

# Corn Hybrids for Grain 2012



## Introduction

Corn seed manufacturers participated in the Official Variety Trials (OVT) on LSU AgCenter research stations with 72 varieties. OVT tests were conducted at four stations that included a Commerce silt loam and Sharkey clay at the Northeast Research Station, the Dean Lee Research Station in Alexandria, the Red River Research Station in Bossier City and the Scott Research Center in Winnsboro. The on-farm core block trials were conducted with 19 varieties over 32 trials throughout the corn-growing areas of Louisiana, with parish agents coordinating trial activities. The corn OVT trials were conducted according to LSU AgCenter best management practices. The on-farm core block trials were placed with active corn producers and subjected to the standard production practices for that producer. Several trials suffered from adverse growing conditions, including severe drought. Separate core block trials were conducted for “stacked” varieties – containing both glyphosate tolerance and insect resistance – and “non-stacked” varieties that had glyphosate tolerance only. The data are presented to provide yield results by trial, as well as some trend comparisons from compiled data. As opposed to the OVT research, core block trials are sometimes not replicated in the field, and rigorous statistical analyses are often not possible. However, sufficient trials were conducted across a variety of locations that meaningful and relevant observations can be made that will be useful to Louisiana producers as they make seed-buying decisions. The data provided in this publication should help you make a more informed decision about which varieties will work best for your production area.

## Hybrid Selection

Companies offer multiple varieties for sale to producers for good reason. Corn producers have different soil conditions, irrigation practices and crop rotations than their neighboring growers. Some varieties will tend to perform better than others based on soil type, planting date, weather conditions and location.

Maturity groups are determined genetically; however, the maturity date of a given hybrid depends on the daily temperature mean accumulation (growing degree units – GDU) above 50 degrees F for corn, below which little growth occurs. Louisiana producers can grow early hybrids (100-108 days), mid-season hybrids (109-119 days), and full-season (>120 days) hybrids. Plant height, ear height and stalk strength are all factors that influence corn stands and ultimately yield. Husk coverage is important in wet harvest seasons as loosely shucked hybrids may dry more quickly but tend not to withstand the wetter, humid Louisiana harvest season as well as the thicker, tightly shucked ones. Grain quality can be affected as well as susceptibility to aflatoxin infection. Some hybrids have tolerance to certain diseases such as leaf blights, rust and viruses. For complete information on the characteristics, refer to Extension Publication RS 187, which can be found on the web at [www.lsuagcenter.com/corn](http://www.lsuagcenter.com/corn).

## Planting Rate and Depth

The optimal plant population for corn ranges from 25,000 to 30,000 live plants per acre. Assume 80 percent field emergence if planting early (plant 31,250-37,500 seeds per acre). The lower end of the recommended range should be used when lower yields are expected due to soil type, late planting date, drought-prone area or low fertility. Higher populations should be used on highly productive, deep alluvial soils or irrigated fields where moisture will not be a limiting factor. Seed size and shape are not critical to a good stand, but be sure to use the correct plate and planter for the size purchased. Corn should be planted 1.5-2.0 inches deep. On heavy soils, depth can be increased to 2 inches.

## Fertilization

Proper fertility is critical to optimizing crop yields, particularly in corn. Soil pH should be at least 5.8 for corn production. Nitrogen should be applied according to whether the field is in an alluvial plain such as the delta, and whether it is irrigated or dryland (Table 1). Apply nitrogen in a split application with 50 to 75 percent applied at preplant or at planting and the balance when the corn is 3-12 inches tall. All the nitrogen can be applied preplant or at planting, but this increases the risk of fertilizer burn on seedlings and nitrogen loss from leaching or volatilization. Banding phosphorus will increase its efficiency when the soil pH is very acidic or alkaline, or when soil test phosphorus levels are low. Soil testing is recommended to apply appropriate levels for each field, but in many soils 40-60 pounds of P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O per acre will be needed. Corn utilizes phosphorus and potassium early in its growth cycle, so these nutrients should be applied preplant or at planting. Soil testing is also recommended for determining sulfur and zinc needs. If sulfur is lower than 12 ppm (Mehlich 3) apply at least 10 pounds of sulfur in the sulfate form per acre. If zinc is lower than one ppm, apply 10 pounds of zinc per acre in a soluble form such as zinc sulfate or zinc chelate. Among the inorganic zinc sources on the market, the most common sources are sulfates, oxides and oxysulfates. Zinc sulfate and zinc chelates are essentially 100 percent water soluble, while zinc oxides are essentially insoluble in a single crop season, thus unavailable to the crop to be planted. Oxysulfates are a mixture of sulfates and oxides, with varying proportions of sulfates and oxides, with various solubilities (0.7% to 98.3%). The effectiveness of these can be highly variable, depending on solubility. Low-solubility materials may have some value in a long-term build-up program, but when immediate results are the goal, highly soluble fertilizers are the best choice. For acceptable in-season efficacy, a zinc fertilizer source should be at least 50 percent water-soluble. If soil test zinc is between 1-2.25 ppm, apply five pounds of zinc per acre when broadcasting. Less is needed if using a banded application.

