

**The Georgia Agricultural Experiment Stations  
Department of Crop and Soil Sciences**

College of Agricultural and Environmental Sciences  
University of Georgia Griffin Campus

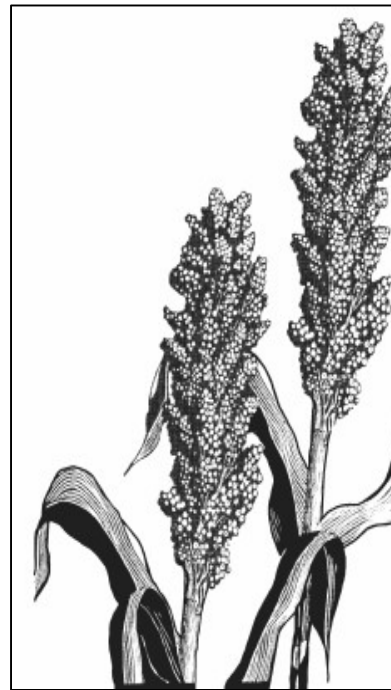
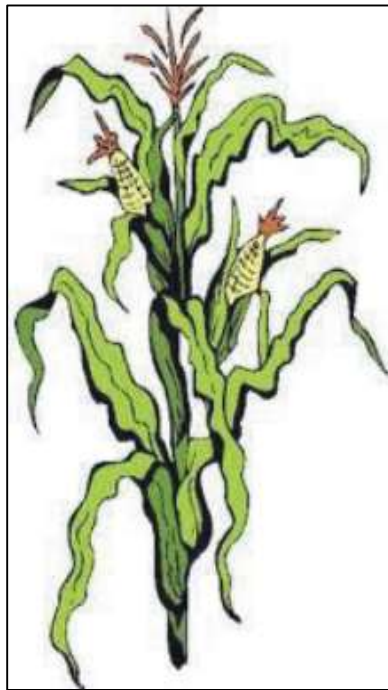
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# **Georgia**

## **2024 Corn, Sorghum, and Summer Annual Forages**

### **Performance Tests**

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# Georgia

## 2024 Corn, Sorghum, and Summer Annual Forages Performance Tests

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## Statewide Yield Summary: Corn Grain Performance, Georgia, 2024

Company or Brand Name	Hybrid Name	RM	Bt	Blairsville	Midville	Griffin	Plains	Tifton	Rome	Rome	Tifton	Statewide
				Dryland	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	Dryland	Dryland	Average
----- bu/acre -----												
Revere Seed	1839 TC	118	Yes	<b>348</b>	<b>325</b>	257	260	<b>277</b>	130	56	<b>41</b>	<b>214</b>
Dyna-Gro	D60TC45	120	Yes	316	<b>311</b>	<b>297</b>	266	<b>266</b>	110	41	<b>41</b>	<b>203</b>
Revere Seed	1627 TC	116	Yes	302	285	<b>294</b>	235	235	<b>150</b>	55	<b>45</b>	<b>202</b>
SEEDWAY	SW 1880TR	119	Yes	302	<b>303</b>	<b>292</b>	254	<b>259</b>	114	<b>61</b>	30	<b>201</b>
DEKALB	DKC68-35 VT2P	118	Yes	288	281	<b>284</b>	260	245	106	44	35	<b>199</b>
Dyna-Gro	D58TC94	118	Yes	286	286	<b>285</b>	<b>271</b>	<b>259</b>	126	40	24	<b>198</b>
INTEGRA	6915 TRE	119	Yes	299	<b>303</b>	<b>279</b>	<b>270</b>	<b>262</b>	136	45	28	<b>197</b>
Progeny	PGY 2314 TRE	114	Yes	268	285	<b>271</b>	227	243	129	54	<b>43</b>	<b>197</b>
INTEGRA	6493 VT2P	114	Yes	282	277	256	247	252	<b>157</b>	55	<b>39</b>	196
Innvictis	A1993T	119	Yes	<b>337</b>	<b>310</b>	<b>285</b>	242	241	99	54	37	196
Innvictis	A1792T	117	Yes	280	291	<b>290</b>	<b>271</b>	235	127	<b>65</b>	<b>45</b>	195
BH Genetics	X23048VT2P	115	Yes	234	287	260	235	244	<b>140</b>	<b>63</b>	<b>49</b>	195
Croplan	5893	118	Yes	293	290	<b>276</b>	<b>276</b>	<b>270</b>	88	33	36	194
AgraTech	807TRE	118	Yes	272	272	<b>277</b>	264	249	107	30	<b>41</b>	192
BH Genetics	X24001TRE	117	Yes	307	289	<b>282</b>	252	239	88	37	33	191
Innvictis	A1551VT2P	115	Yes	283	282	267	239	245	96	37	34	190
Innvictis	A1542T	115	Yes	294	287	<b>297</b>	224	<b>257</b>	81	24	33	190
DEKALB	DKC70-45 VT2P	120	Yes	301	295	263	<b>285</b>	<b>258</b>	124	47	38	189
Pioneer	P1511YHR	115	Yes	285	287	<b>279</b>	217	238	57	6	23	189
SEEDWAY	SW 1661SS	116	Yes	283	278	<b>294</b>	242	<b>261</b>	73	52	24	187
Revere Seed	114-P35	114	Yes	279	261	<b>274</b>	254	<b>267</b>	108	21	31	187
DEKALB	DKC66-06 TRE	116	Yes	307	293	<b>288</b>	229	231	110	26	32	186
Progeny	PGY 9114 VT2P	114	Yes	266	277	<b>272</b>	242	227	79	48	20	186
Progeny	PGY 9117 VT2P	117	Yes	272	269	<b>283</b>	218	224	107	36	<b>48</b>	184
Revere Seed	1307 TC	113	Yes	270	288	252	233	226	119	57	<b>39</b>	183
BH Genetics	X24004TRE	116	Yes	275	278	<b>272</b>	235	212	114	50	31	183
DEKALB	DKC68-67 RR2	118	No	279	271	263	<b>268</b>	226	108	53	21	183
INTEGRA	CX441112 PCE	112	Yes	269	251	<b>281</b>	242	184	123	28	18	182
Pioneer	P17677YHR	117	Yes	295	270	267	248	216	87	21	36	182
Dyna-Gro	D56TC44	116	Yes	291	247	260	240	221	104	59	38	180
Progeny	PGY 2118 VT2P	118	Yes	247	271	248	244	212	126	47	30	180
NK Brand	1386-VZ	115	Yes	250	267	262	210	221	118	51	27	179
Progeny	PGY 2215 TRE	115	Yes	256	250	<b>272</b>	234	235	<b>138</b>	44	28	179
Croplan	5760	117	Yes	288	251	<b>276</b>	216	211	136	49	<b>42</b>	178
DEKALB	DKC63-56 RR2	113	No	271	267	238	239	241	84	56	37	177
INTEGRA	6410R	114	No	271	267	<b>277</b>	227	225	100	51	35	176
SEEDWAY	SW 1579VT	115	Yes	265	257	265	226	225	118	50	33	176
AgraTech	704VT2P	115	Yes	266	265	251	<b>277</b>	228	114	<b>73</b>	<b>39</b>	176
INTEGRA	6864R	118	No	260	281	252	227	213	93	57	28	175
INTEGRA	6641 SS	116	Yes	258	267	246	218	227	122	41	24	175
Dyna-Gro	D58VC65	118	Yes	266	258	261	230	202	86	56	27	173
BH Genetics	BH 8939TRE	119	Yes	278	269	259	217	215	79	52	33	168
Croplan	5678	116	Yes	269	279	214	232	227	106	45	30	167
Progeny	PGY 2010 TRE	110	Yes	210	251	249	221	221	103	41	38	165
DEKALB	DKC68-94 RR2	118	No	252	281	225	225	195	83	35	<b>48</b>	164
BH Genetics	BH 8412RR	114	No	224	247	236	197	213	99	53	31	163
SEEDWAY	SW 1600VT	116	Yes	244	238	212	203	176	103	44	<b>40</b>	159
DEKALB	DKC62-05 RR2	112	No	277	235	243	235	205	79	21	35	152

## Statewide Yield Summary: Corn Grain Performance, Georgia, 2024

Company or Brand Name	Hybrid Name			Blairsville	Midville	Griffin	Plains	Tifton	Rome	Rome	Tifton	Statewide
		RM	Bt	Dryland	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	Dryland	Dryland	Average
----- bu/acre -----												
Average				277	276	266	240	232	108	45	34	180
LSD				23	23	27	19	22	20	12	11	17
Model R-square				0.98	0.71	0.87	0.67	0.73	0.65	0.67	0.44	0.82
C.V.				7.7	7.7	9.7	7.3	9.0	17.8	26.2	30.5	25.39

**Bolded** yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.  
Yields are calculated as 56 pounds per bushel at 15.5% moisture.

Tests arranged from highest to lowest yielding locations.

## Tifton, Georgia: Corn Grain Performance, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative		Grain		Test Weight	Ears/ 100 plants	Actual	
		Maturity days	Yield bu/acre	Moisture %	lbs/bu			Population plants/acre	Lodging %
Revere Seed	1839 TC	118	<b>277</b>	16.5	58.0	99.8	34,307	1	
Croplan	5893	118	<b>270</b>	16.2	61.3	100.4	33,168	0	
Revere Seed	114-P35	114	<b>267</b>	14.8	58.8	99.5	33,311	1	
Dyna-Gro	D60TC45	120	<b>266</b>	16.8	57.5	99.7	33,738	0	
INTEGRA	6915 TRE	119	<b>262</b>	16.7	58.6	100.2	33,595	0	
SEEDWAY	SW 1661SS	116	<b>261</b>	15.3	60.0	99.7	33,738	0	
Dyna-Gro	D58TC94	118	<b>259</b>	16.3	61.2	98.8	33,453	0	
SEEDWAY	SW 1880TR	119	<b>259</b>	16.9	58.0	98.9	33,311	0	
DEKALB	DKC70-45 VT2P	120	<b>258</b>	16.3	60.5	99.8	33,026	0	
Innvictis	A1542T	115	<b>257</b>	15.2	59.9	98.6	33,595	0	
INTEGRA	6493 VT2P	114	252	15.6	58.9	98.3	33,168	0	
AgraTech	807TRE	118	249	16.2	60.8	98.6	33,311	0	
Innvictis	A1551VT2P	115	245	15.0	57.6	99.6	33,311	0	
DEKALB	DKC68-35 VT2P	118	245	15.5	60.3	98.4	32,884	0	
BH Genetics	X23048VT2P	115	244	15.8	60.3	99.9	33,168	1	
Progeny	PGY 2314 TRE	114	243	15.9	59.3	99.5	33,453	0	
DEKALB	DKC63-56 RR2	113	241	14.3	58.3	99.6	33,453	0	
Innvictis	A1993T	119	241	16.7	58.0	98.9	34,307	0	
BH Genetics	X24001TRE	117	239	16.9	60.6	99.3	33,168	0	
Pioneer	P1511YHR	115	238	15.7	60.1	99.0	32,741	0	
Innvictis	A1792T	117	235	16.1	61.7	100.0	32,599	0	
Revere Seed	1627 TC	116	235	16.3	59.2	99.4	33,311	0	
Progeny	PGY 2215 TRE	115	235	15.8	60.2	98.1	33,311	0	
DEKALB	DKC66-06 TRE	116	231	15.3	58.5	97.0	34,022	0	
AgraTech	704VT2P	115	228	16.3	60.7	97.3	33,311	1	
INTEGRA	6641 SS	116	227	14.8	58.2	99.1	34,022	0	
Croplan	5678	116	227	14.6	59.7	99.8	33,453	1	
Progeny	PGY 9114 VT2P	114	227	14.3	59.2	100.1	32,314	0	
DEKALB	DKC68-67 RR2	118	226	15.9	58.6	98.8	32,314	0	
Revere Seed	1307 TC	113	226	14.5	58.7	100.1	33,168	0	
INTEGRA	6410R	114	225	14.6	59.4	96.8	33,453	0	
SEEDWAY	SW 1579VT	115	225	15.1	58.1	98.5	32,741	0	
Progeny	PGY 9117 VT2P	117	224	15.9	60.7	98.5	32,884	1	
Progeny	PGY 2010 TRE	110	221	14.0	56.9	97.3	32,599	0	
NK Brand	1386-VZ	115	221	14.2	58.8	96.6	34,022	1	
Dyna-Gro	D56TC44	116	221	15.3	59.6	94.8	32,172	0	
Pioneer	P17677YHR	117	216	15.1	60.4	97.7	31,460	0	
BH Genetics	BH 8939TRE	119	215	16.7	60.2	99.1	33,311	0	
INTEGRA	6864R	118	213	16.5	59.0	99.8	34,022	0	
BH Genetics	BH 8412RR	114	213	14.8	59.5	88.4	32,741	0	
Progeny	PGY 2118 VT2P	118	212	16.6	59.7	98.8	32,599	0	
BH Genetics	X24004TRE	116	212	16.1	60.8	99.3	32,456	0	
Croplan	5760	117	211	16.5	58.5	99.7	32,314	1	
DEKALB	DKC62-05 RR2	112	205	14.0	59.1	98.9	32,172	0	
Dyna-Gro	D58VC65	118	202	14.6	59.1	98.1	32,884	2	
DEKALB	DKC68-94 RR2	118	195	17.4	59.3	95.8	32,172	1	
INTEGRA	CX441112 PCE	112	184	15.3	58.1	92.5	31,460	1	
SEEDWAY	SW 1600VT	116	176	14.5	59.3	89.5	31,887	0	

## Tifton, Georgia: Corn Grain Performance, 2024, Irrigated (Continued)

Company or Brand Name	Hybrid Name	Relative Maturity	Yield	Grain Moisture	Test Weight	Ears/ 100 plants	Actual Population	Lodging
		days	bu/acre	%	lbs/bu	no.	plants/acre	%
Average			232	15.6	59.4	98.3	33,070	0
LSD at 10% Level			22	0.5	0.4	1.8	1,005	-
Model R-squared			0.73	0.91	0.92	0.82	0.44	-
C.V.			9.0	2.7	0.7	1.8	2.9	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 1, 2024.

Harvested: August 22, 2024.

Seeding Rate: 34,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

Previous Crop: Peanuts.

Soil Test:  $P_2O_5 = 31$  lbs,  $K_2O = 107$  lbs, and pH = 6.0.

Fertilization: Preplant: 130 lb N, 10 lb S, 220 lb  $P_2O_5$ , and 190 lb  $K_2O$ /acre. Sidedress: 260 lb N and 10 lb S/acre.

Tillage: Conventional.

Herbicides: Round-Up, Atrazine, Warrant, and Zidua.

Test conducted by M. Cofield, W. Mosteller, and D. Dunn.

## Tifton, Georgia: Corn Grain Performance, 2024, Dryland

Company or Brand Name	Hybrid Name	Relative		Grain	Test	Ears/	Actual	
		Maturity days	Yield bu/acre	Moisture %	Weight lbs/bu	100 plants no.	Population plants/acre	Lodging %
BH Genetics	X23048VT2P	115	<b>49</b>	11.9	38.5	41.8	23,207	12
DEKALB	DKC68-94 RR2	118	<b>48</b>	12.1	41.7	64.7	22,228	4
Progeny	PGY 9117 VT2P	117	<b>48</b>	12.6	42.5	51.5	23,315	2
Revere Seed	1627 TC	116	<b>45</b>	12.9	28.6	57.4	23,940	5
Innvictis	A1792T	117	<b>45</b>	14.2	36.1	71.2	22,253	20
Progeny	PGY 2314 TRE	114	<b>43</b>	12.1	32.3	62.6	23,592	13
Croplan	5760	117	<b>42</b>	13.0	37.1	58.4	23,171	7
Revere Seed	1839 TC	118	<b>41</b>	14.6	32.6	82.1	23,569	5
Dyna-Gro	D60TC45	120	<b>41</b>	12.7	34.0	61.4	23,785	23
AgraTech	807TRE	118	<b>41</b>	12.0	24.7	59.7	23,560	8
SEEDWAY	SW 1600VT	116	<b>40</b>	10.1	35.2	65.5	20,580	7
Revere Seed	1307 TC	113	<b>39</b>	10.4	36.4	48.4	23,053	4
INTEGRA	6493 VT2P	114	<b>39</b>	12.4	28.3	61.1	23,157	8
AgraTech	704VT2P	115	<b>39</b>	11.2	29.8	64.5	23,509	16
Progeny	PGY 2010 TRE	110	38	10.1	34.8	56.6	21,944	8
Dyna-Gro	D56TC44	116	38	10.0	26.2	40.3	22,892	8
DEKALB	DKC70-45 VT2P	120	38	13.3	26.6	63.4	21,771	7
DEKALB	DKC63-56 RR2	113	37	10.4	28.9	79.5	22,367	11
Innvictis	A1993T	119	37	12.5	34.2	59.9	22,449	19
Croplan	5893	118	36	13.1	38.4	42.6	22,865	14
Pioneer	P17677YHR	117	36	9.7	28.7	59.1	21,047	3
DEKALB	DKC68-35 VT2P	118	35	13.5	45.4	60.5	22,614	6
INTEGRA	6410R	114	35	10.0	31.0	64.3	24,123	0
DEKALB	DKC62-05 RR2	112	35	12.3	31.6	64.3	22,750	0
Innvictis	A1551VT2P	115	34	11.7	26.6	53.8	22,783	4
BH Genetics	BH 8939TRE	119	33	11.2	25.9	55.0	22,724	9
SEEDWAY	SW 1579VT	115	33	13.3	24.7	71.9	22,448	11
Innvictis	A1542T	115	33	9.2	25.2	47.4	22,048	4
BH Genetics	X24001TRE	117	33	10.3	33.5	41.3	23,273	16
DEKALB	DKC66-06 TRE	116	32	10.9	25.1	50.9	23,570	8
BH Genetics	BH 8412RR	114	31	12.9	23.6	63.8	21,383	3
Revere Seed	114-P35	114	31	7.0	26.5	40.0	23,806	0
BH Genetics	X24004TRE	116	31	12.9	24.9	42.5	22,182	6
Progeny	PGY 2118 VT2P	118	30	10.5	24.1	48.9	22,367	12
Croplan	5678	116	30	9.2	22.6	68.0	22,610	3
SEEDWAY	SW 1880TR	119	30	11.4	30.2	57.9	23,031	23
INTEGRA	6915 TRE	119	28	11.8	31.2	63.2	22,372	17
INTEGRA	6864R	118	28	12.4	19.2	48.2	24,645	11
Progeny	PGY 2215 TRE	115	28	10.0	22.4	43.9	22,844	2
NK Brand	1386-VZ	115	27	7.8	20.4	60.6	23,154	11
Dyna-Gro	D58VC65	118	27	9.5	24.2	47.0	23,461	5
SEEDWAY	SW 1661SS	116	24	7.5	16.5	43.5	22,961	13
INTEGRA	6641 SS	116	24	10.1	14.4	47.0	23,347	11
Dyna-Gro	D58TC94	118	24	11.7	13.4	41.7	22,510	31
Pioneer	P1511YHR	115	23	10.2	20.0	19.4	22,501	24
DEKALB	DKC68-67 RR2	118	21	10.6	9.4	35.0	22,650	15
Progeny	PGY 9114 VT2P	114	20	11.6	17.8	53.0	22,528	4
INTEGRA	CX441112 PCE	112	18	10.2	18.3	49.6	21,186	10

## Tifton, Georgia: Corn Grain Performance, 2024, Dryland (Continued)

Company or Brand Name	Hybrid Name	Relative Maturity	Yield	Grain Moisture	Test Weight	Ears/ 100 plants	Actual Population	Lodging
		days	bu/acre	%	lbs/bu	no.	plants/acre	%
Average			34	11.3	28.0	54.9	22,794	9
LSD at 10% Level			11	NS	10.3	NS	916	-
Model R-squared			0.44	0.40	0.48	0.42	0.51	-
C.V.			30.5	21.5	34.9	28.9	3.8	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 1, 2024.

