMAX

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	527	445	204	212	1388	493	308	336	294	1431	352
40	661	469	225	214	1569	468	344	282	286	1380	369
60	574	408	237	246	1465	430	358	318	176	1282	343
80	451	360	183	153	1147	407	260	185	161	1013	270
100	424	297	142	105	968	337	222	198	219	976	243

NODOSUM TIMOTHY - S.50

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	486	298	44	58	886	264	47	103	0	414	163
40	401	266	43	32	742	85	56	51	0	192	117
60	324	208	40	32	604	75	36	38	0	149	94
80	170	141	33	32	376	65	27	15	0	107	60
100	139	114	24	19	296	36	15	27	0	78	47

CRESTED WHEATGRASS - FAIRWAY

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	882	467	278	22	1649	711	699	261	85	1756	426
40	739	468	277	37	1521	789	733	199	70	1791	414
60	589	455	252	68	1364	545	804	255	62	1666	379
80	494	420	229	65	1208	548	703	164	49	1464	334
100	466	425	353	45	1289	450	737	277	72	1536	353

INTERMEDIATE WHEATGRASS - CHIEF

Row Spacing (cm)	1972 Seeding					1973 Seeding					8-Harvest Average
	1973	1974	1975	1976	TOTAL	1974	1975	1976	1977	TOTAL	
20	755	398	182	110	1445	709	479	498	160	1846	411
40	625	510	163	116	1414	629	524	340	87	1580	374
60	753	511	200	158	1622	671	518	430	111	1730	419
80	695	503	153	111	1462	508	451	366	136	1461	365
100	569	402	142	85	1198	447	356	364	162	1329	316