**Table 1. Nitrogen rates for corn in Louisiana based on field conditions.**

Soil	Irrigation	Nitrogen Rate (lbs./acre)
Alluvial	Yes	180-240
Alluvial	No	140-180
Upland	Yes	160-200
Upland	No	120-160

## Planting Date

Corn should be planted as close as possible to the date of the average last spring freeze. The optimal planting window for south Louisiana is Feb. 25-March 20, and for north Louisiana the optimal planting window is generally from March 10-April 1. In most years, April 15 is the last date for maximum yield potential. Extending planting to May 1 can result in a yield reduction of 30 percent or more. Corn younger than V6 (6-leaf stage) can usually withstand a light frost if the temperature does not drop below 30 degrees F. A moderate freeze will burn any existing leaves to the ground, but new leaves can emerge in four to five days with higher temperatures. However, as the growing point moves upward near the soil surface, the possibility of injury increases.

## Evaluating the Data

This report begins with yield data from the Official Variety Trials (OVT) conducted by LSU AgCenter scientists in replicated format that allowed for statistical comparisons. Detailed measurements were made, but this report only displays yield data. For a more complete review of the OVT data, please refer to Extension Publication RS 187 (2011 Corn Hybrid Performance Trials) which can be found on the Web at [www.lsuagcenter.com/corn](http://www.lsuagcenter.com/corn).

For a better understanding of how corn varieties performed in Louisiana, refer to the OVT data first. Choose those varieties that performed well overall and those that performed well in the region that most represents your growing area. Finally, check the on-farm core block data to see if it is consistent with the OVT data for your chosen varieties. By making thorough comparisons across the full range of information available, you improve your chances of choosing varieties that will perform well on your farm.

## OVT Trial Data

**Table 2. Planting dates and irrigation schedule for OVT trials.**

Location	Planting date	Irrigation	Seeding rate (seeds/acre)
St. Joseph – Commerce silt loam	March 19	No irrigation	32,000
St. Joseph – Sharkey clay	March 22	No irrigation	32,000
Winnsboro	March 18	Furrow irrigated	32,000
Alexandria	March 7	No irrigation	32,000
Bossier City	March 23	Furrow irrigated	32,000

**Table 3. Yield performance of hybrids entered in the LSU AgCenter's corn hybrid performance trials, 2011.**

Brand/Hybrid	Alexandria	Bossier City	St. Joseph Commerce	St. Joseph Sharkey	Winnsboro	Average
----- bu/acre -----						
Dekalb DKC 61-06	129	150	156	129	165	<b>146</b>
Dekalb DKC 61-35	143	153	165	126	155	<b>148</b>
Dekalb DKC 61-88	136	149	178	132	172	<b>153</b>
Dekalb DKC 62-09	141	150	169	119	186	<b>153</b>
Dekalb DKC 63-07	123	139	158	126	135	<b>136</b>
Dekalb DKC 64-69	145	151	165	134	165	<b>152</b>
Dekalb DKC 64-83	136	142	168	111	173	<b>146</b>
Dekalb DKC 65-19	145	142	153	113	164	<b>143</b>
Dekalb DKC 66-96	142	143	164	135	205	<b>158</b>
Dekalb DKC 67-21	136	147	177	134	178	<b>154</b>
Dekalb DKC 67-57	135	146	174	139	185	<b>156</b>
Dekalb DKC 67-88	145	152	179	128	150	<b>151</b>
Dekalb DKC 68-05	140	158	161	123	192	<b>155</b>
Dekalb DKC 69-29	147	157	171	128	196	<b>160</b>
Golden Ares GA27V01	147	150	175	112	177	<b>152</b>
Golden Acres GA28V81	121	147	157	118	199	<b>148</b>
Dyna-Gro D51VP40	131	135	163	111	162	<b>140</b>
Dyna-Gro V5373VT3	118	148	162	122	170	<b>144</b>