Harvested: August 28, 2024.

Seeding Rate: 24,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

Previous Crop: Grain sorghum.

Soil Test:  $P_2O_5 = 77$  lbs,  $K_2O = 82$  lbs, and  $pH = 6.5$ .

Fertilization: Preplant: 130 lb N, 10 lb S, 60 lb  $P_2O_5$ , and 130 lb  $K_2O$ /acre. Sidedress: 130 lb N and 5 lb S/acre.

Tillage: Conventional.

Herbicides: Atrazine, Warrant, Round-Up, and Zidua.

Irrigation: None.

Test conducted by M. Cofield, W. Mosteller, and D. Dunn.

## Midville, Georgia: Corn Grain Performance, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative		Grain	Test	Ears/ plant no.	Actual	
		Maturity days	Yield bu/acre	Moisture %	Weight lbs/bu		Population plants/acre	Lodging %
Revere Seed	1839 TC	118	<b>325</b>	14.4	52.6	.	.	.
Dyna-Gro	D60TC45	120	<b>311</b>	13.7	52.2	.	.	.
Innvictis	A1993T	119	<b>310</b>	14.2	53.7	.	.	.
INTEGRA	6915 TRE	119	<b>303</b>	14.6	53.0	.	.	.
SEEDWAY	SW 1880TR	119	<b>303</b>	14.1	55.6	.	.	.
DEKALB	DKC70-45 VT2P	120	295	14.2	54.5	.	.	.
DEKALB	DKC66-06 TRE	116	293	13.2	50.9	.	.	.
Innvictis	A1792T	117	291	14.4	55.8	.	.	.
Croplan	5893	118	290	13.9	55.3	.	.	.
BH Genetics	X24001TRE	117	289	14.1	56.1	.	.	.
Revere Seed	1307 TC	113	288	12.9	52.9	.	.	.
Innvictis	A1542T	115	287	13.9	53.0	.	.	.
BH Genetics	X23048VT2P	115	287	13.2	54.1	.	.	.
Pioneer	P1511YHR	115	287	14.4	56.5	.	.	.
Dyna-Gro	D58TC94	118	286	14.6	55.9	.	.	.
Revere Seed	1627 TC	116	285	14.0	53.9	.	.	.
Progeny	PGY 2314 TRE	114	285	14.6	51.2	.	.	.
Innvictis	A1551VT2P	115	282	13.1	52.7	.	.	.
INTEGRA	6864R	118	281	15.0	52.3	.	.	.
DEKALB	DKC68-35 VT2P	118	281	13.5	56.7	.	.	.
DEKALB	DKC68-94 RR2	118	281	14.5	55.7	.	.	.
Croplan	5678	116	279	14.4	53.0	.	.	.
BH Genetics	X24004TRE	116	278	14.3	54.4	.	.	.
SEEDWAY	SW 1661SS	116	278	13.6	56.3	.	.	.
Progeny	PGY 9114 VT2P	114	277	12.7	52.9	.	.	.
INTEGRA	6493 VT2P	114	277	14.3	55.4	.	.	.
AgraTech	807TRE	118	272	13.5	58.0	.	.	.
Progeny	PGY 2118 VT2P	118	271	14.4	55.8	.	.	.
DEKALB	DKC68-67 RR2	118	271	14.4	54.0	.	.	.
Pioneer	P17677YHR	117	270	13.6	54.8	.	.	.
Progeny	PGY 9117 VT2P	117	269	14.7	52.7	.	.	.
BH Genetics	BH 8939TRE	119	269	14.6	53.8	.	.	.
INTEGRA	6641 SS	116	267	13.8	55.1	.	.	.
DEKALB	DKC63-56 RR2	113	267	13.1	53.7	.	.	.
INTEGRA	6410R	114	267	12.3	54.3	.	.	.
NK Brand	1386-VZ	115	267	13.3	53.3	.	.	.
AgraTech	704VT2P	115	265	14.2	57.1	.	.	.
Revere Seed	114-P35	114	261	13.1	52.7	.	.	.
Dyna-Gro	D58VC65	118	258	13.0	54.3	.	.	.
SEEDWAY	SW 1579VT	115	257	13.6	53.7	.	.	.
Croplan	5760	117	251	14.7	53.4	.	.	.
Progeny	PGY 2010 TRE	110	251	12.9	52.1	.	.	.
INTEGRA	CX441112 PCE	112	251	13.6	52.9	.	.	.
Progeny	PGY 2215 TRE	115	250	14.5	56.2	.	.	.
Dyna-Gro	D56TC44	116	247	14.0	52.4	.	.	.
BH Genetics	BH 8412RR	114	247	12.9	55.3	.	.	.
SEEDWAY	SW 1600VT	116	238	13.1	52.4	.	.	.
DEKALB	DKC62-05 RR2	112	235	12.4	54.0	.	.	.

**Midville, Georgia:  
Corn Grain Performance, 2024, Irrigated (Continued)**

Company or Brand Name	Hybrid Name	Relative Maturity	Yield	Grain Moisture	Test Weight	Ears/ 100 plants	Actual Population	Lodging
		days	bu/acre	%	lbs/bu	no.	plants/acre	%
Average			276	13.8	54.1	-	-	-
LSD at 10% Level			23	0.5	1.8	-	-	-
Model R-squared			0.71	0.79	0.71	-	-	-
C.V.			7.7	3.1	3.1	-	-	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 8, 2024.

Harvested: August 28, 2024.

Seeding Rate: 34,000 seeds per acre in 36-inch rows.

Soil Type: Dothan sandy loam.

Soil Test:  $P_2O_5 = 110$  lbs,  $K_2O = 200$  lbs, and  $pH = 6.6$ .

Fertilization: Preplant: 100 lb N, 10 lb S, 113 lb  $P_2O_5$ , and 200 lb  $K_2O$ /acre. Sidedress: 268 lb N and 0 lb S/acre.

Tillage: Conventional.

Herbicides: Glyphosate, atrazine and Warrant.

Nematicide: Telone II

Irrigation: 11.9 inches.

Test conducted by M. Cofield, W. Mosteller, D. Dunn, J. Lanier, R. Milton and T. Woodward.

## Plains, Georgia: Corn Grain Performance, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative		Grain		Test Weight	Ears/ 100 plants	Actual	
		Maturity days	Yield bu/acre	Moisture %	lbs/bu			Population plants/acre	Lodging %
DEKALB	DKC70-45 VT2P	120	285	13.1	61.4	99.2	34,220	0	
AgraTech	704VT2P	115	277	13.2	61.6	100.4	35,637	0	
Croplan	5893	118	276	13.6	60.3	100.0	34,692	4	
Dyna-Gro	D58TC94	118	271	13.5	60.1	99.6	34,605	1	
Innvictis	A1792T	117	271	13.9	61.3	100.4	34,304	1	
INTEGRA	6915 TRE	119	270	13.1	59.1	99.6	35,080	0	
DEKALB	DKC68-67 RR2	118	268	13.3	60.8	101.2	33,828	1	
Dyna-Gro	D60TC45	120	266	14.0	58.3	100.0	34,208	1	
AgraTech	807TRE	118	264	13.0	60.0	99.2	33,769	0	
DEKALB	DKC68-35 VT2P	118	260	13.4	61.5	100.0	34,140	5	
Revere Seed	1839 TC	118	260	13.0	57.6	101.7	34,300	1	
SEEDWAY	SW 1880TR	119	254	13.1	57.8	100.0	35,928	3	
Revere Seed	114-P35	114	254	11.9	59.6	100.4	34,458	1	
BH Genetics	X24001TRE	117	252	13.9	60.9	100.0	33,370	1	
Pioneer	P17677YHR	117	248	12.6	60.6	102.3	31,051	2	
INTEGRA	6493 VT2P	114	247	12.6	59.1	101.2	34,724	6	
Progeny	PGY 2118 VT2P	118	244	14.1	61.4	100.0	33,844	1	
Innvictis	A1993T	119	242	13.7	57.4	100.4	34,684	0	
Progeny	PGY 9114 VT2P	114	242	12.4	60.0	99.6	33,849	0	
SEEDWAY	SW 1661SS	116	242	12.4	60.5	100.4	36,528	1	
INTEGRA	CX441112 PCE	112	242	12.6	58.2	100.0	33,516	2	
Dyna-Gro	D56TC44	116	240	12.2	57.9	99.6	32,407	3	
DEKALB	DKC63-56 RR2	113	239	12.4	60.0	101.7	34,179	0	
Innvictis	A1551VT2P	115	239	12.9	57.4	100.0	34,767	0	
Revere Seed	1627 TC	116	235	12.5	58.0	100.0	33,539	1	
BH Genetics	X24004TRE	116	235	13.2	60.6	100.0	34,280	0	
DEKALB	DKC62-05 RR2	112	235	11.8	60.4	100.0	34,035	1	
BH Genetics	X23048VT2P	115	235	13.1	60.4	99.6	34,470	0	
Progeny	PGY 2215 TRE	115	234	13.5	61.5	98.8	34,797	0	
Revere Seed	1307 TC	113	233	12.4	58.6	100.4	34,842	0	
Croplan	5678	116	232	12.1	59.2	98.3	32,831	0	
Dyna-Gro	D58VC65	118	230	12.2	59.2	99.6	32,972	1	
DEKALB	DKC66-06 TRE	116	229	12.6	58.3	100.0	33,623	0	
INTEGRA	6410R	114	227	12.3	57.2	99.2	34,032	0	
Progeny	PGY 2314 TRE	114	227	12.7	58.9	99.6	34,602	5	
INTEGRA	6864R	118	227	13.2	60.0	100.4	33,877	0	
SEEDWAY	SW 1579VT	115	226	12.8	59.3	100.0	34,440	1	
DEKALB	DKC68-94 RR2	118	225	14.3	59.7	100.0	33,693	1	
Innvictis	A1542T	115	224	12.4	59.3	97.5	33,607	2	
Progeny	PGY 2010 TRE	110	221	12.4	57.4	95.7	33,184	0	
Progeny	PGY 9117 VT2P	117	218	13.1	60.1	101.3	34,316	5	
INTEGRA	6641 SS	116	218	12.5	58.5	99.1	32,168	2	
Pioneer	P1511YHR	115	217	13.0	60.4	100.0	32,004	0	
BH Genetics	BH 8939TRE	119	217	14.1	58.9	99.1	34,126	2	
Croplan	5760	117	216	12.5	57.4	99.6	34,571	2	
NK Brand	1386-VZ	115	210	12.5	59.2	100.0	34,590	0	
SEEDWAY	SW 1600VT	116	203	12.8	59.3	91.0	30,502	2	
BH Genetics	BH 8412RR	114	197	12.2	59.7	97.2	31,330	2	

**Plains, Georgia:  
Corn Grain Performance, 2024, Irrigated (Continued)**

Company or Brand Name	Hybrid Name	Relative Maturity days	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
Average			240	12.9	59.5	99.7	33,927	1
LSD at 10% Level			19	0.3	0.9	1.7	1,091	-
Model R-squared			0.67	0.85	0.77	0.61	0.59	-
C.V.			7.3	2.4	1.4	1.7	3.1	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 10, 2024.

Harvested: August 30, 2024.

Seeding Rate: 34,000 seeds per acre in 36-inch rows.

Soil Type: Greenville sandy clay loam.

Previous Crop: Cotton.

Soil Test:  $P_2O_5 = 34$  lbs,  $K_2O = 158$  lbs, and  $pH = 6.5$ .

Fertilization: Preplant: 0 lb N, 10 lb S, 140 lb  $P_2O_5$ , and 170 lb  $K_2O$ /acre. Sidedress: 300 lb N and 0 lb S/acre.

Tillage: Conventional.

Herbicides: Round-Up, atrazine, and Dual.

Test conducted by M. Cofield, W. Mosteller, D. Dunn, W. Jones and D. Pearce.

## Griffin, Georgia: Corn Grain Performance, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
Innvictis	A1542T	115	<b>297</b>	14.6	59.1	.	32,852	.
Dyna-Gro	D60TC45	120	<b>297</b>	15.4	58.6	.	31,971	.
SEEDWAY	SW 1661SS	116	<b>294</b>	14.3	58.9	.	32,802	.
Revere Seed	1627 TC	116	<b>294</b>	14.4	58.3	.	32,944	.
SEEDWAY	SW 1880TR	119	<b>292</b>	15.5	58.1	.	31,130	.
Innvictis	A1792T	117	<b>290</b>	14.4	59.5	.	32,679	.
DEKALB	DKC66-06 TRE	116	<b>288</b>	13.7	58.8	.	33,507	.
Dyna-Gro	D58TC94	118	<b>285</b>	15.6	59.9	.	34,041	.
Innvictis	A1993T	119	<b>285</b>	16.7	57.6	.	33,182	.
DEKALB	DKC68-35 VT2P	118	<b>284</b>	14.3	60.2	.	31,278	.
Progeny	PGY 9117 VT2P	117	<b>283</b>	14.1	60.6	.	33,188	.
BH Genetics	X24001TRE	117	<b>282</b>	15.1	59.9	.	32,600	.
INTEGRA	CX441112 PCE	112	<b>281</b>	13.5	58.1	.	30,990	.
Pioneer	P1511YHR	115	<b>279</b>	14.6	59.3	.	31,840	.
INTEGRA	6915 TRE	119	<b>279</b>	15.3	57.6	.	32,451	.
INTEGRA	6410R	114	<b>277</b>	14.0	56.7	.	33,528	.
AgraTech	807TRE	118	<b>277</b>	13.8	59.2	.	31,416	.
Croplan	5760	117	<b>276</b>	14.4	58.4	.	31,821	.
Croplan	5893	118	<b>276</b>	14.5	69.4	.	31,827	.
Revere Seed	114-P35	114	<b>274</b>	12.9	59.2	.	32,243	.
Progeny	PGY 9114 VT2P	114	<b>272</b>	13.3	58.7	.	33,047	.
Progeny	PGY 2215 TRE	115	<b>272</b>	14.2	60.4	.	32,654	.
BH Genetics	X24004TRE	116	<b>272</b>	15.6	58.6	.	32,454	.
Progeny	PGY 2314 TRE	114	<b>271</b>	15.4	56.9	.	33,273	.
Pioneer	P17677YHR	117	267	13.8	59.7	.	30,289	.
Innvictis	A1551VT2P	115	267	13.6	56.5	.	33,382	.
SEEDWAY	SW 1579VT	115	265	14.5	58.0	.	32,605	.
DEKALB	DKC68-67 RR2	118	263	14.7	57.3	.	31,920	.
DEKALB	DKC70-45 VT2P	120	263	14.8	60.0	.	29,252	.
NK Brand	1386-VZ	115	262	13.1	59.1	.	35,269	.
Dyna-Gro	D58VC65	118	261	14.3	78.8	.	28,527	.
BH Genetics	X23048VT2P	115	260	14.8	59.5	.	32,410	.
Dyna-Gro	D56TC44	116	260	13.9	59.3	.	32,312	.
BH Genetics	BH 8939TRE	119	259	14.8	60.2	.	29,770	.
Revere Seed	1839 TC	118	257	15.1	58.1	.	32,315	.
INTEGRA	6493 VT2P	114	256	14.5	58.5	.	28,321	.
INTEGRA	6864R	118	252	14.1	58.7	.	29,478	.
Revere Seed	1307 TC	113	252	12.9	58.4	.	31,906	.
AgraTech	704VT2P	115	251	14.7	60.5	.	28,860	.
Progeny	PGY 2010 TRE	110	249	13.0	57.0	.	31,879	.
Progeny	PGY 2118 VT2P	118	248	15.2	60.5	.	30,085	.
INTEGRA	6641 SS	116	246	13.8	58.2	.	31,578	.
DEKALB	DKC62-05 RR2	112	243	13.3	58.4	.	29,542	.
DEKALB	DKC63-56 RR2	113	238	13.5	58.0	.	29,834	.
BH Genetics	BH 8412RR	114	236	13.9	59.2	.	34,681	.
DEKALB	DKC68-94 RR2	118	225	16.5	59.6	.	30,620	.
Croplan	5678	116	214	13.8	58.6	.	31,178	.
SEEDWAY	SW 1600VT	116	212	13.5	58.7	.	29,955	.

**Griffin, Georgia:**  
**Corn Grain Performance, 2024, Irrigated (Continued)**

Company or Brand Name	Hybrid Name	Relative Maturity days	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
Average			266	14.4	59.4	-	31,785	-
LSD at 10% Level			27	0.9	3.9	-	2,410	-
Model R-squared			0.87	0.97	0.92	-	0.95	-
C.V.			9.7	6.0	6.2	-	7.18	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 8, 2024.

Harvested: September 5, 2024.

