

**Table 4. Annual ryegrass production by harvest date and total yield in Holly Springs, MS.**

Variety	Harvest Date		Total Yield
	5/9/2016	5/25/2016	
			lb/A
07-WW	6285	326	6611
Andes	4412	345	4758
Attain	6000	819	6819
BAR LM 09124	5544	284	5829
BAR LM 09129	6500	603	7103
BAR LM 09137	6139	241	6379
BAR LM 10200	7001	370	7371
BAR LM 10202	5312	453	5765
BAR LM 15425	7972	387	8359
BAR LM 15426	8796	310	9106
BAR LM 15427	6819	371	7190
Big Boss	6800	420	7220
Cedence	6500	467	6967
Diamond T	5038	557	5595
Flying A	5870	563	6433
Fria	6630	528	7158
GA-101-M	4300	424	4724
GALM140 1	5200	763	5963
GALM140 3	5187	548	5735
GO-15-LN2	5525	365	5890
IS-LWD 8	5260	625	5885
Jackson	5418	612	6030
Jumbo	7578	393	7970
Lonestar	5600	493	6093
M2GVS	5501	443	5944
Marshall	3376	543	3919
Maximus	6400	321	6721
ME4	5204	384	5588
ME-94	5140	603	5743
Meroa	6300	582	6882
Nelson	4565	525	5090

Passerel Plus	5200	554	5754
Prine	5419	421	5841
PS12	5325	623	5948
PS15	6002	356	6358
Ration	6200	441	6641
TAMTBO	7100	316	7416
Tetrastar	5800	437	6237
Winterha wk	6400	420	6820
Mean	5888	468	6355
LSD <sub>(0.05)</sub>	†NS	285	NS
CV, %	36	42	45

†NS: Not Significant

Planted: 10/2/2015

Fertilizer 300 lb/A 15-5-10 at planting and 50 lb of N/A (33-0-0S) after each harvest

Soil Type: Grenada Silt Loam

Table 5. Annual ryegrass production by harvest date and total yield in Starkville, MS.

Variety	Harvest Date				Total Yield
	1/14/2016	3/9/2016	3/29/2016	4/29/2016	
	lb/A				
07-WW	1023	390	1435	1649	4497
Andes	765	361	1323	1888	4336
Attain	995	356	1456	2304	5111
BAR LM 09124	660	203	1372	1584	3820
BAR LM 09129	912	348	1512	1749	4522
BAR LM 09137	756	307	1042	1677	3782
BAR LM 10200	706	302	1033	1850	3891
BAR LM 10202	733	282	1412	1237	3664
BAR LM 15425	966	390	1491	1887	4733
BAR LM 15426	884	336	1582	1688	4489
BAR LM 15427	880	269	1307	1745	4200
Big Boss	1235	439	1683	1973	5330
Cedence	788	190	1396	2134	4508
Diamond T	1023	344	1516	1679	4562
Flying A	1462	394	1356	2255	5467
Fria	1474	185	1360	1813	4833
GA-101-M	1128	290	1532	2429	5379
GALM1401	1297	462	1592	2303	5654
GALM1403	1260	461	1506	2108	5335
GO-15-LN2	1078	302	1517	2159	5056
IS-LWD 8	1005	498	1377	1575	4455
Jackson	637	325	1269	1658	3889

Jumbo	1251	234	1419	2119	5023
Lonestar	1400	479	1229	2377	5485
M2GVS	1225	310	1169	2018	4722
Marshall	1409	558	1772	2722	6461
Maximus	1317	611	1630	1502	5060
ME4	1757	403	1504	1742	5405
ME-94	1167	344	1627	2013	5152
Meroa	880	395	1100	1624	3998
Nelson	1021	336	1060	1943	4360
Passerel Plus	1522	409	1535	1783	5249
Prine	1571	311	1464	2237	5582
PS12	1458	442	1438	1865	5203
PS15	924	312	1493	2264	4992
Ration	894	357	1597	2009	4856
TAMTBO	820	339	1228	1573	3960
Tetrastar	1309	461	1326	2073	5168
Winterhawk	1120	371	1870	2273	5633
Mean	1095	362	1424	1935	4816
LSD <sub>(0.05)</sub>	747	†NS	536	707	1225
CV, %	37	36	26	26	18