**Table 3 continued. Yield performance of hybrids entered in the LSU AgCenter's corn hybrid performance trials, 2011.**

Brand/Hybrid	Alexandria	Bossier City	St. Joseph Commerce	St. Joseph Sharkey	Winnsboro	Average
	----- bu/acre -----					
Dyna-Gro 57V59	126	144	155	105	156	<b>137</b>
Dyna-Gro D55VC21	139	147	164	112	174	<b>147</b>
Dyna-Gro D55Q80	120	137	165	119	165	<b>141</b>
Dyna-Gro D56VP69	128	139	178	139	143	<b>145</b>
Dyna-Gro V5683VT3	140	150	170	122	203	<b>157</b>
Dyna-Gro D56VP24	130	156	165	120	179	<b>150</b>
Dyna-Gro D57GT60	119	139	152	115	175	<b>140</b>
Dyna-Gro D58VP30	128	148	159	126	199	<b>152</b>
Dyna-Gro CX11114	130	148	164	134	186	<b>152</b>
Delta Grow 3788GTBT11	121	151	155	116	167	<b>142</b>
Delta Grow 2888GTBTLL	111	138	156	127	176	<b>142</b>
Delta Grow 8188	.	146	161	118	173	<b>150</b>
Delta Grow 8488	.	133	153	107	164	<b>139</b>
Delta Grow 2988	135	136	164	123	167	<b>145</b>
Pioneer P1184HR	133	138	161	122	172	<b>145</b>
Pioneer P1389HR	138	138	156	120	174	<b>145</b>
Pioneer 33F87 (HX1,LL,RR2)	152	137	161	114	170	<b>147</b>
Pioneer P1615HR	145	148	169	121	180	<b>153</b>
Pioneer P1745HR	146	142	181	126	170	<b>153</b>
Pioneer 31P42 (HX1,LL,RR2)	135	138	173	110	179	<b>147</b>
Pioneer P1944HR	125	128	184	106	203	<b>149</b>
Pioneer P2023HR	134	142	173	100	187	<b>147</b>
Pioneer P2088HR	147	137	183	123	176	<b>153</b>
Armor 1161PRO(V)	119	139	161	109	143	<b>134</b>
Armor 1262DPRO	144	132	170	126	155	<b>145</b>
Armor 1415PRO	124	149	165	112	173	<b>145</b>
Armor 1539PRO	131	138	170	114	150	<b>141</b>
Armor 1655PRO	138	148	166	127	197	<b>155</b>
AgriGold A6553VT3	141	166	160	119	174	<b>152</b>
AgriGold A6679VT3Pro	134	129	161	122	160	<b>141</b>
AgriGold A6632VT3Pro	138	149	162	121	166	<b>147</b>
AgriGold A6839VT3Pro	136	126	162	120	187	<b>146</b>
REV 26HR50	146	142	176	124	204	<b>158</b>
REV 25HR39	137	120	168	122	186	<b>147</b>
REV 25HR49	135	141	166	121	183	<b>149</b>
REV 25R19	136	132	156	116	186	<b>145</b>
REV 28HR20	148	142	182	135	180	<b>157</b>
REV 28HR29	147	120	182	99	173	<b>144</b>
REV 28HR30	147	114	178	118	173	<b>146</b>
REV 28R10	148	139	200	118	196	<b>160</b>
REV 27HR52	139	150	178	116	177	<b>152</b>
REV 26HR82	130	138	168	116	165	<b>143</b>
REV 26HR22	133	138	169	106	165	<b>142</b>
REV 27HR32	130	144	181	125	196	<b>155</b>

