

# PERFORMANCE OF RYEGRASS VARIETIES IN ALABAMA, 2021-2022

DEPT. SERIES NO. CSES2022: RYEGRASS  
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CROP, SOIL & ENVIRONMENTAL SCIENCES  
AUBURN UNIVERSITY, AUBURN AL  
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## MISSION

The mission of the Auburn University Variety Testing Program is to provide research-based, unbiased results on the performance of various crop hybrids, cultivars, and varieties to the agricultural community in our state. We are intent on conducting these trials in a manner that will result in maximum biological yield through methods common to the top-producing farms in Alabama. We are committed to providing this information in a timely manner for its use during the decision-making process. The success of the program rests upon our ability to help Alabama producers provide a safe, dependable source of food and fiber for all families as well as economic sustainability for theirs.

## HOW TO INTERPRET RESULTS

The purpose of the variety trial data is to determine whether differences are due to genetic performance. These differences cannot be measured absolutely due to environmental field conditions (rainfall, temperatures, soil fertility, soil type, disease, insects, etc.). Yields may differ between plots of the same entry. This variation is accounted for using experimental design and statistics.

The least significant difference (LSD) is used to determine whether the observed differences between entries are real or are caused by random variation. When using the LSD, two entries may have numerically different values, but the values are not statistically different. When two entries are compared and the observed difference is larger than the LSD, the entries are considered statistically different. An alpha level of 0.10 is used, meaning that the differences observed are expected to be real 90% of the time.

The coefficient of variation (CV) is a measure used to compare the amount of random variation within a data set. The lower the CV, the more precise the data set. The model r-square value (0.0-1.0) represents the amount of variation accounted for by the statistical model. As the value increases, the better the variation in the dataset is explained by the model.

Each table is organized in a manner that it is easy to read. The data is sorted from highest yielding to lowest. The bolded values are not statistically different from the highest yielding value.

A dark line in the table visually represents the test average. Any value above the line is equal to or greater than the test average. The numeric value for the test average is at the bottom of the tables.

**Test results do not imply recommendation or endorsement by the Auburn University Variety Testing Program.**



# ACKNOWLEDGEMENTS

**DR. PAUL PATTERSON, DEAN AND DIRECTOR  
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# TABLE OF CONTENTS

## TRIAL MANAGEMENT

### SEED SOURCES

### STATEWIDE SUMMARY

#### **SAND MOUNTAIN RESEARCH AND EXTENSION CENTER CROSSVILLE, AL**

**DATA**      **WEBSITE**

Chet Norris, Interim Director

Clint McElroy, Associate Director

#### **E.V. SMITH RESEARCH AND EXTENSION CENTER PLANT BREEDING UNIT - TALLASSEE, AL**

**DATA**      **WEBSITE**

Jason Burkett, Associate Director

#### **WIREGRASS RESEARCH AND EXTENSION CENTER HEADLAND, AL**

##### YIELD

**QUALITY:**      **CP**      **NDF**      **ADF**      **RFQ**      **TDN**

**WEBSITE**

Chris Parker, Associate Director

#### **GULF COAST RESEARCH AND EXTENSION CENTER FAIRHOPE, AL**

**DATA**      **WEBSITE**

Malcomb Pegues, Director

Jarrod Jones, Associate Director

#### **2020-2021 PERFORMANCE OF RYEGRASS VARIETIES IN ALABAMA “LAST YEAR’S DATA”**

**ACES PUBLICATION**  
**INTERPRETING A FORAGE ANALYSIS FOR BEEF CATTLE**

## TRIAL MANAGEMENT

Yields are calculated on a dry matter basis. A subsample, taken from each plot, is oven-dried and used to calculate percent dry matter.

**TABLE 1 - AGRONOMIC INFORMATION**

Crop	Seeding Rate	Row Spacing	Plot Size	Number of Replications
Ryegrass	20 lbs/acre 30 lbs/acre @ GCREC	7 inch	3-5 x 10-20 ft	4

**TABLE 2 - LOCATION SPECIFIC INFORMATION**

Research Center	Sand Mountain	E.V. Smith Plant Breeding Unit	Wiregrass	Gulf Coast
Location	Crossville	Tallasseee	Headland	Fairhope
Region	North	Central	South	South
Plant Date	November 17	September 30	November 8	October 26
Harvest 1	March 21	January 12	January 24	December 16
Harvest 2	April 12	March 2	March 25	January 7
Harvest 3	May 2	March 28	April 13	February 10
Harvest 4	May 31	April 21	NA	March 7
Harvest 5	NA	May 24	NA	March 25
Harvest 6	NA	NA	NA	April 19
Soil Type	Hartselle Fine Sandy Loam	Kalmia Loamy Sand	Dothan Sandy Loam	Malbis Fine Sandy Loam
Tillage	Conventional	Conventional	Conventional	No-Till
Pre-plant Fertilizer	50 lb N	N/A	45N-280P-280K	50N-50P-50K
In Season Fertilizer	50 lb N after each harvest	50 lb N after each harvest	50 lb N after each harvest	50 lb N after each harvest
Test Conducted By	C. McElmoyl D. Stallings	F. Jackson J. Burkett	B. Johnson C. Parker E. Richards H. McDaniel J. Greene J. Mullen K. Hodges M. Davis S. Phillips	J. Jones M. Pegues

[Table of Contents](#)

## SEED SOURCES

**TABLE 3 - SOURCE OF SEED, VARIETY NAME, AND LOCATION TESTED**

Source	Source Location	Variety	Released or Experimental
Bashaw Land & Seed Inc.	Harrisburg, Oregon	Bashaw Diploid	Released
		Bashaw Tetraploid	Released
DLF Pickseed	Hasley, Oregon	Andes	Released
GO Seed	Salem, Oregon	GO-MOT	Experimental
		Lonestar	Released
		TetraStar	Released
GreenPoint Ag	Macon, Missouri	Fria	Released
Mountain View Seeds	Salem, Oregon	Centurion	Released
		Ranahan	Released
Oregro Seed	Albany, Oregon	Diamond T	Released
		Double Diamond	Released
		Flying A	Released
		K014-WEAR	Experimental
		Sherrif	Experimental
		TAMTBO	Released
		Triangle T	Released
		Winterhawk	Released
Ragan and Massey	Ponchatoula, Louisiana	Earlyployd	Released
		Prine	Released
		RM4L	Released

