

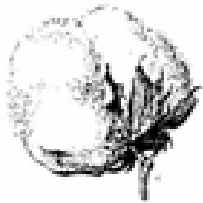
University of Arkansas, United States Department of Agriculture and County Governments Cooperating.

Cotton Comments

Cotton Yield, Quality, and Revenue: 2008 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 2009).

Cotton variety trials conducted in 2008 were at four locations in Arkansas. Test sites included the Northeast Research and Extension Center at Keiser; 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.

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 that is determined by yield only. Quality factors for micronaire, staple length, uniformity, and strength are included in the 2008 cotton variety trials. Quality factors reported in the variety trials are applied with premiums and discounts for each fiber property (USDA, FSA 2009).

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.

Potential costs of production may differ between locations and valid economic comparisons are limited to varieties within a test

site. The top four varieties have identical rankings for revenue and yield at Keiser in Table 1. There is a difference of \$42.39 between the variety ranked first (CG 3035RF) in revenue and the variety ranked fifth. At Judd Hill in Table 2, nine of the varieties ranked in the top ten for revenue are in the top ten rankings in terms of yield. The number one ranked variety for revenue is PHY 425 FR and has a value that is \$108.28 greater than the variety ranked fifth. At Marianna, eight of the top ten ranked varieties for revenue are in the top ten rankings for yield in Table 3. The variety with the highest revenue is PHY 375 WRF with revenue that is \$27.41 greater than the fifth ranked variety. Seven of the varieties ranked in the top ten for revenue at Rohwer in Table 4 are in the top ten rankings in terms of yield. ST 5458 B2RF has the greatest revenue, and it is \$91.24 more than the fifth ranked variety.

Across all four locations, revenue rankings for the top six varieties are identical to yield rankings in Table 5. Revenue for the number one revenue variety (PHY 370 WR) is \$28.32 greater than the fifth ranked variety. Of the top ten ranked varieties for revenue, eight are in the top ten rankings for yield.

