



**2017 Alabama On-Farm Corn Hybrid Program  
Irrigated Glyphosate-Tolerant Test  
Test Location: Elmore County  
Farmer Cooperator: Gene Carter  
County Extension Coordinator: Katrina Mitchell  
Regional Extension Agent: Christy Hicks  
Alabama Cooperative Extension System**

Planted: March 30, 2017  
Tillage: No-till  
Previous Crop: Cotton  
Fertilizer applied per acre: 250 lbs N, 120 lbs P<sub>2</sub>O<sub>5</sub>, and 110 lbs K<sub>2</sub>O

Harvested: September 9, 2017  
Plant Population: 30,000/acre  
Soil Types: Wickham silt loam

Corn hybrids were provided by participating seed companies based upon their top two choices for the area and production type. The seed provided was already treated with each company's respective seed treatment(s). The hybrids were planted in two 4-row strips the length of the field in 38-inch rows. The harvested length of the test was 500 feet. No significant lodging was observed. Producers are encouraged to consider several sources of information when making hybrid selections.

Table 1. Elmore County, AL irrigated on-farm corn hybrid performance test.

Hybrid (Advertised Relative Maturity)	Technology Traits <sup>1</sup>	Seed Treatments <sup>2</sup>	Harvest	Yield <sup>3</sup>
			Moisture	
			%	Bu/A
AgriGold 6572 VT2RIB (114 day)	VT2P <sub>RIB</sub> , RR2	A*/P500/V	13.3	230
AgriGold A6711 VT2PRO (118 day)	GENVT2P, RR2	A**/P500/V	13.2	244
DeKalb 68-26 (VT2P) (118 day)	GENVT2P, RR2	A*/P500/V	12.8	245
DeKalb 70-27 (VT2P) (120 day)	GENVT2P, RR2	A*/P500/V/B-3	12.9	254
Dyna-Gro D54DC94 (114 day)	GENDG, VT2P, RR2	A*/P500/V	12.8	223
Dyna-Gro D57VC51 (117 day)	GENVT2P, RR2	A*/P500/V	13.8	256
Pioneer P1197 YHR (111 day)	Optimum Intrasect	PPST/P1250/V	12.3	250
Pioneer P1870 YHR (118 day)	Optimum Intrasect	PPST 250 plus Lumivia	13.3	247
			<b>Test Average:</b>	<b>244</b>

<sup>1</sup> **Technology Traits** with the parentheses represent the target pest species and/or herbicide tolerance of the trait(s). Trait Key: **CB** = corn borers; **CW** = black cutworm; **CEW** = corn earworm; **CRW** = corn rootworm; **FAW** = fall armyworm; **LCB** = lesser cornstalk borer; **GT** = glyphosate tolerance; **LL** = Liberty Link (glufosinate tolerant); **RR2** = Roundup Ready2 Corn; **RIB** = Refuge in Bag containing 5% non-Bt seed; **GENDG** = Genuity DroughtGard (water optimizing technology); **GENVT2P** = Genuity VT Double PRO (CB, CEW, FAW, LCB, RR2); **GENVT3P** = Genuity VT Triple PRO (CB, CEW, CRW, FAW, LCB, RR2); **GENVT3P<sub>RIB</sub>** = Genuity VT Triple PRO RIB Complete (CB, CEW, CRW, FAW, LCB, RR2); **HX1** = Herculex I (CB, FAW, LL); **Optimum Intrasect** = combines HX1, YGCB, RR2 and LL; **VT2P** = VT Double PRO (CB, CEW, FAW, LCB, RR2); **VT2P<sub>RIB</sub>** = VT Double PRO RIB Complete (CB, CEW, FAW, LCB, RR2); **YGCB** = YieldGard CB. Information on Bt proteins and other corn traits can be found in the ACES Corn IPM Guide at <http://www.aces.edu/pubs/docs/I/IPM-0428/IPM-0428.pdf>

<sup>2</sup> **Seed treatment key:** **A\*** = Acceleron seed treatment with fungicides prothioconazole, metalaxyl, and fluoxastrobin; **A\*\*** = Acceleron seed treatment with fungicides ipconazole, metalaxyl, and trifloxystrobin; **B-3** = Acceleron B-300 SAT, a biological growth promoter; **P250, P500, P1250** = insecticide clothianidin (Poncho) at 250, 500 or 1250 rate, respectively; **PPST/P1250/V** = Pioneer Premium Seed Treatment with fungicides fludioxonil, mefenoxam, thiabendazole, azoxystrobin, and ethaboxam, plus Poncho1250, VOTIVO and a biological growth promoter; **PPST 250 plus Lumivia** = Pioneer Premium Seed Treatment 250 with fungicides fludioxonil, mefenoxam, azoxystrobin, and thiabendazole, plus insecticides thiamethoxam (Cruiser) and chlorantraniliprole (DuPont Lumivia), and a biological growth promoter; **V** = *Bacillus firmus I-1582* (VOTIVO), a biological control agent of nematodes. More information on seed treatments can also be found in the ACES Corn IPM Guide at <http://www.aces.edu/pubs/docs/I/IPM-0428/IPM-0428.pdf>

<sup>3</sup> Yield adjusted to 15.5% moisture and an assumed test weight of 56 lbs bu<sup>-1</sup>.

Appreciation is expressed to Gene Carter, the Alabama Wheat and Feed Grain Committee, and the participating seed companies for supporting this test. Trade names are used only to give specific information. The Alabama Cooperative Extension System does not endorse or guarantee any product and does not recommend one product instead of another that might be similar.