



**DIVISION OF AGRICULTURE**  
**RESEARCH & EXTENSION**

*University of Arkansas System*

**Cotton Comments**

**Cotton Yield, Quality, and Revenue: 2013 Arkansas Cotton Variety Test**

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Crop revenue accrues to Arkansas cotton producers as a combination of both market returns and payments deriving from marketing loan gains (or loan deficiency payments). At any given price, neither revenue source is predictable due to variability in yields. Information concerning yield potential of the numerous cotton varieties available to producers increases profitability of the Arkansas cotton industry.

The University of Arkansas Cotton Variety Testing Program provides unbiased comparisons of cotton varieties over a range of environments. Trials are conducted at several locations and results indicate adaptability of specific varieties to particular regions of the state. Methodology of the test treats each variety identically with respect to weed and insect control, and no specialized production inputs are utilized for genetically enhanced varieties. Cultural inputs at each location are generally based on University of Arkansas Cooperative Extension Service recommendations for cotton production. Treatments across locations may vary due to localized conditions, but all varieties are treated identically within a location (Bourland et al 2014).

Cotton variety trials conducted in 2013 for this report were at three locations in Arkansas. Test sites included the Judd Hill Cooperative Research Site near Trumann; the Lon Mann Cotton Research Station at Marianna; and the Southeast Branch Experiment Station at Rohwer. Furrow irrigation was applied at each location. Variety trials conducted at the Northeast Research and Extension Center at Keiser were subjected to extremely negative growing conditions in 2013 and are not included in this report.

Cotton is subject to price deductions and premiums based on quality. A complete evaluation of producer income potential from cotton varieties includes fiber properties that increase or decrease lint value from what is determined by yield only. Quality factors for micronaire, staple length, uniformity, and strength are included in the 2013 cotton variety trials. Quality factors reported in the variety trials are applied with premiums and discounts for each fiber property (Falconer and Reeves 2013).

Effective cotton prices for producers include loan deficiency payments (LDP) which vary with the cotton adjusted world price (AWP). Values for LDP are determined by the difference between AWP and the loan rate of \$0.52/lb. established by USDA income support programs (Westcott, Young, and Price 2002). This report calculates revenue by multiplying yield and the U.S. loan rate after adjusting for quality to determine the relative value of cotton varieties. Yield is applied with the U.S. loan rate adjusted for quality to determine the gross lint value of each cotton variety tested.

Cotton breeding and cultivar testing programs usually collect hand-picked boll samples and gin the samples on small, laboratory gins (Bourland, Benson, and Robertson 2000; Bowman 1997). Fiber breakage during ginning is minimized on laboratory gins, and resulting values of fiber length and length uniformity index may be slightly exaggerated relative to commercially ginned cotton. However, variation in measured fiber properties derived from boll samples provides valid comparisons of entries within a test. Color and trash measurements are not attained from these hand-picked boll samples.

Potential costs of production may differ between locations and exact net revenue comparisons are limited to varieties within a test site. Results for Judd Hill in Table 1 show the ranking of the top seven varieties for revenue is identical to the rankings for yield. The number one ranked variety for revenue is PX375001WRF and has a value that is \$118.26 greater than the variety ranked fifth. At Marianna, the ranking of the top four varieties for revenue is identical to the rankings for yield in Table 2. The variety ranked fifth for yield is ranked fourteenth for revenue. The variety having the highest revenue is

PX3122b51WRF with revenue that is \$132.24 greater than the fifth ranked variety. The correlation between revenue rankings and yield rankings is not as consistent at Rohwer in Table 3 as at other locations. Rohwer has greater micronaire discounts than reported at other locations. PX3122b51WRF has the greatest revenue, and it is \$75.12 more than the fifth ranked variety. Across all three locations, revenue rankings for the top ten varieties include varieties that are in the top ten ranking for yield in Table 4. Revenue for the number one revenue variety (PX3122b51WRF) is \$109.16 greater than the fifth ranked variety.