Source	Source Location	Variety	Released or Experimental
Smith Seed Services	Halsey, Oregon	Attain	Released
		Bendix	Released
		Baqueano	Released
		Big Boss	Released
		Claro	Released
		Dexter	Experimental
		FrostProof	Released
		Green Dragon	Released
		Green Farm 2	Released
		GreenAcres	Experimental
		Gulf	Released
		Halsey	Experimental
		Koga	Released
		Mantis	Experimental
		Rapido	Released
		SELWDTSEM1	Experimental
		SELWTDWL1	Experimental
The Wax Company, LLC	Armory, Mississippi	Jackson	Released
		ME4	Experimental
		ME-94	Experimental
		Nelson	Released
		Wax Marshall	Released
		WMWL	Experimental
		WMWL-2	Experimental

[Table of Contents](#)

**SAND MOUNTAIN RESEARCH AND EXTENSION CENTER**  
**CROSSVILLE, AL**

**TABLE 4 - DRY MATTER YIELD BY HARVEST TIMING (LB/ACRE)**

Variety	1st Harvest 3/21/2022	2 <sup>nd</sup> Harvest 4/13/2022	3 <sup>rd</sup> Harvest 5/2/2022	4 <sup>th</sup> Harvest	Early Season	Late Season	Season Total
Halsey	356	2027	2238	<b>3134</b>	2383	<b>5371</b>	<b>7755</b>
RM4L	540	<b>2483</b>	1942	2424	<b>3023</b>	4366	<b>7388</b>
ME4	453	2098	2244	2579	2551	4823	<b>7374</b>
WMWL-2	300	<b>2377</b>	2194	2501	<b>2677</b>	4694	<b>7371</b>
GO-MOT	397	1906	<b>2571</b>	2479	2303	<b>5050</b>	<b>7353</b>
Triangle T	620	<b>2136</b>	1942	2652	<b>2755</b>	4594	<b>7349</b>
Centurion	597	<b>2329</b>	2061	2288	<b>2926</b>	4349	<b>7275</b>
Winterhawk	<b>691</b>	<b>2157</b>	2088	2319	<b>2848</b>	4406	<b>7254</b>
FrostProof	505	<b>2297</b>	1944	2482	<b>2802</b>	4426	<b>7228</b>
Green Farm 2	561	<b>2223</b>	2093	2302	<b>2785</b>	4394	<b>7179</b>
Double Diamond	636	<b>2131</b>	1891	2503	<b>2767</b>	4394	<b>7161</b>
TetraStar	585	<b>2229</b>	2041	2294	<b>2814</b>	4335	<b>7149</b>
TAMTBO	534	2043	2067	2462	2577	4529	7106
Bashaw Diploid	648	<b>2374</b>	1921	2097	<b>3022</b>	4018	7040
Bashaw Tetraploid	479	<b>2294</b>	1907	2326	<b>2772</b>	4233	7005
Bendix	436	1758	2152	2622	2194	4774	6968
Attain	445	1966	<b>2356</b>	2171	2411	4527	6938
K014-WEAR	386	1990	1955	2566	2376	4521	6897
Koga	231	1794	2054	<b>2790</b>	2025	4844	6869
Ranahan	373	1780	2106	2604	2152	4711	6863
Big Boss	436	<b>2392</b>	1885	2146	<b>2828</b>	4030	<b>6858</b>
Earlyployd	<b>833</b>	<b>2173</b>	1978	1817	<b>3006</b>	3795	6800
Nelson	429	1955	2074	2333	2384	4408	6792
Fria	497	<b>2354</b>	2173	1738	<b>2851</b>	3911	6762
Claro	384	1908	2032	2431	2292	4463	6754
Flying A	627	<b>2224</b>	1855	2036	<b>2852</b>	3891	6743
ME-94	380	2055	2052	2255	2435	4307	6742
Lonestar	606	<b>2143</b>	1893	2081	<b>2750</b>	3975	6724
Wax Marshall	185	<b>2297</b>	2004	2234	2482	4239	6720
Diamond T	622	2110	1921	2019	<b>2732</b>	3940	6672
SELWTDWL1	383	1935	2003	2338	2318	4342	6660
SELWDTSEM1	465	2032	2077	2084	2498	4160	6658
GreenAcres	510	2033	2040	2074	2543	4114	6657
Gulf	399	2062	2181	1988	2461	4168	6629
Jackson	400	<b>2158</b>	2060	2007	2557	4067	6625
Andes	327	1868	2052	2334	2195	4386	6581
WMWL	316	1987	1926	2349	2303	4275	6578
Prine	524	2090	1985	1957	<b>2615</b>	3942	6557
Dexter	185	1746	1943	2594	1932	4537	6469
Baqueano	301	2101	1964	2004	2402	3968	6370
Sherrif	513	2117	1743	1951	<b>2630</b>	3694	6324
Mantis	393	1944	1840	2006	2337	3846	6183
Green Dragon	515	1941	1957	1727	2456	3684	6140
Rapido	592	1928	1943	1567	2520	3511	6031

Variety	1st Harvest 3/21/2022	2nd Harvest 4/13/2022	3rd Harvest 5/2/2022	4th Harvest	Early Season	Late Season	Season Total
Average	468	2090	2031	2265	2558	4296	6853
LSD at 10% level	174	355	277	397	443	519	645
CV	41	17	13	19	17	12	9
Model R-Square	0.56	0.46	0.37	0.54	0.45	0.50	0.41

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

N.S. –differences are statistically non-significant.

