



**2017 Alabama On-Farm Corn Hybrid Program
 Dryland Glyphosate-Tolerant Test
 Test Location: Morgan County
 Farmer Cooperator: Ken Holiday
 Extension Specialist: Tyler Sandlin
 Alabama Cooperative Extension System**

Planted: April 10, 2017

Harvested: September 8, 2017

Tillage: No-till

Seeding Rate: 30,000/acre

Previous Crop: Soybeans

Soil Types: Talbott silty clay loam

Fertilizer applied per acre: 80 lbs N, 40 lbs P₂O₅, 125 lbs K₂O at planting; sidedressed 138 lbs N

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 4-row strip. Row spacing was 38 inches. Harvested row lengths were over 500 feet. Lodging was not significant in any hybrids. Producers are encouraged to consider several sources of information when making hybrid selections.

Table 1. Morgan County, AL 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	16.5	241.7
AgriGold A6619 VT2RIBD1 (114 day)	DG, VT2P _{RIB} , RR2	A/P500/V	16.1	173.5
Croplan Genetics 5290 DGVT2P/RIB (112 day)	DG, VT2P _{RIB} , RR2	A/P250/Z	15.9	218.7
Croplan Genetics 5678 VT2P/RIB (116 day)	VT2P _{RIB} , RR2	A/P250/Z	16.4	244.6
DeKalb DKC65-20 (DGVT2P) (115 day)	GENDG, VT2P, RR2	A/P500/V	15.9	222.1
DeKalb DKC67-72 (VT2P) (117 day)	VT2P, RR2	A/P500/V	17.2	235.7
Dyna-Gro D54DC94 (114 day)	DG, VT2P, RR2	A/P250	15.9	202.7
Dyna-Gro D57VP51 (117 day)	GENVT3P, RR2	A/P500/V	16.9	241.5
Pioneer P1637 AM (116 day)	Optimum AcreMax	PPST/P1250/V	15.9	229.8
Pioneer P2089 VYHR (120 day)	Optimum Leptra	PPST/P1250/V	18.1	242.0
			Test Average:	225.2

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; **Agrisure Viptera** (CB, CEW, FAW, GT, LL); **DG** = DroughtGard (water optimizing technology); **GENDG** = Genuity DroughtGard; **GENVT3P** = Genuity VT Triple PRO (CB, CEW, CRW, FAW, LCB, RR2); **HX1** = Herculex I (CB, FAW, LL); **Optimum AcreMax** = combines HX1, YGCB, RR2 and LL, and a refuge hybrid (non-*B.t.* seed); **Optimum Leptra** = combines Agrisure Viptera, 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**, **P1250** = insecticide clothianidin (Poncho) at 250, 500 and 1250 rates, respectively; **PPST** = Pioneer Premium Seed Treatment with fungicides fludioxonil, mephenoxam, azoxystrobin and thiabendazole, plus 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 Ken Holiday, 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.