Table 1. Fiber Properties and Revenue - 2013 Results at Judd Hill, AR

Variety	Lint						Strength				Loan		
	Yield lb/ac	r	Mic. <i>¢/lb</i>	Length in <i>¢/lb</i>		Uniform. %	<i>¢/lb</i>	g/tex	<i>¢/lb</i>	Value <i>¢/lb</i>	Rev \$/ac	r	
PX375001WRF	1557	1	4.1	0.15	1.18	1.45	83.3	0.10	32.2	0.30	54.00	840.78	1
PX3122b51WRF	1398	2	3.9	0.15	1.18	1.45	84.7	0.20	31.9	0.30	54.10	756.32	2
PX445022WRF	1368	3	3.9	0.15	1.19	1.45	84.9	0.20	33.3	0.30	54.10	740.09	3
Dyna-Gro 2570 B2RF	1364	4	4.1	0.15	1.15	1.40	84.5	0.20	33.0	0.30	54.05	737.24	4
PX444414WRF	1338	5	3.7	0.15	1.19	1.45	83.7	0.10	32.8	0.30	54.00	722.52	5
Ark 0620 B2RF	1325	6	4.0	0.15	1.14	1.40	84.2	0.20	32.4	0.30	54.05	716.16	6
DP 393	1278	7	4.5	0.00	1.15	1.40	84.7	0.20	32.1	0.30	53.90	688.84	7
PHY 333 WRF	1266	9	4.0	0.15	1.19	1.40	83.8	0.10	31.8	0.30	53.95	683.01	8
CT 13125	1246	11	3.8	0.15	1.19	1.40	83.7	0.10	33.6	0.30	53.95	672.22	9
NG 1511 B2RF	1249	10	4.3	0.00	1.16	1.40	83.7	0.10	33.5	0.30	53.80	671.96	10
PX444413WRF	1277	8	3.4	-1.70	1.25	1.40	84.5	0.20	32.0	0.30	52.20	666.59	11
PX300310WRF	1237	12	4.6	0.00	1.13	1.40	83.8	0.10	33.2	0.30	53.80	665.51	12
12R224B2R2	1223	13	4.1	0.15	1.17	1.40	83.9	0.10	31.8	0.30	53.95	659.81	13
ST 5288 B2RF	1220	15	4.1	0.15	1.13	1.40	82.4	0.05	29.2	0.30	53.90	657.58	14
PHY 339WRF	1218	16	4.1	0.15	1.20	1.40	83.7	0.10	32.7	0.30	53.95	657.11	15
DP 1321 B2RF	1221	14	4.4	0.00	1.16	1.40	83.9	0.10	35.1	0.30	53.80	656.90	16
PHY 367 WRF	1210	17	4.0	0.15	1.18	1.40	84.1	0.20	34.3	0.30	54.05	654.01	17
PX553840WRF	1208	18	3.8	0.15	1.19	1.40	85.0	0.25	32.9	0.30	54.10	653.53	18
Dyna-Gro 2285 B2RF	1197	19	4.1	0.15	1.19	1.40	83.7	0.10	32.0	0.30	53.95	645.78	19
DP 1311 B2RF	1195	20	3.9	0.15	1.16	1.40	82.9	0.05	31.4	0.30	53.90	644.11	20
PX300304WRF	1186	21	4.1	0.15	1.17	1.40	84.1	0.20	33.3	0.30	54.05	641.03	21
PHY 499 WRF	1154	23	4.4	0.00	1.18	1.40	84.6	0.20	34.9	0.30	53.90	622.01	22
DP 0912 B2RF	1145	24	4.3	0.00	1.15	1.40	82.8	0.05	31.9	0.30	53.75	615.44	23
PHY 427 WRF	1123	25	3.9	0.15	1.19	1.40	83.9	0.10	33.8	0.30	53.95	605.86	24
PHY 417 WRF	1161	22	3.4	-1.70	1.15	1.40	83.9	0.10	32.6	0.30	52.10	604.88	25
SGS UA222	1117	26	3.9	0.15	1.20	1.40	84.2	0.20	33.3	0.30	54.05	603.74	26
AM UA48	1116	27	4.4	0.00	1.27	1.40	85.4	0.25	34.8	0.30	53.95	602.08	27
ST 5458 B2RF	1094	28	4.5	0.00	1.18	1.40	84.0	0.20	33.5	0.30	53.90	589.67	28
PHY 375 WRF	1084	29	4.1	0.15	1.15	1.40	84.1	0.20	33.2	0.30	54.05	585.90	29
Dyna-Gro CT 13414	1069	30	4.4	0.00	1.13	1.40	82.9	0.05	31.8	0.30	53.75	574.59	30
FM 1944GLB2	1052	31	4.5	0.00	1.22	1.40	84.3	0.20	30.8	0.30	53.90	567.03	31
ST 4946GLB2	1038	32	4.3	0.00	1.17	1.40	83.9	0.10	33.8	0.30	53.80	558.44	32
Croplan 3787 B2RF	1025	33	4.4	0.00	1.18	1.40	84.3	0.20	32.7	0.30	53.90	552.48	33
12R242B2R2	974	34	4.4	0.00	1.17	1.40	83.5	0.10	32.3	0.30	53.80	524.01	34
NG 5315 B2RF	946	35	4.3	0.00	1.14	1.40	83.6	0.10	33.0	0.30	53.80	508.95	35
Croplan 3428 B2RF	930	36	4.5	0.00	1.16	1.40	83.0	0.10	32.0	0.30	53.80	500.34	36
DP 1044 B2RF	870	37	4.0	0.15	1.13	1.40	82.7	0.05	33.2	0.30	53.90	468.93	37
HQ210CT	865	38	3.9	0.15	1.14	1.40	83.9	0.10	34.9	0.30	53.95	466.67	38
ST 6448GLB2	856	39	3.8	0.15	1.21	1.45	83.1	0.10	31.5	0.30	54.00	462.24	39
DP 1133 B2RF	837	40	4.2	0.15	1.16	1.40	84.1	0.20	35.4	0.30	54.05	452.40	40

