Appendix S1.Root biomass electrical capacitance (REC nF) family means, errors (±SE), and Tukey honest significant difference (HSD) at a 95% level of confidence. A *t*-test of significance was carried out on family progeny and the respective midparent value to ascertain the magnitude of midparent heterosis (MPH), where the hypothesized differences in means is zero. Families 430, 423, and 421 display midparent heterosis for REC, whereas all other families are not significantly different (*P* < 0.05) from their midparent values. The male parent of family 425 was not present in this trial, thus midparent heterosis of family 425 is not shown.

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| --- | --- | --- | --- | --- | --- | --- |
| Family | Mean | ±SE | HSD | MPH | *t* value | *P* value |
| 430 | 182.8 | 7.2 | a | 36.3 | 4.09 | <0.001 |
| 423 | 167.3 | 5.6 | ab | 25.1 | 3.56 | 0.003 |
| 421 | 163.8 | 6.2 | abc | 20.5 | 2.59 | 0.020 |
| 407 | 147.7 | 6.9 | bcd | 7.4 | 0.84 | 0.415 |
| 425 | 142.5 | 5.4 | bcde | — | — | — |
| 317 | 137.7 | 4.5 | cde | 6.9 | 0.99 | 0.337 |
| 082 | 130.6 | 4.8 | de | −4.2 | −0.59 | 0.565 |
| 415 | 120.8 | 4.5 | e | −9.9 | −1.56 | 0.142 |