

MISSISSIPPI COOL-SEASON FORAGE CROP

VARIETY TRIALS, 2026

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS



MISSISSIPPI STATE UNIVERSITY™
MS AGRICULTURAL AND
FORESTRY EXPERIMENT STATION

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This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station. Trade names of commercial and public varieties tested in this report are included only for clarity and understanding.

Mississippi Cool-Season Forage Crop Variety Trials, 2026

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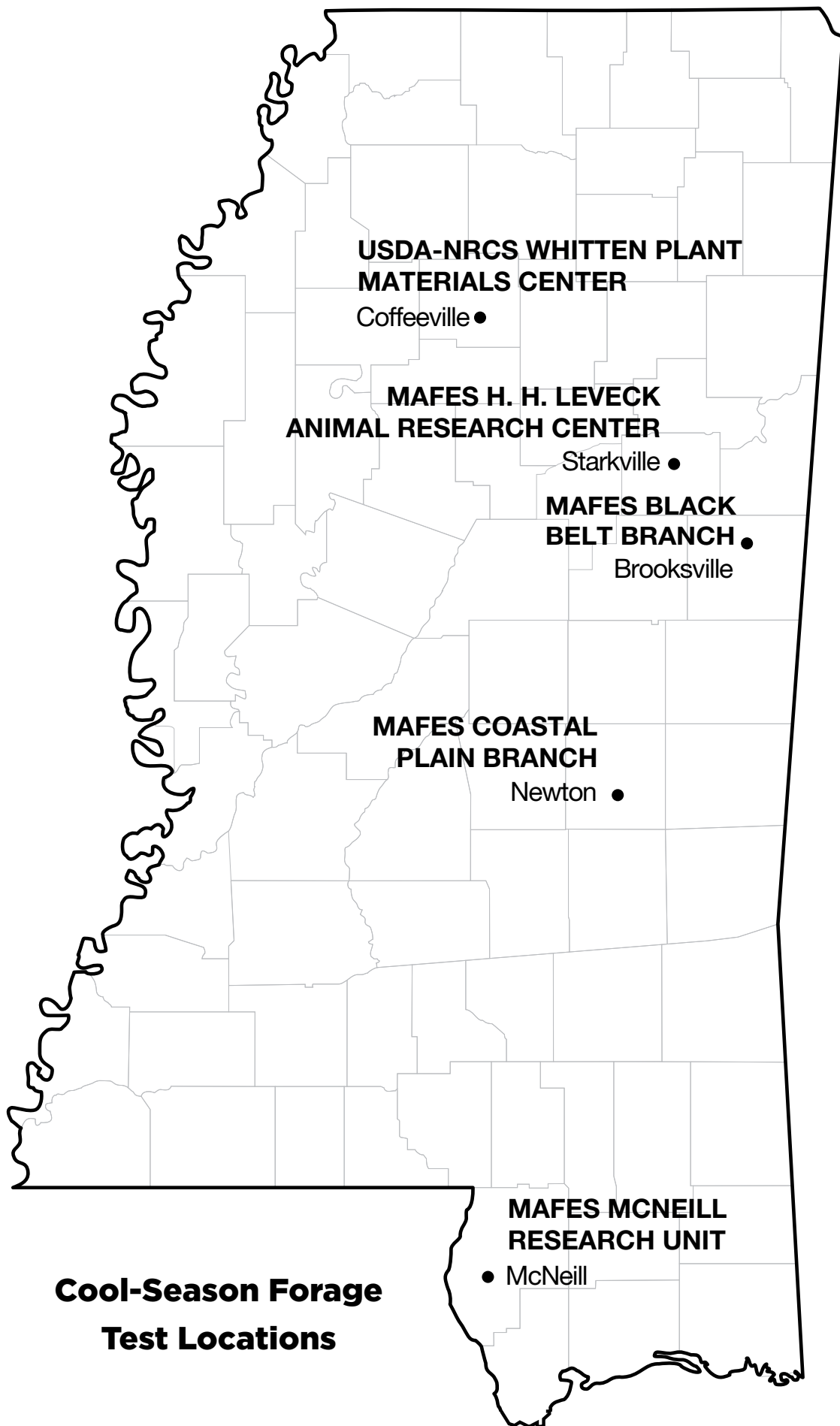
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**Cool-Season Forage
Test Locations**