Table 2. Fiber Properties and Revenue - 2013 Results at Marianna, AR

Variety	Lint						Loan						
	Yield	r	Mic.	Length		Uniform.	Strength		Value	Rev	r		
	lb/ac		<i>¢/lb</i>	in	<i>¢/lb</i>	%	<i>¢/lb</i>	g/tex	<i>¢/lb</i>	<i>¢/lb</i>	\$/ac		
PX3122b51WRF	1975	1	4.5	0.00	1.18	1.45	84.1	0.20	30.7	0.15	53.80	1,062.55	1
PX375001WRF	1828	2	4.5	0.00	1.19	1.45	84.0	0.20	31.6	0.30	53.95	986.21	2
ST 5288 B2RF	1777	3	4.8	0.00	1.15	1.40	83.1	0.10	29.9	0.10	53.60	952.47	3
PHY 499 WRF	1749	4	4.8	0.00	1.17	1.40	84.1	0.20	33.8	0.30	53.90	942.71	4
PHY 427 WRF	1726	6	4.5	0.00	1.16	1.40	84.0	0.20	32.7	0.30	53.90	930.31	5
PX445022WRF	1725	7	4.5	0.00	1.17	1.40	83.5	0.10	31.4	0.30	53.80	928.05	6
Dyna-Gro 2285 B2RF	1695	8	4.6	0.00	1.18	1.45	84.0	0.20	29.8	0.10	53.75	911.06	7
PX300310WRF	1675	9	4.7	0.00	1.13	1.35	84.2	0.20	31.3	0.30	53.85	901.99	8
PX553840WRF	1668	13	4.4	0.00	1.18	1.40	84.4	0.20	32.2	0.30	53.90	899.05	9
PHY 333 WRF	1670	12	4.4	0.00	1.19	1.40	83.7	0.10	31.0	0.30	53.80	898.46	10
DP 1321 B2RF	1671	11	4.8	0.00	1.15	1.40	82.9	0.05	32.4	0.30	53.75	898.16	11
12R224B2R2	1648	14	4.6	0.00	1.16	1.40	83.0	0.10	29.7	0.30	53.80	886.62	12
SGS UA222	1634	15	4.6	0.00	1.23	1.40	84.4	0.20	32.6	0.30	53.90	880.73	13
DP 0912 B2RF	1728	5	5.2	-2.70	1.11	1.35	82.9	0.05	30.8	0.15	50.85	878.69	14
Dyna-Gro 2570 B2RF	1627	16	4.9	0.00	1.17	1.40	83.6	0.10	32.0	0.30	53.80	875.33	15
PX300304WRF	1622	17	4.5	0.00	1.17	1.40	83.4	0.10	32.5	0.30	53.80	872.64	16
DP 1044 B2RF	1620	18	4.7	0.00	1.15	1.40	83.7	0.10	31.6	0.30	53.80	871.56	17
PHY 339WRF	1603	19	4.6	0.00	1.18	1.40	84.3	0.20	31.6	0.30	53.90	864.02	18
ST 4946GLB2	1672	10	5.2	-2.70	1.16	1.40	83.5	0.10	31.9	0.30	51.10	854.39	19
PHY 375 WRF	1584	20	4.5	0.00	1.16	1.40	83.8	0.10	30.5	0.30	53.80	852.19	20
PHY 367 WRF	1583	21	4.8	0.00	1.15	1.40	83.0	0.10	32.0	0.30	53.80	851.65	21
Ark 0620 B2RF	1576	22	4.7	0.00	1.18	1.40	84.3	0.20	31.1	0.30	53.90	849.46	22
PX444414WRF	1558	23	4.4	0.00	1.21	1.40	85.1	0.25	32.5	0.30	53.95	840.54	23
FM 1944GLB2	1533	24	4.8	0.00	1.19	1.40	83.5	0.10	31.9	0.30	53.80	824.75	24
CT 13125	1532	25	4.3	0.00	1.17	1.40	83.5	0.10	31.2	0.30	53.80	824.22	25
NG 1511 B2RF	1516	26	4.9	0.00	1.16	1.40	83.6	0.10	32.6	0.30	53.80	815.61	26
PHY 417 WRF	1503	28	4.1	0.15	1.14	1.40	83.3	0.10	32.0	0.30	53.95	810.87	27
ST 5458 B2RF	1504	27	4.9	0.00	1.14	1.40	83.7	0.10	32.1	0.30	53.80	809.15	28
DP 1311 B2RF	1465	29	4.3	0.00	1.15	1.40	82.3	0.05	31.3	0.30	53.75	787.44	29
DP 393	1455	30	5.1	-2.70	1.16	1.40	84.7	0.20	31.4	0.30	51.20	744.96	30
PX444413WRF	1308	33	4.0	0.15	1.24	1.40	85.0	0.25	31.2	0.30	54.10	707.63	31
Dyna-Gro CT 13414	1297	34	4.8	0.00	1.17	1.40	84.4	0.20	30.4	0.30	53.90	699.08	32
HQ210CT	1343	31	5.0	-2.70	1.15	1.40	83.9	0.10	33.3	0.30	51.10	686.27	33
DP 1133 B2RF	1264	36	4.7	0.00	1.18	1.40	85.4	0.25	34.2	0.30	53.95	681.93	34
12R242B2R2	1264	37	4.9	0.00	1.14	1.40	83.8	0.10	31.1	0.30	53.80	680.03	35
AM UA48	1319	32	5.1	-2.70	1.32	1.40	86.8	0.30	34.6	0.30	51.30	676.65	36
ST 6448GLB2	1227	38	4.6	0.00	1.22	1.40	83.4	0.10	30.7	0.30	53.80	660.13	37
Croplan 3787 B2RF	1272	35	5.0	-2.70	1.17	1.40	82.2	0.05	31.2	0.30	51.05	649.36	38
Croplan 3428 B2RF	1061	39	4.7	0.00	1.21	1.40	84.2	0.20	31.6	0.30	53.90	571.88	39
NG 5315 B2RF	1044	40	4.7	0.00	1.18	1.40	84.1	0.20	30.8	0.30	53.90	562.72	40