**E.V. SMITH RESEARCH AND EXTENSION CENTER**  
**PLANT BREEDING UNIT - TALLASSEE, AL**

**TABLE 5 - DRY MATTER YIELD BY HARVEST TIMING (LB/ACRE)**

Variety	1st Harvest 1/12/2022	2nd Harvest 3/2/2022	3 <sup>rd</sup> Harvest 3/28/2022	4 <sup>th</sup> Harvest 4/21/2022	5 <sup>th</sup> Harvest 5/24/2022	Early Season	Late Season	Season Total
ME4	1273	<b>1552</b>	2892	<b>1898</b>	1092	<b>2826</b>	<b>5881</b>	<b>8707</b>
WMWL	<b>1915</b>	<b>1715</b>	2286	1409	940	<b>3630</b>	4636	<b>8266</b>
FrostProof	<b>1581</b>	<b>1695</b>	2243	<b>1697</b>	1000	<b>3276</b>	4941	<b>8217</b>
Mantis	<b>1622</b>	<b>1729</b>	2190	1492	1154	<b>3351</b>	4837	<b>8187</b>
Sherrif	<b>1504</b>	<b>1678</b>	2417	1645	890	<b>3182</b>	4952	<b>8134</b>
K014-WEAR	1235	1308	2925	1627	1018	2543	<b>5571</b>	<b>8114</b>
RM4L	<b>1607</b>	<b>1563</b>	2373	1501	<b>1158</b>	<b>3170</b>	5058	<b>8101</b>
Ranahan	1240	<b>1465</b>	2296	<b>1835</b>	<b>1263</b>	2705	<b>5394</b>	<b>8099</b>
Bendix	1076	<b>1388</b>	2817	<b>1695</b>	1108	2464	<b>5620</b>	<b>8084</b>
Jackson	<b>1438</b>	<b>1342</b>	2672	1591	1026	2445	<b>5289</b>	<b>8070</b>
Andes	<b>1730</b>	<b>1643</b>	1941	1569	1089	<b>3373</b>	4599	<b>7971</b>
Triangle T	<b>1540</b>	<b>1397</b>	2403	1583	1025	<b>2938</b>	5011	<b>7948</b>
Prine	<b>1538</b>	<b>1450</b>	2270	1510	1087	<b>2988</b>	4866	<b>7854</b>
Wax Marshall	1234	<b>1448</b>	2310	<b>1766</b>	1080	2682	<b>5156</b>	<b>7838</b>
TAMTBO	<b>1647</b>	1094	2285	1610	<b>1200</b>	2741	5095	<b>7836</b>
Nelson	<b>1587</b>	<b>1396</b>	2351	1486	1010	<b>2983</b>	4847	<b>7830</b>
Attain	1264	1321	2142	1468	<b>1602</b>	2585	<b>5212</b>	<b>7797</b>
Centurion	<b>1474</b>	<b>1503</b>	2312	<b>1725</b>	749	<b>2977</b>	4786	<b>7763</b>
Green Farm 2	<b>1532</b>	<b>1557</b>	2349	1487	796	<b>3090</b>	4632	<b>7721</b>
Bashaw Tetraploid	944	1189	2428	<b>1715</b>	<b>1419</b>	2133	<b>5561</b>	<b>7694</b>
ME-94	1166	1262	2485	<b>1730</b>	1042	2428	<b>5257</b>	<b>7685</b>
Baqueano	1244	<b>1495</b>	2306	<b>1682</b>	901	2739	4889	<b>7627</b>
Flying A	<b>1471</b>	<b>1382</b>	2372	1582	803	<b>2853</b>	4757	<b>7610</b>
GreenAcres	<b>1735</b>	<b>1528</b>	1988	1351	1003	<b>2881</b>	4342	<b>7606</b>
Big Boss	<b>1626</b>	<b>1376</b>	2065	1535	944	<b>3002</b>	4544	<b>7546</b>
Earlyployd	<b>1747</b>	<b>1618</b>	2257	1316	605	<b>3365</b>	4178	<b>7543</b>
TetraStar	<b>1334</b>	1042	2263	1604	<b>1237</b>	2376	5104	<b>7480</b>
WMWL-2	1193	<b>1375</b>	2359	<b>1679</b>	825	2567	4863	<b>7430</b>
Diamond T	<b>1546</b>	<b>1559</b>	2054	1516	752	<b>3105</b>	4322	<b>7427</b>
SELWTDWL1	1289	1252	2285	1520	1078	2540	4882	<b>7423</b>
Claro	<b>1571</b>	<b>1575</b>	2128	1613	453	<b>3146</b>	4194	<b>7340</b>
Lonestar	1222	<b>1543</b>	2486	1515	412	<b>2765</b>	4413	<b>7178</b>
SELWDTSEM1	<b>1408</b>	<b>1531</b>	2197	1475	553	<b>2940</b>	4225	<b>7165</b>
Bashaw Diploid	<b>1526</b>	<b>1431</b>	2180	1311	712	<b>2957</b>	4203	<b>7161</b>
Double Diamond	1255	1294	2539	1584	432	2549	4555	<b>7103</b>
Winterhawk	1024	1077	2377	1647	939	2101	4964	<b>7065</b>
Fria	833	1330	2554	1555	761	2163	4871	<b>7034</b>
Gulf	1235	1212	2493	1592	483	2447	4568	<b>7015</b>
Dexter	830	965	2434	1641	968	1795	5043	<b>6838</b>
GO-MOT	844	1175	2490	1378	936	2019	4804	<b>6823</b>

Variety	1st Harvest 1/12/2022	2nd Harvest 3/2/2022	3 <sup>rd</sup> Harvest 3/28/2022	4 <sup>th</sup> Harvest 4/21/2022	5 <sup>th</sup> Harvest 5/24/2022	Early Season	Late Season	Season Total
Koga	576	899	2555	<b>1826</b>	868	1475	<b>5249</b>	6724
Green Dragon	1299	<b>1422</b>	1960	1287	732	2721	3979	6700
Rapido	878	1152	2424	<b>1710</b>	467	2029	4600	6629
Halsey	752	847	2030	<b>1682</b>	1045	1599	4757	6356
Average	1332	1381	2345	1583	924	2696	4852	7562
LSD at 10% level	596	394	N.S.	250	426	880	700	1031
CV	40	26	17	15	44	30	14	12
Model R-Square	0.33	0.37	0.31	0.37	0.42	0.37	0.39	0.34

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

N.S. –differences are statistically non-significant.