Seeding Rate: 34,000 seeds per acre in 30-inch rows.

Soil Type: Cecil sandy loam.

Previous Crop: Soybeans.

Soil Test:  $P_2O_5 = 84$  lbs,  $K_2O = 375$  lbs, and  $pH = 6.2$ .

Fertilization: Preplant: 125 lb N, 250 lb  $P_2O_5$ , and 275 lb  $K_2O$ /acre. Sidedress: 205 lb N/acre.

Tillage: Conventional.

Herbicides: Atrazine, Warrant, and Round-up.

Test conducted by J. Arrington, G. Ware, and S. Brannon.

## Rome, Georgia: Corn Grain Performance, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
INTEGRA	6493 VT2P	114	<b>157</b>	13.9	53.0	.	.	.
Revere Seed	1627 TC	116	<b>150</b>	14.4	43.0	.	.	.
BH Genetics	X23048VT2P	115	<b>140</b>	14.1	43.9	.	.	.
Progeny	PGY 2215 TRE	115	<b>138</b>	14.3	58.9	.	.	.
Croplan	5760	117	<b>136</b>	13.8	48.4	.	.	.
INTEGRA	6915 TRE	119	136	14.0	44.4	.	.	.
Revere Seed	1839 TC	118	130	13.3	50.2	.	.	.
Progeny	PGY 2314 TRE	114	129	13.4	43.2	.	.	.
Innvictis	A1792T	117	127	14.4	49.6	.	.	.
Dyna-Gro	D58TC94	118	126	13.3	40.2	.	.	.
Progeny	PGY 2118 VT2P	118	126	13.3	43.7	.	.	.
DEKALB	DKC70-45 VT2P	120	124	13.1	48.3	.	.	.
INTEGRA	CX441112 PCE	112	123	12.9	42.7	.	.	.
INTEGRA	6641 SS	116	122	13.5	33.7	.	.	.
Revere Seed	1307 TC	113	119	13.2	47.8	.	.	.
SEEDWAY	SW 1579VT	115	118	12.4	39.4	.	.	.
NK Brand	1386-VZ	115	118	11.8	32.6	.	.	.
SEEDWAY	SW 1880TR	119	114	13.1	35.3	.	.	.
AgraTech	704VT2P	115	114	12.7	38.8	.	.	.
BH Genetics	X24004TRE	116	114	12.2	39.9	.	.	.
DEKALB	DKC66-06 TRE	116	110	13.1	47.5	.	.	.
Dyna-Gro	D60TC45	120	110	12.3	35.4	.	.	.
DEKALB	DKC68-67 RR2	118	108	12.7	30.8	.	.	.
Revere Seed	114-P35	114	108	12.3	40.1	.	.	.
AgraTech	807TRE	118	107	12.5	25.7	.	.	.
Progeny	PGY 9117 VT2P	117	107	13.5	42.8	.	.	.
DEKALB	DKC68-35 VT2P	118	106	13.1	32.9	.	.	.
Croplan	5678	116	106	13.6	36.3	.	.	.
Dyna-Gro	D56TC44	116	104	13.3	34.0	.	.	.
SEEDWAY	SW 1600VT	116	103	12.1	40.4	.	.	.
Progeny	PGY 2010 TRE	110	103	11.3	39.5	.	.	.
INTEGRA	6410R	114	100	11.5	36.4	.	.	.
BH Genetics	BH 8412RR	114	99	12.0	38.1	.	.	.
Innvictis	A1993T	119	99	13.3	31.3	.	.	.
Innvictis	A1551VT2P	115	96	11.8	33.6	.	.	.
INTEGRA	6864R	118	93	12.9	28.9	.	.	.
BH Genetics	X24001TRE	117	88	12.3	27.9	.	.	.
Croplan	5893	118	88	12.6	24.0	.	.	.
Pioneer	P17677YHR	117	87	11.5	49.9	.	.	.
Dyna-Gro	D58VC65	118	86	13.2	33.2	.	.	.
DEKALB	DKC63-56 RR2	113	84	12.0	28.8	.	.	.
DEKALB	DKC68-94 RR2	118	83	14.7	32.8	.	.	.
Innvictis	A1542T	115	81	12.5	20.3	.	.	.
DEKALB	DKC62-05 RR2	112	79	11.2	34.9	.	.	.
Progeny	PGY 9114 VT2P	114	79	11.9	31.2	.	.	.
BH Genetics	BH 8939TRE	119	79	12.3	22.4	.	.	.
SEEDWAY	SW 1661SS	116	73	12.3	17.1	.	.	.
Pioneer	P1511YHR	115	57	10.7	7.0	.	.	.

**Rome, Georgia:**  
**Corn Grain Performance, 2024, Irrigated (Continued)**

Company or Brand Name	Hybrid Name	Relative Maturity days	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
Average			108	12.8	37.1	-	-	-
LSD at 10% Level			20	0.8	11.1	-	-	-
Model R-squared			0.65	0.65	0.57	-	-	-
C.V.			17.8	6.2	28.3	-	-	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 25, 2024.  
Harvested: September 17, 2024.  
Seeding Rate: 34,000 seeds per acre in 30-inch rows.  
Soil Type: Etowah loam.  
Previous Crop: Soybeans.  
Soil Test:  $P_2O_5 = 104$  lbs,  $K_2O = 316$  lbs, and  $pH = 6.2$ .  
Fertilization: Preplant: 70 lb N, 0 lb  $P_2O_5$ , and 240 lb  $K_2O$ /acre. Sidedress: 280 lb N/acre.  
Tillage: Conventional.  
Herbicides: Atrazine, Warrant, and Round-up.

Test conducted by J. Arrington, G. Ware, M. Tucker, and T. Turnquist.

## Rome, Georgia: Corn Grain Performance, 2024, Dryland

Company or Brand Name	Hybrid Name	Relative Maturity	Yield	Grain Moisture	Test Weight	Ears/ 100 plants	Actual Population	Lodging
		days	bu/acre	%	lbs/bu	no.	plants/acre	%
AgraTech	704VT2P	115	73	11.2	27.7	.	.	.
Innvictis	A1792T	117	65	13.2	21.0	.	.	.
BH Genetics	X23048VT2P	115	63	13.9	28.2	.	.	.
SEEDWAY	SW 1880TR	119	60	11.4	18.6	.	.	.
Dyna-Gro	D56TC44	116	58	12.1	13.9	.	.	.
INTEGRA	6864R	118	57	12.1	21.7	.	.	.
Revere Seed	1307 TC	113	57	9.5	21.4	.	.	.
Revere Seed	1839 TC	118	56	9.7	25.0	.	.	.
DEKALB	DKC63-56 RR2	113	56	9.4	16.6	.	.	.
Dyna-Gro	D58VC65	118	56	11.8	18.8	.	.	.
Revere Seed	1627 TC	116	55	11.4	15.0	.	.	.
DEKALB	DKC68-67 RR2	118	55	11.7	22.6	.	.	.
Innvictis	A1993T	119	55	10.7	18.8	.	.	.
INTEGRA	6493 VT2P	114	55	8.5	15.7	.	.	.
Progeny	PGY 2314 TRE	114	54	11.7	10.7	.	.	.
BH Genetics	BH 8412RR	114	53	11.3	16.9	.	.	.
SEEDWAY	SW 1661SS	116	52	9.5	22.3	.	.	.
BH Genetics	BH 8939TRE	119	51	11.5	23.7	.	.	.
NK Brand	1386-VZ	115	51	9.4	17.7	.	.	.
INTEGRA	6410R	114	51	11.5	15.1	.	.	.
SEEDWAY	SW 1579VT	115	50	9.8	14.1	.	.	.
BH Genetics	X24004TRE	116	50	11.7	12.7	.	.	.
Croplan	5760	117	49	11.6	16.9	.	.	.
Progeny	PGY 9114 VT2P	114	48	10.4	11.5	.	.	.
Progeny	PGY 2118 VT2P	118	46	9.8	16.5	.	.	.
DEKALB	DKC70-45 VT2P	120	46	12.2	14.9	.	.	.
Progeny	PGY 2215 TRE	115	44	11.7	12.2	.	.	.
Croplan	5678	116	44	8.1	16.2	.	.	.
DEKALB	DKC68-35 VT2P	118	44	12.9	10.0	.	.	.
SEEDWAY	SW 1600VT	116	44	8.6	16.6	.	.	.
INTEGRA	6915 TRE	119	43	5.2	14.2	.	.	.
INTEGRA	6641 SS	116	41	7.4	17.1	.	.	.
Progeny	PGY 2010 TRE	110	41	9.9	9.6	.	.	.
Dyna-Gro	D58TC94	118	40	10.7	17.5	.	.	.
Dyna-Gro	D60TC45	120	39	7.4	18.1	.	.	.
Innvictis	A1551VT2P	115	38	10.6	9.4	.	.	.
BH Genetics	X24001TRE	117	37	8.4	14.2	.	.	.
Progeny	PGY 9117 VT2P	117	36	11.9	9.7	.	.	.
DEKALB	DKC68-94 RR2	118	35	9.7	12.7	.	.	.
Croplan	5893	118	34	12.0	8.8	.	.	.
AgraTech	807TRE	118	29	6.6	4.5	.	.	.
INTEGRA	CX441112 PCE	112	28	5.9	9.8	.	.	.
DEKALB	DKC66-06 TRE	116	25	6.9	6.0	.	.	.
Innvictis	A1542T	115	24	11.0	0.6	.	.	.
DEKALB	DKC62-05 RR2	112	22	6.2	5.5	.	.	.
Pioneer	P17677YHR	117	21	6.0	4.6	.	.	.
Revere Seed	114-P35	114	21	4.8	5.6	.	.	.
Pioneer	P1511YHR	115	0	0.0	0.0	.	.	.

**Rome, Georgia:**  
**Corn Grain Performance, 2024, Dryland (Continued)**

Company or Brand Name	Hybrid Name	Relative Maturity days	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
Average			45	9.9	14.4	-	-	-
LSD at 10% Level			12	2.9	7.9	-	-	-
Model R-squared			0.71	0.51	0.56	-	-	-
C.V.			25.3	27.8	52.0	-	-	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 25, 2024.

Harvested: September 16, 2024.

Seeding Rate: 24,000 seeds per acre in 30-inch rows.

Soil Type: Wax loam.

Previous Crop: Soybeans.

Soil Test:  $P_2O_5 = 81$  lbs,  $K_2O = 280$  lbs, and  $pH = 6.4$ .

Fertilization: Preplant: 70 lb N, 0 lb  $P_2O_5$ , and 240 lb  $K_2O$ /acre. Sidedress: 140 lb N/acre.

Tillage: Conventional.

Herbicides: Atrazine, Warrant, and Round-up.

Test conducted by J. Arrington, G. Ware, M. Tucker, and T. Turnquist.

## Blairsville, Georgia: Corn Grain Performance, 2024, Dryland

Company or Brand Name	Hybrid Name	Relative		Grain		Test Weight	Ears/ 100 plants	Actual	
		Maturity days	Yield bu/acre	Moisture %	lbs/bu			Population plants/acre	Lodging %
Revere Seed	1839 TC	118	<b>348</b>	15.9	57.6	.	.	.	
Innvictis	A1993T	119	<b>337</b>	16.1	58.2	.	.	.	
Dyna-Gro	D60TC45	120	316	15.8	58.6	.	.	.	
DEKALB	DKC66-06 TRE	116	307	16.1	59.3	.	.	.	
BH Genetics	X24001TRE	117	307	15.8	61.6	.	.	.	
Revere Seed	1627 TC	116	302	15.3	60.0	.	.	.	
SEEDWAY	SW 1880TR	119	302	15.8	58.7	.	.	.	
DEKALB	DKC70-45 VT2P	120	301	15.7	61.2	.	.	.	
INTEGRA	6915 TRE	119	299	15.7	59.2	.	.	.	
Pioneer	P17677YHR	117	295	15.8	61.3	.	.	.	
Innvictis	A1542T	115	294	15.5	59.9	.	.	.	
Croplan	5893	118	293	15.9	61.5	.	.	.	
Dyna-Gro	D56TC44	116	291	15.6	60.2	.	.	.	
DEKALB	DKC68-35 VT2P	118	288	16.5	61.4	.	.	.	
Croplan	5760	117	288	15.6	58.0	.	.	.	
Dyna-Gro	D58TC94	118	286	16.1	61.4	.	.	.	
Pioneer	P1511YHR	115	285	16.7	60.1	.	.	.	
Innvictis	A1551VT2P	115	283	15.3	58.1	.	.	.	
SEEDWAY	SW 1661SS	116	283	15.3	60.2	.	.	.	
INTEGRA	6493 VT2P	114	282	15.0	59.1	.	.	.	
Innvictis	A1792T	117	280	15.6	61.0	.	.	.	
DEKALB	DKC68-67 RR2	118	279	16.8	61.3	.	.	.	
Revere Seed	114-P35	114	279	15.5	59.1	.	.	.	
BH Genetics	BH 8939TRE	119	278	16.4	61.4	.	.	.	
DEKALB	DKC62-05 RR2	112	277	13.0	60.1	.	.	.	
BH Genetics	X24004TRE	116	275	15.6	59.9	.	.	.	
AgraTech	807TRE	118	272	15.9	60.9	.	.	.	
Progeny	PGY 9117 VT2P	117	272	15.3	60.3	.	.	.	
INTEGRA	6410R	114	271	13.9	60.0	.	.	.	
DEKALB	DKC63-56 RR2	113	271	11.6	30.6	.	.	.	
Revere Seed	1307 TC	113	270	14.8	59.4	.	.	.	
INTEGRA	CX441112 PCE	112	269	15.4	56.8	.	.	.	
Croplan	5678	116	269	15.6	59.7	.	.	.	
Progeny	PGY 2314 TRE	114	268	15.3	59.0	.	.	.	
AgraTech	704VT2P	115	266	15.4	59.8	.	.	.	
Dyna-Gro	D58VC65	118	266	15.7	60.1	.	.	.	
Progeny	PGY 9114 VT2P	114	266	15.6	59.8	.	.	.	
SEEDWAY	SW 1579VT	115	265	15.6	58.5	.	.	.	
INTEGRA	6864R	118	260	16.1	59.2	.	.	.	
INTEGRA	6641 SS	116	258	16.0	58.8	.	.	.	
Progeny	PGY 2215 TRE	115	256	15.4	60.3	.	.	.	
DEKALB	DKC68-94 RR2	118	252	16.6	60.4	.	.	.	
NK Brand	1386-VZ	115	250	15.1	59.8	.	.	.	
Progeny	PGY 2118 VT2P	118	247	16.5	61.5	.	.	.	
SEEDWAY	SW 1600VT	116	244	15.0	59.6	.	.	.	
BH Genetics	X23048VT2P	115	234	16.2	59.8	.	.	.	
BH Genetics	BH 8412RR	114	224	15.4	58.8	.	.	.	
Progeny	PGY 2010 TRE	110	210	14.8	57.7	.	.	.	

**Blairsville, Georgia:**  
**Corn Grain Performance, 2024, Dryland (Continued)**

Company or Brand Name	Hybrid Name	Relative Maturity	Yield bu/acre	Grain Moisture %	Test Weight lbs/bu	Ears/ 100 plants no.	Actual Population plants/acre	Lodging %
Average			277	15.5	59.1	-	-	-
LSD at 10% Level			23	0.8	0.7	-	-	-
Model R-squared			0.98	0.98	0.99	-	-	-
C.V.			7.7	4.6	1.2	-	-	-

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 24, 2024.

Harvested: October 15, 2024.

Seeding Rate: 34,000 seeds per acre in 30-inch rows.

Soil Type: Suches loam.

Previous Crop: Tomatoes.

Soil Test:  $P_2O_5 = 24$  lbs,  $K_2O = 204$  lbs, and  $pH = 6.3$ .

Fertilization: Preplant: 120 lb N, 9 lb S, 72 lb  $P_2O_5$ , and 48 lb  $K_2O$ /acre. Sidedress: 280 lb N/acre.

Tillage: Conventional.

Herbicides: Atrazine, Warrant, and Round-up.

Test conducted by J. Arrington, G. Ware, C. Graham, L. Lee, D. Patterson, and D. Rogers.

