

# 2015 Cotton Performance Testing Results

University of Missouri - Delta Center

Portageville Clay Variety Trial

Location: Portageville

Investigator: Andrea Phillips Jones

Planted May 5, 2015  
Harvested October 8, 2015

|                | Yield    | Turnout | Mic     | Length   | Unif     | Strng    | Elong   | Rd       | +b      | Leaf  |
|----------------|----------|---------|---------|----------|----------|----------|---------|----------|---------|-------|
| DP 1614 B2XF   | 1216 a   | 40 abc  | 4.2 a-g | 1.24 bc  | 84.1 a-f | 31.5 e-i | 8.2 abc | 78.6 ij  | 8.1 a-d | 6 abc |
| DG 3385 B2XF   | 1195 ab  | 39 a-d  | 4.3 a-e | 1.18 gh  | 85.2 ab  | 31.2 ghi | 8.2 a-d | 81.2 b-f | 7.9 a-f | 3 efg |
| PHY 495 W3RF   | 1168 abc | 40 ab   | 4.0 f-i | 1.16 hij | 83.8 b-g | 34.0 ab  | 7.8 c-h | 78.9 hij | 7.9 a-f | 4 b-g |
| DP 1522 B2XF   | 1168 abc | 38 e-i  | 4.2 a-g | 1.20 d-g | 84.6 a-d | 31.6 d-i | 8.4 ab  | 80.9 b-g | 7.9 b-g | 4 b-g |
| PHY 333 WRF    | 1150 a-d | 39 a-d  | 4.0 e-i | 1.22 b-e | 84.3 a-e | 31.9 c-i | 6.9 klm | 78.4 j   | 7.8 b-g | 5 a-e |
| DP 1518 B2XF   | 1150 a-d | 38 b-f  | 3.9 g-j | 1.22 c-f | 84.3 a-e | 31.0 hi  | 6.8 klm | 80.7 b-g | 7.1 kl  | 5 a-e |
| MON 15R513B2XF | 1144 a-d | 39 b-f  | 4.4 ab  | 1.22 bcd | 84.6 a-d | 31.8 c-i | 7.2 g-l | 79.8 f-j | 7.5 e-k | 6 a-d |
| PHY 312 WRF    | 1135 a-d | 38 e-j  | 4.0 d-i | 1.23 bcd | 85.3 a   | 32.4 c-i | 7.2 h-l | 80.2 c-h | 7.5 f-k | 5 a-f |
| NG 3522 B2XF   | 1133 a-d | 39 a-d  | 4.0 e-i | 1.15 ij  | 83.2 d-h | 28.7 j   | 7.2 h-l | 81.3 b-f | 7.8 b-g | 3 d-g |
| NG 3405 B2XF   | 1112 a-e | 38 b-f  | 3.9 g-j | 1.16 g-j | 82.8 fgh | 29.4 j   | 7.2 g-l | 81.2 b-f | 8.0 a-f | 3 g   |
| PHY 496 W3RF   | 1106 a-e | 39 b-e  | 4.3 a-d | 1.17 g-j | 84.3 a-e | 32.6 b-h | 7.9 a-f | 79.9 e-i | 8.2 ab  | 4 c-g |
| ST 4747GLB2    | 1094 a-e | 37 g-k  | 4.1 b-h | 1.25 b   | 83.6 c-g | 31.5 e-i | 5.7 n   | 80.3 c-h | 6.8 l   | 6 abc |
| DP 1612 B2XF   | 1091 a-e | 37 f-j  | 4.3 a-d | 1.22 c-f | 84.8 abc | 33.1 a-d | 8.1 a-d | 78.6 ij  | 7.7 b-i | 6 ab  |
| NG 3406 B2XF   | 1088 a-f | 38 d-h  | 4.1 b-h | 1.18 gh  | 85.0 abc | 31.1 ghi | 8.2 a-d | 81.5 bcd | 7.8 b-h | 4 b-g |
| DG 2285 B2RF   | 1082 a-f | 38 e-j  | 4.2 a-f | 1.19 fgh | 84.6 a-d | 30.8 i   | 8.0 a-e | 80.6 b-g | 7.7 b-h | 4 b-g |
| ST 4946GLB2    | 1079 a-f | 38 e-j  | 4.3 abc | 1.18 gh  | 84.5 a-e | 34.4 a   | 7.8 b-g | 80.0 d-i | 8.1 abc | 4 d-g |
| DG CT 15426    | 1073 a-g | 40 a    | 4.1 b-h | 1.17 g-j | 84.5 a-e | 31.7 d-i | 8.5 ab  | 81.4 b-e | 8.0 a-e | 3 fg  |
| UA222          | 1073 a-g | 36 klm  | 4.2 a-f | 1.24 bc  | 84.5 a-e | 33.0 a-e | 8.5 a   | 80.4 b-g | 7.5 e-k | 5 b-g |
| PHY 444 WRF    | 1058 b-g | 38 c-g  | 3.3 k   | 1.30 a   | 84.8 abc | 31.9 c-i | 6.6 lm  | 81.9 b   | 7.9 b-g | 4 c-g |
| HQ210CT        | 1052 b-h | 35 m    | 4.3 abc | 1.17 ghi | 83.7 c-g | 32.5 c-h | 6.9 klm | 81.5 bcd | 7.4 g-k | 3 fg  |
| ST 5032GLT     | 1031 c-i | 36 jkl  | 3.8 ij  | 1.22 b-e | 83.2 d-h | 31.8 c-i | 7.3 f-k | 80.5 b-g | 7.7 b-h | 5 a-f |
| PHY 487 WRF    | 1028 c-i | 36 i-l  | 4.2 b-h | 1.14 j   | 83.1 e-h | 31.5 e-i | 8.0 a-d | 79.4 g-j | 8.0 a-e | 5 a-e |
| PHY 339 WRF    | 1016 c-j | 37 g-k  | 4.1 c-i | 1.22 c-f | 84.6 a-d | 32.4 c-i | 7.4 e-k | 81.1 b-f | 7.3 h-k | 5 b-g |
| FM 1944GLB2    | 1007 d-j | 35 lm   | 4.2 b-h | 1.24 bc  | 84.0 a-f | 32.5 b-h | 6.3 m   | 81.5 bcd | 7.2 i-l | 5 b-g |