**YIELD**  
**WIREGRASS RESEARCH AND EXTENSION CENTER**  
**HEADLAND, AL**

**TABLE 6 - DRY MATTER YIELD BY HARVEST TIMING (LB/ACRE)**

Variety	1 <sup>st</sup> Harvest 1/24/2022	2 <sup>nd</sup> Harvest 3/25/2022	3 <sup>rd</sup> Harvest 4/13/2022	Early Season	Late Season	Season Total
Bashaw Diploid	<b>972</b>	<b>4072</b>	1814	<b>5044</b>	1814	<b>6857</b>
Attain	776	<b>3547</b>	<b>2437</b>	<b>4323</b>	<b>2437</b>	<b>6760</b>
Earlyployd	654	<b>4293</b>	1763	<b>4947</b>	1763	<b>6710</b>
Prine	761	3380	<b>2070</b>	<b>4141</b>	<b>2070</b>	<b>6211</b>
Tetrastrar	<b>1013</b>	<b>3546</b>	1504	<b>4559</b>	1504	<b>6063</b>
Jackson	<b>912</b>	3159	<b>1989</b>	<b>4072</b>	<b>1989</b>	<b>6061</b>
Diamond T	<b>1043</b>	2928	<b>1981</b>	3970	<b>1981</b>	<b>5951</b>
Gulf	452	<b>3588</b>	1785	4041	1785	<b>5826</b>
GreenAcres	539	3364	<b>1888</b>	3903	<b>1888</b>	<b>5792</b>
Mantis	442	3227	<b>2097</b>	3669	<b>2097</b>	<b>5766</b>
Big Boss	736	3125	1879	3861	1879	<b>5740</b>
Nelson	593	3096	<b>2041</b>	3689	<b>2041</b>	<b>5730</b>
Baqueano	447	3282	<b>1971</b>	3729	<b>1971</b>	<b>5700</b>
Bashaw Tetraploid	609	3188	1853	3797	1853	<b>5651</b>
Green Farm 2	283	<b>3507</b>	1856	3790	1856	<b>5646</b>
Green Dragon	<b>1209</b>	3012	1369	<b>4221</b>	1369	5590
Flying A	673	3267	1605	3941	1605	5546
Winterhawk	583	3084	1875	3667	1875	5542
TAMTBO	<b>938</b>	2641	1849	3579	1849	5428
Ranahan	414	2886	<b>2109</b>	3301	<b>2109</b>	5410
ME4	549	2402	<b>2443</b>	2951	<b>2443</b>	5394
SELWTDWL1	518	2770	<b>2105</b>	3288	<b>2105</b>	5393
Claro	<b>883</b>	2612	<b>1894</b>	3496	<b>1894</b>	5390
Fria	<b>868</b>	3225	1274	<b>4093</b>	1274	<b>5368</b>
Rapido	458	<b>3518</b>	1160	3976	1160	5137
GO-MOT	813	2007	<b>2313</b>	2820	<b>2313</b>	5133
Triangle T	788	2599	1726	3387	1726	5113
Double Diamond	612	2819	1480	3430	1480	4911
RM4L	527	2480	1804	3008	1804	4812
K014-WEAR	195	2640	<b>1961</b>	2835	<b>1961</b>	4797
WMWL	574	2164	<b>2007</b>	2738	<b>2007</b>	4745
Lonestar	544	2402	1790	2946	1790	4735
Bendix	723	1808	<b>2141</b>	2531	<b>2141</b>	4672
SELWDTSEM1	287	3123	1236	3410	1236	4646
Sherrif	325	3044	969	3369	969	4338
Dexter	507	2062	1750	2569	1750	4319
WMWL-2	681	1605	<b>2027</b>	2286	<b>2027</b>	4313

Variety	1 <sup>st</sup> Harvest 1/24/2022	2 <sup>nd</sup> Harvest 3/25/2022	3 <sup>rd</sup> Harvest 4/13/2022	Early Season	Late Season	Season Total
Koga	350	1406	<b>2540</b>	1756	<b>2540</b>	4296
ME-94	392	2312	1514	2704	1514	4217
Wax Marshall	80	2108	<b>1955</b>	2188	<b>1955</b>	4144
FrostProof	296	2337	1447	2633	1447	4080
Andes	358	2278	1404	2636	1404	4040
Centurion	266	2484	1026	2750	1026	3776
Halsey	408	1539	1744	1947	1744	3691
Average	592	2817	1806	3409	1806	5215
LSD at 10% level	363	860	656	991	656	1256
CV	57	30	29	29	29	21
Model R-Square	0.59	0.64	0.46	0.64	0.46	0.55

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

N.S. –differences are statistically non-significant.

**CRUDE PROTEIN**  
**WIREGRASS RESEARCH AND EXTENSION CENTER**  
**HEADLAND, AL**

Crude protein (CP) is the total nitrogen multiplied by a 6.25 correction factor.

Quality samples were taken and analyzed for all three harvests. The results from the first harvest were out of range and therefore not being reported.

**TABLE 7 – CRUDE PROTEIN BY HARVEST TIMING**

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
K014-WEAR		13.6	19.5	<b>13.6</b>	19.5	<b>14.9</b>
Koga		15.0	18.1	<b>15.0</b>	18.1	<b>14.8</b>
Rapido		10.6	20.1	10.6	20.1	<b>14.7</b>
TetraStar		13.5	18.6	13.5	18.6	<b>14.6</b>
Dexter		14.4	17.8	<b>14.4</b>	17.8	<b>14.5</b>
Bashaw Tetraploid		13.5	18.2	13.5	18.2	<b>14.4</b>
Jackson		13.4	19.7	13.4	19.7	<b>14.4</b>
Baqueano		13.3	17.9	13.3	17.9	<b>14.4</b>
SELWTDWL1		13.6	18.2	<b>13.6</b>	18.2	<b>14.3</b>
FrostProof		13.7	18.9	<b>13.7</b>	18.9	<b>14.3</b>
Winterhawk		12.5	19.7	12.5	19.7	<b>14.3</b>
Mantis		12.4	19.6	12.4	19.6	<b>14.2</b>
Big Boss		12.7	18.0	12.7	18.0	<b>14.1</b>
Claro		13.8	18.7	<b>13.8</b>	18.7	<b>14.1</b>
Green Farm 2		13.1	17.0	13.1	17.0	<b>14.1</b>
Ranahan		13.8	18.3	<b>13.8</b>	18.3	<b>14.0</b>
Lonestar		12.2	19.7	12.2	19.7	<b>13.9</b>
Fria		12.4	19.4	12.4	19.4	<b>13.8</b>
TAMTBO		13.2	18.0	13.2	18.0	<b>13.8</b>
Bashaw Diploid		11.0	20.1	11.0	20.1	<b>13.7</b>
Bendix		13.4	17.5	13.4	17.5	<b>13.6</b>
GreenAcres		11.4	19.4	11.4	19.4	<b>13.5</b>
Gulf		12.9	16.9	12.9	16.9	<b>13.5</b>
Prine		13.7	17.7	<b>13.7</b>	17.7	<b>13.4</b>
Halsey		13.7	16.1	<b>13.7</b>	16.1	<b>13.4</b>
SELWDTSEM1		12.4	17.3	12.4	17.3	<b>13.3</b>
Nelson		12.4	17.3	12.4	17.3	<b>13.2</b>
Flying A		11.7	18.3	11.7	18.3	<b>13.2</b>
Diamond T		12.6	17.8	12.6	17.8	<b>13.2</b>
Earlyployd		10.9	19.0	10.9	19.0	<b>13.1</b>
Andes		13.3	16.0	13.3	16.0	<b>13.1</b>
GO-MOT		12.1	17.9	12.1	17.9	<b>13.1</b>
Double Diamond		13.1	16.5	13.1	16.5	<b>13.1</b>
Sherrif		13.5	14.8	13.5	14.8	<b>13.1</b>
ME-94		12.9	15.8	12.9	15.8	<b>13.0</b>
Attain		10.9	17.5	10.9	17.5	<b>12.9</b>
WMWL		12.7	17.4	12.7	17.4	<b>12.9</b>