Table 1. Fiber Properties and Revenue - 2008 Results at Keiser, AR

Variety	Lint				Strength				Loan			r	
	Yield	r	Mic.	Length		Uniform.		g/tex	Value	Rev			
	lb/ac			in.	ϕ /lb	%	ϕ /lb	ϕ /lb	ϕ /lb	\$/ac			
CG 3035RF	1198	1	4.4	0.00	1.19	1.55	84.8	0.40	30.6	0.45	54.40	651.71	1
Dyna-Gro 2400	1162	2	4.2	0.15	1.20	1.55	84.4	0.30	30.3	0.25	54.25	630.39	2
PHY 370 WR	1157	3	3.9	0.15	1.16	1.55	84.0	0.30	31.2	0.45	54.45	629.99	3
Dyna-Gro 2570	1129	4	4.0	0.15	1.20	1.55	85.1	0.40	31.7	0.45	54.55	615.87	4
DP 454 BG/RR	1117	7	3.8	0.15	1.17	1.55	84.6	0.40	30.5	0.45	54.55	609.32	5
DP 164 B2RF	1118	6	4.2	0.15	1.26	1.55	84.9	0.40	28.3	0.00	54.10	604.84	6
PHY 315 RF	1116	8	4.5	0.00	1.19	1.55	83.8	0.30	28.7	0.00	53.85	600.97	7
CG 4020 B2RF	1098	9	4.0	0.15	1.25	1.55	85.3	0.40	28.6	0.00	54.10	594.02	8
PHY 375 WRF	1129	5	5.2	-1.85	1.18	1.55	83.1	0.20	28.8	0.00	51.90	585.95	9
CG 3220 B2RF	1078	11	4.1	0.15	1.22	1.55	85.2	0.40	29.8	0.25	54.35	585.89	10
ST 5327 B2RF	1063	13	3.7	0.15	1.21	1.55	84.8	0.40	31.7	0.45	54.55	579.87	11
AM 1550 B2RF	1066	12	3.9	0.15	1.21	1.55	85.0	0.40	28.1	0.00	54.10	576.71	12
DP 174 RF	1022	15	3.8	0.15	1.25	1.55	84.5	0.40	30.0	0.25	54.35	555.46	13
CG 3020 B2RF	1024	14	3.9	0.15	1.19	1.55	85.1	0.40	29.0	0.00	54.10	553.98	14
PHY 425 RF	1097	10	3.0	-4.05	1.18	1.55	85.2	0.40	32.0	0.45	50.35	552.34	15
Dyna-Gro 2520	1016	16	4.0	0.15	1.25	1.55	84.5	0.40	28.8	0.00	54.10	549.66	16
AM 1532 B2RF	996	17	3.5	0.00	1.22	1.55	85.4	0.40	28.3	0.00	53.95	537.34	17
CG 3520 B2RF	982	19	3.7	0.15	1.22	1.55	84.9	0.40	29.5	0.25	54.35	533.72	18
Dyna-Gro 2490	975	21	4.6	0.00	1.16	1.55	84.4	0.30	30.9	0.45	54.30	529.43	19
ST 4427 B2RF	941	22	3.9	0.15	1.22	1.55	84.1	0.30	29.6	0.25	54.25	510.49	20
PHY 485 WRF	930	23	3.5	0.00	1.21	1.55	84.8	0.40	32.7	0.45	54.40	505.92	21
DP 121 RF	981	20	3.0	-4.05	1.23	1.55	85.3	0.40	31.4	0.45	50.35	493.93	22
ST 5458 B2RF	902	25	4.6	0.00	1.23	1.55	84.5	0.40	30.5	0.45	54.40	490.69	23
ST 4554 B2RF	877	26	4.0	0.15	1.22	1.55	84.6	0.40	32.8	0.45	54.55	478.40	24
DP 161 B2RF	914	24	3.3	-2.45	1.25	1.55	85.9	0.50	30.8	0.45	52.05	475.74	25
DP 393	988	18	2.9	-6.95	1.26	1.55	86.4	0.50	32.4	0.45	47.55	469.79	26
ST 4498 B2RF	850	27	3.7	0.15	1.21	1.55	84.8	0.40	33.6	0.45	54.55	463.68	27
DP 141 B2RF	825	28	4.1	0.15	1.26	1.55	85.0	0.40	30.5	0.45	54.55	450.04	28
FM 1735 LLB2	825	29	3.9	0.15	1.19	1.55	85.1	0.40	30.5	0.45	54.55	450.04	29
DP 143 B2RF	820	30	4.9	0.00	1.24	1.55	83.5	0.30	28.1	0.00	53.85	441.57	30