Mississippi Cool-Season Forage Crop Variety Trials, 2026

INTRODUCTION

Varieties of several forage crop species are evaluated every year in the Mississippi Agricultural and Forestry Experiment Station's, or MAFES, small-plot forage trials. Entries are provided by seed companies as well as breeding programs at state universities. Experimental and commercially available varieties are tested at one or more locations across Mississippi. All entries from private companies are tested on a fee basis. Some varieties may be added by the MAFES forage variety testing program as a reference. Testing was conducted at the following locations: MAFES H. H. Leveck Animal Research Center in Starkville; MAFES Black Belt Branch in Brooksville; MAFES Coastal Plain Branch in Newton;

MAFES McNeill Research Unit in McNeill; and the USDA-NRCS Jamie L. Whitten Plant Materials Center in Coffeeville.

Data presented in Tables 2-15 are used to evaluate the performance of each forage crop within its respective trial. Comparisons were statistically evaluated by using the least significant difference (LSD) test at the probability level of $\alpha = 0.05$. The LSD value represents the minimum amount of dry matter (DM) yield (lb/acre) that must be observed between any two varieties to determine if the difference was due to the variety's performance alone.

PROTOCOL

Annual ryegrass and small grains trials were established between October and November of 2025. Soil samples were taken and analyzed by the Mississippi State University Soil Testing Laboratory. Trial areas were amended with lime and fertilized with phosphorus (P_2O_5) and potassium (K_2O) according to the soil test recommendations for individual species. Grass trials were additionally fertilized with 50 lb nitrogen per acre at planting and after the first harvest using urea (46-0-0). Entries were planted in 6 x 10 ft plots using an ALMACO (Nevada, IA) precision cone seeder on a prepared seedbed. The trial design was a randomized complete block replicated four times. The seeding rates used are presented in Table 1.

Individual trials were harvested when 75% of the plots achieved 15 inches of growth. All plots were harvested to a three-inch stubble height using a Wintersteiger

Cibus F (Wintersteiger AG, Ried, Austria) equipped with a reel type forage harvester that collected a 4.8 ft x 10 ft swath to calculate the total yield. A subsample was collected and dried at 130°F until a constant weight was achieved to calculate DM concentration. Subsamples were then ground to pass through a 1mm screen using a Wiley mill (Thomas Scientific, Swedesboro, NJ). Forage nutritive value was estimated using a Foss DS2500 NIR (FOSS, North America, Eden Prairie, MN) and applying the legume or grass hay equation developed by the NIRS Forage and Feed Testing Consortium (Berea, KY). Forage nutritive value included Acid Detergent Fiber (ADF), Crude Protein (CP), Lignin, Neutral Detergent Fiber (NDF), Insoluble Crude Protein (Insol CP), and Water-Soluble Carbohydrates (WSC). Data were analyzed using the General Linear Model (PROC GLM) of SAS and mean separation was conducted using LSD at $\alpha = 0.05$.

Table 1. Recommended seeding rates for cool-season forage crops.

Type	Species	lb/acre pure live seed
Annual Grasses	Rye	100
	Oat	100
	Triticale	100
	Ryegrass	30

ANNUAL RYEGRASS VARIETY TEST

INTRODUCTION

Annual ryegrass is the most relevant and versatile cool-season annual grass for livestock producers in Mississippi. In pasture and hay systems, annual ryegrass is a popular forage because of its ease of establishment, high nutritive value, high yielding potential, good reseeding ability, and adaptability to a wide range of soil types. Annual ryegrass can be established in pure stands or mixed with small grains and/or clovers for cool-season forage production. For these reasons, annual ryegrass is a staple for many cool-season grazing programs in Mississippi. Recommended planting dates vary by location but usually fall between September to mid-October for

prepared seedbed or late October if overseeded on a warm-season perennial grass pasture. Seeding rates are 30 lb/acre for pure stands and 20 lb/acre for mixtures with small grains and/or clovers. Annual ryegrass is responsive to nitrogen fertilizer, and its use should be split into two applications for grazing systems. Reasonable productivity can be expected from November to May in the southern part of Mississippi and February to May in the northern part of Mississippi. Annual ryegrass should be allowed to reach an initial height of at least 10 inches before grazing begins.