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
RM4L		11.3	16.9	11.3	16.9	12.8
Triangle T		12.3	16.8	12.3	16.8	12.7
Wax Marshall		13.6	16.4	<b>13.6</b>	16.4	12.7
ME4		12.8	16.9	12.8	16.9	12.6
Centurion		13.7	15.0	<b>13.7</b>	15.0	12.4
WMWL-2		12.5	<b>17.1</b>	12.5	17.1	12.2
Green Dragon		10.2	16.4	10.2	16.4	11.6
Average		12.8	17.8	12.8	17.8	13.6
LSD at 10% level				1.4	N.S.	1.3
CV		12	13	12	13	9
Model R-Square				0.72	0.48	0.64

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

**N.S.** –differences are statistically non-significant.

**NUETRAL DETERGENT FIBER**  
**WIREGRASS RESEARCH AND EXTENSION CENTER**  
**HEADLAND, AL**

Neutral detergent fiber (NDF) is the total cell wall of the plant. As NDF increases, dry matter intake decreases.

Quality samples were taken and analyzed for all three harvests. The results from the first harvest were out of range and therefore not being reported.

**TABLE 8 – NEUTRAL DETERGENT FIBER BY HARVEST TIMING**

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
Rapido		57.6	51.5	<b>57.6</b>	51.5	<b>49.7</b>
Bashaw Tetraploid		55.2	51.8	<b>55.2</b>	51.8	<b>48.5</b>
Claro		52.7	52.3	52.7	52.3	<b>48.5</b>
SELWTDWL1		52.4	50.9	52.4	50.9	<b>48.0</b>
Dexter		49.8	52.5	49.8	52.5	<b>47.9</b>
TetraStar		53.2	51.7	53.2	51.7	<b>47.4</b>
Lonestar		52.8	50.9	52.8	50.9	47.2
Gulf		52.2	51.8	52.2	51.8	47.1
Green Dragon		53.7	52.1	53.7	52.1	47.1
Baqueano		52.4	53.0	52.4	53.0	47.1
Double Diamond		54.2	50.1	54.2	50.1	47.1
Mantis		52.9	52.1	52.9	52.1	47.0
TAMTBO		51.4	51.9	51.4	51.9	47.0
Big Boss		52.2	52.2	52.2	52.2	46.7
GO-MOT		47.7	54.3	47.7	54.3	46.6
Diamond T		52.2	53.4	52.2	53.4	46.6
Nelson		50.5	52.3	50.5	52.3	46.5
Bashaw Diploid		52.4	51.0	52.4	51.0	46.3
Koga		47.7	52.5	47.7	52.5	46.2
Sherrif		55.1	49.8	<b>55.1</b>	49.8	46.2
Bendix		48.8	52.0	48.8	52.0	46.0
Flying A		51.6	52.2	51.6	52.2	46.0
Winterhawk		51.3	52.3	51.3	52.3	45.7
SELWDTSEM1		52.4	49.7	52.4	49.7	45.7
Fria		52.8	50.1	52.8	50.1	45.6
Attain		48.1	51.5	48.1	51.5	<b>45.6</b>
Ranahan		50.7	52.4	50.7	52.4	45.5
Green Farm 2		53.0	50.2	53.0	50.2	45.3
FrostProof		50.3	51.5	50.3	51.5	45.2
Earlyployd		52.5	50.8	52.5	50.8	45.1
K014-WEAR		49.8	49.8	49.8	49.8	45.0
Andes		48.7	50.3	48.7	50.3	45.0
Halsey		46.4	51.8	46.4	51.8	44.8
Triangle T		49.6	51.4	49.6	51.4	44.7
GreenAcres		49.6	50.9	49.6	50.9	44.4
RM4L		46.3	50.8	46.3	50.8	44.0
Jackson		48.4	50.5	48.4	50.5	43.1

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
WMWL		46.2	51.8	46.2	51.8	42.7
Centurion		51.6	48.6	51.6	48.6	42.7
Wax Marshall		47.6	55.9	47.6	55.9	42.3
WMWL-2		46.4	51.0	46.4	51.0	42.1
Prine		52.8	39.9	52.8	39.9	42.0
ME-94		47.6	46.6	47.6	46.6	41.9
ME4		45.5	49.1	45.5	49.1	41.6
Average		50.8	51.1	50.8	51.1	45.6
LSD at 10% level				2.9	N.S.	2.5
CV		7	8	7	8	6
Model R-Square				0.74	0.40	0.68

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

**N.S.** –differences are statistically non-significant.

**ACID DETERGENT FIBER**  
**WIREGRASS RESEARCH AND EXTENSION CENTER**  
**HEADLAND, AL**

Acid detergent fiber (ADF) is an estimation of the indigestible forage. The larger the value, the less digestible.

Quality samples were taken and analyzed for all three harvests. The results from the first harvest were out of range and therefore not being reported.