## Statewide Harvest Moisture Summary: Corn Grain Performance, Georgia, 2024

Company or Brand Name	Hybrid Name	RM	Arranged from highest to lowest moisture at harvest					Overall Average
			Tifton Irrigated	Blairsville Dryland	Griffin Irrigated	Midville Irrigated	Plains Irrigated	
----- % Moisture at harvest -----								
DEKALB	DKC68-94 RR2	118	17.4	16.6	16.5	14.5	14.3	15.9
Innvictis	<b>A1993T</b>	119	16.7	16.1	16.7	14.2	13.7	15.4
Progeny	PGY 2118 VT2P	118	16.6	16.5	15.2	14.4	14.1	15.4
Dyna-Gro	<b>D58TC94</b>	118	16.3	16.1	15.6	14.6	13.5	15.3
BH Genetics	BH 8939TRE	119	16.7	16.4	14.8	14.6	14.1	15.3
SEEDWAY	<b>SW 1880TR</b>	119	16.9	15.8	15.5	14.1	13.1	15.2
INTEGRA	<b>6915 TRE</b>	119	16.7	15.7	15.3	14.6	13.1	15.1
Dyna-Gro	<b>D60TC45</b>	120	16.8	15.8	15.4	13.7	14.0	15.1
BH Genetics	X24001TRE	117	16.9	15.8	15.1	14.1	13.9	15.1
DEKALB	DKC68-67 RR2	118	15.9	16.8	14.7	14.4	13.3	15.0
INTEGRA	6864R	118	16.5	16.1	14.1	15.0	13.2	15.0
Revere Seed	<b>1839 TC</b>	118	16.5	15.9	15.1	14.4	13.0	15.0
Croplan	5893	118	16.2	15.9	14.5	13.9	13.6	14.9
Progeny	<b>PGY 2314 TRE</b>	114	15.9	15.3	15.4	14.6	12.7	14.8
Pioneer	P1511YHR	115	15.7	16.7	14.6	14.4	13.0	14.8
DEKALB	<b>DKC68-35 VT2P</b>	118	15.5	16.5	14.3	13.5	13.4	14.8
BH Genetics	X24004TRE	116	16.1	15.6	15.6	14.3	13.2	14.8
DEKALB	DKC70-45 VT2P	120	16.3	15.7	14.8	14.2	13.1	14.8
Innvictis	A1792T	117	16.1	15.6	14.4	14.4	13.9	14.8
Croplan	5760	117	16.5	15.6	14.4	14.7	12.5	14.7
AgraTech	704VT2P	115	16.3	15.4	14.7	14.2	13.2	14.7
Progeny	PGY 2215 TRE	115	15.8	15.4	14.2	14.5	13.5	14.7
Progeny	PGY 9117 VT2P	117	15.9	15.3	14.1	14.7	13.1	14.6
BH Genetics	X23048VT2P	115	15.8	16.2	14.8	13.2	13.1	14.6
Revere Seed	<b>1627 TC</b>	116	16.3	15.3	14.4	14.0	12.5	14.6
AgraTech	807TRE	118	16.2	15.9	13.8	13.5	13.0	14.6
INTEGRA	<b>6493 VT2P</b>	114	15.6	15.0	14.5	14.3	12.6	14.3
SEEDWAY	SW 1579VT	115	15.1	15.6	14.5	13.6	12.8	14.3
Innvictis	A1542T	115	15.2	15.5	14.6	13.9	12.4	14.2
INTEGRA	6641 SS	116	14.8	16.0	13.8	13.8	12.5	14.2
SEEDWAY	SW 1661SS	116	15.3	15.3	14.3	13.6	12.4	14.2
DEKALB	DKC66-06 TRE	116	15.3	16.1	13.7	13.2	12.6	14.2
Dyna-Gro	D56TC44	116	15.3	15.6	13.9	14.0	12.2	14.2
INTEGRA	CX441112 PCE	112	15.3	15.4	13.5	13.6	12.6	14.1
Croplan	5678	116	14.6	15.6	13.8	14.4	12.1	14.1
Innvictis	A1551VT2P	115	15.0	15.3	13.6	13.1	12.9	14.0
Pioneer	P17677YHR	117	15.1	15.8	13.8	13.6	12.6	14.0
Dyna-Gro	D58VC65	118	14.6	15.7	14.3	13.0	12.2	14.0
BH Genetics	BH 8412RR	114	14.8	15.4	13.9	12.9	12.2	13.8
Progeny	PGY 9114 VT2P	114	14.3	15.6	13.3	12.7	12.4	13.8
Revere Seed	114-P35	114	14.8	15.5	12.9	13.1	11.9	13.7
SEEDWAY	SW 1600VT	116	14.5	15.0	13.5	13.1	12.8	13.7
Revere Seed	1307 TC	113	14.5	14.8	12.9	12.9	12.4	13.6
NK Brand	1386-VZ	115	14.2	15.1	13.1	13.3	12.5	13.6
Progeny	PGY 2010 TRE	110	14.0	14.8	13.0	12.9	12.4	13.6
INTEGRA	6410R	114	14.6	13.9	14.0	12.3	12.3	13.5
DEKALB	DKC63-56 RR2	113	14.3	11.6	13.5	13.1	12.4	13.3
DEKALB	DKC62-05 RR2	112	14.0	13.0	13.3	12.4	11.8	12.9

## Statewide Harvest Moisture Summary: Corn Grain Performance, Georgia, 2024 (Continued)

Company or Brand Name	Hybrid Name	Arranged from highest to lowest moisture at harvest					Overall Average	
		RM	Tifton Irrigated	Blairsville Dryland	Griffin Irrigated	Midville Irrigated		Plains Irrigated
		----- % Moisture at harvest -----						
Average			15.6	15.5	14.4	13.8	12.9	14.3
LSD at 10% Leve			0.5	0.8	0.9	0.5	0.3	1.0
Model R-squared			0.91	0.98	0.97	0.79	0.85	0.31
C.V.			2.7	4.6	6.0	3.1	2.4	15.4
Average Yield (bu/ac)			232	277	266	276	240	
Planting date			4/1	4/24	4/8	4/8	4/10	
Estimated physiological maturity (black layer)								
for RM 115 hybrid (2,650 GDUs)			7/17	8/29	7/29	7/21	7/23	
Harvest date			8/22	10/15	9/5	8/28	8/30	
Days from estimated black layer to harvest			36	47	38	38	38	

Names of the 10 highest-yielding hybrids statewide are **bolded** and underlined.

Note: Very-low-yielding tests are omitted since their drydown pattern deviates from the typical pattern. Unlike the previous two years, the ten highest yielding hybrids are concentrated among the longer maturity hybrids. This could be due to more of their grain-filling period occurring in July, avoiding some of the excess heat during the drought in June.

## Statewide Yield Summary: Spring-planted Corn Silage Performance, Georgia, 2022-2024

Company or Brand Name	Hybrid Name	Relative Maturity days	2024			2023			2022		
			Griffin Forage dry tons/acre	Plains Yield lb/acre		Griffin Forage dry tons/acre	Tifton Yield lb/acre		Griffin Forage dry tons/acre	Tifton Yield lb/acre	
				Yield	Milk/Ac		Yield	Milk/Ac		Yield	Milk/Ac
AgraTech	79VT2P	113	9.64	<b>10.84</b>	<b>37,022</b>	.	11.5	38,178	.	9.95	34,981
BH Genetics	BH 8420VIP3110	114	12.05	10.51	35,069	<b>11.90</b>	12.70	41,445	10.41	<b>12.91</b>	<b>43,452</b>
BH Genetics	BH 8690VIP3110	116	11.66	<b>11.50</b>	<b>37,890</b>	<b>11.11</b>	12.84	43,298	<b>11.52</b>	11.05	36,269
BH Genetics	BH 8705VIP3110	117	12.92	<b>11.59</b>	<b>38,659</b>	<b>11.10</b>	11.95	38,895	<b>12.11</b>	9.65	34,957
BH Genetics	BH 8721VT2P	117	<b>13.25</b>	<b>11.16</b>	<b>38,175</b>	<b>11.34</b>	12.62	41,460	.	.	.
BH Genetics	X24002SSP	115	12.62	<b>11.27</b>	<b>38,712</b>	.	.	.	.	.	.
BH Genetics	X24011DV	114	10.48	9.31	31,998	.	.	.	.	.	.
BH Genetics	X24015-3220	114	10.92	9.40	31,089	.	.	.	.	.	.
Croplan	5320	113	11.82	<b>11.20</b>	<b>36,669</b>	.	.	.	.	.	.
Croplan	5760	117	11.08	9.86	32,505	.	.	.	.	.	.
Croplan	5893	118	12.79	10.54	36,267	<b>11.77</b>	11.68	36,422	.	.	.
Croplan	5900	119	<b>14.13</b>	10.59	34,002	<b>11.94</b>	12.85	39,607	.	.	.
DEKALB	DKC66-06 TRE	116	11.99	<b>10.96</b>	<b>36,949</b>	<b>10.74</b>	12.63	42,843	.	.	.
DEKALB	DKC68-35 VT2P	118	12.57	<b>11.63</b>	<b>38,018</b>	<b>12.07</b>	<b>12.99</b>	<b>44,603</b>	.	.	.
DEKALB	DKC70-45 VT2P	120	<b>14.02</b>	10.71	35,650	<b>10.75</b>	<b>13.25</b>	43,220	10.08	10.32	35,495
Dyna-Gro	D58VC65	118	12.53	10.69	36,471	8.57	12.18	40,049	.	.	.
Dyna-Gro	D60TC45	120	<b>13.45</b>	<b>11.20</b>	<b>38,279</b>	.	.	.	.	.	.
Innvictis	A1792T	117	12.33	<b>10.81</b>	<b>37,437</b>	.	.	.	.	.	.
Innvictis	A1993T	119	<b>13.67</b>	<b>11.62</b>	<b>39,423</b>	.	.	.	.	.	.
INTEGRA	6493 VT2P	114	11.67	10.51	35,809	.	.	.	.	.	.
INTEGRA	6641 SS	116	11.48	10.50	34,275	.	.	.	.	.	.
INTEGRA	6709 VT2P	117	11.95	10.48	33,736	<b>11.65</b>	12.37	38,677	9.55	10.23	34,447
INTEGRA	6864R	118	11.45	10.24	35,027	<b>10.97</b>	11.32	36,652	.	.	.
INTEGRA	6891 AS3110	118	12.33	10.73	33,604	<b>11.29</b>	12.76	41,058	.	.	.
INTEGRA	6915 TRE	119	12.71	<b>11.07</b>	<b>37,042</b>	.	.	.	.	.	.
INTEGRA	CX441112 PCE	112	11.44	10.55	<b>36,816</b>	.	.	.	.	.	.
NK Brand	1402-DV	114	10.15	10.24	35,167	.	.	.	.	.	.
NK Brand	E114C4-DV	114	12.27	10.60	35,759	.	.	.	.	.	.
NK Brand	E117Z7-D	117	11.76	9.79	31,736	<b>11.79</b>	<b>12.97</b>	42,847	<b>11.40</b>	<b>11.25</b>	<b>39,859</b>
Pioneer	P17677YHR	117	11.99	<b>10.81</b>	36,022	.	.	.	.	.	.
Revere Seed	1627 TC	116	12.66	10.24	32,510	.	.	.	.	.	.
Revere Seed	1839 TC	118	<b>13.03</b>	<b>11.02</b>	<b>37,711</b>	.	12.62	42,347	.	.	.
Average			12.15	10.69	35,797	10.58	12.26	40,187	10.31	10.39	35,743
LSD at 10% Level			1.18	0.87	2,914	1.83	0.93	3,029	1.29	1.67	5,765
Model R-squared			0.80	0.91	0.51	0.93	0.73	0.77	0.84	0.77	0.76
C.V.			9.15	7.69	7.7	.	.	.	.	.	.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Descriptive statistics from 2023 and 2022 reflect whole tests, and are not restricted to hybrids that returned for 2024.

## Plains, Georgia: Evaluation of Corn Hybrids for Silage, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Forage Yield		Percent Moisture %	Ear Count #/100 plts	Percent Lodged	Population
			Dry tons/acre	Green <sup>1</sup>				
DEKALB	DKC68-35 VT2P	118	<b>11.63</b>	<b>33.23</b>	56.5	100	0	35,019
Innvictis	A1993T	119	<b>11.62</b>	<b>33.20</b>	53.4	101	2	37,012
BH Genetics	BH 8705VIP3110	117	<b>11.59</b>	<b>33.12</b>	53.8	98	11	34,165
BH Genetics	BH 8690VIP3110	116	<b>11.50</b>	<b>32.85</b>	56.5	100	2	36,158
BH Genetics	X24002SSP	115	<b>11.27</b>	<b>32.19</b>	54.3	101	2	36,158
Dyna-Gro	D60TC45	120	<b>11.20</b>	<b>31.99</b>	55.4	101	1	37,012
Croplan	5320	113	<b>11.20</b>	<b>31.99</b>	58.8	99	2	35,019
BH Genetics	BH 8721VT2P	117	<b>11.16</b>	<b>31.88</b>	53.7	98	2	34,734
INTEGRA	6915 TRE	119	<b>11.07</b>	<b>31.64</b>	53.6	101	2	37,581
Revere Seed	1839 TC	118	<b>11.02</b>	<b>31.49</b>	53.7	99	1	37,012
DEKALB	DKC66-06 TRE	116	<b>10.96</b>	<b>31.32</b>	55.6	98	0	35,588
AgraTech	79VT2P	117	<b>10.84</b>	<b>30.96</b>	58.5	101	1	34,734
Innvictis	A1792T	117	<b>10.81</b>	<b>30.88</b>	54.0	99	0	35,588
Pioneer	P17677YHR	117	<b>10.81</b>	<b>30.88</b>	60.4	100	0	33,595
INTEGRA	6891 AS3110	118	10.73	30.65	59.0	100	3	34,165
DEKALB	DKC70-45 VT2P	120	10.71	30.61	57.3	100	0	35,873
Dyna-Gro	D58VC65	118	10.69	30.54	52.5	98	2	37,012
NK Brand	E114C4-DV	114	10.60	30.29	55.6	104	1	34,734
Croplan	5900	119	10.59	30.26	59.7	101	0	35,304
INTEGRA	CX441112 PCE	112	10.55	30.13	54.7	100	1	34,734
Croplan	5893	118	10.54	30.10	54.4	99	1	35,304
BH Genetics	BH 8420VIP3110	114	10.51	30.03	56.7	98	1	35,304
INTEGRA	6493 VT2P	114	10.51	30.04	53.9	106	2	32,741
INTEGRA	6641 SS	116	10.50	29.99	56.6	100	1	36,727
INTEGRA	6709 VT2P	117	10.48	29.95	60.6	100	7	32,456
NK Brand	1402-DV	114	10.24	29.26	52.4	103	1	34,734
Revere Seed	1627 TC	116	10.24	29.27	54.9	99	0	36,158
INTEGRA	6864R	118	10.24	29.25	56.6	100	2	35,873
Croplan	5760	117	9.86	28.19	57.6	99	3	37,581
NK Brand	E117Z7-D	117	9.79	27.98	60.5	103	2	35,588
BH Genetics	X24015-3220	114	9.40	26.87	48.5	101	1	34,449
BH Genetics	X24011DV	114	9.31	26.61	52.9	102	2	35,873
Average			10.69	30.55	55.7	100	2	35,437
LSD at 10% Level			0.87	2.49	0.7	2	2	1,395
Model R-squared			0.91	0.84	0.99	0.70	0.86	0.59
C.V.			7.7	7.7	1.1	2.1	119.5	3.7

1. Green yields are standardized to 65% moisture.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 10, 2024.

Harvested: July 31, 2024. Accumulated 2,909 GDD units.  $50 \leq \text{Temp} \leq 86$  °F

Seeding Rate: 36,000 seeds per acre in 36-inch rows.

Soil Type: Greenville sandy clay loam.

Previous Crop: Cotton.

Soil Test:  $P_2O_5 = 34$  lbs,  $K_2O = 158$  lbs, and  $pH = 6.5$ .

Fertilization: Preplant: 0 lb N, 10 lb S, 140 lb  $P_2O_5$ , and 170 lb  $K_2O$ /acre. Sidedress: 300 lb N and 0 lb S/acre.

Tillage: Conventional.

Herbicides: Atrazine, Round-Up, and Dual.

Irrigation:

Test conducted by M. Cofield, W. Mosteller, and D. Dunn.

Note: Plant populations can exceed 34,000 due to "doubles" on the planter plate resulting from smaller seed size, and can be lower due to skips caused by larger size, or non-germinating seeds. The plant populations are reported for use in interpreting the yield results, and are not an inherent feature of that hybrid. Proper planter calibration for a particular seed size minimizes both doubles and skips, but is not feasible in these tests due to the range of seed sizes encountered.

## Quality Factors of Corn Hybrids for Silage Plains, Georgia, 2024

Company or Brand Name	Hybrid Name	Dry Yield	UW Milk 2006 Model Calculated Values						Quality Components					
			Milk production		TDN	NE <sub>L</sub>	NE <sub>G</sub>	NE <sub>M</sub>	ADF	aNDF	aNDFom	Ligni	NDFD3	NDFD24
		tons/ac	lb/ton	lb/acre	% DM	Mcal/cwt		% DM		% NDFom				
Innvictis	A1993T	<b>11.62</b>	3,393	<b>39,423</b>	72.1	67.0	55.2	83.9	19.2	32.9	32.1	3.0	49.7	64.2
BH Genetics	X24002SSP	<b>11.27</b>	3,436	<b>38,712</b>	72.5	67.6	56.3	85.2	18.3	29.6	28.9	2.8	45.8	60.9
BH Genetics	BH 8705VIP3110	<b>11.59</b>	3,335	<b>38,659</b>	71.1	66.8	53.9	82.5	19.0	31.2	30.5	2.9	44.2	60.6
Dyna-Gro	D60TC45	<b>11.20</b>	3,419	<b>38,279</b>	72.3	67.2	56.5	85.4	16.0	27.2	26.6	2.9	43.5	61.3
BH Genetics	BH 8721VT2P	<b>11.16</b>	3,421	<b>38,175</b>	72.4	67.3	55.9	84.7	17.4	30.6	29.8	2.9	48.1	62.4
DEKALB	DKC68-35 VT2P	<b>11.63</b>	3,269	<b>38,018</b>	70.2	65.9	52.6	81.0	20.2	32.3	31.6	3.3	44.4	61.2
BH Genetics	BH 8690VIP3110	<b>11.50</b>	3,295	<b>37,890</b>	70.6	66.2	53.4	81.8	19.9	31.9	31.3	3.2	45.3	60.8
Revere Seed	1839 TC	<b>11.02</b>	3,422	<b>37,711</b>	72.3	67.7	56.3	85.2	17.3	28.0	27.3	3.0	42.2	56.4
Innvictis	A1792T	<b>10.81</b>	3,464	<b>37,437</b>	73.0	67.3	57.1	86.1	16.8	29.4	28.7	2.6	49.8	66.7
INTEGRA	6915 TRE	<b>11.07</b>	3,345	<b>37,042</b>	71.3	66.5	54.5	83.1	19.9	31.7	31.0	2.9	46.8	62.1
AgraTech	79VT2P	<b>10.84</b>	3,417	<b>37,022</b>	72.3	67.3	56.1	85.0	17.0	29.0	28.5	2.9	47.4	63.1
DEKALB	DKC66-06 TRE	<b>10.96</b>	3,371	<b>36,949</b>	71.7	66.6	55.4	84.2	17.0	29.2	28.5	2.9	45.4	62.7
INTEGRA	CX441112 PCE	10.55	3,491	<b>36,816</b>	73.3	68.3	57.4	86.4	16.2	27.4	26.8	2.6	47.4	63.6
Croplan	5320	<b>11.20</b>	3,276	<b>36,669</b>	70.4	66.0	53.0	81.4	19.7	32.2	31.4	3.0	45.7	60.2
Dyna-Gro	D58VC65	10.69	3,412	36,471	72.2	67.5	56.4	85.3	15.6	26.2	25.6	2.8	41.9	59.0
Croplan	5893	10.54	3,442	36,267	72.6	67.8	56.4	85.3	16.7	28.4	27.8	2.9	45.2	59.5
Pioneer	P17677YHR	<b>10.81</b>	3,333	36,022	71.2	66.5	54.4	83.0	18.8	30.8	30.2	3.2	46.0	60.4
INTEGRA	6493 VT2P	10.51	3,406	35,809	72.2	67.1	55.8	84.6	17.4	30.0	29.4	2.9	46.8	62.3
NK Brand	E114C4-DV	10.60	3,373	35,759	71.8	66.6	55.3	84.0	18.7	30.4	29.7	2.6	48.2	65.1
DEKALB	DKC70-45 VT2P	10.71	3,328	35,650	71.1	65.8	54.7	83.3	17.8	30.4	29.8	2.9	45.5	62.9
NK Brand	1402-DV	10.24	3,435	35,167	72.9	67.2	55.9	84.7	19.4	34.0	33.2	2.8	53.7	67.5
BH Genetics	BH 8420VIP3110	10.51	3,337	35,069	71.1	66.7	54.1	82.7	19.2	31.6	30.9	3.1	45.3	62.7
INTEGRA	6864R	10.24	3,421	35,027	72.5	67.4	56.0	84.8	18.7	31.1	30.4	2.7	49.0	63.6
INTEGRA	6641 SS	10.50	3,266	34,275	70.1	65.8	53.6	82.1	18.5	29.4	28.8	3.2	39.9	55.0
Croplan	5900	10.59	3,210	34,002	69.4	65.6	52.7	81.1	20.2	32.2	31.4	3.3	43.1	57.5
INTEGRA	6709 VT2P	10.48	3,224	33,736	69.7	65.5	51.7	79.9	20.6	34.4	33.6	3.3	46.3	60.4
INTEGRA	6891 AS3110	10.73	3,133	33,604	68.5	64.4	50.2	78.1	22.7	37.4	36.7	3.7	47.1	61.7
Revere Seed	1627 TC	10.24	3,174	32,510	69.4	63.8	51.7	79.9	20.6	36.7	36.0	3.1	50.6	68.1
Croplan	5760	9.86	3,295	32,505	70.6	65.8	53.9	82.4	19.3	31.3	30.6	3.0	44.9	60.3
BH Genetics	X24011DV	9.31	3,436	31,998	72.7	67.4	56.2	85.1	17.5	29.7	29.1	2.5	49.3	64.6
NK Brand	E117Z7-D	9.79	3,241	31,736	70.0	65.5	51.9	80.2	20.4	35.0	34.3	3.0	48.3	63.1
BH Genetics	X24015-3220	9.40	3,306	31,089	70.8	66.0	53.7	82.2	19.2	31.9	31.2	2.9	45.6	63.0
Average		10.69	3,347	35,797	71.4	66.6	54.6	83.3	18.6	31.0	30.4	3.0	46.3	62.0
LSD at 10% Level		0.87	NS	2,913	NS	NS	NS	NS	NS	NS	NS	0.4	3.9	4.0
Model R-squared		0.91	0.45	0.51	0.45	0.38	0.51	0.51	0.81	0.78	0.79	0.64	0.64	0.64
C.V.		7.7	4.3	7.7	2.7	2.7	4.7	3.5	10.1	10.1	10.1	9.2	6.4	4.9