RESULTS

Volunteer ryegrass made a second harvest in Coffeeville difficult for the ryegrass variety trial, so only the first harvest was reported in 2026. Mean DM yields ranged from 4000 to 7000 lb/acre with ryegrass at Newton producing the greatest total yields from three harvests. Mean crude protein concentrations ranged from 13–22%

but were highly variable by location. Small grains were only harvested in McNeill and Coffeeville due to inconsistent stands at the other locations. Small grain yields ranged from 2500 to 3500 lb DM/acre depending on location.

SUMMARIES OF RYEGRASS YIELDS

Table 2. Annual ryegrass production (lb/a) at USDA-NRCS Jamie L. Whitten Plant Materials Center.

Variety	Coffeeville
	3/25/26
23AG DAR	1383
23ARG TAR2	978
BAR LM477	734
BAR LM534	784
BAR LM608	559
BAR LM609	680
Bashaw Diploid	1565
Bashaw Tetraploid	1579
Cold Green	782
Earlyploid	1316
Jackson	911
Jumbo	597
Lonestar	1629
Maximus	937
ME-4	1066
ME-94	1628
More	1379
Nelson	953
PPG-LWD 127	1218
PPG-LWD 131	1135
Prine	988
Sweet T	1402
Tetrastar	1144
Wax Marshall	1380
WMCT	1102
WMWL	998
WMWL-2	863
WRGX2224	1469
MEAN	1113
CV, %	23
LSD _{0.05}	NS

Planted: 11/7/25, Fertilized: 50 lbs of N using urea at planting, NS: Not significant

SUMMARIES OF RYEGRASS YIELDS

Table 3. Annual ryegrass production by harvest date and total yield (lb/acre) at MAFES H. H. Leveck Animal Research Center.

Variety	Starkville Harvest Date		
	3/18/26	4/18/26	Total
	lb/acre		
23AG DAR	1812	1708	3520
23ARG TAR2	1680	1648	3328
BAR LM477	1913	1751	3664
BAR LM534	1906	1899	3806
BAR LM608	1467	2025	3492
BAR LM609	1656	1305	2961
Bashaw Diploid	2390	1608	3999
Bashaw Tetraploid	2010	1781	3791
Cold Green	2119	1731	3851
Earlyploid	2724	2133	4857
Jackson	1875	1570	3445
Jumbo	2289	1908	4196
Lonestar	2357	1562	3918
Maximus	1669	1752	3421
ME-4	1848	1955	3803
ME-94	2464	1652	4116
More	2113	1789	3902
Nelson	2167	2118	4285
PPG-LWD 127	2091	1540	3632
PPG-LWD 131	1617	1760	3377
Prine	2298	1907	4205
Sweet T	1673	1883	3555
Tetrastar	2171	1773	3944
Wax Marshall	2296	1675	3971
WMCT	2151	1966	4118
WMWL	1642	2427	4069
WMWL-2	2290	2096	4386
WRGX2224	1876	1925	3800
MEAN	2020	1816	3836
CV %	33	24	20
LSD _{0.05}	NS	NS	NS

Planted: 10/21/25, Fertilized: 50 lbs of N using Urea at planting and after first harvest, NS: Not significant

SUMMARIES OF RYEGRASS YIELDS

Table 4. Annual ryegrass production by harvest date and total yield (lb/acre) at MAFES Coastal Plain Branch.

