

**VARIETY TESTS IN ARIZONA**  
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**Abstract**

In 2001, a total of 47 varieties were evaluated in five tests over four locations. Included in this paper are agronomic and fiber traits.

**Introduction**

In 2001, a total of 47 varieties representing private and seed companies and public breeding programs were evaluated. Five tests were conducted; two at the Maricopa Agricultural Center (MAC), and one each at the Marana Agricultural Center (MAR), the Yuma Agricultural Center (YAC) and the Safford Agricultural Center (SAC). The two tests at MAC included an early and full season test.

**Materials and Methods**

Experimental procedures were similar for all trials. Plots were arranged in a randomized complete block design with five replications at MAC and MAR and four at YAC and SAC. Plots at MAC, MAR and YAC were four rows wide on 40 inch beds and plots at SAC were two rows wide spaced 36 inches apart. Plot length was 44' at MAC, 42' at MAR, 38' at YAC and 40' at SAC. Both tests at MAC were planted on 4/19/01, YAC was planted on 3/28/01, MAR on 4/26/01 and SAC on 4/27/01. All tests followed standard herbicide and fertility procedures and conventional IPM practices were used to control insects. MAC full was separated from the MAC early by one additional irrigation. Prior to harvest, 50 boll samples were taken from 3 out of 5 replication test, or, 2 out of 4 replication test to determine boll size, lint percent and seed index. Lint from these samples was sent to the USDA Classing Lab or HVI analysis. Plant height was measured on one of the two middle rows from each test. The middle two rows of each plot were machine picked to determine seed cotton yields. YAC was harvested on 9/28/01, MAC early on 10/5/01, MAR on 10/23/01, SAC on 10/24/01 and MAC full on 11/19/01.

**Results and Discussion**

Stands were good in most locations except SAC where plots were discarded because of very weak stands. Insect pressure was light, although there was some late season whitefly pressure at MAC. There was some heat stress at MAC in August (high night time temperatures). Rains delayed planting at MAC at least 10 days. Harvest at YAC was delayed 1 to 2 weeks due to defoliation problems.

Tables 1 through 5 contain the fiber data for all the tests. Mic averaged 5.2 at the MAC locations and 5.0 at the YAC location. Mic was good at the MAR and SAC locations. Tables 6 through 10 contain the agronomic characteristics of all five tests. The yields were very good at YAC averaging 2258 lbs lint/acre. The yields were good at MAC averaging 1631 and 1718 lbs lint/acre for the early and full season tests respectively. The yields at MAR were low, only averaging 1078 lbs lint/acre. The yields at SAC were not significant as some of the plots that were retained had highly variable yield. We think that these plots showed modest injury caused by high amounts of Iron incorporated for the previous crop.

Table 1. Fiber data, MAC Early season 2001

<b>Entry</b>	<b>Length</b>	<b>Strength</b>	<b>Uniformity</b>	<b>Micronaire</b>	<b>RD</b>	<b>B</b>
DP 565	1.22	31.4	83.7	5.0	85.0	8.8
ST580	1.20	30.7	82.7	5.0	84.7	10.0
DP451BR	1.19	29.6	83.0	5.2	85.0	8.5
NUCTN33B	1.18	30.7	83.3	5.0	85.0	8.7
AP7126	1.18	30.7	82.0	5.1	85.0	8.9
STX0001B	1.17	29.6	82.7	5.2	84.3	9.7
8839-3-1	1.17	28.2	82.3	5.0	85.0	9.7
DP448B	1.15	29.8	81.3	5.1	85.0	9.2
FM958	1.15	28.8	82.7	5.0	84.3	9.0
ST4691B	1.15	28.6	81.7	5.5	82.0	9.6
AP7115	1.14	29.4	82.3	5.1	85.0	8.9
HCR9257	1.14	29.0	81.3	5.1	85.0	8.3
ST4793RR	1.14	29.1	84.3	5.4	83.0	10.1
8806-3-2	1.14	29.5	83.0	5.2	82.0	9.2
ST4892BR	1.13	29.1	83.5	5.5	84.5	10.2
SG747	1.12	27.2	82.7	5.6	82.0	9.9
STX9905	1.12	28.5	81.3	5.5	85.0	9.9
STX8M007	1.12	29.6	83.0	5.2	84.0	10.3
ST474	1.12	29.8	82.7	5.5	83.7	10.3
PSC355	1.11	29.7	83.7	5.2	82.0	9.9
SG501BR	1.10	27.9	82.7	5.3	85.0	9.7
SPHINX	1.09	29.4	82.7	5.2	85.0	9.1
SG215BR	1.07	26.0	82.3	5.5	84.3	10.0
PYRAMID	1.06	26.1	82.0	5.3	84.0	9.6
MEAN	1.14	29.1	82.6	5.2	84.2	9.5
LSD	.04	3.0	1.2	0.3	1.5	0.7
CV	.02	5.2	1.0	0.3	0.9	0.4