**TABLE 9 – ACID DETERGENT FIBER BY HARVEST TIMING**

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
Wax Marshall		25.5	26.0	<b>25.5</b>	<b>26.0</b>	<b>22.1</b>
ME4		24.2	26.8	<b>24.2</b>	26.8	<b>23.0</b>
ME-94		26.4	25.2	26.4	<b>25.2</b>	23.7
K014-WEAR		26.2	25.6	26.2	<b>25.6</b>	23.9
Centurion		27.4	26.4	27.4	<b>26.4</b>	24.0
Jackson		26.3	26.7	26.3	<b>26.7</b>	24.1
WMWL-2		25.2	26.9	<b>25.2</b>	26.9	24.1
WMWL		25.8	27.8	<b>25.8</b>	27.8	24.4
RM4L		25.8	27.7	<b>25.8</b>	27.7	24.8
Koga		25.2	27.7	<b>25.2</b>	27.7	24.9
Green Farm 2		28.7	27.4	28.7	27.4	25.0
Winterhawk		27.9	27.6	27.9	27.6	25.0
Halsey		25.8	28.1	<b>25.8</b>	28.1	25.1
Ranahan		27.6	27.7	27.6	27.7	25.2
Fria		28.8	26.4	28.8	<b>26.4</b>	25.2
FrostProof		27.7	27.1	27.7	27.1	25.3
SELWDTSEM1		28.8	27.0	28.8	27.0	25.5
Lonestar		28.4	26.7	28.4	<b>26.7</b>	<b>25.5</b>
Bendix		26.7	27.3	26.7	27.3	25.6
GreenAcres		28.3	27.2	28.3	27.2	25.6
Sherrif		29.6	27.4	29.6	27.4	25.7
Triangle T		27.7	28.8	27.7	28.8	25.7
Bashaw Diploid		29.3	27.3	29.3	27.3	25.7
Flying A		28.7	28.2	28.7	28.2	25.7
Prine		29.3	27.1	29.3	27.1	25.8
Earlyployd		29.6	27.8	29.6	27.8	25.9
GO-MOT		26.2	28.8	26.2	28.8	26.0
Andes		27.9	28.7	27.9	28.7	26.1
Attain		27.2	28.3	27.2	28.3	26.1
Big Boss		29.1	28.4	29.1	28.4	26.2
Double Diamond		29.8	27.5	29.8	27.5	26.4
Diamond T		28.9	28.8	28.9	28.8	26.4
Mantis		29.7	28.1	29.7	28.1	26.4
Dexter		28.2	27.3	28.2	27.3	26.5
TAMTBO		28.8	27.9	28.8	27.9	26.5
TetraStar		29.8	28.0	29.8	28.0	26.5
SELWTDWL1		28.7	27.0	28.7	27.0	26.6

Variety	1 <sup>ST</sup> Harvest	2 <sup>nd</sup> Harvest	3 <sup>rd</sup> Harvest	Early Season	Late Season	Season Average
Nelson		28.3	28.6	28.3	28.6	26.6
Claro		29.1	28.0	29.1	28.0	26.6
Gulf		29.2	28.4	29.2	28.4	26.7
Baqueano		29.4	29.3	29.4	29.3	26.8
Bashaw Tetraploid		30.9	28.1	30.9	28.1	27.0
Green Dragon		31.1	29.0	31.1	29.0	27.9
Rapido		32.5	27.9	32.5	27.9	28.0
Average		28.1	27.6	28.1	27.6	25.6
LSD at 10% level				1.7	1.5	1.1
CV		8	7	8	7	6
Model R-Square				0.79	0.75	0.84

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

**N.S.** –differences are statistically non-significant.

**TOTAL DIGESTABLE NUTRIENTS**  
**WIREGRASS RESEARCH AND EXTENSION CENTER**  
**HEADLAND, AL**

Total digestible nutrients (TDN) is used to express energy value of forages. The greater the value, the more energy dense the forage.

Quality samples were taken and analyzed for all three harvests. The results from the first harvest were out of range and therefore not being reported.

**TABLE 10 – TOTAL DIGESTABLE NUTRIENTS BY HARVEST TIMING**

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
Wax Marshall		71.90	71.35	<b>71.90</b>	<b>71.35</b>	<b>75.45</b>
ME4		73.25	70.51	<b>73.25</b>	70.51	<b>74.53</b>
ME-94		70.97	72.20	70.97	<b>72.20</b>	73.77
K014-WEAR		71.20	71.76	71.20	<b>71.76</b>	73.63
Centurion		69.87	71.00	69.87	<b>71.00</b>	73.47
Jackson		71.07	70.65	71.07	<b>70.65</b>	73.40
WMWL-2		72.19	70.39	<b>72.19</b>	70.39	73.35
WMWL		71.60	69.49	<b>71.60</b>	69.49	73.01
RM4L		71.61	69.57	<b>71.61</b>	69.57	72.63
Koga		72.25	69.58	<b>72.25</b>	69.58	72.58
Green Farm 2		68.57	69.93	68.57	69.93	72.43
Winterhawk		69.42	69.66	69.42	69.66	72.39
Halsey		71.55	69.19	<b>71.55</b>	69.19	72.35
Ranahan		69.68	69.62	69.68	69.62	72.26
Fria		68.49	70.94	68.49	<b>70.94</b>	72.19
FrostProof		69.61	70.19	69.61	70.19	72.14
SELWDTSEM1		68.41	70.31	68.41	70.31	71.95
Lonestar		68.85	70.59	68.85	70.59	71.85
Bendix		70.62	69.96	70.62	69.96	71.84
GreenAcres		68.94	70.09	68.94	70.09	<b>71.84</b>
Sherrif		67.64	69.95	67.64	69.95	71.70
Triangle T		69.59	68.43	69.59	68.43	71.70
Flying A		68.51	69.12	68.51	69.12	71.68
Bashaw Diploid		67.95	70.06	67.95	70.06	71.68
Prine		67.92	70.24	67.92	70.24	71.60
Earlyployd		67.55	69.46	67.55	69.46	71.52
GO-MOT		71.18	68.41	<b>71.18</b>	68.41	71.36
Andes		69.43	68.56	69.43	68.56	71.32
Attain		70.16	68.93	70.16	68.93	71.25
Big Boss		68.18	68.86	68.18	68.86	71.12
Double Diamond		67.41	69.77	67.41	69.77	70.99
Diamond T		68.30	68.45	68.30	68.45	70.95
Mantis		67.49	69.18	67.49	69.18	70.92
Dexter		69.07	70.06	69.07	70.06	70.90
TAMTBO		68.45	69.43	68.45	69.43	70.84
TetraStar		67.42	69.29	67.42	69.29	70.81
SELWTDWL1		68.59	70.34	68.59	70.34	70.76

Variety	1 <sup>ST</sup> Harvest	2 <sup>nd</sup> Harvest	3 <sup>rd</sup> Harvest	Early Season	Late Season	Season Average
Nelson		68.98	68.68	68.98	68.68	70.76
Claro		68.08	69.23	68.08	69.23	70.71
Gulf		68.07	68.91	68.07	68.91	70.61
Baqueano		67.86	67.90	67.86	67.90	70.50
Bashaw Tetraploid		66.27	69.17	66.27	69.17	70.28
Green Dragon		66.04	68.19	66.04	68.19	69.42
Rapido		64.59	69.34	64.59	69.34	69.23
Average		69.20	69.70	69.20	69.70	71.81
LSD at 10% level				1.78	1.60	1.12
CV		3	3	3	3	2
Model R-Square				0.79	0.75	0.84

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

**N.S.** –differences are statistically non-significant.

**RELATIVE FORAGE QUALITY**  
**WIREGRASS RESEARCH AND EXTENSION CENTER**  
**HEADLAND, AL**

Relative forage quality (RFQ) is a single-number index that can be used to compare the overall quality of one or more forage samples. It is calculated based on CP, NDF, and ADF. It ranges from 0-300, with 150 considered a late-bloom alfalfa.