Table 2. Fiber Properties and Revenue - 2008 Results at Judd Hill, AR

Variety	Lint				Length	Uniform.	Strength	Loan			r		
	Yield	r	Mic.	¢/lb				Value	Rev	¢/lb		\$/ac	
	lb/ac			¢/lb	in	%	¢/lb	g/tex	¢/lb	¢/lb	\$/ac		
PHY 425 RF	1482	1	3.8	0.15	1.18	1.55	85.4	0.40	32.5	0.40	54.50	807.69	1
Dyna-Gro 2520	1396	2	4.0	0.15	1.24	1.55	84.7	0.40	29.3	0.00	54.10	755.24	2
PHY 485 WRF	1385	3	3.5	0.00	1.20	1.55	84.8	0.40	31.7	0.45	54.40	753.44	3
PHY 370 WR	1341	5	4.4	0.00	1.16	1.55	83.8	0.30	30.5	0.45	54.30	728.16	4
CG 3520 B2RF	1294	7	3.6	0.00	1.20	1.55	85.5	0.50	28.8	0.00	54.05	699.41	5
CG 4020 B2RF	1292	8	4.5	0.00	1.21	1.55	84.6	0.40	28.2	0.00	53.95	697.03	6
PHY 315 RF	1372	4	5.3	-3.25	1.17	1.55	83.8	0.30	28.6	0.00	50.60	694.23	7
DP 393	1276	9	3.5	0.00	1.22	1.55	85.3	0.40	32.0	0.45	54.40	694.14	8
Dyna-Gro 2400	1261	14	4.2	0.15	1.18	1.55	85.1	0.40	31.4	0.45	54.55	687.88	9
Dyna-Gro 2490	1273	10	4.0	0.15	1.16	1.55	84.3	0.30	28.0	0.00	54.00	687.42	10
PHY 375 WRF	1268	12	3.8	0.15	1.21	1.55	85.5	0.50	28.9	0.00	54.20	687.26	11
ST 5458 B2RF	1312	6	5.0	-1.85	1.20	1.55	84.2	0.30	30.4	0.25	52.25	685.52	12
DP 121 RF	1261	13	3.9	0.15	1.20	1.55	85.0	0.40	29.8	0.25	54.35	685.35	13
Dyna-Gro 2570	1256	15	3.6	0.00	1.19	1.55	85.3	0.40	31.0	0.45	54.40	683.26	14
AM 1532 B2RF	1244	17	3.5	0.00	1.22	1.55	85.5	0.50	28.3	0.00	54.05	672.38	15
AM 1550 B2RF	1226	18	4.7	0.00	1.15	1.55	84.3	0.30	28.9	0.00	53.85	660.20	16
ST 5327 B2RF	1269	11	3.3	-2.45	1.20	1.55	85.3	0.40	32.2	0.45	51.95	659.25	17
CG 3220 B2RF	1250	16	5.0	-1.85	1.17	1.55	84.8	0.40	30.8	0.45	52.55	656.88	18
CG 3035RF	1198	21	4.4	0.00	1.18	1.55	84.2	0.30	31.0	0.45	54.30	650.51	19
DP 454 BG/RR	1193	22	3.5	0.00	1.19	1.55	85.1	0.40	30.6	0.45	54.40	648.99	20
FM 1735 LLB2	1192	23	4.6	0.00	1.17	1.55	84.0	0.30	29.3	0.00	53.85	641.89	21
CG 3020 B2RF	1183	24	4.1	0.15	1.17	1.55	84.7	0.40	28.5	0.00	54.10	640.00	22
DP 174 RF	1163	25	4.0	0.15	1.22	1.55	84.7	0.40	28.2	0.00	54.10	629.18	23
ST 4498 B2RF	1208	19	3.4	-2.45	1.19	1.55	85.9	0.50	34.0	0.45	52.05	628.76	24
DP 161 B2RF	1143	26	3.7	0.15	1.25	1.55	85.7	0.50	32.2	0.45	54.65	624.65	25
ST 4427 B2RF	1202	20	3.3	-2.45	1.21	1.55	85.3	0.40	31.5	0.45	51.95	624.44	26
DP 164 B2RF	1136	27	3.4	-2.45	1.27	1.55	86.1	0.50	32.3	0.45	52.05	591.29	27
DP 143 B2RF	974	29	4.2	0.15	1.29	1.55	84.9	0.40	30.7	0.45	54.55	531.32	28
ST 4554 B2RF	1053	28	3.2	-4.05	1.18	1.55	85.1	0.40	32.4	0.45	50.35	530.19	29
DP 141 B2RF	955	30	4.1	0.15	1.30	1.55	85.3	0.40	31.5	0.45	54.55	520.95	30

