

Alabama Cotton Shorts

December 17, 2019



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AU On-Farm Trials – Preliminary Data. Below are preliminary results from the 2019 AU On-Farm Trials. Varieties are sorted by rank based on the 7-Location Average for the North and the 5 Location Average for the South. More data are forthcoming, with additional locations as well as fiber data. A complete report will likely be published by mid- to late-January. (Sandlin, Brown)

AU On-Farm Trials, North										
Lint, lb/A	County									
Variety	Blount	Cherokee 1	Cherokee 2	Franklin	Lawrence	Limestone	Lincoln (TN)	Shelby	7 Loc AVG	8 Loc AVG
DP 1646 B2XF	1,549	1,153	1,219	1,547	1,889	1,142	1,107	720	1,254	1,291
DP 1725 B2XF	1,412	1,108	1,091	1,616	1,899	1,223	1,136	765	1,233	1,281
ST 4550 GLTP	1,655	869	1,137		1,695	1,294	1,187	742	1,226	
NG 5007 B2XF	1,597	1,092	1,121	1,303	1,614	1,175	1,052	713	1,195	1,208
NG 4936 B3XF	1,595	1,096	1,143	1,434	1,703	1,009	1,049	706	1,186	1,217
ST 5471 GLTP	1,607	879	1,134		1,682	1,170	1,140	657	1,181	
DP 1916 B3XF	1,471	1,140	1,063	1,262	1,609	1,355	918	672	1,175	1,186
PHY 400 W3FE	1,633	891	1,245		1,698	965	1,118	665	1,173	
PHY 350 W3FE	1,319	830	1,087		1,622	1,422	1,111	732	1,161	
NG 3994 B3XF	1,450	1,099	1,045	1,110	1,454	1,052	969	660	1,104	1,105
ST 5122 GLT	1,452	864	1,000		1,706	999	1,089	615	1,104	
PHY 480 W3FE	1,219	772	1,022		1,448	1,049	862	677	1,007	
AVERAGE	1,497	983	1,109	1,379	1,668	1,155	1,061	694	1,167	1,215

AU On-Farm Trials, South									
Lint, lb/A	County								
Variety	Covington	Elmore	Henry	Lee	Macon 1	Macon 2	5 Loc AVG	6 Loc AVG	
DP 1646 B2XF	873	539	1,538	1,156	1,251	1,709	1,106	1,178	
ST 5600 B2XF	866	568	1,560	1,190	1,212	1,554	1,078	1,158	
NG 5007 B2XF	842	449	1,414	1,168	1,292	1,462	1,043	1,105	
PHY 400 W3FE	788	537		1,157	1,232	1,480	1,039		
NG 4936 B3XF	820	584	1,520	1,049	1,187	1,458	1,020	1,103	
DP 1851 B3XF	837	552	1,713	1,131	1,130	1,397	1,009	1,127	
PHY 480 W3FE	818	532		1,164	1,106	1,409	1,006		
ST 5471 GLTP	795	627		1,051	1,161	1,383	1,004		
DP 1840 B3XF	847	420	1,596	1,147	1,165	1,426	1,001	1,100	
ST 5818 GLT	869	516		1,119	1,103	1,381	998		
PHY 500 W3FE	941	504		1,028	1,030	1,254	952		
NG 5711 B3XF	793	432	1,776	1,070	1,000	1,455	950	1,088	
AVERAGE	801	522	1,588	1,119	1,156	1,447	1,017	1,123	
			non XF lost						

Auxin Trainings. Below is the schedule for various Auxin Herbicide / Technology Trainings planned for the coming months. (Li)