Table 2. Fiber Data, Mac Full Season 2001

<b>Entry</b>	<b>Length</b>	<b>Strength</b>	<b>Uniformity</b>	<b>Micronaire</b>	<b>RD</b>	<b>B</b>
DP565	1.18	29.6	82.3	5.0	84.7	7.7
FM989	1.17	32.6	82.7	4.9	84.0	7.9
MAXXA	1.16	33.1	82.7	4.3	82.7	7.9
NUCTN33B	1.16	30.6	82.0	5.1	85.0	8.0
LA433287	1.15	29.4	82.3	4.9	83.0	7.5
DP458BR	1.15	30.4	82.3	5.1	85.0	7.9
FM966	1.15	30.7	83.0	4.9	84.0	7.4
ST580	1.15	29.0	82.3	5.1	83.0	8.5
STX0001B	1.14	28.6	81.7	5.0	80.3	7.9
DP448B	1.13	29.1	81.0	5.0	84.7	7.8
STX9905	1.13	28.3	81.7	5.3	83.0	8.8
LA954020	1.12	27.4	82.3	5.3	82.0	8.6
SG501BR	1.12	27.6	82.3	5.3	83.7	8.4
HCR9257	1.12	29.0	83.0	5.0	83.7	6.6
DP555BR	1.12	27.5	80.7	4.6	85.0	7.8
ST4892BR	1.12	27.8	83.3	5.6	81.3	8.4
ST4691B	1.12	27.8	82.3	5.5	79.3	7.5
1517-99	1.11	28.9	81.7	5.0	83.0	8.3
ST474	1.11	28.4	82.7	5.7	79.3	8.0
ST4793RR	1.11	27.4	83.0	5.3	79.0	8.3
STX8M007	1.11	29.8	81.7	5.2	81.0	8.3
SG747	1.11	26.6	81.5	5.6	81.5	8.7
SG215BR	1.08	25.7	83.3	5.5	83.7	8.5
ATLAS	1.05	29.3	82.7	5.5	83.3	8.3
MEAN	1.13	28.9	82.3	5.2	82.7	8.0
LSD	.04	2.5	0	0.3	2.7	0.7
CV	.02	4.4	1.2	0.3	1.7	0.5

Table 3. Fiber Data, Marana 2001

<b>Entry</b>	<b>Length</b>	<b>Strength</b>	<b>Uniformity</b>	<b>Micronaire</b>	<b>RD</b>	<b>B</b>
FM989	1.20	31.8	82.3	4.5	83.7	9.6
DP655BR	1.18	31.3	81.0	4.6	84.3	9.4
DP5415	1.18	29.9	81.7	4.5	84.3	9.4
FM966	1.18	30.0	82.7	4.4	84.7	8.7
DP5415RR	1.18	29.5	83.0	4.7	85.0	9.0
DP451BR	1.18	28.6	82.3	4.8	85.0	9.3
NUCTN33B	1.17	29.0	81.7	4.5	84.0	9.2
NUCTN35B	1.17	31.1	81.7	4.6	83.3	9.2
FM958	1.17	30.5	81.7	4.6	84.3	8.7
PM1560	1.17	29.6	83.0	4.8	83.3	10.4
DP565	1.17	27.9	81.3	4.7	84.0	9.1
DP448B	1.15	28.2	82.0	4.6	84.0	9.3
SG105	1.15	27.6	82.7	5.3	84.0	9.3
PM1560BR	1.15	28.4	83.0	4.6	83.7	9.6
DP5690RR	1.14	29.7	81.0	4.8	84.7	9.6
ST4691B	1.14	27.9	81.7	4.9	81.7	9.7
DP458BR	1.13	30.0	82.3	4.8	84.7	9.5
ST4892BR	1.13	28.5	83.3	5.3	83.0	10.1
DP5690	1.13	29.1	81.3	4.9	83.7	9.5
ST4793RR	1.13	28.8	83.0	5.0	83.0	10.0
ST474	1.12	27.8	82.7	5.0	80.1	9.9
SG215BR	1.12	26.2	82.7	5.1	83.7	10.2
PM1560BG	1.11	27.5	83.0	5.0	83.7	9.1
SG501BR	1.11	28.2	83.7	4.9	83.7	9.6
MEAN	1.15	29.0	82.3	4.8	83.7	9.5
LSD	.04	2.3	1.7	0.4	1.8	0.7
CV	.02	3.3	1.0	0.4	1.1	0.4