†NS: Not Significant

Planted: 10/1/2015

Fertilizer 300 lb/A 15-5-10 at planting and 50 lb of N/A (33-0-0S) after each harvest

Herbicide: 1 qt/A of GrazonNext® (aminopyralid & 2,4-D) after first harvest

Soil Type: Marietta Fine Sandy Loam

Table 6. Annual ryegrass production by harvest date and total yield in Newton, MS.

Variety	Harvest Date			Total Yield
	2/18/2016	3/17/2016	4/26/2016	
	lb/A			
07-WW	693	6149	2022	8864
Andes	601	4806	2594	8001
Attain	495	6418	2540	9453
BAR LM 09124	512	2923	2601	6036
BAR LM 09129	444	4683	1535	6661
BAR LM 09137	296	4168	2891	7355
BAR LM 10200	327	5001	1372	6700
BAR LM 10202	317	5340	2976	8634
BAR LM 15425	329	3562	2121	6012
BAR LM 15426	322	3885	1740	5948
BAR LM 15427	372	3972	2241	6585
Big Boss	461	4604	2352	7417
Cedence	405	6388	3075	9868
Diamond T	432	6384	2143	8959

Flying A	787	4385	1764	6935
Fria	720	4201	2457	7378
GA-101-M	784	5154	2117	8056
GALM1401	554	6500	2654	9708
GALM1403	816	5119	1314	7250
GO-15-LN2	674	5772	2299	8744
IS-LWD 8	430	8328	2827	11585
Jackson	728	5998	2274	8999
Jumbo	514	5733	3137	9384
Lonestar	805	5393	2177	8375
M2GVS	668	5169	2962	8798
Marshall	840	8002	3150	11992
Maximus	576	7251	2660	10487
ME4	775	4295	2699	7768
ME-94	419	6339	2729	9486
Meroa	314	3914	2042	6271
Nelson	451	4484	2477	7412
Passerel Plus	771	6306	2640	9718
Prine	598	5493	2321	8413
PS12	783	6659	2772	10215
PS15	636	5138	3069	8843
Ration	852	5256	2430	8538
TAMTBO	483	3166	2464	6113
Tetrastar	634	5170	2797	8602
Winterhawk	714	4960	2292	7966
Mean	573	5294	2429	8296
LSD <sub>(0.05)</sub>	†NS	NS	1201	3359
CV, %	22	24	18	28

†NS: Not Significant

Planted: 10/7/15

Fertilizer 300 lb/A 15-5-10 at planting and 50 lb of N/A (33-0-0S) after each harvest

Herbicide: 1 qt/A of GrazonNext® (aminopyralid & 2,4-D) after first harvest

Soil Type: Prentiss Sandy Loam

Table 7. Annual ryegrass production by harvest date and total yield in Poplarville, MS.

Variety	Harvest Date			Total Yield
	2/18/2016	3/15/2016	5/5/2016	
	lb/A			
07-WW	757	2331	2736	5824
Andes	735	2009	4152	6896
Attain	912	2680	4370	7962
BAR LM 09124	601	1955	2371	4926