Variety	Newton Harvest Date			
	1/20/26	3/17/26	4/14/26	Total
	lb/acre			
23AG DAR	2305	3083	1850	7238
23ARG TAR2	2381	2570	2381	7331
BAR LM477	2449	4297	2141	8887
BAR LM534	2466	3239	2225	7930
BAR LM608	1490	2353	1915	5758
BAR LM609	2618	3099	2236	7953
Bashaw Diploid	2498	2469	1933	6900
Bashaw Tetraploid	2441	2473	2336	7250
Cold Green	2275	3179	1945	7399
Earlyploid	2229	2371	1597	6197
Jackson	2071	2910	2466	7447
Jumbo	2732	3291	2154	8177
Lonestar	2616	2617	2100	7333
Maximus	2419	2812	2074	7305
ME-4	1591	3310	2323	7223
ME-94	2283	3493	2120	7896
More	1523	3415	1923	6860
Nelson	2267	2804	2180	7251
PPG-LWD 127	2156	3250	2312	7718
PPG-LWD 131	1591	2688	2111	6390
Prine	2170	2478	1974	6622
Sweet T	2277	2636	2090	7003
Tetrastar	1431	2539	2051	6021
Wax Marshall	2306	1942	1993	6241
WMCT	2365	2786	1945	7096
WMWL	2171	2269	2055	6495
WMWL-2	2187	2939	1843	6969
WRGX2224	2421	2955	2121	7496
MEAN	2204	2867	2085	7156
CV %	33	40	28	23
LSD _{0.05}	NS	NS	NS	NS

Planted: 10/24/25, Fertilized: 50 lbs of N using Urea at planting and after 1st harvest, NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 5. Annual ryegrass production by harvest date and total yield (lb/acre) at MAFES McNeill Research Unit

Variety	McNeill Harvest Date		
	3/6/26	4/8/26	Total
	lb/acre		
23AG DAR	2122	1670	3792
23ARG TAR2	2486	2516	5002
BAR LM477	2220	3014	5234
BAR LM534	2336	2770	5106
BAR LM608	1791	3089	4880
BAR LM609	1947	2686	4633
Bashaw Diploid	2576	2354	4930
Bashaw Tetraploid	2433	2600	5033
Cold Green	2301	2466	4767
Earlyploid	2729	2583	5312
Jackson	1785	3166	4951
Jumbo	2178	2478	4655
Lonestar	2571	2353	4924
Maximus	2749	2181	4930
ME-4	1804	3179	4984
ME-94	2501	2493	4994
More	2152	2278	4429
Nelson	2651	2882	5533
PPG-LWD 127	2630	2456	5086
PPG-LWD 131	2462	2624	5086
Prine	2315	3184	5499
Sweet T	2254	2904	5158
Tetrastar	2168	2385	4553
Wax Marshall	2146	2626	4772
WMCT	2431	2667	5099
WMWL	1977	3319	5296
WMWL-2	2305	2827	5132
WRGX2224	2282	2520	4802
MEAN	2296	2653	4949
CV %	18	14	11
LSD _{0.05}	591	535	NS

Planted: 11/17/25, Fertilized: 50 lbs N using Urea at planting and after 1st harvest, NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 6. Annual ryegrass production by harvest date and total yield (lb/acre) at MAFES Black Belt Branch.

Variety	Brooksville Harvest Date		
	3/20/26	4/22/26	Total
	lb/acre		
23AG DAR	1043	2746	3790
23ARG TAR2	712	2301	3013
BAR LM477	771	3021	3792
BAR LM534	674	2622	3296
BAR LM608	749	2535	3284
BAR LM609	782	2714	3496
Bashaw Diploid	898	3134	4031
Bashaw Tetraploid	588	2688	3276
Cold Green	677	2330	3008
Earlyploid	764	2577	3340
Jackson	520	2582	3101
Jumbo	784	2292	3076
Lonestar	683	3188	3871
Maximus	404	2363	2767
ME-4	795	3108	3903
ME-94	1102	2406	3508
More	707	2959	3666
Nelson	1021	2535	3556
PPG-LWD 127	972	3412	4385
PPG-LWD 131	700	2371	3071
Prine	741	2419	3159
Sweet T	768	2280	3048
Tetrastar	525	2419	2944
Wax Marshall	1055	2797	3852
WMCT	921	2834	3755
WMWL	688	2788	3476
WMWL-2	1093	3230	4323
WRGX2224	675	2265	2940
MEAN	779	2676	3455
CV %	45	22	24
LSD _{0.05}	NS	NS	NS

Planted: 11/12/25, Fertilized: 50 lbs N using Urea at planting and after 1st harvest, NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 7. Forage nutritive value of ryegrass varieties harvested at USDA-NRCS Jamie L. Whitten Plant Materials Center.