Table 3. Fiber Properties and Revenue - 2013 Results at Rohwer, AR

Variety	Lint				Strength				Loan			r	
	Yield	r	Mic.	Length	Uniform.	Strength	Value	Rev	r				
	lb/ac		<i>¢/lb</i>	in	<i>¢/lb</i>	%	<i>¢/lb</i>	g/tex	<i>¢/lb</i>	<i>¢/lb</i>	\$/ac		
PX3122b51WRF	1961	1	5.0	-2.70	1.19	1.45	83.9	0.10	31.5	0.30	51.15	1,003.05	1
PX444413WRF	1830	4	4.7	0.00	1.23	1.45	83.6	0.10	32.8	0.30	53.85	985.46	2
PHY 333 WRF	1814	6	4.8	0.00	1.20	1.45	83.7	0.10	30.0	0.15	53.70	974.12	3
ST 5288 B2RF	1856	2	5.2	-2.70	1.15	1.40	83.2	0.10	31.0	0.30	51.10	948.42	4
NG 1511 B2RF	1854	3	5.4	-3.85	1.16	1.40	84.4	0.20	34.7	0.30	50.05	927.93	5
PX444414WRF	1706	12	4.6	0.00	1.18	1.45	84.2	0.20	32.1	0.30	53.95	920.39	6
DP 1321 B2RF	1823	5	5.4	-3.85	1.17	1.40	84.8	0.20	33.6	0.30	50.05	912.41	7
PX375001WRF	1765	8	5.2	-2.70	1.19	1.45	84.3	0.20	33.1	0.30	51.25	904.56	8
12R224B2R2	1675	13	4.9	0.00	1.19	1.45	84.6	0.20	31.7	0.30	53.95	903.66	9
ST 4946GLB2	1788	7	5.4	-3.85	1.19	1.45	84.7	0.20	35.0	0.30	50.10	895.79	10
PX445022WRF	1735	10	5.1	-2.70	1.19	1.45	83.8	0.10	33.0	0.30	51.15	887.45	11
PX300310WRF	1762	9	5.3	-3.85	1.13	1.35	83.3	0.10	31.2	0.30	49.90	879.24	12
DP 0912 B2RF	1724	11	5.4	-3.85	1.16	1.45	84.1	0.20	31.6	0.30	50.10	863.72	13
PX300304WRF	1658	14	5.1	-2.70	1.15	1.45	83.1	0.10	32.0	0.30	51.15	848.07	14
PHY 427 WRF	1558	16	4.7	0.00	1.16	1.45	83.2	0.10	33.6	0.30	53.85	838.98	15
Dyna-Gro 2285 B2RF	1550	17	4.9	0.00	1.16	1.45	84.0	0.20	31.0	0.30	53.95	836.23	16
PX553840WRF	1548	18	4.7	0.00	1.22	1.45	85.4	0.25	33.1	0.30	54.00	835.92	17
PHY 417 WRF	1529	20	4.6	0.00	1.16	1.45	83.0	0.10	32.2	0.30	53.85	823.37	18