2020 Auxin Trainings			
Date	County	Time	Location
January			
14	Limestone	1pm	Calhoun Community College Aerospace Building
15	Colbert	10am	Listerhill Credit Union
22	Tuscaloosa	1pm	Tuscaloosa County Extension Office
23	Centre	1pm	Gadsden State Community College
24	Madison	1pm	Alabama A&M University Winfred Thomas Agricultural Research Station
February			
4	Henry	10am	Wiregrass Research and Extension Center
7	Monroe	9:30am	Monroe County Extension Office
13	Cullman	10am	Cullman County Extension Office
17	Covington	5:30pm	Covington County Extension Office
18	Escambia	9:30am	Grace Fellowship
19	Dallas	1pm	Black Belt Research Station
21	Shelby	10am	Harpersville Community Center
March			
10	Autauga	9:30am	Autauga County Extension Office
11	Macon	10am	EV Smith Research and Extension Center
12	Henry	10am	Wiregrass Research and Extension Center
12	Geneva	6pm	Ketchem Restaurant
16	Pike	10am	Cattleman Building

Do RKN Resistant Varieties Require Less N? Below are the results from a trial conducted in three locations in 2019. Varieties were PHY 480 W3FE, which has resistance to root-knot nematode (RKN), and DP 1646 B2XF, an industry standard. Given RKN-resistance, the hypothesis is that such varieties might have a superior root system and thereby more readily take up N. Nematode levels at the outset were unknown. Samples were taken in mid-October concurrent with rainfall that relieved a sustained late season drought. Application of N varied by locations. At Headland, all except the 0-N plots received an at-plant application of 30 lbs N, with the remaining N applied at sidedress. At the other sites, all N was applied shortly after planting.

Overall yields were highest at Headland and comparable for Shorter and Tallassee. At the two locations where root-knot nematode levels were low to moderate, DP 1646 B2XF had superior yield compared to PHY 480 W3FE. Yields of the two varieties were similar at shorter which had high levels of RKN. At Headland, 90 lb/A N was clearly sufficient for maximum yield. Rates responses at the other locations were somewhat scattered. At two locations,

season-end RKN levels were significantly lower following PHY 480 W3FE as compared to DP 1646 B2XF. (Brown)

Do RKN Varieties Require Less N?				
Variety	Headland	Tallassee	Shorter	AVERAGE
DP 1646 B2XF				
0	1,146	1,010	1,148	1,101
30	1,305	1,161	1,188	1,218
60	1,463	1,435	1,210	1,370
90	1,880	1,248	1,228	1,452
120	1,776	1,365	1,232	1,458
150	1,647	1,452	1,285	1,461
PHY 480 W3FE				
0	994	969	1,062	1,008
30	1,190	1,017	1,259	1,155
60	1,439	1,095	1,274	1,269
90	1,587	1,160	1,213	1,320
120	1,553	1,242	1,307	1,367
150	1,515	1,375	1,262	1,384
Variety	Headland	Tallassee	Shorter	AVERAGE
DP 1646 B2XF	1,536	1,279	1,215	1,343
PHY 480 W3FE	1,380	1,143	1,229	1,251
N Rate				
0	1,070	989	1,105	1,055
30	1,247	1,089	1,224	1,187
60	1,451	1,265	1,242	1,319
90	1,734	1,204	1,220	1,386
120	1,665	1,303	1,270	1,413
150	1,581	1,414	1,273	1,423
Average	1,458	1,211	1,222	1,297
RKN #/100 cc				
DP 1646 B2XF	45	250	728	
PHY 480 W3FE	63	0	116	
Reniform #/100 cc				
DP 1646 B2XF	0	0	16	
PHY 480 W3FE	0	0	2	

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About the Alabama Cotton Shorts Newsletter

Alabama Cotton Shorts is a newsletter designed to keep cotton producers in the know. From planting dates to crop inputs—there are many factors to consider. The Alabama Cooperative Extension System is dedicated to providing science- and research-based information, derived from field experience and observations. A team of Extension specialists are working to provide Alabama farmers with timely information throughout the growing and harvest seasons.

By subscribing to the newsletter you will receive pest updates, weed management suggestions, market updates, industry news, and other information. Specialists are making field observations and reporting their findings in hopes of helping producers make more informed choices in the field.

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