Table 3. Fiber Properties and Revenue - 2008 Results at Marianna, AR

Variety	Lint				Length	Uniform.		Strength			Loan		
	Yield	r	Mic.	ϕ /lb		%	ϕ /lb	g/tex	ϕ /lb	ϕ /lb	Value	Rev	r
	lb/ac				in								
PHY 375 WRF	1259	1	4.0	0.15	1.16	1.55	84.1	0.30	30.6	0.45	54.45	685.53	1
CG 3220 B2RF	1239	2	4.7	0.00	1.18	1.55	84.1	0.30	28.5	0.00	53.85	667.20	2
DP 174 RF	1225	4	4.2	0.15	1.22	1.55	84.9	0.40	28.1	0.00	54.10	662.73	3
AM 1532 B2RF	1230	3	4.4	0.00	1.19	1.55	84.3	0.30	28.9	0.00	53.85	662.36	4
ST 4498 B2RF	1212	5	4.6	0.00	1.21	1.55	84.3	0.30	30.8	0.45	54.30	658.12	5
AM 1550 B2RF	1207	6	4.4	0.00	1.18	1.55	84.5	0.40	28.3	0.00	53.95	651.18	6
CG 4020 B2RF	1172	8	4.1	0.15	1.19	1.55	85.2	0.40	29.7	0.25	54.35	636.98	7
Dyna-Gro 2400	1171	9	3.8	0.15	1.24	1.55	85.1	0.40	28.7	0.00	54.10	633.51	8
ST 4427 B2RF	1158	12	3.9	0.15	1.19	1.55	84.7	0.40	30.7	0.45	54.55	631.69	9
PHY 370 WR	1155	13	3.5	0.00	1.19	1.55	85.1	0.40	30.6	0.45	54.40	628.32	10
Dyna-Gro 2570	1159	11	4.2	0.15	1.23	1.55	84.5	0.40	29.2	0.00	54.10	627.02	11
CG 3520 B2RF	1145	14	4.1	0.15	1.18	1.55	84.7	0.40	30.8	0.45	54.55	624.60	12
CG 3035RF	1144	15	3.5	0.00	1.21	1.55	85.3	0.40	29.0	0.00	53.95	617.19	13
ST 4554 B2RF	1183	7	3.4	-2.45	1.19	1.55	85.5	0.50	31.5	0.45	52.05	615.75	14
ST 5458 B2RF	1166	10	3.4	-2.45	1.18	1.55	85.3	0.40	31.7	0.45	51.95	605.74	15
DP 161 B2RF	1112	19	3.9	0.15	1.18	1.55	84.7	0.40	28.6	0.00	54.10	601.59	16
DP 121 RF	1086	23	3.6	0.00	1.20	1.55	84.7	0.40	30.1	0.25	54.20	588.61	17
PHY 425 RF	1073	25	4.1	0.15	1.26	1.55	85.2	0.40	30.5	0.45	54.55	585.32	18
Dyna-Gro 2490	1082	24	4.5	0.00	1.16	1.55	84.2	0.30	29.3	0.00	53.85	582.66	19
ST 5327 B2RF	1121	16	3.4	-2.45	1.20	1.55	85.3	0.40	32.2	0.45	51.95	582.36	20
PHY 315 RF	1107	22	3.3	-2.45	1.22	1.55	85.5	0.50	32.3	0.45	52.05	576.19	21
DP 393	1108	21	3.4	-2.45	1.18	1.55	85.2	0.40	30.5	0.45	51.95	575.61	22
PHY 485 WRF	1115	18	3.4	-2.45	1.22	1.55	85.5	0.50	28.4	0.00	51.60	575.34	23
DP 164 B2RF	1047	27	3.6	0.00	1.20	1.55	84.7	0.40	32.4	0.45	54.40	569.57	24
Dyna-Gro 2520	1121	17	3.2	-4.05	1.19	1.55	85.3	0.40	33.1	0.45	50.35	564.42	25
CG 3020 B2RF	1109	20	3.2	-4.05	1.19	1.55	85.1	0.40	32.4	0.45	50.35	558.38	26
DP 454 BG/RR	1054	26	3.4	-2.45	1.24	1.55	85.8	0.50	31.2	0.45	52.05	548.61	27
FM 1735 LLB2	975	28	3.9	0.15	1.19	1.55	84.8	0.40	29.9	0.25	54.35	529.91	28
DP 141 B2RF	945	29	4.0	0.15	1.27	1.55	85.1	0.40	31.0	0.45	54.55	515.50	29
DP 143 B2RF	912	30	4.2	0.15	1.27	1.55	84.6	0.40	29.6	0.25	54.35	495.67	30