Variety	Coffeeville Harvest Date 3/25/26				
	ADF	Lignin	CP	NDF	WSC
	% of DM				
23AG DAR	26	2	13	41	17
23ARG TAR2	25	2	13	38	19
BAR LM477	24	2	15	38	19
BAR LM534	23	2	13	35	21
BAR LM608	23	2	13	35	20
BAR LM609	24	2	13	37	21
Bashaw Diploid	27	2	13	42	17
Bashaw Tetraploid	26	2	14	41	17
Cold Green	24	2	14	38	19
Earlyploid	24	2	14	40	19
Jackson	23	2	14	38	20
Jumbo	25	2	13	38	19
Lonestar	26	2	13	41	17
Maximus	27	2	14	42	15
ME-4	23	2	13	38	20
ME-94	25	2	13	40	18
More	27	2	13	42	16
Nelson	25	2	13	39	19
PPG-LWD 127	22	2	14	36	20
PPG-LWD 131	24	1	14	39	18
Prine	24	2	14	37	19
Sweet T	26	2	15	41	17
Tetrastar	27	2	13	41	17
Wax Marshall	26	2	13	43	16
WMCT	24	2	13	38	19
WMWL	25	2	14	39	19
WMWL-2	25	2	13	39	19
WRGX2224	25	2	13	38	19
MEAN	25	2	13	39	18
CV, %	4	16	6	6	11
LSD _{0.05}	2.12	NS	NS	NS	NS

NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 8. Forage nutritive value of ryegrass varieties harvested at MAFES Black Belt Branch.

Variety	Brooksville Harvest Date									
	3/20/26					4/22/26				
	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC
	% of DM									
23AG DAR	25	2	20	42	12	26	3	19	49	11
23ARG TAR2	25	2	21	41	12	23	2	22	44	11
BAR LM477	21	1	24	37	13	23	3	22	44	11
BAR LM534	22	1	23	37	13	24	2	20	46	12
BAR LM608	22	1	23	37	12	24	2	21	45	11
BAR LM609	24	2	21	40	12	25	3	19	48	12
Bashaw Diploid	23	2	23	39	12	25	3	21	48	10
Bashaw Tetraploid	24	1	22	41	12	27	3	19	50	10
Cold Green	24	2	21	40	13	24	3	19	46	13
Earlyploid	23	1	21	39	14	24	3	21	45	10
Jackson	21	2	25	38	12	22	2	22	44	12
Jumbo	24	2	21	40	12	25	2	19	46	13
Lonestar	25	2	22	43	11	27	3	19	51	10
Maximus	23	1	22	39	13	24	2	22	46	11
ME-4	20	1	23	36	14	25	3	18	48	12
ME-94	27	2	19	45	11	28	3	19	52	9
More	22	2	25	38	12	25	3	21	47	10
Nelson	25	1	20	41	12	25	2	19	46	13
PPG-LWD 127	22	1	23	39	12	22	2	22	44	12
PPG-LWD 131	22	1	22	38	13	23	2	20	45	13
Prine	25	2	22	41	11	26	3	19	47	11
Sweet T	24	1	21	40	13	23	2	22	44	11
Tetrastar	23	2	23	39	12	24	2	21	47	10
Wax Marshall	24	2	21	40	13	24	3	20	47	12
WMCT	22	1	22	38	13	23	2	22	45	12
WMWL	23	2	21	39	13	24	2	19	45	14
WMWL-2	24	2	19	41	13	27	3	17	49	12
WRGX2224	25	2	22	41	11	25	2	21	47	11
MEAN	23	1	22	39	12	24	2	20	46	11
CV, %	6	28	7	5	9	7	20	8	6	11
LSD _{0.05}	2.88	0.8	NS	3.7	NS	NS	NS	NS	NS	NS

NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 9. Forage nutritive value of ryegrass varieties harvested at MAFES H. H. Leveck Animal Research Center.