**TABLE 11 – RELATIVE FORAGE QUALITY BY HARVEST TIMING**

Variety	1 <sup>ST</sup> Harvest	2 <sup>ND</sup> Harvest	3 <sup>RD</sup> Harvest	Early Season	Late Season	Season Average
Wax Marshall		204	197	<b>204</b>	<b>197</b>	<b>213</b>
ME-94		197	202	197	<b>202</b>	<b>213</b>
ME4		213	186	<b>213</b>	186	<b>212</b>
K014-WEAR		197	185	197	185	<b>206</b>
Jackson		197	177	197	177	<b>205</b>
Green Farm 2		177	185	177	185	<b>204</b>
WMWL		201	179	<b>201</b>	179	203
Koga		207	175	<b>207</b>	175	203
Halsey		201	183	<b>201</b>	183	202
Centurion		185	194	185	<b>194</b>	200
RM4L		195	182	195	182	199
WMWL-2		205	186	<b>205</b>	186	198
Ranahan		189	178	189	178	196
Winterhawk		186	170	186	170	196
SELWDTSEM1		179	184	179	184	196
Bendix		193	184	193	184	<b>195</b>
FrostProof		188	176	188	176	193
Sherrif		177	187	177	187	193
Big Boss		177	175	177	175	193
Fria		177	170	177	170	193
TetraStar		175	174	175	174	193
GreenAcres		180	175	180	175	193
Double Diamond		175	186	175	186	192
Prine		176	182	176	182	192
Earlyployd		171	173	171	173	191
Baqueano		178	170	178	170	191
GO-MOT		194	173	194	173	191
Diamond T		178	174	178	174	190
Andes		186	172	186	172	190
Gulf		174	179	175	179	190
Dexter		176	183	176	183	190
SELWTDWL1		181	183	181	183	190
Attain		185	175	185	175	190
Lonestar		181	176	181	176	189
Bashaw Diploid		170	168	170	168	188
Bashaw Tetraploid		165	176	165	176	188
Nelson		182	176	182	176	188
Claro		179	171	179	171	188
TAMTBO		178	179	178	179	188

Variety	1 <sup>ST</sup> Harvest	2 <sup>nd</sup> Harvest	3 <sup>rd</sup> Harvest	Early Season	Late Season	Season Average
Triangle T		185	171	185	171	187
Flying A		178	167	178	167	186
Mantis		170	169	170	169	185
Rapido		152	166	152	166	178
Green Dragon		159	178	159	178	177
Average		183	178	183	178	194
LSD at 10% level				12	14	9
CV		9	8	9	8	6
Model R-Square				0.79	0.68	0.76

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

N.S. –differences are statistically non-significant.

**GULF COAST RESEARCH AND EXTENSION CENTER**  
**FAIRHOPE, AL**

**TABLE 12 - DRY MATTER YIELD BY HARVEST TIMING (LB/ACRE)**

Variety	1 <sup>st</sup> Harvest 12/16/2021	2 <sup>nd</sup> Harvest 1/7/2022	3 <sup>rd</sup> Harvest 2/10/2022	4 <sup>th</sup> Harvest 3/7/2022	5 <sup>th</sup> Harvest 3/25/2022	6 <sup>th</sup> Harvest 4/19/2022	Early Season	Late Season	Season Total
Variety	Yield1	Yield2	Yield3	Yield4	Yield5	Yield6	Early	Late	Season
ME4	1263	<b>832</b>	<b>1119</b>	1663	1596	<b>2078</b>	<b>4876</b>	<b>5337</b>	<b>8550</b>
ME-94	1189	<b>829</b>	783	1653	<b>1662</b>	<b>2013</b>	<b>4453</b>	<b>5328</b>	<b>8128</b>
Flying A	1173	<b>831</b>	<b>1064</b>	1516	<b>1711</b>	1788	<b>4585</b>	5015	<b>8084</b>
GO-MOT	1194	<b>902</b>	<b>1137</b>	1485	<b>1690</b>	1647	<b>4718</b>	4822	<b>8055</b>
Andes	1109	745	<b>1106</b>	1585	1607	1888	<b>4545</b>	<b>5079</b>	<b>8039</b>
Fria	995	<b>879</b>	<b>1119</b>	1568	1539	<b>1921</b>	<b>4561</b>	5027	<b>8021</b>
Lonestar	959	<b>873</b>	<b>1188</b>	1608	1559	1811	<b>4628</b>	4978	<b>7998</b>
Mantis	1290	751	<b>1065</b>	1532	1557	1771	<b>4639</b>	4861	7967
Prine	1039	754	<b>1137</b>	1629	1476	<b>1927</b>	<b>4559</b>	5032	7962
Centurion	999	<b>826</b>	<b>1113</b>	1543	<b>1655</b>	1809	<b>4482</b>	5007	7946
Winterhawk	816	<b>856</b>	<b>1084</b>	<b>1690</b>	<b>1747</b>	1730	<b>4447</b>	<b>5167</b>	7923
TAMTBO	1258	<b>815</b>	1015	1567	1544	1716	<b>4654</b>	4827	7914
Triangle T	1052	<b>837</b>	<b>1151</b>	1545	1514	1790	<b>4585</b>	4849	7889
Gulf	1085	<b>865</b>	<b>1076</b>	1415	<b>1627</b>	1752	<b>4441</b>	4794	7819
Earlyployd	877	<b>776</b>	<b>1079</b>	<b>1841</b>	1291	<b>1951</b>	<b>4574</b>	<b>5083</b>	7816
Bashaw Diploid	935	<b>844</b>	<b>1157</b>	1591	1584	1697	<b>4527</b>	4873	7808
Jackson	886	<b>830</b>	960	1561	<b>1683</b>	1878	4237	<b>5122</b>	7798
WMWL	962	741	861	1546	<b>1743</b>	<b>1919</b>	4110	<b>5208</b>	7772
FrostProof	931	761	<b>1041</b>	1662	<b>1679</b>	1692	4395	5033	7766
WMWL-2	1042	<b>781</b>	964	1470	<b>1653</b>	1842	4258	4965	7753
Green Farm 2	1153	742	772	1633	<b>1659</b>	1754	4300	<b>5045</b>	7713
Attain	974	<b>802</b>	974	1656	1515	1710	4406	4881	<b>7631</b>
Diamond T	844	688	<b>1073</b>	1644	<b>1642</b>	1691	4249	4976	7582
GreenAcres	1048	659	<b>1120</b>	1638	1337	1762	<b>4465</b>	4737	7564
Halsey	1053	<b>793</b>	1020	1528	1577	1591	4394	4696	7563
Nelson	1029	740	988	1574	1509	1671	4331	4754	7511
RM4L	929	<b>893</b>	998	1499	1450	1736	4319	4685	7505
TetraStar	820	693	<b>1089</b>	1603	1566	1702	4206	4872	7474
Claro	1096	725	<b>1049</b>	1455	1469	1672	4326	4596	7466
Big Boss	921	762	<b>1062</b>	1479	1436	1788	4224	4702	7447
Ranahan	900	703	914	1561	1560	1806	4078	4927	7444
Sherrif	811	744	929	1462	1592	1901	3946	4955	7439
Wax Marshall	721	759	842	1599	<b>1642</b>	1869	3921	<b>5109</b>	7431
Baqueano	985	<b>784</b>	924	1557	1536	1639	4250	4733	7425
SELWTDWL1	873	691	959	1588	1601	1709	4111	4898	7421
Bashaw Tetraploid	875	<b>826</b>	950	1380	<b>1632</b>	1754	4030	4765	7416
Rapido	1033	<b>885</b>	934	1660	1213	1666	<b>4512</b>	4538	7391