|   |          |        |         |          |          |          |         |          |         |        |
|---|----------|--------|---------|----------|----------|----------|---------|----------|---------|--------|
| PHY 499 WRF   | 1004 d-j | 39 b-e | 4.2 a-f | 1.16 hij | 83.6 c-g | 33.3 abc | 8.1 a-d | 79.8 f-j | 8.4 a   | 3 d-g  |
| ST 5115GLT  | 972 e-j  | 37 h-k | 3.8 ij  | 1.17 g-j | 82.1 h   | 31.8 c-i | 7.6 d-j | 83.2 a   | 7.4 g-k | 3 efg  |
| PHY 427 WRF   | 969 e-j  | 36 klm | 3.9 g-j | 1.16 g-j | 83.8 b-g | 32.7 b-g | 7.9 a-f | 80.9 b-g | 7.6 d-k | 5 a-f  |
| PHY 222 WRF   | 939 f-j  | 36 jkl | 4.5 a   | 1.18 ghi | 84.8 abc | 32.2 c-i | 7.7 c-i | 79.7 f-j | 7.6 c-j | 5 b-g  |
| BRS 335   | 927 g-j  | 37 f-j | 3.7 j   | 1.23 bcd | 84.5 a-e | 32.8 b-f | 6.9 klm | 80.6 b-g | 7.2 i-l | 5 a-f  |
| BRS 293   | 927 g-j  | 37 ijk | 4.1 c-i | 1.19 e-h | 83.7 c-g | 34.0 ab  | 7.1 i-l | 80.5 b-g | 8.1 ab  | 4 d-g  |
| ST 6182GLT  | 909 hij  | 40 ab  | 3.9 hij | 1.18 gh  | 83.7 b-g | 31.3 f-i | 7.2 g-l | 81.6 bc  | 7.8 b-g | 3 fg   |
| BRS 286   | 897 ij   | 36 i-l | 4.2 a-g | 1.17 ghi | 83.6 c-g | 32.5 c-h | 7.2 g-l | 80.6 b-g | 7.4 g-k | 4 b-g  |
| ST 5289GLT  | 876 j    | 36 klm | 4.1 b-h | 1.18 ghi | 82.5 gh  | 30.8 i   | 6.9 jkl | 80.0 d-i | 7.2 jkl | 7 a    |
|   |          |        |         |          |          |          |         |          |         |        |
| LSD (P=.05)   | 123      | 0.013  | 0.235   | 0.0277   | 1.2      | 1.3      | 0.5     | 1.3      | 0.409   | 1.83   |
| Standard Deviation  | 87.8     | 0.009  | 0.168   | 0.0198   | 0.8      | 0.9      | 0.4     | 0.9      | 0.292   | 1.31   |
| CV  | 8.31     | 2.38   | 4.12    | 1.65     | 1.0      | 2.9      | 5.1     | 1.1      | 3.81    | 30.12  |
| Grand Mean  | 1056.65  | 0.38   | 4.07    | 1.2      | 84.0     | 32.0     | 7.5     | 80.5     | 7.66    | 4.35   |
| Replicate F   | 22.624   | 3.497  | 3.566   | 4.59     | 1.1      | 2.0      | 1.3     | 0.3      | 1.925   | 0.83   |
| Replicate Prob(F)   | 0.0001   | 0.0185 | 0.017   | 0.0048   | 0.4      | 0.1      | 0.3     | 0.8      | 0.1307  | 0.4805 |
| Treatment F   | 4.341    | 11.563 | 7.288   | 12.874   | 3.3      | 6.5      | 12.1    | 5.4      | 6.076   | 3.041  |
| Treatment Prob(F)   | 0.0001   | 0.0001 | 0.0001  | 0.0001   | 0.0      | 0.0      | 0.0     | 0.0      | 0.0001  | 0.0001 |
| Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT) |          |        |         |          |          |          |         |          |         |        |

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