Table 4. Fiber Data, Safford 2001

<b>Entry</b>	<b>Length</b>	<b>Strength</b>	<b>Uniformity</b>	<b>Micronaire</b>	<b>RD</b>	<b>B</b>
GC377	1.18	30.7	81.5	4.7	85.0	8.9
FM989	1.17	32.6	81.5	4.6	85.0	8.8
1517-99	1.16	31.6	81.5	4.7	82.5	9.7
STX0001B	1.15	29.1	80.5	4.4	84.5	9.4
DP458BR	1.15	30.1	81.0	4.6	85.0	9.2
FM958	1.15	28.5	81.5	4.9	85.0	8.6
DP565	1.14	28.1	81.5	4.8	85.0	9.0
8839-3-1	1.14	27.5	82.0	5.0	85.0	9.9
PM1560BR	1.14	28.7	81.5	4.6	84.5	9.5
NUCTN33B	1.14	30.3	82.0	4.7	85.0	9.3
DELTA	1.14	30.8	81.0	4.7	85.0	8.6
AP7126	1.13	30.5	81.0	4.4	85.0	9.0
DP451BR	1.13	28.3	82.5	5.1	84.0	8.5
ST580	1.13	29.2	81.5	4.8	85.0	9.9
MAXXA	1.13	31.2	81.0	4.4	85.0	9.2
FM966	1.12	29.3	82.0	4.8	85.0	9.3
STX8M007	1.11	28.7	81.5	4.5	82.5	9.8
GC114	1.11	29.0	82.5	4.5	84.0	9.9
DP448B	1.10	26.5	81.0	4.7	84.5	9.5
SPHINX	1.10	30.3	83.0	4.4	84.5	9.5
8806-3-2	1.09	27.6	82.5	5.0	84.0	9.6
HCR9257	1.09	28.9	82.0	4.6	85.0	8.5
SG747	1.09	26.0	81.5	5.1	84.0	10.2
ST474	1.09	26.7	81.5	5.1	83.0	10.3
SG501BR	1.09	27.6	83.0	5.1	85.0	10.0
STX9905	1.08	29.0	80.5	4.8	84.5	10.1
DP655BR	1.08	25.3	80.5	4.6	84.5	9.8
DP555BR	1.07	26.3	80.5	4.6	85.0	9.2
SG521RR	1.06	25.5	81.5	4.9	84.0	10.0
ATLAS	1.05	29.2	82.0	4.7	84.0	8.8
SG215BR	1.05	25.8	82.5	5.0	85.0	10.1
PYRAMID	1.04	27.1	81.0	4.7	85.0	9.5
MEAN	1.11	28.6	81.6	4.7	84.4	9.4
LSD	.06	2.7	0	0.6	1.5	0.7
CV	.02	3.9	1.2	0.5	0.7	0.3

Table 5. Fiber Data, Yuma 2001

<b>Entry</b>	<b>Length</b>	<b>Strength</b>	<b>Uniformity</b>	<b>Micronaire</b>	<b>RD</b>	<b>B</b>
ST580	1.22	32.4	83.0	4.8	85.0	10.1
AP7126	1.19	30.0	82.0	4.7	85.0	9.7
FM958	1.19	30.8	81.5	4.9	85.0	9.3
NUCTN33B	1.19	31.7	82.0	5.0	85.0	9.7
STX0001B	1.19	30.8	81.0	4.8	85.0	9.6
MSU8839	1.18	29.8	82.5	4.9	85.0	10.1
DP448B	1.17	30.1	82.0	4.8	85.0	9.3
SG105	1.17	30.5	82.5	5.4	85.0	9.8
MSU8806	1.16	31.9	83.0	5.0	84.0	10.4
STX9905	1.15	30.3	81.0	5.1	84.5	9.9
FM966	1.15	33.2	83.5	4.7	85.0	9.1
SG747	1.15	28.9	83.5	5.1	80.0	8.9
DP451BR	1.14	25.8	82.0	5.1	85.0	9.5
ST474	1.14	29.5	82.5	5.2	84.5	10.4
ST4793RR	1.14	29.3	82.5	5.4	83.5	10.5
DP555BR	1.13	30.0	79.5	4.9	85.0	9.0
SG215BR	1.13	27.3	82.5	5.1	85.0	10.0
PSC355	1.13	29.8	83.0	5.1	83.5	10.6
AP7115	1.11	28.4	81.0	5.0	85.0	9.2
MEAN	1.16	30.0	82.2	5.0	84.5	9.8
LSD	.06	3.2	2.2	0.4	0	0
CV	.02	4.4	1.1	0.3	1.6	0.5

