



**2017 Alabama On-Farm Corn Hybrid Program
Dryland Glyphosate-Tolerant Test
Test Location: Hamburg, Perry County
Farmer Cooperator: Gray Cogle
Regional Extension Agent: Rudy Yates
Alabama Cooperative Extension System**

Planted: March 24, 2017
Tillage: Conventional and bedded
Previous Crop: Soybeans
Fertilizer applied per acre: 37.4 lbs of N and 37.4 lbs of P₂O₅ at planting; sidedressed 120 lbs of N and 90 lbs of K₂O; additional 46 lbs of N applied just prior to tasseling

Harvested: August 22, 2017
Seeding Rate: 26,500/acre
Soil Types: Vaiden clay

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 one 8-row strip the length of the field. Row spacing was 30 inches. A fungicide was applied after southern rust was observed in the field. Harvested row lengths averaged 722 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 - Hamburg dryland on-farm corn hybrid performance test.

Hybrid (Advertised Relative Maturity)	Technology Traits ¹	Seed Treatments ²	Harvest	Yield ³
			Moisture	
			%	Bu/A
AgriGold A6572 VT2RIB (114 day)	VT2P _{RIB} , RR2	A/P500/V	16.1	195.2
AgriGold A6619 VT2RIBD1 (114 day)	DG, VT2P _{RIB} , RR2	A/P500/V	15.4	194.9
Croplan Genetics 5678 VT2P/RIB (116 day)	VT2P _{RIB} , RR2	A/P250/Z	15.9	219.9
Croplan Genetics 6640 VT3P/RIB (113 day)	GENVT3P _{RIB} , RR2	A/P250/Z	15.7	191.7
DeKalb DKC65-20 (DGV2P) (115 day)	GENDG, VT2P, RR2	A/P500/V	16.8	201.5
DeKalb DKC67-72 (VT2P) (117 day)	VT2P, RR2	A/P500/V	16.9	213.5
Dyna-Gro D54DC94 (114 day)	GENDG, VT2P, RR2	A/P500/V	16.3	190.4
Dyna-Gro D57VC51 (117 day)	GENVT2P, RR2	A/P500/V	16.9	223.6
Pioneer P1442 YHR (114 day)	Optimum Intrasect	PPST 250 plus Lumivia	15.8	213.4
Pioneer P1662 YHR (116 day)	Optimum Intrasect	PPST 250 plus Lumivia	16.7	206.4
			Test Average:	205.1

¹ **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; **DG** = DroughtGard (water optimizing technology); **GENDG** = Genuity DroughtGard; **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/1/IPM-0428/IPM-0428.pdf>

² **Seed treatment key:** **A** = Acceleron seed treatment with fungicides prothioconazole, metalaxyl, and fluoxastrobin; **P250, P500** = insecticide clothianidin (Poncho) at 250 or 500 rate, respectively; **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; **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/1/IPM-0428/IPM-0428.pdf>

³ Yield adjusted to 15.5% moisture and an assumed test weight of 56 lbs bu⁻¹.

Appreciation is expressed to Gray Cogle, 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.