

Mississippi Perennial Cool-Season Forage Crop Variety Trials, 2015

Table 1. Monthly rainfall totals for Poplarville, Starkville and Holly Springs in 2015.

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	<i>inches</i>											
Poplarville	3.13	2.3	3.79	5.33	11.44	4.01	4.71	1.00	0.01	6.92	4.4	8.46
Starkville	5.71	4.98	5.47	5.06	5.45	3.18	4.09	2.20	0.95	1.43	0.20	0.09
Holly Springs	0.00	0.53	2.37	2.27	3.09	2.21	0.51	1.00	0.02	0.41	6.44	2.22
MS 30 yr. avg.	5.30	4.70	5.80	5.60	5.10	3.30	4.50	3.80	3.60	3.30	4.80	5.90

Table 2. Mean high & low temperatures by month for Poplarville, Starkville and Holly Springs in 2015.

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	<i>°F</i>											
Poplarville												
High	61	61	76	81	86	91	95	93	81	83	74	71
Low	37	37	55	62	64	71	74	75	76	57	53	51
Starkville												
High	52	48	64	74	81	87	91	89	85	76	66	64
Low	30	29	44	43	59	66	70	66	62	52	44	44
Holly Springs												
High	46	42	59	71	78	87	90	88	84	73	63	59
Low	29	25	40	52	60	67	72	66	63	52	46	42
MS 30 yr. avg.												
High	56	60	69	77	83	90	92	92	87	78	68	59
Low	34	37	45	52	61	68	71	70	65	52	43	37

Table 3. Seeding rates used in variety trials.

Variety	Seeding Rate <i>lb/ac *PLS</i>
Alfalfa	20
Red Clover	12
Tall Fescue	20
Orchardgrass	20
White Clover	3

***PLS: Pure Live Seed**

Alfalfa

Table 4. Dry matter yields for alfalfa varieties in 2015 and the two-year average total at Holly Springs, MS.

Variety	4/30/15	6/09/15	Total	Two-year Avg
	<i>lb/ac</i>			
AlfaGraze 600RR	2202	3058	5260	5808
Bulldog 505	2386	2753	5139	6437
Catalina	1710	3088	4798	5018
FSG 639ST	2814	3228	6043	6684
FSG 903	1837	3129	4966	5745
GA-595	2476	3223	5699	6776
GA-805-M	2186	3018	5204	5791
RD132	1806	3251	5056	5518
Super Sonic	1482	3193	4676	5193
Mean	2100	3105	5204	5886
LSD _{0.05}	551	[†] NS	NS	811
CV%	18	16	13	9

[†]NS: Not Significant
 Planted: September 27, 2013 Soil: Grenada silt loam
 Fertilized: 1 ton/ac lime @ planting
 Herbicide: Paraquat after each harvest 1 pint/ac; Pursuit (ammonium salt of imazethapyr) 4 oz/ac after first harvest

Table 5. Dry matter yields for alfalfa varieties in 2015 and the two-year average total at Starkville, MS.

Variety	4/22/15	6/10/15	Total	Two-year Avg
			<i>lb/ac</i>	
AlfaGraze 600RR	1813	2664	4477	4929
Bulldog 505	1454	2222	3676	4198
Catalina	979	1601	2580	3230
FSG 639ST	1246	1886	3132	4105
FSG 903	967	1541	2508	3661
GA-595	1306	2057	3363	4232
GA-805-M	1283	2326	3609	4594
RD132	1337	1855	3192	3707
Super Sonic	1333	2165	3498	3906
Mean	1302	2035	3337	4063
LSD_{0.05}	†NS	677	1087	917
CV%	28	22	22	15
†NS: Not Significant				
Planted: September, 23 2013 Soil: Marietta fine sandy loam				
Fertilized: 1 ton/ac lime @ planting				
Herbicide: Paraquat after each harvest 1 pint/ac; Pursuit (ammonium salt of imazethapyr) 4 oz/ac after first harvest				

Table 6. Dry matter yields for alfalfa varieties in 2015 and the two-year average total at Poplarville, MS.

Variety	3/27/15	Two-year Avg
<i>lb/ac</i>		
AlfaGraze 600RR	1125	4928
Bulldog 505	1112	4899
Catalina	1139	4733
FSG 639ST	1201	4987
FSG 903	1413	5219
GA-595	821	4387
GA-805-M	1716	5656
RD132	975	4901
Super Sonic	1244	5530
Mean	1194	5027
LSD _{0.05}	[†] NS	NS
CV%	34	15

[†]NS: Not Significant
Planted: October 9, 2013 Soil: Basin loam
Fertilized: 315 lb/ac of 0-0-60 @ mid-season
Lime: 1 ton/ac @ planting
Herbicide: Paraquat after each harvest 1 pint/ac; Pursuit (ammonium salt of imazethapyr) 4 oz/ac after first harvest

Table 12. 2014-2015 tall fescue, orchardgrass, alfalfa, and clover seed sources.

Species	Variety	Company
Alfalfa	Alfalfagraze 600RR	Forage Genetics International
	Bulldog 505	Athens Seed
	Catalina	S&W Seed Company
	FSG 639ST	Farm Science Genetics
	FSG 903	Farm Science Genetics
	GA-595	University of Georgia
	GA-805-M	University of Georgia
	RD132	S&W Seed Company
	Super Sonic	S&W Seed Company
White Clover	Durana	Pennington Seed
	Ocoee	Allied Seed, L.L.C
	Patriot	Pennington Seed
Red Clover	B-11.1814	AgriLife
	Cinnamon+	Allied Seed, L.L.C
	Southern Belle	Allied Seed, LLC
Tall Fescue	Cajun II	Smith Seed Services
	Estancia	Mountain view seeds
	GT213	AgResearch USA Limited
	Kentucky 31	Starkville Coop
	Texoma Max Q II	Pennington Seed
	NFTF 1370	The Noble Foundation
	Rustler	Grassland Oregon, Inc.
Orchardgrass	GO-SOMO	Grassland Oregon, Inc.
	Olympia	Pennington
	Persist	Smith Seed Services
	Quickdraw	Grassland Oregon, Inc.