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Sample analysis conducted by Dairyland Laboratories, Arcadia, WI.

Data above assumes kernal processing was conducted prior to ensiling.

## Nutrient and Elemental Analysis of Corn Hybrids for Silage Plains, Georgia, 2024

Company or Brand Name	Hybrid Name	Dry Yield	Milk Production	Crude Protein	Starch	Sugar (WSC)	Fat (EE)	Fat (TFA)	Ash	P	K	Ca	Mg	S	
		tons/ac	lb/ton	lb/acre	% DM										
Innvictis	A1993T	<b>11.62</b>	3,393	<b>39,423</b>	8.5	41.6	6.5	3.1	2.8	2.9	0.24	0.93	0.23	0.15	0.12
BH Genetics	X24002SSP	<b>11.27</b>	3,436	<b>38,712</b>	8.6	45.3	6.6	3.1	2.8	2.5	0.24	0.95	0.23	0.13	0.11
BH Genetics	BH 8705VIP3110	<b>11.59</b>	3,335	<b>38,659</b>	8.3	41.1	8.2	2.7	2.5	2.7	0.23	0.97	0.22	0.14	0.11
Dyna-Gro	D60TC45	<b>11.20</b>	3,419	<b>38,279</b>	8.3	48.9	5.8	3.0	2.7	2.5	0.24	0.79	0.21	0.13	0.11
BH Genetics	BH 8721VT2P	<b>11.16</b>	3,421	<b>38,175</b>	8.5	43.8	6.1	3.0	2.8	2.7	0.25	0.91	0.23	0.14	0.11
DEKALB	DKC68-35 VT2P	<b>11.63</b>	3,269	<b>38,018</b>	8.4	39.8	8.0	2.7	2.4	3.1	0.24	1.04	0.23	0.14	0.11
BH Genetics	BH 8690VIP3110	<b>11.50</b>	3,295	<b>37,890</b>	9.0	39.4	8.4	2.7	2.4	3.3	0.25	1.14	0.23	0.13	0.12
Revere Seed	1839 TC	<b>11.02</b>	3,422	<b>37,711</b>	8.7	46.1	6.9	3.3	3.0	2.6	0.24	1.01	0.24	0.16	0.12
Innvictis	A1792T	<b>10.81</b>	3,464	<b>37,437</b>	8.3	47.5	5.0	3.1	2.8	2.9	0.25	0.70	0.23	0.14	0.12
INTEGRA	6915 TRE	<b>11.07</b>	3,345	<b>37,042</b>	8.7	42.0	6.8	2.9	2.6	3.1	0.24	1.00	0.24	0.16	0.12
AgraTech	79VT2P	<b>10.84</b>	3,417	<b>37,022</b>	9.1	44.4	6.7	2.9	2.7	3.0	0.25	0.90	0.23	0.15	0.12
DEKALB	DKC66-06 TRE	<b>10.96</b>	3,371	<b>36,949</b>	8.7	45.6	5.9	2.9	2.6	2.9	0.25	0.89	0.23	0.14	0.12
INTEGRA	CX441112 PCE	10.55	3,491	<b>36,816</b>	8.7	45.8	6.9	3.1	2.8	2.9	0.25	0.91	0.23	0.14	0.12
Croplan	5320	<b>11.20</b>	3,276	<b>36,669</b>	9.1	38.4	7.9	2.7	2.5	3.5	0.25	1.13	0.27	0.16	0.12
Dyna-Gro	D58VC65	10.69	3,412	36,471	8.9	47.1	6.4	3.1	2.8	2.8	0.26	0.90	0.23	0.14	0.12
Croplan	5893	10.54	3,442	36,267	8.5	45.3	6.7	3.2	2.9	2.7	0.25	0.92	0.23	0.14	0.12
Pioneer	P17677YHR	<b>10.81</b>	3,333	36,022	9.1	41.7	7.1	2.7	2.5	3.1	0.25	1.17	0.25	0.15	0.12
INTEGRA	6493 VT2P	10.51	3,406	35,809	8.5	44.9	5.8	3.1	2.8	2.8	0.24	0.81	0.26	0.17	0.12
NK Brand	E114C4-DV	10.60	3,373	35,759	8.7	43.5	6.9	2.6	2.4	3.1	0.24	0.94	0.23	0.15	0.12
DEKALB	DKC70-45 VT2P	10.71	3,328	35,650	8.1	46.8	5.2	2.8	2.5	2.8	0.24	0.83	0.22	0.14	0.11
NK Brand	1402-DV	10.24	3,435	35,167	7.9	41.5	6.7	2.8	2.5	2.9	0.24	0.88	0.22	0.16	0.11
BH Genetics	BH 8420VIP3110	10.51	3,337	35,069	8.9	40.9	7.5	2.9	2.7	2.9	0.24	0.86	0.24	0.15	0.12
INTEGRA	6864R	10.24	3,421	35,027	8.9	42.4	6.5	3.0	2.7	3.0	0.25	0.97	0.23	0.14	0.12
INTEGRA	6641 SS	10.50	3,266	34,275	9.3	44.0	6.4	3.0	2.8	3.2	0.26	1.11	0.27	0.17	0.12
Croplan	5900	10.59	3,210	34,002	9.5	36.5	8.8	2.8	2.6	3.2	0.25	1.08	0.25	0.15	0.12
INTEGRA	6709 VT2P	10.48	3,224	33,736	9.1	35.6	8.2	2.6	2.4	3.5	0.24	1.09	0.28	0.19	0.13
INTEGRA	6891 AS3110	10.73	3,133	33,604	9.1	32.2	8.3	2.6	2.3	3.6	0.25	1.18	0.28	0.17	0.12
Revere Seed	1627 TC	10.24	3,174	32,510	8.9	38.9	5.6	2.4	2.2	3.8	0.25	0.75	0.27	0.19	0.12
Croplan	5760	9.86	3,295	32,505	8.8	43.3	5.7	2.9	2.7	3.1	0.25	1.00	0.25	0.15	0.12
BH Genetics	X24011DV	9.31	3,436	31,998	8.4	43.8	7.2	2.8	2.5	3.0	0.24	0.94	0.23	0.15	0.12
NK Brand	E117Z7-D	9.79	3,241	31,736	8.5	35.9	8.1	2.4	2.2	3.3	0.23	1.03	0.26	0.18	0.11
BH Genetics	X24015-3220	9.40	3,306	31,089	8.0	42.6	7.5	2.5	2.3	2.8	0.23	1.00	0.21	0.13	0.11
Average		10.69	3,347	35,797	8.7	42.4	6.9	2.9	2.6	3.0	0.24	0.96	0.24	0.15	0.11
LSD at 10% Level		0.87	NS	2,913	0.5	4.9	1.1	NS	NS	NS	0.01	0.14	NS	0.03	0.01
Model R-squared		0.91	0.45	0.51	0.69	0.69	0.74	0.60	0.60	0.52	0.71	0.73	0.55	0.52	0.54
C.V.		7.7	4.3	7.7	4.2	8.8	12.3	9.3	9.3	14.0	2.6	11.0	10.2	14.9	5.4

**Bolded** yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Silage analysis conducted by Dairyland Laboratories, Arcadia, WI.

"Milk Production" reprinted from Quality Factors table, based on UW Milk 2006 predicted milk model.

## Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2024, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Forage Yield		Percent Moisture %	Actual Population plants/acre	Percent Lodged %
			Dry	Green <sup>1</sup>			
			tons/acre				
Croplan	5900	119	<b>14.13</b>	<b>40.37</b>	44.3	35,824	0
DEKALB	DKC70-45 VT2P	120	<b>14.02</b>	<b>40.04</b>	38.2	36,793	0
Innvictis	A1993T	119	<b>13.67</b>	<b>39.06</b>	34.2	36,291	0
Dyna-Gro	D60TC45	120	<b>13.45</b>	<b>38.44</b>	35.8	36,300	0
BH Genetics	BH 8721VT2P	117	<b>13.25</b>	<b>37.85</b>	35.3	36,784	0
Revere Seed	1839 TC	118	<b>13.03</b>	<b>37.24</b>	35.5	34,852	0
BH Genetics	BH 8705VIP3110	117	12.92	36.93	29.8	35,811	0
Croplan	5893	118	12.79	36.54	38.2	36,301	0
INTEGRA	6915 TRE	119	12.71	36.32	39.9	36,305	0
Revere Seed	1627 TC	116	12.66	36.18	28.3	34,367	0
BH Genetics	X24002SSP	115	12.62	36.06	33.9	34,850	0
DEKALB	DKC68-35 VT2P	118	12.57	35.92	37.0	35,817	0
Dyna-Gro	D58VC65	118	12.53	35.81	34.7	35,815	0
Innvictis	A1792T	117	12.33	35.22	37.7	34,367	0
INTEGRA	6891 AS3110	118	12.33	35.23	48.8	34,370	0
NK Brand	E114C4-DV	114	12.27	35.06	35.7	33,891	0
BH Genetics	BH 8420VIP3110	114	12.05	34.42	39.0	34,843	0
DEKALB	DKC66-06 TRE	116	11.99	34.24	37.9	36,783	0
Pioneer	P17677YHR	117	11.99	34.26	42.8	32,908	0
INTEGRA	6709 VT2P	117	11.95	34.13	33.8	33,885	0
Croplan	5320	113	11.82	33.78	40.3	34,853	0
NK Brand	E117Z7-D	117	11.76	33.61	43.3	36,766	0
INTEGRA	6493 VT2P	114	11.67	33.33	39.9	35,322	0
BH Genetics	BH 8690VIP3110	116	11.66	33.32	36.6	35,312	0
INTEGRA	6641 SS	116	11.48	32.79	40.7	36,294	0
INTEGRA	6864R	118	11.45	32.71	35.3	36,302	0
INTEGRA	CX441112 PCE	112	11.44	32.69	28.2	34,859	0
Croplan	5760	117	11.08	31.66	35.5	35,324	0
BH Genetics	X24015-3220	114	10.92	31.21	31.9	33,399	0
BH Genetics	X24011DV	114	10.48	29.93	21.3	36,791	0
NK Brand	1402-DV	114	10.15	28.99	38.1	34,363	0
AgraTech	79VT2P	117	9.64	27.55	42.2	31,945	0
Average			12.15	34.72	36.7	35,272	0
LSD at 10% Level			1.18	3.38	3.0	2,228	-
Model R-squared			0.80	0.80	0.91	0.58	-
C.V.			9.2	9.2	7.6	5.9	-

1. Green yields are standardized to 65% moisture.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 8, 2024.

Harvested: August 30, 2024.

Seeding Rate: 36,000 seeds per acre in 30-inch rows.

Soil Type: Cecil sandy loam.

Previous Crop: Wheat.

Soil Test:  $P_2O_5 = 84$  lbs,  $K_2O = 304$  lbs, and  $pH = 5.8$ . Applied 1 ton dolomitic lime/acre.

Fertilization: Preplant: 70 lb N, 191 lb  $P_2O_5$ , and 270 lb  $K_2O$ /acre. Sidedress: 286 lb N/acre.

Tillage: Conventional.

Herbicides: Atrazine, Warrant, and Round-up.

Test conducted by J. Arrington, G. Ware, and S. Brannon.

Note: This test was harvested very late due to equipment problems. The plants had exceed black layer, and begun the natural drydown process. Optimum harvest moisture is 65-70%, and would have occurred around July 30. As a result, the yields above are higher than what would be expected at a normal harvest time. However, the ranking of yields should be very similar, since each hybrid reached its maximum yield potential.

# Insect Screening Results

## Multiple Insect Resistance in 59 Commercial Corn Hybrids, 2024

Xinzhi Ni, Daniel Mailhot, Michael D. Toews, and G. David Buntin

Commercial corn hybrids were screened for ear- and kernel-feeding insect resistance under field conditions at Tifton, GA, and the results are summarized in the following table. A total of 59 transgenic Bt hybrids were included in this year's trial; 13 hybrids were rated Very Good (VG), the highest rating for multiple insect resistance in 2024; 15 were Good (G); 18 were Fair (F), and 13 were Poor (P) as shown in Table 1.

Three hybrids are non-Bt, which has only herbicide-resistant roundup ready (RR) trait; five have SmartStax™ (SS); two have YHR traits (also known as Optimum® Intrasect™); 16 have VC trait, or VT2P, denoting for vector-stacked transformation (VecTran or VT), which combines two (double) Bt traits into a single DNA insertion process; 20 have TC or TRE (denotes for Trecepta Technology); and 26 contains Vip3A trait, which is shown as 3110, TC or TRE (Trecepta), VIP(or Viptera), or VYHR as shown in Table 1. SmartStax™ combined multiple transgenic technologies to control both above- and below-ground insect pests, as well as for herbicide tolerance. The Optimum® Intrasect™ insect protection traits (or YHR) include a combination of two insect protection traits – Herculex® I and YieldGard® Corn Borer, while the VC or VT2P (denoted for Genuity Double PRO®) trait contains a stack of two Bt genes (Cry1A.105 + Cry2Ab2), which target foliar- and ear-feeding lepidopteran pests. For hybrids containing Vip3A trait as shown in Table 1, 3110 in hybrid names denotes for CRY1Ab + Vip3A; TC or TRE for Cry1A.105 + Cry2Ab2 + Vip3A; VIP for Viptera (Cry1Ab + Cry1F + Vip3A); and VYHR for Intrasect + Vip3A. Please refer to column of "Bt designation" in Table 1 for Bt trait packages in each hybrid.

Flowering time of all entries was between 58 and 63 days after their planting (on April 8, 2024). In comparison to 2023 (55-63 days after planting), the flowering time after planting is similar between 2023 and 2024. The data from 2023 was used for multiple year performance assessment in Table 1. Overall insect damage on corn ears in 2024 was not high on the UGA-Gibbs Research Farm when compared to the observed damage recorded in 2023. The six types of ear- and/or kernel-feeding insects in order of damage severity were: corn earworm and fall armyworm, stink bugs, the pink scavenger caterpillar, maize weevil, and sap beetles. Corn earworm and fall armyworm damage was measured by the length (cm) of feeding damage penetrated from the tip of the ear toward the base. Feeding penetration by natural infestation of these lepidopteran pests (from the means of the five sampled ears per plot) was between 0.15 and 3.25 cm per ear, which was less than the damage observed in 2023 (0.3- 5.63). Kernel-feeding insect damage was assessed by percentage (%) of damaged kernels per ear. The number of kernels per ear were estimated by multiplying the number of kernels per row by the number of rows from a representative ear for each plot. Because of individual kernel feeding insect damage was relatively low, maize weevil, stink bug, sap beetle, and pink scavenger caterpillar damage was combined, which was ranged between 0.15-3.58% of the damaged kernels in 2024. The data related to insect damage were subjected to the principal component analysis using percentage of damaged kernels and three traits related to corn earworm and fall armyworm damage, that is, husk tightness and extension, and pest penetration on corn cobs. During the

field season of 2024, corn rootworm and corn borer damage was not detected at the Tifton trial.