Table 6. Agronomic Characteristics, Yuma 2001

<b>Entry</b>	<b>LY (lbs/A)</b>	<b>SCY (lbs/A)</b>	<b>SDY (lbs/A)</b>	<b>BW (g)</b>	<b>LP</b>	<b>SP</b>	<b>SI (g/100)</b>
STX0001B	2597*	6865	4247	5.97	37.62	61.51	11.70
STX8M007	2537*	6796	3895	5.72	39.13	60.08	10.50
SG215BR	2494*	6324	3966	5.98	38.22	60.77	10.60
SG747	2482	6293	3877	6.12	38.70	60.44	10.85
ST474	2474	6199	3905	5.26	38.36	60.56	10.60
SG105	2428	6160	4028	5.51	37.30	61.89	10.95
STX9905	2394	6495	3785	5.79	38.46	60.81	11.35
AP7115	2318	5872	3798	5.48	37.70	61.78	10.85
DP448B	2317	6676	4169	5.73	35.42	63.73	13.20
AP7126	2317	6001	3932	5.42	36.81	62.47	9.10
PSC355	2292	6035	3864	4.63	37.03	62.43	10.20
ST4793RR	2246	6109	3448	5.39	39.05	59.95	10.85
DP555BR	2242	5038	3349	4.79	39.81	59.47	8.20
DP451BR	2105	6556	4143	5.58	33.35	65.65	11.30
NUCTN33	2104	6311	3976	5.71	34.33	64.86	9.85
MSU8806	1984	5677	3422	5.21	36.39	62.79	10.45
FM958	1977	5318	3227	5.99	37.63	61.43	11.60
MSU8839	1914	5769	3609	5.12	34.41	64.87	11.70
FM966	1903	5004	3168	6.33	37.14	61.83	12.15
ST580	1821	5588	3327	5.40	35.18	64.29	10.55
MEAN	2258	6057	3768	5.56	37.10	62.08	10.83
LSD	113	216	168	0.23	0.81	.82	.54
CV	7	8	7	.38	1.36	.85	.73

\*=not significantly different in lint yield from top yielding line

Table 7. Agronomic Characteristics, MAC Early Season 2001

<b>Entry</b>	<b>LY (lbs/A)</b>	<b>SCY (lbs/A)</b>	<b>SDY (lbs/A)</b>	<b>BW (g)</b>	<b>LP</b>	<b>SP</b>	<b>SI (g/100)</b>	<b>HT (cm)</b>
SG747	1902*	4731	2785	5.19	40.19	58.95	10.57	105
DP448B	1899*	5275	3324	5.32	36.00	63.26	10.50	108
SG215BR	1805	4612	2688	5.78	39.13	60.14	11.13	110
AP7115	1773	4639	2730	5.15	38.22	61.25	11.47	103
AP7126	1757	4642	2867	4.64	37.85	61.53	9.45	117
HCR9257	1744	4583	2760	4.71	38.06	60.90	9.77	110
S4892BR	1729	4422	2583	5.37	39.09	60.19	11.93	100
NU33B	1723	4895	3152	5.22	35.20	64.48	10.67	127
SX9905	1718	4488	2754	6.08	38.29	61.25	11.73	120
S4691B	1701	4372	2612	5.44	38.90	59.82	11.70	103
8M007	1679	4253	2607	5.50	39.48	59.94	10.23	100
DP451BR	1676	4841	3027	5.59	34.63	64.46	11.77	112
0001B	1652	4393	2709	5.90	37.61	61.62	12.03	105
ST474	1620	4241	2584	4.89	38.21	60.67	11.33	100
ST580	1620	4538	2832	5.44	35.69	63.49	10.67	118
DP565	1606	4375	2693	4.87	36.71	62.19	9.97	132
S4793RR	1535	4018	2370	4.91	38.19	60.87	11.63	100
FM958	1534	3992	2483	5.70	38.43	61.20	11.60	117
SG501BR	1528	4131	2529	4.93	36.99	62.21	11.43	118
PSC355	1508	4042	2406	4.62	37.30	61.45	10.67	115
8839-3-1	1408	3971	2465	4.50	35.45	64.04	11.50	122
8806-3-2	1380	3822	2309	5.02	36.10	61.85	10.53	102
PYR	1369	3508	2135	5.40	39.04	60.50	10.97	95
SPHX	1282	3594	2195	4.86	35.67	63.88	11.40	93
MEAN	1631	4349	2646	5.21	37.52	61.67	11.05	110
LSD	45	119	75	.18	.54	.54	.19	4
CV	5	5	5	7.48	1.7	0.8	3.48	7