Variety	Starkville Harvest Date									
	3/18/26					4/18/26				
	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC
	% of DM									
23AG DAR	26	2	13	45	16	27	3	13	49	16
23ARG TAR2	26	2	13	44	17	26	3	14	45	18
BAR LM477	26	1	17	46	13	24	2	17	44	17
BAR LM534	25	1	14	43	16	26	3	14	44	18
BAR LM608	24	2	13	39	19	26	3	13	44	18
BAR LM609	24	2	14	41	19	26	3	14	44	17
Bashaw Diploid	26	2	14	47	15	28	4	14	51	14
Bashaw Tetraploid	28	2	16	48	12	25	3	16	46	15
Cold Green	24	2	16	43	15	25	3	14	44	18
Earlyploid	24	2	16	43	16	27	3	15	50	14
Jackson	25	2	16	43	16	27	3	14	48	16
Jumbo	26	2	14	46	15	25	3	13	44	18
Lonestar	26	2	15	47	14	27	4	16	48	15
Maximus	25	2	13	43	17	27	4	15	47	14
ME-4	23	2	17	41	16	26	3	13	45	18
ME-94	27	2	15	47	14	27	3	14	48	16
More	27	2	14	47	15	28	4	14	49	15
Nelson	26	2	13	44	17	26	3	14	44	18
PPG-LWD 127	24	2	15	44	15	25	3	15	46	15
PPG-LWD 131	25	2	16	44	15	26	3	14	46	17
Prine	26	2	15	45	15	25	3	15	45	17
Sweet T	26	2	14	46	15	25	3	15	44	18
Tetrastar	27	2	15	46	15	28	3	15	47	14
Wax Marshall	26	2	14	46	16	28	4	14	50	14
WMCT	25	2	12	42	19	25	3	14	43	19
WMWL	25	2	15	45	15	26	3	13	45	18
WMWL-2	26	2	12	46	17	27	4	12	49	16
WRGX2224	26	1	14	44	16	25	3	15	43	17
MEAN	25	2	14	44	16	26	3	14	46	16
CV, %	6	31	20	6	17	5	14	17	5	18
LSD _{0.05}	NS	NS	NS	NS	NS	NS	0.86	NS	4.7	NS

NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 10. Forage nutritive value of ryegrass varieties harvested at MAFES McNeill Research Unit.

Variety	McNeill Harvest Date									
	3/6/26					4/8/26				
	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC
	% of DM									
23AG DAR	27	2	22	50	9	28	5	23	53	6
23ARG TAR2	25	2	24	46	9	29	4	23	53	7
BAR LM477	24	2	22	45	11	28	4	20	50	9
BAR LM534	26	1	22	46	10	30	4	21	51	7
BAR LM608	24	2	23	45	9	29	3	19	51	8
BAR LM609	23	1	24	43	10	30	3	19	52	8
Bashaw Diploid	28	2	21	49	9	29	5	22	55	5
Bashaw Tetraploid	27	2	23	47	8	28	4	22	52	7
Cold Green	24	1	22	44	10	29	4	21	53	8
Earlyploid	25	2	23	47	9	28	4	22	50	7
Jackson	25	2	22	46	10	29	4	21	53	7
Jumbo	26	2	22	47	9	31	4	20	54	7
Lonestar	24	2	23	45	10	27	5	23	53	6
Maximus	26	1	22	46	10	29	4	22	54	6
ME-4	22	1	24	42	11	29	4	19	53	9
ME-94	26	2	22	48	9	31	4	20	55	7
More	26	2	22	47	9	28	4	23	53	6
Nelson	28	2	21	49	9	29	4	21	53	7
PPG-LWD 127	25	2	23	47	8	26	4	24	51	6
PPG-LWD 131	26	2	21	46	10	29	4	19	53	8
Prine	24	1	24	45	9	31	4	19	54	7
Sweet T	27	2	24	48	8	30	4	19	53	8
Tetrastar	26	1	23	47	9	30	5	22	55	6
Wax Marshall	26	2	23	47	9	31	4	19	56	7
WMCT	24	2	24	45	10	28	4	22	51	7
WMWL	25	2	22	46	9	29	4	21	53	7
WMWL-2	26	2	22	49	9	29	4	21	54	6
WRGX2224	24	2	24	44	10	30	4	23	53	6
MEAN	25	2	22	46	9	29	4	21	53	7
CV, %	8	33	8	4	13	6	14	10	4	16
LSD _{0.05}	NS	NS	NS	3.45	NS	NS	NS	NS	NS	NS