Ark 0620 B2RF	1536	19	5.0	-2.70	1.18	1.45	83.6	0.10	31.2	0.30	51.15	785.66	19
Dyna-Gro 2570 B2RF	1566	15	5.3	-3.85	1.15	1.45	84.6	0.20	33.1	0.30	50.10	784.57	20
DP 1044 B2RF	1521	21	5.2	-2.70	1.16	1.45	83.3	0.10	32.6	0.30	51.15	777.99	21
DP 393	1505	22	5.4	-3.85	1.15	1.45	84.6	0.20	32.4	0.30	50.10	754.01	22
PHY 339WRF	1449	23	5.2	-2.70	1.18	1.45	84.4	0.20	32.3	0.30	51.25	742.61	23
ST 6448GLB2	1370	27	4.8	0.00	1.23	1.45	84.0	0.20	30.2	0.30	53.95	739.12	24
DP 1311 B2RF	1364	28	4.6	0.00	1.14	1.45	83.0	0.10	30.5	0.30	53.85	734.51	25
CT 13125	1358	30	4.9	0.00	1.20	1.45	84.5	0.20	32.6	0.30	53.95	732.64	26
Dyna-Gro CT 13414	1432	24	5.1	-2.70	1.17	1.45	83.7	0.10	32.2	0.30	51.15	732.47	27
PHY 367 WRF	1427	25	5.0	-2.70	1.17	1.45	84.0	0.20	33.8	0.30	51.25	731.34	28
SGS UA222	1285	33	4.9	0.00	1.22	1.45	83.6	0.10	33.6	0.30	53.85	691.97	29
PHY 499 WRF	1371	26	5.4	-3.85	1.15	1.45	84.3	0.20	36.0	0.30	50.10	686.87	30
ST 5458 B2RF	1361	29	5.5	-3.85	1.18	1.45	83.8	0.10	32.2	0.30	50.00	680.50	31
FM 1944GLB2	1302	31	5.1	-2.70	1.22	1.45	83.9	0.10	32.6	0.30	51.15	665.97	32
12R242B2R2	1294	32	5.2	-2.70	1.17	1.45	84.0	0.20	32.0	0.30	51.25	663.18	33
Croplan 3787 B2RF	1234	34	5.1	-2.70	1.23	1.45	85.7	0.25	32.2	0.30	51.30	633.04	34
PHY 375 WRF	1219	35	5.0	-2.70	1.17	1.45	83.1	0.10	31.2	0.30	51.15	623.52	35
NG 5315 B2RF	1113	36	5.1	-2.70	1.17	1.45	84.5	0.20	32.1	0.30	51.25	570.41	36
Croplan 3428 B2RF	1112	37	5.2	-2.70	1.22	1.45	84.8	0.20	32.2	0.30	51.25	569.90	37
DP 1133 B2RF	1033	38	5.1	-2.70	1.22	1.45	84.9	0.20	34.5	0.30	51.25	529.41	38
HQ210CT	1026	39	5.5	-3.85	1.18	1.45	83.6	0.10	33.4	0.30	50.00	513.00	39
AM UA48	993	40	5.4	-3.85	1.32	1.45	87.4	0.30	36.2	0.30	50.20	498.49	40