\*=not significantly different in lint yield from top yielding line

Table 8. Agronomic Characteristics, MAC Full Season 2001

<b>Entry</b>	<b>LY (lbs/A)</b>	<b>SCY (lbs/A)</b>	<b>SDY (lbs/A)</b>	<b>BW (g)</b>	<b>LP</b>	<b>SP</b>	<b>SI (g/100)</b>	<b>HT (cm)</b>
DP448B	1992*	5584	3539	5.17	35.70	63.43	10.6	135
SG747	1962*	5076	2969	5.42	39.17	59.27	11.1	127
SX9905	1940*	5144	3218	5.75	37.25	61.80	11.4	148
S4892BR	1929*	5073	3042	5.17	38.43	60.60	12.0	127
HCR9257	1908	5141	3100	4.80	37.57	61.03	9.7	138
DP565	1872	5052	3213	5.04	36.40	62.47	10.0	155
SG215BR	1868	5031	3068	5.62	37.33	61.30	11.0	132
ST474	1857	4725	2936	5.08	38.17	60.33	11.4	135
L954020	1855	4966	3030	5.73	37.73	61.63	10.8	125
S0001B	1843	5088	3030	5.83	37.57	61.77	11.7	127
S4793RR	1825	4725	2924	5.05	37.40	59.90	11.4	138
NU33B	1815	5275	3424	5.21	34.30	64.70	10.5	148
SG501BR	1751	4853	3007	5.07	36.50	62.70	11.7	140
S8M007	1711	4500	2764	5.21	37.77	61.03	10.6	123
FM966	1673	4413	2757	5.87	37.63	62.03	12.4	138
ST580	1653	4672	3024	5.24	35.00	64.03	10.9	147
S4691B	1614	4806	2958	6.20	34.57	63.37	11.4	125
1517-99	1610	4574	2883	5.17	35.43	63.43	11.4	152
DP458BR	1610	4526	2826	5.13	35.20	63.97	10.7	158
L433287	1573	4562	2890	5.20	34.97	64.23	11.4	137
DP555BR	1562	3822	2398	4.41	38.63	59.30	8.1	188
FM989	1291	3496	2228	5.82	36.37	62.77	11.8	145
ATLAS	1260	4051	2393	5.87	34.03	64.63	12.2	130
MAXXA	1248	3421	2097	5.28	36.63	61.57	13.2	133
MEAN	1718	4690	2909	5.34	36.65	62.14	11.1	139
LSD	77	156	123	.16	.62	.73	3.5	21
CV	6	7	6	6.58	3.91	2.83	3.1	8