NS: Not Significant

SUMMARIES OF RYEGRASS YIELDS

Table 11. Forage nutritive value of ryegrass varieties harvested at MAFES Coastal Plain Branch.

Variety	Newton Harvest Date														
	1/20/26					3/17/26					4/18/26				
	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC
	% of DM														
23AG DAR	22	2	18	33	17	26	3	17	41	13	24	2	18	40	14
23ARG TAR2	22	2	21	34	15	25	3	18	38	14	24	2	17	40	15
BAR LM477	23	2	19	35	15	27	3	16	43	11	24	2	17	41	15
BAR LM534	21	3	19	33	16	26	3	16	39	14	23	2	17	38	15
BAR LM608	21	3	20	32	16	23	3	20	36	14	24	3	18	40	14
BAR LM609	22	3	21	34	14	25	2	18	39	14	23	2	17	39	16
Bashaw Diploid	22	2	18	34	16	25	3	15	38	16	24	2	15	40	17
Bashaw Tetraploid	22	3	19	34	16	25	3	17	39	14	24	2	16	40	16
Cold Green	21	2	19	33	17	26	3	16	42	13	24	2	17	39	15
Earlyploid	21	2	18	33	17	25	3	15	39	15	24	2	16	40	16
Jackson	21	3	19	34	16	25	3	18	39	13	23	2	18	40	15
Jumbo	22	2	18	34	17	26	3	16	40	14	24	2	17	40	14
Lonestar	22	2	19	34	15	26	3	15	41	14	24	2	17	39	15
Maximus	21	2	18	33	17	25	2	17	39	14	23	2	18	38	15
ME-4	19	2	20	30	18	24	3	18	38	14	23	2	17	39	16
ME-94	22	3	20	33	15	26	3	17	40	13	23	3	18	39	15
More	20	3	19	31	17	25	2	16	40	15	23	2	18	40	15
Nelson	22	2	21	34	14	25	3	17	39	14	24	2	17	41	15
PPG-LWD 127	20	3	19	32	17	24	3	18	38	14	23	2	16	38	17
PPG-LWD 131	21	2	19	32	16	26	3	16	40	14	23	2	18	39	15
Prine	23	2	19	34	15	25	3	16	39	14	24	3	17	40	14
Sweet T	22	2	20	33	16	26	3	16	40	14	24	2	18	40	14
Tetrastar	20	3	21	31	17	25	2	17	40	14	23	2	16	40	16
Wax Marshall	21	2	19	33	16	27	3	14	42	14	23	2	17	39	16
WMCT	21	2	18	32	18	26	3	16	39	15	24	2	17	39	15
WMWL	21	2	19	32	17	25	2	15	39	16	24	2	16	38	17
WMWL-2	22	2	17	33	17	27	2	14	41	15	24	2	16	40	16
WRGX2224	22	2	18	34	16	26	3	16	41	14	23	2	18	39	15
MEAN	21	2	19	33	16	25	3	16	40	14	24	2	17	39	15
CV, %	11	17	15	9	19	8	15	21	8	20	6	12	16	6	12
LSD _{0.05}	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS: Not Significant															

SMALL GRAIN VARIETY TEST

INTRODUCTION



In Mississippi, small grains (oat, wheat, rye and triticale) are not used as extensively for forage production as annual ryegrass because of lower annual DM yields. However, some small grains tend to be more drought and cold tolerant than ryegrass and can provide highly digestible forage when other forages are not available. They can also be used for early grazing during the transition period from summer perennial grasses to annual ryegrass grazing. Cereal rye and triticale have greater cold tolerance among small grains; therefore, they have the potential to continue vegetative growth during the fall and winter months in Mississippi.