Table 4. Fiber Properties and Revenue - 2013 Averages Across Three Arkansas Sites

Variety	Lint		Mic.	Length		Uniform.		Strength		Loan		r	
	Yield	r		<i>ϕ</i> /lb	in	<i>ϕ</i> /lb	%	<i>ϕ</i> /lb	g/tex	<i>ϕ</i> /lb	Value		Rev
	lb/ac									<i>ϕ</i> /lb	\$/ac		
PX3122b51WRF	1778	1	4.5	0.00	1.18	1.45	84.2	0.20	31.4	0.30	53.95	959.23	1
PX375001WRF	1717	2	4.6	0.00	1.18	1.45	83.9	0.10	32.3	0.30	53.85	924.60	2
PX445022WRF	1609	4	4.5	0.00	1.18	1.45	84.0	0.20	32.6	0.30	53.95	868.06	3
ST 5288 B2RF	1618	3	4.7	0.00	1.14	1.40	82.9	0.05	30.0	0.15	53.60	867.25	4
PHY 333 WRF	1583	5	4.4	0.00	1.19	1.45	83.7	0.10	30.9	0.15	53.70	850.07	5
DP 1321 B2RF	1572	6	4.8	0.00	1.16	1.40	83.9	0.10	33.7	0.30	53.80	845.74	6
PX300310WRF	1558	7	4.9	0.00	1.13	1.35	83.7	0.10	31.9	0.30	53.75	837.43	7
PX444414WRF	1534	9	4.2	0.15	1.19	1.45	84.3	0.20	32.5	0.30	54.10	829.89	8
NG 1511 B2RF	1540	8	4.9	0.00	1.16	1.40	83.9	0.10	33.6	0.30	53.80	828.52	9
DP 0912 B2RF	1532	10	4.9	0.00	1.14	1.40	83.3	0.10	31.4	0.30	53.80	824.22	10
Dyna-Gro 2570 B2RF	1519	11	4.8	0.00	1.15	1.40	84.2	0.20	32.7	0.30	53.90	818.74	11
12R224B2R2	1515	12	4.5	0.00	1.17	1.40	83.8	0.10	31.0	0.30	53.80	815.07	12
PX300304WRF	1489	14	4.5	0.00	1.16	1.40	83.5	0.10	32.6	0.30	53.80	801.08	13
Ark 0620 B2RF	1479	16	4.6	0.00	1.16	1.40	84.0	0.20	31.5	0.30	53.90	797.18	14
Dyna-Gro 2285 B2RF	1481	15	4.5	0.00	1.17	1.40	83.9	0.10	30.9	0.30	53.80	796.78	15
PX444413WRF	1472	18	4.0	0.15	1.24	1.40	84.3	0.20	32.0	0.30	54.05	795.62	16
PX553840WRF	1475	17	4.3	0.00	1.19	1.40	84.9	0.20	32.7	0.30	53.90	795.03	17
PHY 427 WRF	1469	19	4.4	0.00	1.17	1.40	83.7	0.10	33.3	0.30	53.80	790.32	18
PHY 499 WRF	1425	20	4.8	0.00	1.16	1.40	84.3	0.20	34.9	0.30	53.90	768.08	19