Table 4. Fiber Properties and Revenue - 2008 Results at Rohwer, AR

Variety	Lint				Length in	Uniform.			Strength		Loan		
	Yield	r	Mic.	ϕ /lb		ϕ /lb	%	ϕ /lb	g/tex	Value	Rev	r	
	lb/ac									ϕ /lb	ϕ /lb	\$/ac	
ST 5458 B2RF	982	1	4.2	0.15	1.21	1.55	84.5	0.40	31.8	0.45	54.55	535.68	1
PHY 370 WR	903	2	4.1	0.15	1.18	1.55	84.5	0.40	31.1	0.45	54.55	492.59	2
AM 1550 B2RF	836	4	4.7	0.00	1.18	1.55	84.4	0.30	28.2	0.00	53.85	450.19	3
PHY 315 RF	828	5	4.5	0.00	1.20	1.55	84.6	0.40	28.4	0.00	53.95	446.71	4
CG 4020 B2RF	820	6	3.7	0.15	1.23	1.55	85.5	0.50	28.2	0.00	54.20	444.44	5
DP 174 RF	791	8	3.8	0.15	1.25	1.55	85.3	0.40	29.2	0.00	54.10	427.93	6
DP 121 RF	845	3	3.1	-4.05	1.17	1.55	85.8	0.50	30.8	0.45	50.45	426.30	7
PHY 375 WRF	753	11	3.9	0.15	1.21	1.55	85.1	0.40	29.3	0.00	54.10	407.37	8
CG 3020 B2RF	752	12	3.9	0.15	1.18	1.55	84.7	0.40	28.7	0.00	54.10	406.83	9
ST 4427 B2RF	743	13	3.6	0.00	1.19	1.55	85.2	0.40	30.0	0.25	54.20	402.71	10
CG 3220 B2RF	731	14	4.2	0.15	1.20	1.55	85.0	0.40	29.6	0.25	54.35	397.30	11
Dyna-Gro 2570	761	10	3.1	-4.05	1.21	1.55	86.0	0.50	31.9	0.45	50.45	383.92	12
Dyna-Gro 2520	763	9	3.2	-4.05	1.26	1.55	86.2	0.50	28.8	0.00	50.00	381.50	13
ST 4498 B2RF	812	7	2.6	-9.25	1.20	1.55	85.7	0.50	32.1	0.45	45.25	367.43	14
DP 161 B2RF	725	15	3.2	-4.05	1.25	1.55	85.9	0.50	31.1	0.45	50.45	365.76	15
FM 1735 LLB2	671	20	3.6	0.00	1.19	1.55	85.0	0.40	29.9	0.25	54.20	363.68	16
ST 4554 B2RF	698	16	3.4	-2.45	1.22	1.55	85.4	0.40	32.6	0.45	51.95	362.61	17
DP 454 BG/RR	686	17	3.2	-4.05	1.18	1.55	85.7	0.50	30.5	0.45	50.45	346.09	18
CG 3520 B2RF	684	18	3.1	-4.05	1.24	1.55	86.0	0.50	30.3	0.25	50.25	343.71	19
DP 393	676	19	3.2	-4.05	1.22	1.55	85.5	0.50	33.1	0.45	50.45	341.04	20
ST 5327 B2RF	643	21	3.4	-2.45	1.20	1.55	85.5	0.50	32.6	0.45	52.05	334.68	21
CG 3035RF	610	24	3.9	0.15	1.19	1.55	85.2	0.40	31.5	0.45	54.55	332.76	22
Dyna-Gro 2490	606	25	3.9	0.15	1.18	1.55	84.5	0.40	29.6	0.25	54.35	329.36	23
DP 164 B2RF	595	27	4.6	0.00	1.25	1.55	84.1	0.30	30.7	0.45	54.30	323.09	24
PHY 485 WRF	637	22	3.1	-4.05	1.18	1.55	85.7	0.50	32.9	0.45	50.45	321.37	25
Dyna-Gro 2400	588	28	3.7	0.15	1.20	1.55	84.7	0.40	31.4	0.45	54.55	320.75	26
DP 141 B2RF	575	29	4.0	0.15	1.25	1.55	85.0	0.40	31.2	0.45	54.55	313.66	27
PHY 425 RF	615	23	3.2	-4.05	1.20	1.55	85.6	0.50	31.8	0.45	50.45	310.27	28
AM 1532 B2RF	604	26	3.0	-4.05	1.25	1.55	85.9	0.50	28.6	0.00	50.00	302.00	29
DP 143 B2RF	431	30	3.8	0.15	1.31	1.55	85.4	0.40	29.8	0.25	54.35	234.25	30