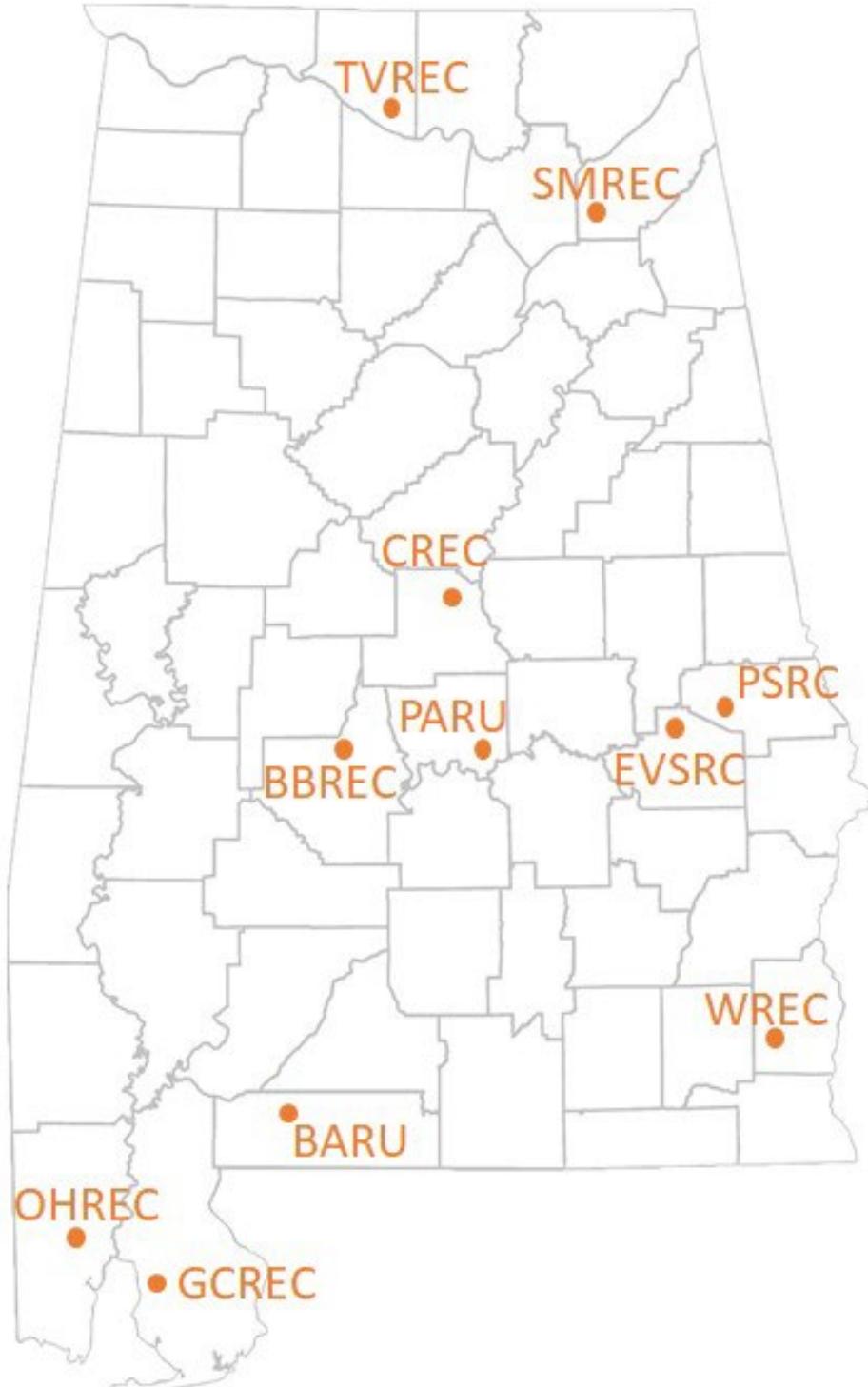
Variety	1 <sup>st</sup> Harvest <b>12/16/2021</b>	2 <sup>nd</sup> Harvest <b>1/7/2022</b>	3 <sup>rd</sup> Harvest <b>2/10/2022</b>	4 <sup>th</sup> Harvest <b>3/7/2022</b>	5 <sup>th</sup> Harvest <b>3/25/2022</b>	6 <sup>th</sup> Harvest <b>4/19/2022</b>	Early Season	Late Season	Season Total
K014-WEAR	1012	733	861	1416	1571	1610	4021	4597	7202
Green Dragon	908	752	976	1582	1285	1661	4219	4529	7165
Double Diamond	712	694	994	1586	1448	1688	3986	4722	7122
SELWDTSEM1	854	<b>777</b>	926	1450	1497	1608	4007	4555	7111
Bendix	1121	635	<b>1039</b>	1313	1492	1491	4108	4296	7091
Koga	749	762	939	1288	<b>1781</b>	1565	3738	4633	7084
Dexter	864	574	825	1278	1538	1493	3541	4310	6572
Average	985	776	1009	1548	1561	1754	4317	4862	7631
LSD at 10% level	N.S.	137	167	163	158	163	470	298	575
CV	36	19	20	12	11	11	14	7	10

**Bolded yields** are NOT statistically different from the highest yielding entry.

[Table of Contents](#)

**Bolded line** in table indicates test average.

N.S. –differences are statistically non-significant.



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## CONTACT

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