BAR LM 09129	1312	2014	4317	7644
BAR LM 09137	428	1877	2811	5116
BAR LM 10200	689	2653	1584	4927
BAR LM 10202	857	1745	3604	6205
BAR LM 15425	786	2261	4212	7259
BAR LM 15426	1139	1932	3395	6466
BAR LM 15427	501	2334	4189	7024
Big Boss	1128	2883	4514	8524
Cedence	636	2811	4092	7539
Diamond T	614	1909	3676	6198
Flying A	1020	2340	5508	8868
Fria	1467	2829	4744	9040
GA-101-M	1242	2257	4489	7989
GALM1401	639	2436	3696	6772
GALM1403	1169	2644	3577	7390
GO-15-LN2	1201	2699	4296	8196
IS-LWD 8	788	2862	3127	6777
Jackson	519	2546	3128	6192
Jumbo	978	2772	2635	6385
Lonestar	1451	3001	4791	9243
M2GVS	602	2994	3061	6657
Marshall	1190	2949	3048	7187
Maximus	1527	2408	4549	8484
ME4	1619	2431	4020	8071
ME-94	926	2393	5090	8409
Meroa	1156	1614	3851	6620
Nelson	1516	2365	5571	9452
Passerel Plus	1359	2225	3802	7387
Prine	958	2655	4602	8215
PS12	1187	2352	4898	8438
PS15	931	2513	4490	7935
Ration	991	2629	3643	7263
TAMTBO	941	2242	4664	7847
Tetrastar	1169	2396	4648	8213
Winterhawk	1241	2695	4398	8334
Mean	997	2427	3958	7381
LSD <sub>(0.05)</sub>	†NS	608	447	2241
CV, %	40	17	31	21

†NS: Not Significant

Planted: 10/8/2015

Fertilizer 300 lb/A 15-5-10 at planting and 50 lb of N/A (33-0-0S) after each harvest

Herbicide: 1 qt/A of GrazonNext® (aminopyralid & 2,4-D) after first harvest

Soil Type: Basin Loam

**Table 8. Harvest and total annual ryegrass yield by ploidy level in Holly Springs, MS.**

Ploidy	Harvest Date		Total yield
	5/9/2016	5/25/2016	
	lb/A		
Diploid	6200	513	6713
Tetraploid	5726	425	6151
Mean	5963	469	6432
LSD <sub>(0.05)</sub>	†NS	72	NS
CV, %	42	45	32
†NS: Not Significant			

**Table 9. harvest and total annual ryegrass yield by ploidy level in Starkville.**

Ploidy	Harvest Date			#####
	1/14/2016	3/9/2016	3/29/2016	
	lb/A			
Diploid	1270	377	1485	2111
Tetraploid	1002	345	1574	1812
Mean	1136	361	1529	1961
LSD <sub>(0.05)</sub>	153	†NS	NS	177
CV, %	39	42	45	36
†NS: Not Significant				

**Table 10. Harvest and total annual ryegrass yield by ploidy level in Newton, MS.**

Ploidy	Harvest Date		4/26/2016	Total yield
	#####	#####		
	lb/A			
Diploid	719	5510	2432	8661
Tetraploid	445	4610	2355	7422
Mean	582	5066	2393	8042
LSD <sub>(0.05)</sub>	79	640	†NS	804
CV, %	39	36	29	29
†NS: Not Significant				

**Table 11. Harvest and total annual ryegrass yield by ploidy level in Poplarville, MS.**

Harvest Date	
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<b>Ploidy</b>	<b>#####</b>	<b>#####</b>	<b>5/5/2016</b>	<b>Total Yield</b>
<b>lb/A</b>				
<b>Diploid</b>	<b>1110</b>	<b>3581</b>	<b>4178</b>	<b>7805</b>
<b>Tetraploid</b>	<b>944</b>	<b>2298</b>	<b>3883</b>	<b>7069</b>
<b>Mean</b>	<b>1027</b>	<b>2940</b>	<b>4031</b>	<b>7437</b>
<b>LSD<sub>(0.05)</sub></b>	<b>†NS</b>	<b>156</b>	<b>NS</b>	<b>627</b>
<b>CV, %</b>	<b>45</b>	<b>18</b>	<b>35</b>	<b>24</b>
<b>†NS: Not Significant</b>				













, MS.
<b>Total yield</b>
<b>5244</b>
<b>4735</b>
<b>4989</b>
<b>421</b>
<b>24</b>