Because corn husk tightness and extension are considered important traits for ear- and kernel-feeding insect resistance, the husk features of the sampled ears were examined. Husk tightness was assigned using a scale of 1 to 5, in which 1 = very loose and 5 = very tight. Average ratings for husk tightness were between low and medium (< 4, between 1.1 and 3.8). Husk extension ranged from 1.8 to 6.3 cm. Husk tightness was negatively correlated to both ear-feeding ( $r = -0.45$ ,  $P < 0.0001$ ,  $n = 232$ ) and kernel feeding insect damage ( $r = -0.31$ ,  $P < 0.0001$ ,  $n = 232$ ). Also, husk extension only positively correlated to ear-feeding insect ( $r = 0.30$ ,  $P < 0.0001$ ,  $n = 232$ ) but not to kernel-feeding insect damage ( $r = -0.02$ ,  $P = 0.75$ ,  $n = 232$ ). The ear-feeding insect damage on cob was positively correlated to the combined kernel-feeding insect damage ( $P = 0.11$ ). The findings demonstrated that husk features are not consistently correlated to insect damage, and varied among years, which might be influenced by environmental conditions. Multiple insect resistance was categorized in four groups according to the insect damage ratings on corn cobs and kernels; they are very good (VG), good (G), fair (F), and poor (P). VG represents the least amount of insect damage, while P represents the greatest amount of insect damage. The rankings of all hybrids for multiple insect resistance were based on the results of a principal component analysis using husk tightness and extension along with ear damage (by corn earworm and fall armyworm penetration) and kernel damage (percentage of kernels damaged by stink bugs, pink scavenger caterpillar, maize weevil, and sap beetles) as summarized in Table 1. Data in this report are not indicative to yield. Yield data are available on the UGA Statewide Variety Testing webpage found at: [www.swvt.uga.edu](http://www.swvt.uga.edu).

Hybrids resistant to multiple insects are highly recommended for planting and are one of the most economical insect management strategies, especially in late plantings. Increased insect damage can lead to yield loss, as well as quality loss related to ear rot and aflatoxin contamination. Consult with your local county agent and/or extension entomologist for additional control recommendations for a specific pest in your area.

The trial was planted on the University of Georgia Gibbs Research Farm near Tifton, GA on April 8th and harvested between August 7, 2024 when kernel moisture was 19%. Experimental plots were thinned to 20,000 plants per acre and maintained following local extension publication-recommended agronomic practices. This trial was managed and data collection was performed by Penny Tapp (USDA-ARS, Tifton), John Branch and Annalyn Burnham (UGA, Tifton).

## Ear-Feeding Insect Resistance in 59 Commercial Corn Hybrids, Tifton, Georgia, 2024

Company or Brand Name	Hybrid Name	Bt Designation <sup>a</sup>	Days to Anthesis <sup>b</sup>	Husk Extensio n (cm) <sup>c</sup>	Husk Tightness Rating <sup>d</sup>	2024	2024	Overall Resistance to Insect Damage <sup>g</sup>	
						FAW + CEW Damage (cm) <sup>e</sup>	Kernel Damage (%) <sup>f</sup>	2024	2 or more years
NK Brand	1402-DV	Duracade Viptera (Agrisure 5222EZ)	60	3.15	3.1	0.3	0.64	VG	
Revere Seed	1839 TC	Trecepta	61	3.3	3.2	1.05	0.75	VG	
INTEGRA	6891 AS3110	Viptera	60	2.93	3	0.93	0.45	VG	VG
Innictis	A1993T	Trecepta	60	3.1	3.05	1.1	0.65	VG	
BH Genetics	BH8705VIP3110	Viptera	61	2.45	2.7	1.15	0.71	VG	VG
BH Genetics	BH8939TRE	Trecepta	60	3.3	3.45	0.9	0.4	VG	
DEKALB	DKC68-35VT2P	VT2Pro	63	3.7	3.05	1.3	0.42	VG	G-
NK Brand	E114C4-DV	Duracade Viptera (Agrisure 5222EZ)	61	2.75	3.4	0.15	0.35	VG	
Pioneer	P3016VYHR	Leptra	62	3.85	3.1	0.35	0.63	VG	
Progeny	PGY2118VT2P	VT2Pro	61	3.8	3.05	1.05	0.55	VG	G
Progeny	PGY2314TRE	Trecepta	60	2.8	3.45	1.6	0.35	VG	
Progeny	PGY9117VT2P	VT2Pro	60	4	2.9	0.35	0.36	VG	G-
SEEDWAY	SW1880TR	Trecepta	61	3.1	2.45	1.1	1.05	VG	
Revere Seed	114-P35	VT2Pro	61	3.85	3.2	0.75	1.24	G	
AgraTech	79VT2P	VT2Pro	62	2.6	3.45	0.9	1.31	G	
AgraTech	807TRE	Trecepta	60	2.1	3.7	0.3	0.73	G	
BH Genetics	BH8412RR	non-Bt	58	3.15	3.3	0.6	1.74	G	
Dyna-Gro	D58TC94	Trecepta	60	2.75	3.75	0.15	0.72	G	VG-
DEKLAB	DKC66-06 TRE	Trecepta	61	3.05	3.05	1.1	1.29	G	G
NK Brand	E11727-B	--	61	2.95	3.6	0.4	1.15	G	
Croplan	5320 SSPRO	SmartStax Pro	62	4.3	3	0.8	1.03	G	
Pioneer	P17677YHR	Intrasect	62	4.27	3.27	0.47	1.37	G	
Progeny	PGY2010TRE	Trecepta	60	1.8	2.9	0.15	0.73	G	G
Progeny	PGY2215TRE	Trecepta	61	3.4	2.6	0.6	1.26	G	G
Progeny	PGY9114VT2P	VT2Pro	58	3.85	2.85	0.5	2.62	G	F
BH Genetics	X23048VT2P	VT2Pro	60	2.4	3.05	0.35	1.12	G	
BH Genetics	X24001TRE	Trecepta	62	4.2	3.15	0.8	1.91	G	
BH Genetics	X24004TRE	Trecepta	62	2.45	3.4	0.6	2.37	G	
Revere Seed	1307 TC	Trecepta	61	3.45	2.5	1.55	0.41	F	
Revere Seed	1627 TC	Trecepta	62	3.95	2.75	1.35	0.65	F	
Croplan	5893	Trecepta	61	4.4	3	1.35	0.66	F	
INTEGRA	6641 SS	SmartStax	59	4.6	3.05	1.4	1.15	F	
INTEGRA	6709 VT2P	VT2Pro	61	4.5	2.5	2.55	1.79	F	F-
INTEGRA	6864R	non-Bt	62	4.25	2.75	2.05	0.83	F	
Innictis	A1542T	Trecepta	60	6.3	2.45	2.05	0.15	F	G-
Innictis	A1551VT2P	VT2Pro	61	4.2	1.1	3.25	1.46	F	F
BH Genetics	BH8420VIP3110	Viptera	59	4.9	2.55	2.45	0.2	F	G
BH Genetics	BH8690VIP3110	Viptera	61	3.9	1.95	1.95	0.96	F	
BH Genetics	BH8721VT2P	VT2Pro	60	3.7	2.55	1.2	0.61	F	F-
Dyna-Gro	D56TC44	Trecepta	60	5.35	2.7	1.8	0.16	F	G-
Dyna-Gro	D58VC65	VT2Pro	61	4.27	2.67	2.13	0.95	F	F-

## Ear-Feeding Insect Resistance in 59 Commercial Corn Hybrids, Tifton, Georgia, 2024 (Continued)

Company or Brand Name	Hybrid Name	Bt Designation <sup>a</sup>	Days to Anthesis <sup>b</sup>	Husk Extensio n (cm) <sup>c</sup>	Husk Tightness Rating <sup>d</sup>	2024		Overall Resistance to Insect Damage <sup>g</sup>	
						FAW + CEW Damage (cm) <sup>e</sup>	2024 Kernel Damage (%) <sup>f</sup>	2024	2 or more years
Pioneer	P1511YHR	Intrasect	62	2.55	2.5	2	1.25	F	
SEEDWAY	SW1579VT	VT2Pro	60	3.2	2.95	2.3	0.62	F	
SEEDWAY	SW1661SS	SmartStax	62	3.75	2.55	1.5	0.83	F	
BH Genetics	X24011DV	Duracade Viptera	60	5.55	2.3	0.25	0.25	F	
BH Genetics	X24015-3220	Viptera	60	6.1	2.35	0.7	0.68	F	
NK Brand	1386-VZ	Viptera Z3	59	5.4	2.4	0.7	2.73	P	
Croplan	5678	SmartStax or VT2P	60	4.65	2.65	1.9	1.62	P	
Croplan	5760	Trecepta	59	4.5	2.15	1.1	1.76	P	
Croplan	5900	--	61	4.5	2.6	0.65	2.07	P	
INTEGRA	6410R	non-Bt	58	3.8	2.6	1.55	1.52	P	P
INTEGRA	6493 VT2P	VT2Pro	62	5.4	2.35	0.55	2.81	P	F-
INTEGRA	6915 TRE	Trecepta	62	4.15	2.6	0.65	0.88	P	
AgraTech	704VT2P	VT2Pro	62	4.65	2.4	1.5	2.41	P	
Innvictis	A1792T	Trecepta	61	4.05	2.5	1.05	1.18	P	
INTEGRA	CX441112PCE	--	62	3.85	2.3	2.15	1.73	P	
DEKALB	DKC70-45VT2P	VT2Pro	62	5.1	2.4	1.35	2.09	P	F-
SEEDWAY	SW1600VT	VT2Pro	59	4	2.4	1.25	3.58	P	
BH Genetics	X24002SSP	SmartStax Pro	62	3.8	2.2	1.8	2.45	P	

a. Bt designation lists the transgenic Bt or non-Bt traits for a given hybrid.

Days to anthesis is the number of days to flowering at Tifton, Georgia in 2024 after all hybrids were planted on April 08, 2024 ( $n = 4$ )

c. Husk Tightness: L = loose husk, M = medium-tight husk, and T = tight husk.

d. Husk extension (cm) was the distance between the tip of husk and the tip of the corn cob measured at harvest.

e. Ear-feeding insect damage denotes the ear penetration (cm) by corn earworm (CEW) and fall armyworm (FAW) feeding with natural infestation.

f. All kernel-feeding insect damage was assessed by percentage (%) of damaged kernels per ear. Kernel-feeding insect damage

g. Categorization of insect resistance to key ear- and kernel-feeding insects was based on principal component analysis results. The data were collected from 20 ears per hybrid (5 ears x 4 replications), where VG = very good, G = good, F = fair, and P = poor. The signs of "+" and "-" denote the fluctuation of damage ratings in recent (two or more) years.

# SORGHUM GRAIN

## Statewide Summary: Sorghum Grain Performance, Georgia, 2024, Dryland

Company or Brand Name	Hybrid	2024 Early Plantings			2023 Early Plantings		
		Griffin	Rome	Average	Griffin	Rome	Average
Sorghum Partners	SP 65M60	<b>96.3</b>	<b>82.1</b>	<b>87.6</b>	.	.	.
Sorghum Partners	SPHF370 DT	83.7	<b>83.1</b>	<b>83.4</b>	.	.	.
Dyna-Gro Seed	M63GB78	<b>85.8</b>	<b>72.6</b>	<b>80.5</b>	24.7	79.8	71.2
Sorghum Partners	SP7715	<b>85.8</b>	70.8	<b>78.2</b>	86.7	66.8	73.5
Dyna-Gro Seed	M62GB36	<b>94.8</b>	58.2	<b>77.4</b>	.	.	.
Dyna-Gro Seed	M60GB31	<b>88.1</b>	62.2	77.0	57.5	75.6	67.5
BH Genetics	BH 4041	80.4	64.9	75.2	<b>119.6</b>	87.9	<b>93.1</b>
BH Genetics	BH 5755	82.1	65.8	74.9	<b>135.8</b>	100.4	<b>98.8</b>
Dyna-Gro Seed	M70GR37	<b>91.1</b>	58.3	73.2	.	.	.
Dyna-Gro Seed	M71GR91	<b>87.4</b>	54.9	72.8	<b>126.6</b>	75.0	<b>90.4</b>
BH Genetics	BH 4220	80.9	60.1	71.0	58.7	87.0	71.2
Dyna-Gro Seed	M72GB71	76.3	63.2	69.9	89.3	84.0	78.1
Dyna-Gro Seed	M67GB87	<b>89.3</b>	51.3	69.8	108.1	77.7	<b>88.5</b>
Pioneer	83P38	70.9	66.1	68.4	.	.	.
Dyna-Gro Seed	M66GR32	<b>85.7</b>	51.4	65.8	.	.	.
Sorghum Partners	SPHF372 DT	66.6	56.6	60.7	.	.	.
Sorghum Partners	SPHF378 DT	67.5	47.0	55.6	.	.	.
Sorghum Partners	SP 65B21 DT	64.6	46.4	55.2	.	.	.
Sorghum Partners	SPSD455	60.4	49.2	54.8	.	.	.
Sorghum Partners	SPHF371 DT	56.8	46.8	51.4	.	.	.
Average		79.7	60.5	68.8	87.3	83.5	68.0
LSD at 10% Level		11.1	10.6	10.5	22.0	NS	10.8
Model R-squared		0.91	0.57	0.53	0.89	0.66	0.53
C.V.		15.1	19.0	23.6	27.3	20.5	35.0

**Bolded** yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.  
Yields calculated as 56 pounds per bushel at 14% moisture.

Note: The 2024 Tifton and Plains tests were lost due to drought, weed pressure, and hurricane Helene.

Sorghum grain tests were planted in spring at Tifton and Plains, but lost due to severe drought stress in June. Multiple areas of fields had dead plants, and the living ones were less than half their normal height. While surviving plants tillered following rainfall in July and began forming new heads, the maturity differences in the grain itself made harvest unfeasible. The growth of grassy weeds had continued during the dry period, and with the reduced sorghum canopy exceeded our herbicide options ability to provide control. Some newer varieties have tolerance to herbicides not typically used in sorghum, and this can be helpful when adverse conditions slow growth of the crop more than growth of weeds. That option is not available in a variety test, since not all varieties are tolerant. For the producer, less reliance on post-directed applications of herbicides can allow narrower row configurations, which can improve sorghum performance under dry conditions. The test at Griffin did better, but still experienced lower than average yields. It displayed the same pattern of tillering observed at Tifton and Plains, but we terminated the plants with glyphosate in order to obtain a consistent harvest from the primary grain heads.

## Griffin, Georgia: Early-Planted Sorghum Grain Performance, 2024, Dryland

Company or Brand Name	Hybrid	Harvest Year		Test Weight lb/bu	50% Bloom <sup>1</sup> days	Plant Height in	Head		Bird Damage <sup>2</sup> %
		2024	2023				Exertion in	Lodging %	
Sorghum Partners	SP 65M60	<b>96.3</b>	.	36.3	62	37	0.1	0	39
Dyna-Gro Seed	M62GB36	<b>94.8</b>	.	53.6	62	37	0.4	0	11
Dyna-Gro Seed	M70GR37	<b>91.1</b>	.	49.8	63	41	0.6	0	16
Dyna-Gro Seed	M67GB87	<b>89.3</b>	108.1	50.3	63	40	0.5	0	10
Dyna-Gro Seed	M60GB31	<b>88.1</b>	57.5	51.1	61	37	0.8	0	11
Dyna-Gro Seed	M71GR91	<b>87.4</b>	<b>126.6</b>	47.0	64	39	0.3	0	14
Dyna-Gro Seed	M63GB78	<b>85.8</b>	24.7	46.4	60	36	0.3	0	16
Sorghum Partners	SP7715	<b>85.8</b>	86.7	50.3	65	38	0.7	0	5
Dyna-Gro Seed	M66GR32	<b>85.7</b>	.	43.1	63	38	0.0	0	14
Sorghum Partners	SPHF370 DT	83.7	.	49.6	61	35	0.2	0	11
BH Genetics	BH 5755	82.1	<b>135.8</b>	51.6	65	39	0.0	0	8
BH Genetics	BH 4220	80.9	58.7	44.7	62	36	0.5	0	9
BH Genetics	BH 4041	80.4	<b>119.6</b>	42.1	62	39	0.8	0	13
Dyna-Gro Seed	M72GB71	76.3	89.3	43.2	65	38	0.5	0	9
Pioneer	83P38	70.9	.	43.5	66	35	0.0	0	8
Sorghum Partners	SPHF378 DT	67.5	.	40.1	61	34	0.0	0	11
Sorghum Partners	SPHF372 DT	66.6	.	40.6	61	36	0.5	0	7
Sorghum Partners	SP 65B21 DT	64.6	.	37.8	60	31	0.0	0	5
Sorghum Partners	SPSD455	60.4	.	30.0	60	38	0.7	0	15
Sorghum Partners	SPHF371 DT	56.8	.	34.7	61	35	0.0	0	6
Average		79.7	87.3	44.3	62	37	0.3	0	12
LSD at 10% Level		11.1	22.0	7.6	1	2	0.4	-	8
Model R-squared		0.91	0.89	0.87	0.86	0.98	0.98	-	0.73
C.V.		15.1	27.3	18.6	1.7	5.4	149.6	-	69.2

1. Days from planting to 50% bloom.

2. Percent of grain head damaged.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

"NS" indicates differences are statistically non-significant ( $p = 0.10$  probability level).

Planted: April 18, 2024.

Harvested: August 15, 2024.

Seeding Rate: 80,000 seeds per acre in 30-inch rows.

Soil Type: Cecil sandy loam.

Previous Crop: Fallow.

Soil Test:  $P_2O_5 = 31$  lbs,  $K_2O = 166$  lbs, and  $pH = 6.2$ .

Fertilization: Preplant: 125 lb N, 250 lb  $P_2O_5$ , and 375 lb  $K_2O$ /acre. Sidedress: 50 lb N/acre.

Tillage: Conventional.

Herbicides: Dual Magnum and Atrazine.

Test conducted by J. Arrington, G. Ware, and S. Brannon.

Severe drought occurred in June, resulting in lower yields, shorter plants, and a reduced range of days to bloom between varieties.

Sorghum aphids were present in higher numbers than the last several years, but did not require spraying.