SUMMARIES OF SMALL GRAIN YIELDS

Table 12. Oat forage production by harvest date (lb/A) at USDA-NRCS Jamie L. Whitten Plant Materials Center.

Variety	Coffeeville Harvest Date		
	3/25/26	5/5/26	Total
	lb/acre		
11019	895	2925	3821
Everleaf Falcon	317	1695	2012
Bob	265	2661	2927
Everleaf	247	1528	1775
Reeves	180	2038	2218
Cosaque Black	896	2721	3616
Rushmore	138	1615	1753
MEAN	420	2169	2589
CV, %	42	21	21
LSD _{0.05}	318	688	803

Planted: 11/7/25, Fertilized: 50 lb N using Urea at planting and after 1st harvest

SUMMARIES OF SMALL GRAIN YIELDS

Table 13. Oat forage production by harvest date (lb/A) at MAFES McNeill Research Unit.

Variety	McNeill Harvest Date		
	3/6/26	5/5/26	Total
	lb/acre		
11019	2644	1562	4206
Everleaf Falcon	1623	1899	3523
Bob	2457	2441	4898
Everleaf	1032	699	1732
Reeves	1169	1857	3026
Cosaque Black	2225	2181	4406
Rushmore	1871	1365	3236
MEAN	1860	1715	3575
CV, %	33	42	34
LSD _{0.05}	904	NS	1808
Planted: 11/17/25, Fertilized: 50 lbs N using Urea at planting and after 1st harvest, NS: Not Significant			

Table 14. Forage nutritive value of oat varieties harvested at USDA-NRCS Jamie L. Whitten Plant Materials Center.

Variety	Coffeeville Harvest Date									
	3/25/26					5/5/26				
	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC
	% of DM									
11019	21	2	16	36	19	31	5	11	58	10
Everleaf Falcon	22	2	15	38	19	26	3	16	49	11
Bob	22	2	15	38	18	30	4	12	57	11
Everleaf	20	2	13	34	23	24	3	14	45	15
Reeves	19	2	20	36	15	28	3	14	55	10
Cosaque Black	19	2	18	33	19	26	3	15	49	12
Rushmore	20	2	17	36	17	31	3	10	60	13
MEAN	21	2	16	36	18	28	3	13	53	12
CV, %	5.2	12.14	23.12	5.18	24.3	13.3	18.75	21.9	15.08	14.6
LSD _{0.05}	NS	NS	NS	NS	NS	NS	1.4	NS	NS	NS
NS: Not significant										

SUMMARIES OF SMALL GRAIN YIELDS

Table 15. Forage nutritive value of oat varieties harvested at MAFES McNeill Research Unit.

Variety	McNeill Harvest Date									
	3/6/26					5/5/26				
	ADF	Lignin	CP	NDF	WSC	ADF	Lignin	CP	NDF	WSC
	% of DM									
11019	25	2	23	48	9	21	1	27	44	9
Everleaf Falcon	23	2	24	44	9	22	2	26	43	7
Bob	25	2	24	48	8	22	2	25	44	9
Everleaf	25	2	24	48	7	20	2	26	41	8
Reeves	25	2	24	48	8	21	2	25	43	9
Cosaque Black	21	2	26	44	9	23	3	25	44	8
Rushmore	21	2	27	41	9	21	2	26	40	9
MEAN	23	2	25	46	9	21	2	26	43	9
CV, %	10.02	15.8	10.9	6.7	10.8	10.45	37.6	8.08	7.45	6.03
LSD _{0.05}	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.23
NS: Not significant										



The mission of the Mississippi Agricultural and Forestry Experiment Station and the College of Agriculture and Life sciences is to advance agriculture and natural resources through teaching and learning, research and discovery, service and engagement which will enhance economic prosperity and environmental stewardship, to build stronger communities and improve the health and well-being of families, and to serve people of the state, the region and the world.

Scott Willard, Director

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