



**2017 Alabama On-Farm Corn Hybrid Program
Irrigated Glyphosate-Tolerant Test
Test Location: Perry County
Farmer Cooperator: Jon Nichols
Regional Extension Agent: Rudy Yates
Alabama Cooperative Extension System**

Planted: April 13, 2017
Tillage: Conventional and bedded
Previous Crop: Corn and a wheat cover crop
Fertilizer applied per acre: 1 ton of poultry litter (estimated grade: 3% N, 3% P₂O₅, 2% K₂O per ton) and 120 lbs of K₂O in the fall; 200 lbs of N (50 lbs at planting and 150 lbs at sidedress)

Harvested: September 8, 2017
Seeding Rate: 32,500/acre
Soil Types: Okolona silty clay 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). Each hybrid was planted in two 4-row strips. Row spacing was 30 inches. A fungicide application was applied at ear development. The test received numerous rain events during the season. Irrigation was not applied because of the numerous rain events. One strip was harvested. Harvested row lengths averaged 545 feet. Lodging was observed in each strip but it was not significant between hybrids. Producers are encouraged to consider several sources of information when making hybrid selections.

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

Hybrid (Advertised Relative Maturity)	Technology Traits ²	Seed Treatments ³	Harvest Moisture %	Yield ⁴ Bu/A
AgriGold A6544 VT2RIB (113 day)	VT2P _{RIB} , RR2	A*/P500/V	14.9	193.5
AgriGold A6711 VT2PRO (118 day)	GENVT2P, RR2	A**/P500/V	15.1	197.0
Croplan Genetics 5678 VT2P/RIB (116 day)	VT2P _{RIB} , RR2	A*/P250/Z	15.0	176.2
Croplan Genetics 6640 VT3P/RIB (113 day)	GENVT3P _{RIB} , RR2	A*/P250/Z	14.7	158.2
DeKalb DKC66-59 (VT2P) (116 day)	GENVT2P, RR2	A*/P500/V	15.7	186.4
DeKalb DKC70-27 (VT2P) (120 day)	VT2P, RR2	A*/P500/V/B-3	15.8	170.3
Dyna-Gro D54DC94 (114 day)	GENDG, VT2P, RR2	A*/P500/V	15.2	169.8
Dyna-Gro D57VC51 (117 day)	GENVT2P, RR2	A*/P500/V	16.2	193.1
Pioneer P1197 YHR (111 day)	Optimum Intrasect	PPST/P1250/V	14.2	157.7
Pioneer P1916 YHR (119 day)	Optimum Intrasect	PPST 250 plus Lumivia	16.4	182.3
Steyer 11408 VT2PRORIBC (114 day)	VT2P _{RIB} , RR2	CMX250+F/Wuxal	15.4	199.3
Steyer 11410 VT2PRORIBC (114 day)	VT2P _{RIB} , RR2	CMX250+F/Wuxal	14.1	194.9
			Test Average:	181.6

¹ Field received numerous rain events. Irrigation was not applied.

² **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-*B.t.* 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_{RIB}** = 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_{RIB}** = VT Double PRO RIB Complete (CB, CEW, FAW, LCB, RR2); **YGCB** = YieldGard CB. Information on *B.t.* 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>

³ **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; **CMX250+F/Wuxal** = insecticide thiamethoxam (CruiserMaxx) at 250 rate, plus fungicides fludioxonil, mephenoxam, azoxystrobin, and thiabendazole, and a micronutrient seed treatment (Wuxal); **P250, P500, P1250** = insecticide clothianidin (Poncho) at 250, 500 or 1250 rate, respectively; **PPST/P1250/V** = Pioneer Premium Seed Treatment with fungicides fludioxonil, mephenoxam, thiabendazole, azoxystrobin, and ethaboxam, plus Poncho1250, VOTiVO and a biological growth promoter; **PPST 250 plus Lumivia** = Pioneer Premium Seed Treatment 250 with fungicides fludioxonil, mephenoxam, 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; **Z** = Zinc treatment. 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>

⁴ Yield adjusted to 15.5% moisture and an assumed test weight of 56 lbs bu⁻¹.

Appreciation is expressed to Jon Nichols, 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.