

Table 8. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Lubbock, TX. (Cooperator: Jane Dever)

| Cultivar | Lint Yield | Lint Percent | Gin Turnout | Lint Index | Boll Size | Seed per Boll | Seed Index | MIC | UHM | UI | STRN | ELO | SFC | QS1 [†] | QS2 [†] |
|------------------|------------|--------------|-------------|------------|-----------|---------------|------------|-------|--------|-------|-------|------|-------|------------------|------------------|
| | lbs/a | % | % | grams | grams | # | grams | mic | inches | % | g/tex | % | % | | |
| Ark 0502-37 | 1385 | 38.84 | 31.40 | 6.30 | 5.88 | 29.34 | 9.70 | 4.33 | 1.12 | 79.70 | 30.80 | 6.40 | 9.95 | 46.00 | 59.50 |
| MD-DC | 1321 | 34.45 | 26.89 | 5.78 | 6.46 | 30.16 | 10.55 | 3.53 | 1.14 | 81.25 | 30.75 | 6.15 | 9.60 | 55.50 | 69.00 |
| MD 25-26ne | 1306 | 37.00 | 29.62 | 6.48 | 7.15 | 32.66 | 10.75 | 3.60 | 1.24 | 81.55 | 32.70 | 5.95 | 8.40 | 82.50 | 77.00 |
| Ark 0506-47 | 1290 | 37.89 | 30.95 | 6.25 | 6.19 | 30.69 | 10.00 | 4.29 | 1.16 | 81.70 | 32.45 | 5.50 | 8.95 | 72.00 | 76.50 |
| SG 105 ck | 1288 | 37.52 | 30.53 | 6.25 | 6.43 | 31.62 | 10.00 | 4.08 | 1.10 | 80.80 | 28.95 | 6.75 | 10.20 | 53.50 | 69.00 |
| Ark 0517-54 | 1276 | 35.64 | 27.83 | 5.83 | 6.43 | 30.91 | 9.75 | 3.79 | 1.10 | 79.20 | 27.50 | 6.00 | 10.65 | 38.00 | 41.50 |
| OA-33 | 1269 | 36.24 | 30.43 | 5.85 | 6.22 | 32.43 | 9.50 | 3.78 | 1.11 | 80.15 | 30.05 | 6.30 | 10.35 | 53.00 | 64.50 |
| LA10307140 | 1264 | 38.09 | 30.78 | 6.72 | 6.66 | 30.50 | 10.45 | 3.62 | 1.12 | 81.35 | 31.95 | 6.80 | 9.50 | 57.50 | 72.00 |
| MD 10-5 | 1262 | 40.96 | 33.25 | 6.72 | 6.81 | 33.70 | 9.30 | 3.86 | 1.13 | 80.45 | 31.20 | 6.00 | 9.60 | 58.00 | 67.00 |
| AU51038 | 1254 | 38.61 | 31.27 | 6.05 | 6.08 | 31.49 | 9.25 | 3.53 | 1.14 | 78.65 | 31.05 | 6.00 | 10.55 | 53.00 | 56.00 |
| PX06520-42-2-1 | 1247 | 37.96 | 29.74 | 6.83 | 6.75 | 29.38 | 10.90 | 4.20 | 1.20 | 82.00 | 36.25 | 6.65 | 8.95 | 89.00 | 91.00 |
| FM 958 ck | 1226 | 36.79 | 29.39 | 6.30 | 6.55 | 30.61 | 10.45 | 3.97 | 1.12 | 81.65 | 29.75 | 6.45 | 9.65 | 61.00 | 75.00 |
| PD05069 | 1223 | 39.34 | 30.40 | 6.29 | 6.27 | 30.28 | 9.35 | 4.04 | 1.16 | 80.35 | 31.95 | 5.95 | 9.55 | 70.00 | 69.50 |
| MD 10-6 | 1219 | 40.73 | 31.74 | 6.58 | 6.71 | 32.39 | 9.25 | 3.63 | 1.10 | 81.20 | 29.80 | 6.30 | 9.15 | 46.50 | 68.00 |
| GA 2008016 | 1206 | 39.32 | 31.22 | 6.29 | 5.83 | 28.96 | 9.30 | 3.94 | 1.12 | 79.50 | 30.15 | 5.20 | 10.30 | 51.50 | 60.50 |
| LA10307108 | 1206 | 35.47 | 28.56 | 5.48 | 5.97 | 31.07 | 9.45 | 3.42 | 1.12 | 79.70 | 29.10 | 6.10 | 10.70 | 44.50 | 59.00 |
| DP 393 ck | 1197 | 38.72 | 29.09 | 6.57 | 6.51 | 28.84 | 9.90 | 4.25 | 1.09 | 80.75 | 29.50 | 7.00 | 9.60 | 53.50 | 69.00 |
| PX06520-42-2-3 | 1181 | 34.91 | 25.73 | 6.70 | 7.42 | 28.56 | 12.05 | 4.07 | 1.23 | 82.80 | 38.00 | 6.60 | 8.20 | 99.00 | 98.50 |