## Rome, Georgia: Early-Planted Sorghum Grain Performance, 2024, Dryland

Company or Brand Name	Hybrid	Harvest Year		Test Weight lb/bu	50% Bloom <sup>1</sup> days	Plant Height in	Head Exertion in	Lodging %	Bird Damage <sup>2</sup> %
		2024	2023						
Sorghum Partners	SPHF370 DT	<b>83.1</b>	.	41.0	82.7	36	.	0	25
Sorghum Partners	SP 65M60	<b>82.1</b>	.	47.0	86.2	43	.	0	5
Dyna-Gro Seed	M63GB78	<b>72.6</b>	79.8	39.9	88.8	39	.	0	12
Sorghum Partners	SP7715	70.8	66.8	45.3	93.9	39	.	0	6
Pioneer	83P38	66.1	.	39.3	96.3	41	.	0	5
BH Genetics	BH 5755	65.8	100.4	37.7	91.9	43	.	0	15
BH Genetics	BH 4041	64.9	87.9	30.7	87.7	42	.	0	16
Dyna-Gro Seed	M72GB71	63.2	84.0	40.1	88.7	41	.	0	2
Dyna-Gro Seed	M60GB31	62.2	75.6	33.8	89.6	42	.	0	10
BH Genetics	BH 4220	60.1	87.0	35.1	89.8	42	.	0	5
Dyna-Gro Seed	M70GR37	58.3	.	33.0	90.9	40	.	0	8
Dyna-Gro Seed	M62GB36	58.2	.	30.4	91.3	36	.	0	10
Sorghum Partners	SPHF372 DT	56.6	.	25.3	82.1	42	.	0	20
Dyna-Gro Seed	M71GR91	54.9	75.0	33.6	93.3	43	.	0	5
Dyna-Gro Seed	M66GR32	51.4	.	25.7	93.8	41	.	0	5
Dyna-Gro Seed	M67GB87	51.3	77.7	30.5	92.2	42	.	0	5
Sorghum Partners	SPSD455	49.2	.	26.1	90.9	43	.	0	8
Sorghum Partners	SPHF378 DT	47.0	.	22.6	93.9	41	.	0	13
Sorghum Partners	SPHF371 DT	46.8	.	19.2	84.0	38	.	0	15
Sorghum Partners	SP 65B21 DT	46.4	.	21.2	88.7	32	.	0	10
Average		60.5	83.5	32.9	89.8	40	-	0	10
LSD at 10% Level		10.6	NS	8.0	3.4	3	-	-	NS
Model R-squared		0.57	0.66	0.58	0.73	0.75	-	-	0.56
C.V.		19.0	20.5	26.5	4.1	7.8	-	-	96.5

1. Days from planting to 50% bloom.

2. Percent of grain head damaged.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

"NS" indicates differences are statistically non-significant ( $p = 0.10$  probability level).

Planted: April 25, 2024.

Harvested: September 10, 2024.

Seeding Rate: 80,000 seeds per acre in 30-inch rows.

Soil Type: Wax loam.

Previous Crop: Soybeans.

Soil Test:  $P_2O_5 = 61$  lbs,  $K_2O = 341$  lbs, and  $pH = 6.0$ .

Fertilization: Preplant: 222 lb N, 32 lb  $P_2O_5$ , and 30 lb  $K_2O$ /acre. Sidedress: 0 lb N/acre.

Tillage: Conventional.

Herbicides: Dual Magnum and atrazine.

Test conducted by J. Arrington, G. Ware, M. Tucker, and T. Turnquist.

## Statewide Yield Summary: Sorghum Silage Performance, Georgia, 2021-2024

Company or Brand Name	Hybrid or Variety Name	Days to Boot Stage	Griffin Yield				Tifton Yield			
			2024	2023	2022	2021	2024	2023	2022	2021
----- dry tons/acre -----										
Dyna-Gro Seed	Danny Boy II BMR	.	<b>9.99</b>	7.22	.	.	5.44	<b>9.66</b>	.	.
Dyna-Gro Seed	Dynagraze II	62	4.94	3.17	.	.	1.98	8.01	.	.
Dyna-Gro Seed	Dynagraze II BMR	64	5.77	3.81	.	.	3.01	6.96	.	.
Dyna-Gro Seed	F74FS23 BMR	77	6.32	5.09	5.60	5.44	4.32	6.01	4.72	6.19
Dyna-Gro Seed	F74FS72 BMR	81	4.99	5.93	3.28	.	4.23	5.24	5.62	.
Dyna-Gro Seed	Fullgraze II BMR	90	7.19	7.58	.	.	4.03	7.96	.	.
Dyna-Gro Seed	FX24067	66	7.14	.	.	.	2.95	.	.	.
Dyna-Gro Seed	M66GR32	63	3.55	.	.	.	2.07	.	.	.
Dyna-Gro Seed	M70GR37	63	2.99	.	.	.	2.01	.	.	.
Dyna-Gro Seed	Super Sile 20	83	6.62	6.51	<b>8.71</b>	7.95	<b>6.00</b>	8.22	<b>6.02</b>	8.75
Dyna-Gro Seed	Super Sile 30	80	5.58	6.10	5.63	6.63	5.20	8.47	<b>6.23</b>	7.50
Pioneer	859F	73	5.61	.	.	.	4.47	.	.	.
Sorghum Partners	SP2606 BMR	69	4.21	4.83	.	.	2.52	6.63	.	.
Sorghum Partners	SP2707 DT	79	4.07	.	.	.	3.36	.	.	.
Sorghum Partners	SS304	86	7.50	6.38	6.86	<b>9.25</b>	<b>6.40</b>	8.25	<b>6.49</b>	<b>10.48</b>
Sorghum Partners	SS405	85	5.67	.	.	.	3.35	.	.	.
Average		75	5.76	5.92	5.62	6.94	3.83	7.30	5.44	6.45
LSD at 10% Level		3	1.34	0.77	0.87	1.01	0.63	0.60	0.69	0.78
Model R-squared		0.99	0.93	0.86	0.80	0.96	0.90	0.98	0.60	0.98
C.V.		3.52	20.56	12.2	14.4	13.3	15.5	7.58	11.7	11

Note: Days to boot stage will fluctuate depending on temperatures.

## Tifton, Georgia: Sorghum Silage Performance, 2024, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvested Yield			Growth Stage	Plant	
		Dry ----- tons/acre -----	Green <sup>1</sup> -----	Moisture %		Height in	Lodging %
Sorghum Partners	SS304	<b>6.40</b>	<b>18.30</b>	73.8	Soft dough	108	47
Dyna-Gro Seed	Super Sile 20	<b>6.00</b>	<b>17.15</b>	73.4	Soft dough	111	18
Dyna-Gro Seed	Danny Boy II BMR	5.44	15.54	77.0	Vegetative	106	92
Dyna-Gro Seed	Super Sile 30	5.20	14.86	70.9	Soft dough	81	2
Pioneer	859F	4.47	12.77	74.0	Hard dough	86	33
Dyna-Gro Seed	F74FS23 BMR	4.32	12.36	75.4	Soft dough	92	58
Dyna-Gro Seed	F74FS72 BMR	4.23	12.09	73.1	Soft dough	58	0
Dyna-Gro Seed	Fullgraze II BMR	4.03	11.52	75.4	Flowering	117	80
Sorghum Partners	SP2707 DT	3.36	9.59	72.9	Flowering	47	0
Sorghum Partners	SS405	3.35	9.56	77.2	Soft dough	121	88
Dyna-Gro Seed	Dynagraze II BMR	3.01	8.60	66.7	Hard dough	89	90
Dyna-Gro Seed	FX24067	2.95	8.43	76.9	Vegetative	94	22
Sorghum Partners	SP2606 BMR	2.52	7.20	76.4	Hard dough	61	23
Dyna-Gro Seed	M66GR32	2.07	5.92	71.9	Hard dough	45	17
Dyna-Gro Seed	M70GR37	2.01	5.75	70.5	Hard dough	44	0
Dyna-Gro Seed	Dynagraze II	1.98	5.67	70.2	Hard dough	91	63
Average		3.83	10.96	73.5	-	84	40
LSD at 10% Level		0.63	1.81	0.6	-	8	17
Model R-squared		0.90	0.90	0.99	-	0.95	0.88
C.V.		15.5	15.5	0.8	-	9.0	41.2

1. Green yields are standardized to 65% moisture.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 9, 2024.

Harvested: August 8, 2024. Accumulated 3,225 GDD units.  $50 \leq \text{Temp} \leq 100$  °F

Seeding Rate: 80,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

Previous Crop: Fallow.

Soil Test:  $P_2O_5 = 37$  lbs,  $K_2O = 75$  lbs, and  $pH = 6.6$ .

Fertilization: Preplant: 40 lb N, 10 lb S, 70 lb  $P_2O_5$ , and 130 lb  $K_2O$ /acre.

Sidedress: 100 lb N and 5 lb S/acre.

Tillage: Conventional.

Herbicides: Dual Magnum.

Rainfall: 22.1 inches.

Test conducted by M. Cofield, D. Dunn, and W. Mosteller.

## Griffin, Georgia: Sorghum Silage Performance, 2024, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvest Yield								
		Dry ---- tons/acre ----	Green <sup>1</sup> ----	Moisture %	Timing days	Height GDUs	Lodging in	%	Boot Stage days	GDUs
Dyna-Gro Seed	Danny Boy II BMR	<b>9.99</b>	<b>28.54</b>	75.1	139	3,547	131	0	.	.
Sorghum Partners	SS304	7.50	21.44	68.7	139	3,547	110	0	86	2,076
Dyna-Gro Seed	Fullgraze II BMR	7.19	20.54	66.4	139	3,547	122	0	90	2,183
Dyna-Gro Seed	FX24067	7.14	20.39	72.7	139	3,547	128	0	66	1,480
Dyna-Gro Seed	Super Sile 20	6.62	18.92	65.9	139	3,547	102	0	83	1,989
Dyna-Gro Seed	F74FS23 BMR	6.32	18.07	69.8	139	3,547	88	0	77	1,802
Dyna-Gro Seed	Dynagraze II BMR	5.77	16.49	65.0	139	3,547	103	0	64	1,404
Sorghum Partners	SS405	5.67	16.19	68.0	139	3,547	120	0	85	2,035
Pioneer	859F	5.61	16.02	67.9	139	3,547	92	0	73	1,704
Dyna-Gro Seed	Super Sile 30	5.58	15.95	67.1	139	3,547	89	0	80	1,915
Dyna-Gro Seed	F74FS72 BMR	4.99	14.26	64.0	139	3,547	61	0	81	1,934
Dyna-Gro Seed	Dynagraze II	4.94	14.12	66.2	139	3,547	88	0	62	1,358
Sorghum Partners	SP2606 BMR	4.21	12.03	66.7	139	3,547	62	0	69	1,563
Sorghum Partners	SP2707 DT	4.07	11.62	62.1	139	3,547	52	0	79	1,886
Dyna-Gro Seed	M66GR32	3.55	10.15	67.9	139	3,547	41	0	63	1,386
Dyna-Gro Seed	M70GR37	2.99	8.56	63.3	139	3,547	42	0	63	1,373
Average		5.76	16.45	67.3	139	3,547	89	0	75	1,740
LSD at 10% Level		1.34	3.82	2.1	-	-	7	-	3	89
Model R-squared		0.93	0.93	0.96	-	-	0.97	-	0.99	0.99
C.V.		20.56	20.56	2.69	-	-	7.77	-	3.52	4.54

1. Green yields are standardized to 65% moisture.

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 17, 2024.

Harvested: September 3, 2024. GDU model is  $50 \leq \text{Temp} \leq 100$  °F.

Seeding Rate: 80,000 seeds per acre in 30-inch rows.

Soil Type: Appling sandy loam.

Previous Crop: Soybean.

Soil Test:  $P_2O_5 = 47$  lbs,  $K_2O = 292$  lbs, and  $pH = 6.3$ .

Fertilization: Preplant: 125 lb N, 250 lb  $P_2O_5$ , and 375 lb  $K_2O$ /acre. Sidedress: 50 lb N/acre.

Tillage: Conventional.

Herbicides: Dual Magnum and Atrazine.

Rainfall: 18.7 inches.

Equipment problems and repairs led to delays in harvest. Due to the decline in forage quality at an advanced age, a nutritional analysis is not provided in this year's report. Most hybrids were at soft or hard dough, and leaves had dried.

Sugarcane aphids were not a problem, and no insecticides were applied to the plants.

Test conducted by J. Arrington, G. Ware, and S. Brannon.

**Tifton, Georgia:  
Summer Annual Forage Performance, 2024, Dryland**

Company or Brand Name	Hybrid or Variety Name	Harvest Date		Season Total
		7/3/2024	8/27/2024	
		----- dry tons/acre -----		
Dyna-Gro Seed	Danny Boy II BMR	4.42	3.52	7.60
Dyna-Gro Seed	Dynagraze II	4.80	4.63	9.61
Dyna-Gro Seed	Dynagraze II BMR	5.00	4.15	9.38
Dyna-Gro Seed	Fullgraze II BMR	4.44	4.16	8.46
Dyna-Gro Seed	FX24067	3.96	3.84	7.86
Average		4.52	4.06	8.58
LSD at 10% Level		NS	NS	NS
Model R-squared		0.48	0.69	0.51
C.V.		15.9	12.8	15.5

**Bolded** yields are statistically non-significant ( $p = 0.10$  level) from the highest yielding test entry.

Planted: April 9, 2024.

Harvested: 2,129 (July 3) and 3,793 (Aug 27) GDD units after planting.  $50 \leq \text{Temp} \leq 100$  °F

Seeding Rate: 100,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

Previous Crop: Fallow.

Soil Test:  $P_2O_5 = 37$  lbs,  $K_2O = 75$  lbs, and  $pH = 6.6$ .

Fertilization: Preplant: 40 lb N, 10 lb S, 70 lb  $P_2O_5$ , and 130 lb  $K_2O$ /acre.

Sidedress: 100 lb N and 5 lb S/acre.

Tillage: Conventional.

Herbicides: Dual Magnum.

Rainfall: 22.1 inches.

Test conducted by M. Cofield, D. Dunn, and W. Mosteller.

# Evaluation of Insect, Disease, and Bird Damage in Grain, Silage and Forage Sorghum Hybrids in 2024

Xinzhi Ni, Daniel J. Mailhot, Karen R. Harris-Shultz, Joseph E. Knoll, Osariyekemwen Uyi, Michael D. Toews, Dustin Dunn, and G. David Buntin

## Basic field plot information:

The commercial hybrids of grain, silage and forage sorghum were evaluated at Tifton, GA to identify the best performing hybrids. For the silage and forage trials, the plots were planted as 20-foot, four-row plots in a randomized complete block design with three replications, while the grain sorghum trial was planted with a similar design of two-row plots with four replications. In contrast to the previous growing season, the 2024 season had very low sorghum aphid infestations in all trials, possibly due to frequent rainfalls. While silage and forage sorghum trials were planted on April 9, 2024, the grain trial was planted on June 3, 2024. The forage trial was evaluated prior to the two harvests on July 1, and August 13, 2024, respectively. The silage trial was evaluated on July 29, 2024, before the harvest. The grain sorghum trial was evaluated for anthracnose and corn leaf aphid on July 16, 2024, before flowering. Sorghum aphid damage was rated on August 12, and panicle feeding insect and bird damage were evaluated before harvest on September 20, 2024. A total of ten insect pests were observed throughout the 2024 field season. Foliar-feeding insects included fall armyworm, sorghum aphid (*Melanaphis sorghi*, also known as sugarcane aphid), corn leaf aphid, and chinch bug at the seedling stage. Panicle/kernel-feeding insects included sorghum headworm complex (corn earworm and sorghum webworm), stink bugs (southern green and brown stink bugs), sorghum midge, and leaf-footed bug after flowering. Although the infestations of some insect pests (such as foliar-feeding fall armyworm and chinch bug, and kernel-feeding sorghum midge, stink bugs, and leaf-footed bug) occurred in 2024, they were not included in this report because their very low infestations caused minimal damage. For sorghum diseases, only anthracnose infection was evaluated. Bird damage on grain sorghum was also evaluated. The main bird species has been identified previously as brown-headed cowbird.

## Rating scales used for hybrid evaluations:

In all trials, sorghum growth stage was assessed using a scale of 0-9 based on the publication S3 by the Kansas-State Research and Extension Service (<https://bookstore.ksre.ksu.edu/pubs/MF3234.pdf>). Lodging percentage was estimated on the silage and forage sorghum trials. The number of sorghum aphids was estimated by averaging the number of aphids on 6 mid-canopy leaves (or top and bottom green leaves of three randomly sampled plants) per plot. The number of aphids per leaf was estimated using the following scale: 0=no aphid, and then estimated as 1 =1-25 aphids, 2 =26-50, 3 =51-100, 4 =101-500, 5 =501-1000, and 6 =over 1000 aphids. Aphid damage on plants was rated using a 1-9 scale. The scale of 1-9 is described as follows; 1 = no damage, 2 = 1-20%, 3 = 21-30%, 4 = 31-40%, 5 = 41-50%, 6 = 51-60%, 7 = 61-70%, 8 = 71-80%, and 9 = greater than 81% of the leaves are dying, which also included aphid-killed plants. However, in grain sorghum, sorghum aphid infestation was limited, but corn leaf aphid infestation and damage on whorl tissue was prevalent. Corn leaf aphid damage on sorghum plants was assessed at pre-flowering, using a binary rating scale, 0 = no infestation; and 1 = whorl tissue of sorghum plants was colonized with corn leaf aphids, and purple leaf discoloration was observed. In addition, headworm, and bird damage were

assessed by the percentage of damaged kernels per panicle for the grain sorghum trial. Severity of anthracnose infection was rated using a 1-5 scale, where 1 = no symptoms, 2 = colored spots on leaves but no sporulation, 3 = some sporulation on lower leaves, 4 = moderate sporulation, 5 = heavy sporulation up to the flag leaf. In addition, bird feeding damage on grain sorghum was visually assessed by percentage of kernel loss per panicle in an experimental plot.

#### **Hybrid ranking criteria:**

The overall hybrid rankings in 2024 were based on principal component analysis results. Hybrids in a trial were designated as Very Good (VG), Good (G), Fair (F), or Poor (P).

#### **Results from grain, silage and forage sorghum trials:**

A total of 21 grain sorghum hybrids (**Table 1**) were evaluated. While low sorghum aphid infestation and minimal sorghum aphid damage was randomly scattered throughout the field, corn leaf aphid infestation was prevalent on whorl tissue at pre-flowering stage in 2024 as shown in Table 1. Thus, the parameters used for grain sorghum evaluation included corn leaf aphid and sorghum aphid damage, headworm and bird damage, as well as anthracnose infection severity. Because minimal root lodging was observed in grain sorghum trial, the data are not included. Four hybrids are ranked VG in 2024; they are 'SPHF371 DT', 'SPHF372 DT', 'M56GR32' and 'M70GR37'. Seven hybrids are ranked G in 2024, two of which ('BH5755' and 'M67GB87') received a VG rating in at least one previous trial (**Table 1**).