**Table 3 continued. Yield performance of hybrids entered in the LSU AgCenter's corn hybrid performance trials, 2011.**

Brand/Hybrid	Alexandria	Bossier City	St. Joseph Commerce	St. Joseph Sharkey	Winnsboro	Average
	----- bu/acre -----					
M-Pride MP3152VT3	133	144	166	130	189	<b>152</b>
M-Pride MP3150GT3	118	134	155	109	182	<b>140</b>
M-Pride MP3151GT3CB	120	124	160	111	161	<b>135</b>
M-Pride MP3193VT3Pro	129	142	172	119	159	<b>144</b>
NK N77P-3111 Brand	127	142	163	122	164	<b>144</b>
NK N78N-3111 Brand	146	138	184	134	163	<b>153</b>
NK N78S-3111 Brand	129	147	178	130	170	<b>151</b>
Unity US7416-3000GT	123	122	159	117	165	<b>137</b>
Unity US7514-3000GT	125	130	155	109	154	<b>135</b>
Unity US7516-3000GT	130	125	167	124	167	<b>143</b>
<b>Average</b>	<b>134</b>	<b>141</b>	<b>167</b>	<b>120</b>	<b>174</b>	
<b>CV,%</b>	<b>9</b>	<b>11</b>	<b>7</b>	<b>11</b>	<b>14</b>	
<b>LSD (0.10)</b>	<b>13.7</b>	<b>16.8</b>	<b>12.4</b>	<b>14.2</b>	<b>29.1</b>	

**Table 4. Seed traits for corn hybrids entered in the 2011 LAES corn hybrid performance trials.**

Hybrid	Trans-genes Insect resistance/herbicide tolerance	Seed treatment	Days to maturity
Dekalb DKC 61-06	GENSS	Poncho 250/Votivo	111
Dekalb DKC 61-35	GENVT3P	Poncho 250/Votivo	111
Dekalb DKC 61-88	GENVT3P	Poncho 250/Votivo	111
Dekalb DKC 62-09	GENVT3P	Poncho 250/Votivo	112
Dekalb DKC 63-07	GENVT3P	Poncho 250/Votivo	113
Dekalb DKC 64-69	GENVT3P	Poncho 250/Votivo	114
Dekalb DKC 64-83	GENVT3P	Poncho 250/Votivo	114
Dekalb DKC 65-19	GENVT3P	Poncho 250/Votivo	115
Dekalb DKC 66-96	GENVT3P	Poncho 250/Votivo	116
Dekalb DKC 67-21	GENVT3P	Poncho 250/Votivo	117
Dekalb DKC 67-57	GENVT3P	Poncho 250/Votivo	117
Dekalb DKC 67-88	GENVT3P	Poncho 250/Votivo	117
Dekalb DKC 68-05	GENVT3P	Poncho 250/Votivo	118
Dekalb DKC 69-29	GENVT3P	Poncho 250/Votivo	119
Golden Ares GA27V01	VT3P	Poncho 1250	117
Golden Acres GA28V81	VT3P	Poncho 1250	118
Dyna-Gro D51VP40	GENVT3P	Acceleron	111
Dyna-Gro V5373VT3	VT3	Acceleron	113
Dyna-Gro 57V59	VT3	Acceleron	114
Dyna-Gro D55VC21	GENVT2P	Acceleron	115
Dyna-Gro D55Q80	3000GT	Acceleron	115
Dyna-Gro D56VP69	GENVT3P	Acceleron	116
Dyna-Gro V5683VT3	VT3	Acceleron	116
Dyna-Gro D56VP24	GENVT3P	Acceleron	116
Dyna-Gro D57GT60	GT	Acceleron	117
Dyna-Gro D58VP30	GENVT3P	Acceleron	118
Dyna-Gro CX11114	GENVT3P	Acceleron	114

