

Table 20. Least square means for lint yield grown with two irrigation treatments (wet vs. dry) in the 2017 RBTN conducted at Maricopa, AZ. Cultivars were grown in a 0,1 alpha lattice design with three replicates per treatment planted (May 10, 2017). The dry treatment started at first flower (July 14, 2017) and continued to the last day of irrigation (Sept. 08, 2017). The data was analyzed in SAS v9.4 using a mixed model (Cooperator: Alison Thompson)

| Cultivar | Mean | Irrigation Treatment | | Treatment Difference | Treatment Difference |
|------------------------------|--------|----------------------|------------------|----------------------|----------------------|
| | | Wet ¹ | Dry ² | | |
| | lbs/a | lbs/a | lbs/a | lbs/a | P-value ³ |
| Acala 1517-08 | 1376 | 1579 | 1173 | -406 | 0.00 |
| Ark 0908-60 | 1468 | 1527 | 1409 | -117 | 0.31 |
| Ark 0911-13 | 1593 | 1729 | 1458 | -271 | 0.02 |
| Ark 0912-18 | 1665 | 1823 | 1507 | -316 | 0.01 |
| Ark 0921-27ne | 1529 | 1691 | 1367 | -323 | 0.01 |
| Ark 0921-31ne | 1467 | 1549 | 1384 | -165 | 0.16 |
| AU 90098 | 1539 | 1656 | 1422 | -233 | 0.05 |
| DP 393 CK | 1558 | 1719 | 1396 | -323 | 0.01 |
| DP 493 CK | 1762 | 1813 | 1711 | -102 | 0.38 |
| FM 958 CK | 1476 | 1653 | 1300 | -354 | 0.00 |
| GA 2012141 | 1452 | 1476 | 1428 | -47 | 0.68 |
| GA 2015032 | 1520 | 1635 | 1404 | -231 | 0.05 |
| GA 2015073 | 1609 | 1678 | 1539 | -139 | 0.23 |
| GA 2015090 | 1422 | 1462 | 1381 | -80 | 0.49 |
| LA14063001 | 1758 | 1946 | 1569 | -377 | 0.00 |
| LA14063038 | 1607 | 1760 | 1454 | -306 | 0.01 |
| LA14063046 | 1701 | 1784 | 1619 | -165 | 0.16 |
| LA14063083 | 1721 | 1929 | 1513 | -416 | 0.00 |
| LA14063101 | 1727 | 1986 | 1468 | -518 | <.0001 |
| NM 13R1015 | 1553 | 1728 | 1377 | -352 | 0.00 |
| NM 16-13P1088 | 1266 | 1390 | 1143 | -247 | 0.03 |
| PD 07040 | 1550 | 1792 | 1307 | -485 | <.0001 |
| PD 08028 | 1386 | 1525 | 1248 | -277 | 0.02 |
| PD 09046 | 1291 | 1370 | 1211 | -159 | 0.17 |
| PD 09084 | 967 | 970 | 964 | -6 | 0.96 |
| PD 2013016 | 1330 | 1336 | 1325 | -11 | 0.92 |
| TAM 13Q-18 | 1485 | 1452 | 1517 | 65 | 0.57 |
| TAM 13Q-51 | 1503 | 1659 | 1348 | -311 | 0.01 |
| TAM 13S-03 | 1605 | 1733 | 1477 | -256 | 0.03 |
| TAM LBB130218 | 1350 | 1409 | 1292 | -117 | 0.31 |
| TAM LBB131001 | 1426 | 1528 | 1323 | -205 | 0.08 |
| TAM WK-11L | 1418 | 1559 | 1277 | -282 | 0.02 |
| Tamcot G11 | 1564 | 1648 | 1480 | -168 | 0.15 |
| UA 222 CK | 1591 | 1688 | 1493 | -195 | 0.09 |
| Mean | 1507 | 1623 | 1391 | - | - |
| Cultivar (P>F) | <.0001 | - | - | - | - |
| Treatment (P>F) | 0.0041 | - | - | - | - |
| Cult. x Trt. (P>F) | 0.0481 | - | - | - | - |
| Reps | 3 | - | - | - | - |

¹ Wet treatment = 1230.1 mm total water from May to September

² Dry treatment= 1058.0 mm total water from May to September

³ p-values from Tukey comparison of lsmeans difference