| LA10307021 | 1181 | 37.08 | 30.14 | 6.63 | 6.75 | 30.69 | 10.65 | 3.39 | 1.13 | 80.45 | 30.40 | 4.95 | 9.90 | 52.00 | 64.50 |
| GA 2009037 | 1173 | 34.66 | 27.53 | 5.56 | 5.59 | 27.94 | 9.95 | 3.07 | 1.11 | 79.90 | 29.60 | 6.20 | 10.50 | 37.50 | 57.50 |
| NM1301 | 1145 | 38.14 | 30.75 | 5.71 | 5.58 | 30.07 | 9.00 | 4.16 | 1.10 | 79.95 | 30.65 | 6.55 | 10.70 | 54.00 | 64.50 |
| PD06078 | 1133 | 37.65 | 32.57 | 6.45 | 5.77 | 28.93 | 10.30 | 3.89 | 1.15 | 80.90 | 30.95 | 6.15 | 9.20 | 69.00 | 72.50 |
| GA 2009100 | 1121 | 34.50 | 28.27 | 5.34 | 6.21 | 32.82 | 9.50 | 3.88 | 1.11 | 80.15 | 30.65 | 5.75 | 10.00 | 53.00 | 64.50 |
| Ark 0504-4 | 1096 | 37.61 | 30.58 | 6.22 | 5.91 | 29.07 | 9.95 | 4.26 | 1.16 | 81.95 | 31.15 | 6.10 | 8.85 | 75.50 | 79.50 |
| LA09309116 | 1089 | 36.96 | 29.96 | 6.41 | 7.06 | 32.98 | 10.50 | 3.81 | 1.18 | 81.10 | 31.45 | 7.05 | 9.10 | 73.50 | 74.00 |
| NM1303 | 1081 | 31.52 | 24.51 | 4.78 | 5.30 | 27.36 | 9.85 | 3.40 | 1.12 | 79.40 | 28.55 | 6.85 | 11.10 | 44.00 | 57.00 |
| NM1302 | 1068 | 34.76 | 28.21 | 5.82 | 5.69 | 27.74 | 10.60 | 3.19 | 1.15 | 79.50 | 28.85 | 6.55 | 10.05 | 47.50 | 43.00 |
| AU10090 | 1064 | 38.72 | 31.05 | 5.95 | 6.22 | 32.49 | 9.00 | 3.86 | 1.19 | 80.95 | 31.40 | 5.75 | 9.40 | 79.50 | 74.50 |
| PD07092 | 1024 | 35.79 | 29.39 | 6.26 | 6.61 | 31.03 | 10.70 | 3.70 | 1.16 | 82.10 | 33.83 | 5.66 | 8.72 | 71.33 | 79.44 |
| AU55052 | 993 | 34.65 | 26.96 | 5.42 | 6.12 | 30.48 | 9.90 | 3.64 | 1.15 | 80.20 | 31.70 | 5.90 | 9.40 | 63.50 | 67.00 |
| Acala 1517-99 | 981 | 35.78 | 28.01 | 6.35 | 6.74 | 29.71 | 11.05 | 3.90 | 1.14 | 81.00 | 32.15 | 5.70 | 9.15 | 66.00 | 72.50 |
| PD05064 | 945 | 36.02 | 28.98 | 5.62 | 5.98 | 30.80 | 9.25 | 3.19 | 1.14 | 79.95 | 31.10 | 5.95 | 10.65 | 50.50 | 61.00 |
| AU68036 | 927 | 37.96 | 30.27 | 6.04 | 5.97 | 30.00 | 9.25 | 3.87 | 1.11 | 79.75 | 30.50 | 5.80 | 10.40 | 47.50 | 61.00 |
| GA 2010098 | 925 | 39.25 | 31.47 | 6.52 | 6.76 | 32.62 | 9.70 | 3.68 | 1.11 | 79.45 | 30.45 | 5.70 | 10.70 | 48.00 | 59.00 |
| | | | | | | | | | | | | | | | |
| Mean | 1164 | 37.05 | 29.63 | 6.13 | 6.31 | 30.54 | 9.97 | 3.79 | 1.14 | 80.57 | 31.04 | 6.14 | 9.75 | 59.30 | 67.47 |
| LSD (.05) | 241 | 2.12 | 2.15 | 0.68 | 0.68 | 4.40 | 0.97 | 0.85 | 0.04 | 1.82 | 1.50 | 0.55 | 1.21 | 20.82 | 17.44 |
| | | | | | | | | | | | | | | | |
| CV(%) | 14.33 | 2.81 | 3.57 | 5.46 | 5.30 | 7.07 | 4.79 | 10.84 | 1.67 | 1.09 | 2.34 | 4.30 | 5.97 | 17.06 | 12.55 |
| R-Square | 0.46 | 0.89 | 0.87 | 0.82 | 0.81 | 0.54 | 0.81 | 0.72 | 0.89 | 0.72 | 0.94 | 0.87 | 0.79 | 0.82 | 0.80 |
| Reps | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Shaded values are not significantly different from highest value according to LSD(0.05).

[†] QS1 & QS2 = Qscore, very similar to a selection index, adds the weighted values of selected fiber traits (length, mic, UI, strength) to provide a single measure (0-100) of desirable fiber qualities, and was calculated by weighting selected fiber traits