Table 5. Fiber Properties and Revenue - 2008 Averages Across Four Arkansas Sites

Variety	Lint				Length				Uniform.		Strength		Loan		r
	Yield lb/ac	r	Mic.	ϕ /lb	in	ϕ /lb	%	ϕ /lb	g/tex	ϕ /lb	ϕ /lb	Value \$/ac	Rev		
PHY 370 WR	1139	1	4.0	0.15	1.16	1.55	84.1	0.30	30.6	0.45	54.45	620.19	1		
PHY 315 RF	1106	2	4.7	0.00	1.18	1.55	84.1	0.30	28.5	0.00	53.85	595.58	2		
PHY 375 WRF	1102	3	4.4	0.00	1.19	1.55	84.3	0.30	28.9	0.00	53.85	593.43	3		
CG 4020 B2RF	1096	4	4.2	0.15	1.22	1.55	84.9	0.40	28.1	0.00	54.10	592.94	4		
ST 5458 B2RF	1090	5	4.6	0.00	1.21	1.55	84.3	0.30	30.8	0.45	54.30	591.87	5		
AM 1550 B2RF	1084	6	4.4	0.00	1.18	1.55	84.5	0.40	28.3	0.00	53.95	584.82	6		
CG 3220 B2RF	1075	8	4.1	0.15	1.19	1.55	85.2	0.40	29.7	0.25	54.35	584.26	7		
Dyna-Gro 2520	1074	9	3.8	0.15	1.24	1.55	85.1	0.40	28.7	0.00	54.10	581.03	8		
Dyna-Gro 2400	1046	12	3.9	0.15	1.19	1.55	84.7	0.40	30.7	0.45	54.55	570.59	9		
DP 174 RF	1050	11	4.2	0.15	1.23	1.55	84.5	0.40	29.2	0.00	54.10	568.05	10		
DP 121 RF	1043	13	3.5	0.00	1.19	1.55	85.1	0.40	30.6	0.45	54.40	567.39	11		
CG 3035RF	1037	14	4.1	0.15	1.18	1.55	84.7	0.40	30.8	0.45	54.55	565.68	12		
Dyna-Gro 2570	1076	7	3.4	-2.45	1.19	1.55	85.5	0.50	31.5	0.45	52.05	560.06	13		
PHY 425 RF	1067	10	3.4	-2.45	1.18	1.55	85.3	0.40	31.7	0.45	51.95	554.31	14		
CG 3520 B2RF	1026	15	3.5	0.00	1.21	1.55	85.3	0.40	29.0	0.00	53.95	553.53	15		
CG 3020 B2RF	1017	19	3.9	0.15	1.18	1.55	84.7	0.40	28.6	0.00	54.10	550.20	16		
ST 4427 B2RF	1011	23	3.6	0.00	1.20	1.55	84.7	0.40	30.1	0.25	54.20	547.96	17		
ST 5327 B2RF	1024	16	3.4	-2.45	1.20	1.55	85.3	0.40	32.2	0.45	51.95	531.97	18		
DP 164 B2RF	974	25	4.1	0.15	1.26	1.55	85.2	0.40	30.5	0.45	54.55	531.32	19		
Dyna-Gro 2490	984	24	4.5	0.00	1.16	1.55	84.2	0.30	29.3	0.00	53.85	529.88	20		
DP 393	1012	22	3.3	-2.45	1.22	1.55	85.5	0.50	32.3	0.45	52.05	526.75	21		
DP 454 BG/RR	1012	21	3.4	-2.45	1.18	1.55	85.2	0.40	30.5	0.45	51.95	525.73	22		
AM 1532 B2RF	1018	18	3.4	-2.45	1.22	1.55	85.5	0.50	28.4	0.00	51.60	525.29	23		
ST 4554 B2RF	953	27	3.6	0.00	1.20	1.55	84.7	0.40	32.4	0.45	54.40	518.43	24		
ST 4498 B2RF	1020	17	3.2	-4.05	1.19	1.55	85.3	0.40	33.1	0.45	50.35	513.57	25		
PHY 485 WRF	1017	20	3.2	-4.05	1.19	1.55	85.1	0.40	32.4	0.45	50.35	512.06	26		
DP 161 B2RF	974	26	3.4	-2.45	1.24	1.55	85.8	0.50	31.2	0.45	52.05	506.97	27		
FM 1735 LLB2	916	28	3.9	0.15	1.19	1.55	84.8	0.40	29.9	0.25	54.35	497.85	28		
DP 141 B2RF	825	29	4.0	0.15	1.27	1.55	85.1	0.40	31.0	0.45	54.55	450.04	29		
DP 143 B2RF	784	30	4.2	0.15	1.27	1.55	84.6	0.40	29.6	0.25	54.35	426.10	30		

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