\*=not significantly different in lint yield from top yielding line



Table 9. Agronomic Characteristics, Marana 2001

<b>Entry</b>	<b>LY (lbs/A)</b>	<b>SCY (lbs/A)</b>	<b>SDY (lbs/A)</b>	<b>BW (g)</b>	<b>LP</b>	<b>SP</b>	<b>SI (g/100)</b>	<b>HT (cm)</b>
SG215BR	1317*	3597	2196	5.72	38.02	61.21	10.87	132
S4691B	1297*	3444	2127	5.76	38.18	60.91	11.40	132
FM958	1288*	3286	2049	5.56	38.76	60.21	11.13	134
SG105	1247*	3382	2056	5.85	37.33	61.21	11.47	135
DP451BR	1241*	3466	2180	5.21	33.54	65.46	11.60	132
ST474	1228*	3192	2023	5.24	38.73	60.35	10.8	127
DP565	1225*	3124	1971	5.07	38.05	61.26	9.33	154
DP448B	1221	3279	2058	5.06	36.30	62.84	10.03	147
S4892BR	1220	3485	1986	5.82	39.16	59.73	11.30	133
NU33B	1213	3245	2014	4.79	35.79	63.89	9.47	145
SG501BR	1159	3298	1845	5.08	37.79	61.31	11.07	139
PM1560B	1152	3304	1855	4.98	37.61	61.41	10.97	115
P1560BR	1108	2962	1802	5.32	38.71	60.63	10.67	145
NU35B	1001	2847	1698	5.30	35.84	63.62	10.67	171
DP655BR	994	2707	1669	5.53	36.03	63.27	10.47	164
S4793RR	955	3214	1564	5.21	38.95	59.66	10.60	139
DP5690	937	2791	1554	5.22	37.16	61.97	10.47	161
D5415RR	935	2732	1536	4.80	37.02	62.20	9.40	137
D5690RR	931	2800	1590	5.40	36.44	63.12	10.27	168
FM989	919	2915	1554	5.71	36.98	62.30	11.17	150
PM1560	872	2993	1411	5.93	37.78	61.03	11.60	139
FM966	868	2528	1422	6.04	37.93	61.43	11.83	136
DP5415	808	2452	1383	4.78	36.05	63.30	9.27	147
DP458BR	746	2710	1308	5.17	35.97	63.21	9.93	161
MEAN	1078	3114	1785	5.36	37.24	61.90	10.66	143
LSD	95	115	152	.14	.51	.53	.28	4
CV	23	8	23	5.04	2.22	1.16	4	6

\*=not significantly different in lint yield from top yielding line

Table 10. Agronomic Characteristics, Safford 2001

<b>Entry</b>	<b>LY (lbs/A)</b>	<b>SCY (lbs/A)</b>	<b>SDY (lbs/A)</b>	<b>BW (g)</b>	<b>LP</b>	<b>SP</b>	<b>SI (g/100)</b>	<b>HT (cm)</b>
SG215BR	1330	3343	1977	5.59	39.8	59.1	9.9	98
NU33B	1297	3443	2116	4.38	37.7	61.5	8.7	112
SG521RR	1290	3360	2028	5.11	38.4	60.4	10.3	111
SG501BR	1288	3365	2036	4.76	38.3	60.5	9.8	97
DP451BR	1262	3483	2186	5.27	36.2	62.7	10.7	107
GC377	1256	3194	1899	4.91	39.3	59.5	8.5	110
DP555BR	1216	2834	1581	4.63	42.9	55.8	7.6	98
AP7126	1214	3109	1862	4.03	39.1	59.9	8.1	88
DP448B	1181	3075	1858	4.99	38.4	60.4	9.1	94
FM989	1153	2949	1764	6.02	39.1	59.8	10.6	112
DP565	1120	2863	1721	5.19	39.1	60.1	8.9	117
DELTA	1106	2748	1633	4.73	40.3	59.4	8.8	118
8806-3-2	1098	2940	1793	4.45	37.3	61.0	9.8	102
1517-99	1089	2912	1780	5.70	37.4	61.1	11.6	120
8839-3-1	1089	2920	1788	5.32	37.3	61.2	10.7	99
S9905	1088	2781	1671	5.61	39.1	60.1	10.5	104
FM966	1085	2740	1623	5.83	39.6	59.2	11.3	92
ST580	1079	2797	1688	4.82	38.6	60.4	9.5	104
ST474	989	2467	1461	4.74	40.1	59.2	10.0	102
SG747	989	2405	1393	5.09	41.1	57.9	9.7	102
HCR9257	954	2483	1500	5.01	38.4	60.4	9.2	100
P1560BR	937	2472	1503	4.95	37.9	60.8	10.4	88
DP458BR	905	2491	1536	4.80	36.3	61.7	9.1	112
GC114	905	2581	1626	4.46	35.0	63.0	10.0	93
DP655BR	886	2414	1485	5.09	36.7	61.5	9.2	115
MAXXA	852	2151	1276	5.66	39.6	59.3	11.6	105
S0001B	764	2022	1226	5.26	37.8	60.6	10.6	100
FM958	700	1715	991	5.39	40.8	57.8	10.6	88
ATLAS	632	1824	1164	5.04	34.6	63.8	11.0	88
PYR	582	1503	901	4.93	38.7	60.0	9.7	81
SPHX	581	1609	1010	4.49	36.1	62.8	10.2	90
S8M007	565	1476	888	4.85	38.3	60.2	9.5	85
MEAN	1015	2640	1593	5.04	38.4	60.3	9.9	101
LSD	NS	NS	NS	1	2.2	1.9	1.3	*
CV	33	33	33	8.26	2.4	1.3	5.2	*

\*analysis could not be run