PHY 339WRF	1424	21	4.6	0.00	1.19	1.40	84.1	0.20	32.2	0.30	53.90	767.54	20
ST 4946GLB2	1499	13	5.0	-2.70	1.17	1.40	84.0	0.20	33.5	0.30	51.20	767.49	21
PHY 367 WRF	1406	23	4.6	0.00	1.17	1.40	83.7	0.10	33.3	0.30	53.80	756.43	22
PHY 417 WRF	1397	24	4.0	0.15	1.15	1.40	83.4	0.10	32.2	0.30	53.95	753.68	23
CT 13125	1379	25	4.3	0.00	1.18	1.40	83.9	0.10	32.4	0.30	53.80	741.90	24
SGS UA222	1345	26	4.5	0.00	1.21	1.40	84.1	0.20	33.2	0.30	53.90	724.96	25
DP 393	1413	22	5.0	-2.70	1.15	1.40	84.6	0.20	31.9	0.30	51.20	723.46	26
DP 1311 B2RF	1341	27	4.3	0.00	1.15	1.40	82.7	0.05	31.1	0.30	53.75	720.79	27
DP 1044 B2RF	1337	28	4.6	0.00	1.14	1.40	83.2	0.10	32.4	0.30	53.80	719.31	28
FM 1944GLB2	1296	30	4.8	0.00	1.21	1.40	83.9	0.10	31.8	0.30	53.80	697.25	29
PHY 375 WRF	1296	31	4.5	0.00	1.16	1.40	83.6	0.10	31.6	0.30	53.80	697.25	30
Dyna-Gro CT 13414	1266	32	4.8	0.00	1.15	1.40	83.6	0.10	31.4	0.30	53.80	681.11	31
ST 5458 B2RF	1320	29	5.0	-2.70	1.17	1.40	83.8	0.10	32.6	0.30	51.10	674.52	32
Croplan 3787 B2RF	1177	34	4.8	0.00	1.19	1.40	84.0	0.20	32.0	0.30	53.90	634.40	34
12R242B2R2	1177	33	4.8	0.00	1.16	1.40	83.8	0.10	31.8	0.30	53.80	633.23	33
ST 6448GLB2	1151	35	4.4	0.00	1.22	1.40	83.5	0.10	30.8	0.30	53.80	619.24	35
AM UA48	1143	36	5.0	-2.70	1.30	1.40	86.5	0.30	35.2	0.30	51.30	586.36	36
HQ210CT	1078	37	4.8	0.00	1.15	1.40	83.8	0.10	33.8	0.30	53.80	579.96	37
DP 1133 B2RF	1045	38	4.7	0.00	1.18	1.40	84.8	0.20	34.7	0.30	53.90	563.26	38
NG 5315 B2RF	1034	39	4.7	0.00	1.16	1.40	84.0	0.20	31.9	0.30	53.90	557.33	39
Croplan 3428 B2RF	1034	40	4.8	0.00	1.19	1.40	84.0	0.20	31.9	0.30	53.90	557.33	40

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