**Table 4 continued. Seed traits for corn hybrids entered in the 2011 LAES corn hybrid performance trials.**

<b>Hybrid</b>	<b>Trans-genes Insect resistance/herbicide tolerance</b>	<b>Seed treatment</b>	<b>Days to maturity</b>
Delta Grow 3788GTBT11	GT,Bt,LL	Poncho 1250	115
Delta Grow 2888GTBTLL	GT,Bt,LL	Poncho 1250	116
Delta Grow 8188	GT,Bt,LL	Poncho 1250	113
Delta Grow 8488	GT,Bt,LL	Poncho 1250	118
Delta Grow 2988	GT,Bt,LL	Poncho 1250	116
Pioneer P1184HR	HX1,LL,RR2	Cruiser Extreme 250	111
Pioneer P1389HR	HX1,LL,RR2	Cruiser Extreme 250	113
Pioneer 33F87 (HX1,LL,RR2)	HX1,LL,RR2	Cruiser Extreme 250	114
Pioneer P1615HR	HX1,LL,RR2	Cruiser Extreme 250	116
Pioneer P1745HR	HX1,LL,RR2	Cruiser Extreme 250	117
Pioneer 31P42 (HX1,LL,RR2)	HX1,LL,RR2	Cruiser Extreme 250	119
Pioneer P1944HR	HX1,LL,RR2	Cruiser Extreme 250	119
Pioneer P2023HR	HX1,LL,RR2	Cruiser Extreme 250	120
Pioneer P2088HR	HX1,LL,RR2	Cruiser Extreme 250	120
Armor 1161PRO(V)	VT3P	Acceleron	111
Armor 1262DPRO	VT2P	Acceleron	112
Armor 1415PRO	VT3P	Acceleron	114
Armor 1539PRO	VT3P	Acceleron	115
Armor 1655PRO	VT3P	Acceleron	116
AgriGold A6553VT3	VT3	Poncho 500/Votivo	113
AgriGold A6679VT3Pro	VT3P	Poncho 500/Votivo	116
AgriGold A6632VT3Pro	VT3P	Poncho 500/Votivo	115
AgriGold A6839VT3Pro	VT3P	Poncho 500/Vovito	119
REV 26HR50	HX1,LL,RR2	Cruiser 1250	116
REV 25HR39 111	HX1,LL,RR2	Cruiser 1250	115
REV 25HR49	HX1,LL,RR2	Cruiser 1250	115
REV 25R19	RR2	Cruiser 1250	115
REV 28HR20	HX1,LL,RR2	Cruiser 1250	118
REV 28HR29	HX1,LL,RR2	Cruiser 1250	118
REV 28HR30	HX1,LL,RR2	Cruiser 1250	118
REV 28R10	RR2	Cruiser 1250	118
REV 27HR52	HX1,LL,RR2	Cruiser 1250	117
REV 26HR82	HX1,LL,RR2	Cruiser 1250	116
REV 26HR22	HX1,LL,RR2	Cruiser 1250	116
REV 27HR32	HX1,LL,RR2	Cruiser 1250	117
M-Pride MP3152VT3	VT3	Poncho 250	115
M-Pride MP3150GT3	GT3	Acceleron	115
M-Pride MP3151GT3CB	GT,CB,LL	Poncho 250	115
M-Pride MP3193VT3Pro	VT3P	Poncho 250	115
NK N77P-3111 Brand	VIP3A	Cruiser 500	114
NK N78N-3111 Brand	VIP3A	Cruiser 500	113
NK N78S-3111 Brand	VIP3A	Cruiser 500	116
Unity US7416-3000GT	3000GT	Cruiser 250	116
Unity US7514-3000GT	3000GT	Cruiser 250	114
Unity US7516-3000GT	3000GT	Cruiser 250	116

**Table 5. Yield performance of corn hybrids entered in the LSU AgCenter's on-farm core block trials by parish: stacked hybrids, 2011.**