For the silage trial, a total of 16 hybrids were evaluated (**Table 2**). Lodging was generally low (less than 7%) except for one hybrid which received a P rating. Because neglectable corn leaf aphid infestation was observed at early planted silage and forage sorghum trials, thus the data on corn leaf aphid infestation are not included in this report. The hybrid ranking was based on the results of the principal component analysis with four parameters (lodging, sorghum aphid number, sorghum aphid damage, and anthracnose severity) as shown in the table. Four of the 21 sorghum hybrid entries are ranked as VG. The four sorghum hybrids are 'Danny Boy II BMR', 'Fullgraze II BMR', 'F74FS23 BMR', and 'Dynagraze II BMR'. 'F74FS23 BMR' has received VG rating previously, whereas the other three were ranked previously as G.

Five forage sorghum hybrids were evaluated as shown in **Table 3**. Lodging was less than 2% for all entries. Although sorghum aphid infestations were greater than in the grain and silage sorghum trials, overall insect and disease damage ratings were relatively low at pre-harvest on both sampling dates (**Table 3**). Four parameters (lodging, sorghum aphid number, sorghum aphid damage, and anthracnose severity) were used in principal component analysis to rank the hybrids in the trial. Two hybrids ('FX24067' and 'Dynagraze II BMR') are ranked VG. Of these two, only 'Dynagraze II BMR' has been evaluated previously, and received a G rating.

Growers should select high-yielding insect- and disease-resistant hybrids, the most economical pest management strategy for sorghum production in our region. Producers should be aware that later plantings generally experience increased insect pest and disease pressure. For further integrated insect management information, please consult with your local County Agents and/or Extension Entomologists.

We appreciate our team members' efforts on completing these trials in 2024. The grain sorghum trial was planted on the Gibbs Research Farm and maintained by Penny Tapp (Crop Genetics and Breeding Research Unit, USDA-ARS), and John Branch and Annalynn Burnham (University of Georgia, Tifton), while silage and forage sorghum trials were planted on the Lang-Rigdon Research Farm, and experimental plots were maintained and harvested by Dustin Dunn, Marcus Cofield, and Wes Mosteller (University of Georgia, Tifton). All data collections were assisted by Penny Tapp and Michael Purvis (Crop Genetics and Breeding Research Unit, USDA-ARS), John Branch and Annalynn Burnham (University of Georgia, Tifton).

**Table 1. Evaluation of 21 Grain Sorghum Hybrids for Resistance to Corn Leaf Aphid, Headworm, Bird and Anthracnose Damage in 2024 at Tifton, Georgia<sup>1</sup>**

Brand	Hybrid	Corn					Hybrid Ranking (2024) <sup>7</sup>	Hybrid Ranking with 2-year Data <sup>8</sup>
		Anthracnose Severity (1-5) <sup>2</sup>	Leaf Aphid Damage (0 or 1) <sup>3</sup>	Sorghum Aphid Damage (0-9) <sup>4</sup>	Headworm Damage (%) <sup>5</sup>	Bird Damage (%) <sup>6</sup>		
Sorghum Partners	SPHF371 DT	1.25	0	1.75	2.5	7.08	VG	
Sorghum Partners	SPHF372 DT	1	0	2	4	5.17	VG	
Dyna-Gro Seed	M56GR32	1.25	0	1	3.08	10	VG	
Dyna-Gro Seed	M70GR37	1	0	1	6.25	10.42	VG	
BH Genetics	BH4220	1	0.5	1.5	3.17	22.09	G	G
BH Genetics	BH5755	1.25	0.25	1	5.5	19	G	VG-
Sorghum Partners	SP65M60	1	0.75	1.5	2.67	14.17	G	
Sorghum Partners	SP7715	1	0.5	1.25	6.67	14.83	G	F
Dyna-Gro Seed	M63GB78	1	0.5	1.5	2.75	20.42	G	G
Dyna-Gro Seed	M67GB87	1	0.25	1	3.92	18.75	G	VG-
Dyna-Gro Seed	M71GR91	1	0.5	1	2.75	11.25	G	F
Sorghum Partners	SPSD455	1.75	0	1	5.25	18.33	F	
Sorghum Partners	SPSX378 DT	1.5	0	1.5	4.84	9.17	F	
Dyna-Gro Seed	M60GB31	1.5	0	1.5	3.84	13.75	F	G-
Dyna-Gro Seed	M72GB71	1.75	0.25	1	3.42	13.75	F	
BH Genetics	BH4041	1.75	0	2.75	8.17	31.25	p	F
Pioneer	83P38	1	0	1.75	9.08	20.83	p	
Sorghum Partners	DP65B21 D1	1.5	0.25	1.25	16.5	20.42	p	
Sorghum Partners	SPHF370 DT	1.25	0	1.25	6.17	27.09	p	
Dyna-Gro Seed	M59GB94	1	0	1	6.17	26.67	p	P
Dyna-Gro Seed	M62GB36	1.25	0.25	1.75	4.08	22.5	p	

1. In 2024, the grain sorghum trial with 21 entries and four replications was planted on June 3, 2024. Headworm and bird damage were assessed prior to harvest on September 20, 2024. Headworm and bird damage were assessed by percentage of lost kernels per panicle. Because low number of corn leaf aphid and sorghum aphid colonies were observed throughout the crop cycle, only aphid damage was assessed for the two aphid species. In addition, because uniform maturity (with ratings of 8 and 9), minimal lodging and sorghum midge damage was observed on September 20, 2024, the data on these parameters were not included in the table.

2. Severity of anthracnose infection was rated on July 16, 2024, using a 1-5 scale with 1 = no damage, and 5 = all leaves were discolored.

3. Corn leaf aphid infestation and damage on whorl tissue was assessed at pre-flowering on July 16, 2024, using a binary rating scale (0 = no infestation, 1 = whorl tissue of sorghum plants was colonized with corn leaf aphids, and purple leaf discoloration was observed).

4. Sorghum aphid infestation and damage was low and assessed on August 12, 2024. The average of sorghum aphid damage rating per plot was evaluated using a scale of 1-9; where 1=no damage, 2=1-20%; 3=21-30%, 4=31-40%, 5=41-50%, 6=51-60%, 7=61-70%, 8=71-80%, and 9=greater than 81% of the leaves are dying, which also included aphid-killed plants.

5. Headworm damage (%) was evaluated at maturity on September 20, 2024. The damage was assessed as the percentage of grain kernel loss caused by headworm feeding on the panicles.

6. Bird damage was assessed by percentage of lost kernels, which occurred mainly at the tip of the panicles.

7. Overall hybrid rating was based on the results of the principal analysis using four parameters (i.e., anthracnose infection severity, corn leaf aphid infestation, and sorghum aphid, headworm, and bird damage) of all 21 hybrids that have been assessed at different time throughout the crop cycle.

8. Hybrid performance rating with 2-year data (2023-2024) to show consistency of hybrid performance through years. The ranking with a "-" sign means the ranking varied from year to year.

**Table 2. Evaluation of 16 Silage Sorghum Hybrids for Resistance to Sorghum Aphid (SA) and Anthracnose in 2024 at Tifton, Georgia<sup>1</sup>**

Brand	Hybrid	Growth Stage <sup>2</sup>	Lodging (%) <sup>3</sup>	Number of Sorghum Aphid <sup>4</sup>	Sorghum Aphid Damage (1-9) <sup>5</sup>	Anthracnose Severity (1-5) <sup>6</sup>	Hybrid Ranking (2024) <sup>7</sup>	Hybrid Ranking with 2-year Data <sup>8</sup>
Dyna-Gro Seed	Danny Boy II	5.0	3.3	8.7	4.8	3.3	VG	G-
Dyna-Gro Seed	Fullgraze II B	4.7	0.0	7.2	2.9	2.3	VG	G-
Dyna-Gro Seed	F74FS23 BM	6.7	0.0	10.2	2.5	1.7	VG	VG-
Dyna-Gro Seed	Dynagraze II	6.3	3.3	17.1	4.2	3.3	VG	G-
Sorghum Partners	SS304	6.7	0.0	16.0	3.3	1.7	G	F
Dyna-Gro Seed	FX24067	4.3	0.0	10.0	3.8	3.0	G	.
Dyna-Gro Seed	F74FS72 BM	6.3	3.3	24.3	3.9	2.7	G	VG-
Dyna-Gro Seed	Super Sile 3C	6.7	1.7	14.5	4.8	4.0	F	F+
Dyna-Gro Seed	M66GR32	7.3	0.0	10.1	3.1	4.7	F	.
Dyna-Gro Seed	M70GR37	8.3	7.0	10.1	4.3	4.3	F	.
Sorghum Partners	SP2606 BMR	7.3	6.7	21.6	3.8	3.7	F	.
Pioneer	859F	7.3	6.7	15.8	3.7	3.0	F	.
Sorghum Partners	SS405	6.0	0.0	17.0	4.8	3.3	P	.
Sorghum Partners	SP2707 DT	5.7	23.3	43.3	4.6	3.3	P	.
Dyna-Gro Seed	Dynagraze II	6.7	6.7	62.7	3.4	3.0	P	P
Dyna-Gro Seed	Super Sile 2C	6.5	3.3	12.9	3.6	3.0	P	.

1. In 2024, the silage sorghum trial consisted of 16 sorghum hybrids with four replications was planted on April 9, 2024. The number of the sorghum aphids (SA) were estimated on the top and bottom green leaves of three randomly sampled plants per plot. In addition, growth stage, lodging, aphid damage, and anthracnose infection were assessed per plot prior to harvest on July 29, 2024. Because only a few sugarcane aphids were recorded in this trial, the number of alates and apterae on top and bottom of the sampled plants were combined for statistical analysis.

2. Growth stage was assessed using a scale of 0-9 based on the publication S3 by the K-State Research and Extension Service.

3. Lodging data were the percentage of plants that were mainly root lodged in the silage trial plots.

4. The number of winged and wingless sorghum aphids were combined using the data collected on top and bottom green leaves from three randomly sampled plants per plot. The number of the winged sugarcane aphids were counted, while the number of wingless sugarcane aphids was sampled on each sampled leaf. The estimate of the wingless aphids using the scale of 0=no aphid, and then estimated as 1=1-25 aphids, 2=26-50, 3=51-100, 4=101-500, 5=501-1000, and 6=over 1000 aphids. The mean of a scale range was used for calculating the number of aphids presented in the table.

5. The average of sorghum aphid damage rating per plot was evaluated on July 29, 2024 using a scale of 1-9; where 1=no damage, 2=1-20%; 3=21-30%, 4=31-40%, 5=41-50%, 6=51-60%, 7=61-70%, 8=71-80%, and 9=greater than 81% of the leaves are dying, which also included aphid-killed plants.

6. Severity of anthracnose infection was rated using a 1-5 scale with 1= no damage, and 5=all leaves were discolored.

7. The hybrid ranking was based on the results of the principal component analysis using the data of five parameters [i.e., growth stage (or maturity), number of sorghum aphids, sorghum aphid damage, and anthracnose infection] of the 16 silage sorghum hybrids. The rankings are: Very Good (VG), Good (G), Fair (F), and Poor (P).

8. Hybrid performance ranked with over two-year data to show consistency of hybrid performance through years. The ranking with a "+" or "-" sign means the ranking varied from year to year.

**Table 3. Evaluation of 5 Forage Sorghum Hybrids for Resistance to Sorghum Aphid and Anthracnose in 2024 at Tifton, Georgia<sup>1</sup>**

Brand	Hybrid	Growth Stage <sup>2</sup>	Lodging (%) <sup>3</sup>	Anthracnose Severity (1-5) <sup>4</sup>	Number of Sorghum Aphid <sup>5</sup>	Aphid Damage (1-9) <sup>6</sup>	Hybrid Ranking (2024) <sup>7</sup>	Ranking with 2-year Data <sup>8</sup>
Dyna-Gro Seed	FX24067	4.4	0.0	1.9	65.4	1.2	VG	.
Dyna-Gro Seed	Dynagraze II	5.2	0.0	2.6	112.2	1.3	VG	G
Dyna-Gro Seed	Danny Boy II	3.5	1.7	2.5	111.7	1.6	G	G
Dyna-Gro Seed	Fullgraze II B	3.5	1.7	2.2	77.8	1.4	G	G
Dyna-Gro Seed	Dynagraze II	5.8	0.8	2.0	187.5	2.0	P	P+

1. The forage sorghum trial consisted of 5 sorghum hybrids and three replications was planted on April 9, 2024.

The number of sorghum aphid [also known as the sugarcane aphid] on the top and bottom leaves and aphid damage was estimated on three randomly selected plants per plot. In addition, growth stage, lodging and anthracnose damage were also assessed per plot prior to harvest on July 1st and August 13th of 2024, respectively. Sorghum aphid infestations in the two samplings were moderate in 2024 in this trial. The number of winged and wingless aphids on top and bottom leaves of the sampled plants were combined as the number of

2. Growth stage was assessed using a scale of 0-9 based on the publication S3 by the K-State Research and Extension Service.

3. Lodging data were the percentage of plants that were mainly root lodged in forage sorghum trial plots.

4. Severity of anthracnose infection was rated using a 1-5 scale with 1=no damage, and 5=all leaves were discolored.

5. The number of aphids was the mean of from the two sampled (top and bottom) leaves per plant. The aphid data were collected from three randomly sampled plants per plot. The winged and wingless sorghum aphids per sampled leaf were combined for data analysis. The number of the winged sorghum aphids were counted, while the number of wingless sorghum aphids per sampled leaf was estimated. The estimate of the wingless aphids using the scale of 0=no aphid, and then estimated as 1=1-25 aphids, 2=26-50, 3=51-100, 4=101-500, 5=501-1000, and 6=over 1000 aphids. The median of each estimating range was used for calculating number of aphids per sampled

6. The average of sorghum aphid damage rating per plot was evaluated using a scale of 1-9; where 1=no damage, 2=1-20%; 3=21-30%, 4=31-40%, 5=41-50%, 6=51-60%, 7=61-70%, 8=71-80%, and 9=greater than 81% of the leaves are dying, which also included aphid-killed plants.

7. The hybrid ranking was based on the principal component analysis results using the data collected before two harvests in July and August (as described previously), respectively. The rankings are: Very Good (VG), Good (G), Fair (F), and Poor (P).

8. Hybrid performance ranked with over two-year data to show consistency of hybrid performance through years. The ranking with a "+" or "-" sign means the ranking varied from year to year.

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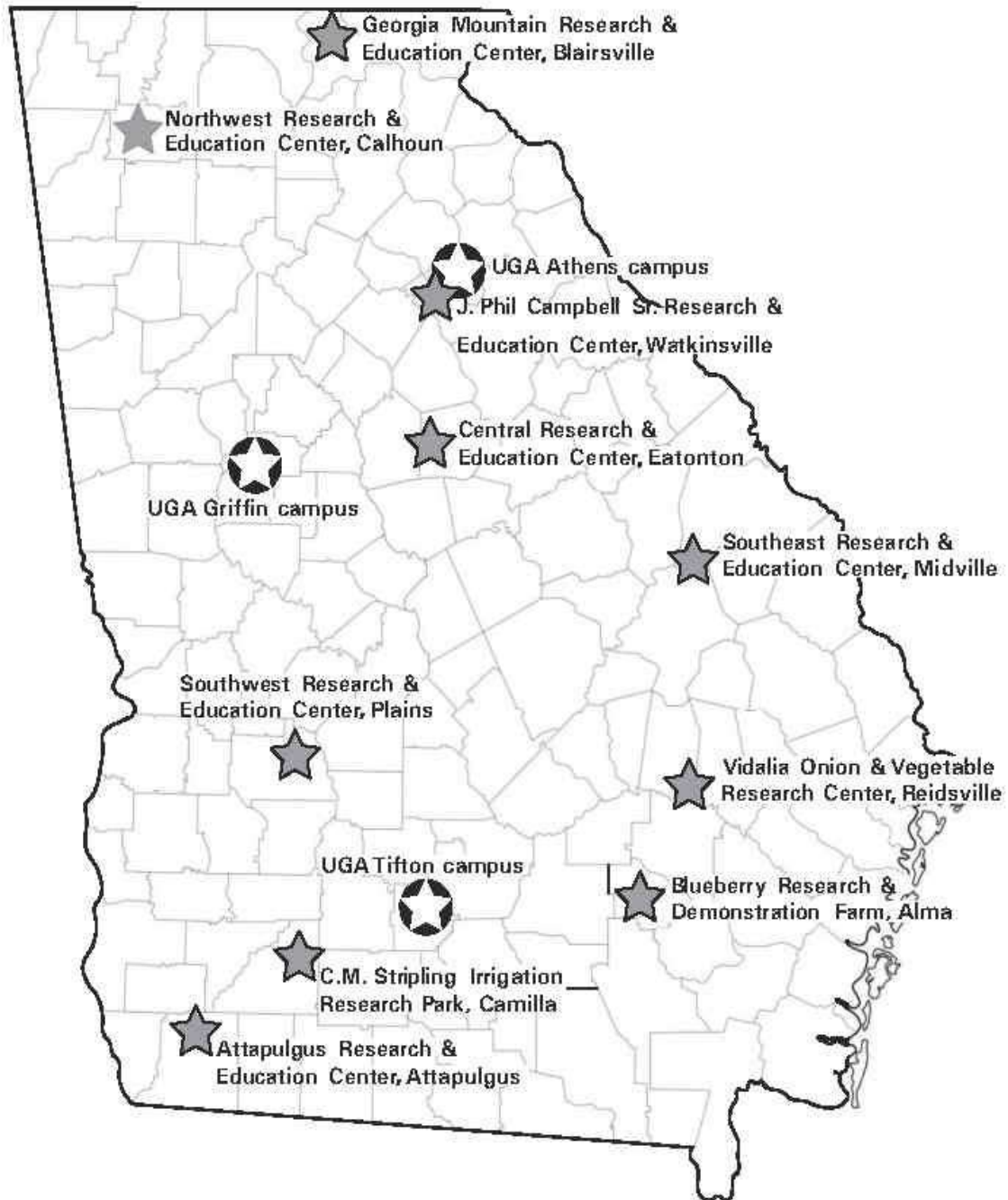
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