Stacked Hybrids Variety	Avoyelles		Caddo		Caldwell		Concordia		Engelaine		Franklin		Madison		Madison		Morehouse		Ouachita		Pt Coupee		Rapides		Richland		St. Landry		Tensas		W.Carroll		W.Carroll		Average							
	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes						
Dekalb DKC 64-69	138.3	170.4	86.6	160.8	70.0	98.3	120.6	265.7	188.5	211.2	166.2	114.8	219.5	164.4	174.3	215.2	186.3	161.8																								
Dekalb DKC 66-96	147.1	174.5	104.6	172.4	72.7	185.5	109.6	232.2	202.0	197.4	184.3	108.2	212.9	183.3	180.7	190.5	171.0	162.1																								
Dynagro D56VP69	124.7	134.3	95.8	139.1	80.8	92.4	108.7	224.6	159.2	187.9	154.3	96.8	202.0	131.8	161.7	195.6	162.9	144.3																								
Dynagro D58VP30	119.3	156.2	91.4	141.7	59.2	171.2	91.8	231.1	173.6	194.2	181.2	68.0	203.6	103.6	184.8	200.5	155.0	148.6																								
Mpride MP 3150GT3	122.0	149.4	92.8	131.8	60.6	113.6	106.9	211.5	171.2	189.2	155.3	77.9	165.8	154.6	179.0	178.3	148.0	136.9																								
Mpride MP 3152VT3	125.5	139.4	77.3	132.7	77.8	168.3	76.0	227.6	192.8	175.6	157.2	93.4	203.2	175.8	163.8	178.7	158.7	144.7																								
Mpride MP 3193VT3Pro	112.5	156.2	82.5	153.6	77.0	150.2	80.4	219.4	196.6	185.4	161.6	107.5	199.3	123.8	180.0	197.2	182.5	147.1																								
Pioneer P1615HR	100.0	149.7	68.7	157.7	79.9	165.9	102.3	231.2	200.2	216.6	161.7	78.6	220.7	178.8	206.9	215.7	156.5	151.9																								
Pioneer P1745HR	141.4	174.2	78.6	156.5	86.4	119.8	83.7	249.0	179.1	214.7	164.1	86.0	176.0	179.7	184.2	201.4	145.6	154.1																								
Pioneer P2023HR	117.0	146.8	86.3	145.0	59.6	160.7	106.4	261.2	196.6	195.6	180.4	81.0	195.7	168.3	204.5	193.1	186.4	157.9																								
Syngenta NK N77P-3111 Brand	142.6	155.9	93.0	140.2	84.8	140.2	94.2	202.7	188.1	187.2	163.0	104.1	182.2	161.0	187.8	181.2	155.5	150.8																								
Syngenta NK N78N-3111 Brand	121.9	158.3	86.2	159.1	81.8	154.8	86.0	229.5	178.4	197.4	165.3	112.1	192.5	191.1	173.7	177.7	175.6	151.1																								
Terral REV® 26HR50TM	129.7	189.1	112.7	144.4	59.8	188.7	94.1	251.2	212.3	201.8	181.4	95.2	225.5	163.8	191.4	217.0	204.1	163.7																								
Terral REV® 28HR20 TM	140.2	162.3	78.0	150.7	67.8	174.7	102.4	262.3	219.4	230.2	162.9	88.5	223.4	162.9	200.5	227.9	173.4	161.5																								
<b>Average</b>	<b>127.3</b>	<b>158.3</b>	<b>88.2</b>	<b>149.0</b>	<b>72.7</b>	<b>148.9</b>	<b>97.4</b>	<b>235.7</b>	<b>189.9</b>	<b>198.9</b>	<b>167.1</b>	<b>93.7</b>	<b>201.6</b>	<b>160.2</b>	<b>183.8</b>	<b>197.9</b>	<b>168.7</b>	<b>152.6</b>																								



**Table 6. Yield performance of corn hybrids entered in the LSU AgCenter's on-farm core block trials by parish: Non-stacked hybrids, 2011.**

Non-stacked hybrids	Variety	Irrigated		Caddo		Caldwell		Concordia		Evangeline		Madison		Madison		Morehouse		Ouachita		Pointe Coupee		Rapides		St. Landry		W.Carroll		W.Carroll		Average	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
	Dynagro D57GT60	124.5	141.1	66.1	141.1	83.5	74.5	74.5	102.4	195.0	175.4	175.3	159.3	85.9	161.0	184.2	155.7	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6	134.6
	Pioneer P1615R	140.0	178.5	46.2	178.5	79.2	71.7	71.7	91.8	216.5	176.2	195.3	103.7	100.7	181.6	203.3	173.5	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9
	Pioneer P33F85	.	155.9	87.9	155.9	88.9	81.3	81.3	104.2	219.3	178.5	177.8	146.9	89.1	178.3	189.4	157.5	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7
	Terral REV® 28R10TM	.	162.0	79.4	162.0	70.6	69.4	102.6	232.3	173.7	173.7	197.1	136.5	79.7	187.9	207.6	173.1	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0
	Terral REV® 28R30TM	136.1	177.1	.	177.1	72.2	63.0	86.3	226.0	176.9	176.9	198.4	126.5	69.6	182.2	199.0	174.7	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	
<b>Average</b>		<b>133.5</b>	<b>162.9</b>	<b>69.9</b>	<b>162.9</b>	<b>78.9</b>	<b>72.0</b>	<b>97.5</b>	<b>217.8</b>	<b>176.1</b>	<b>176.1</b>	<b>188.8</b>	<b>134.6</b>	<b>85.0</b>	<b>178.2</b>	<b>196.7</b>	<b>166.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	<b>139.9</b>	

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