Table 1. Experimental design.

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| --- | --- | --- | --- | --- |
| Orchard Row | Block | Cultivartreatment | Number of trees grafted in 2011 preliminary trial | Total number of trees grafted, 2011 and 2012 |
| B | 1 | Gideon | 3 | 7 |
| C | 1 | Peach | 3\* | 5 |
| D | 1 | Control | 0 | 0 |
| E | 1 | Qing | 3 | 16 |
| F | 2 | Control | 0 | 0 |
| G | 2 | Gideon | 3 | 15 |
| H | 2 | Peach | 3 \*  | 10 |
| I | 2 | Qing | 4 | 19 |
| J | 3 | Gideon | 4 | 20 |
| K | 3 | Qing | 3 | 16 |
| L | 3 | Peach | 3\* | 14 |
| M | 3 | Control | 0 | 0 |
| N | 4 | Gideon | 2 | 16 |
| O | 4 | Qing | 3 | 17 |
| P | 4 | Peach | 2\* | 21 |
| Q | 4 | Control | 0 | 0 |
| TOTALS in Experiment |  |  |   | 176 |

\*We had originally decided to use the Eaton cultivar rather than Peach cultivar for the “Peach” treatment. In the 2011 preliminary trial we did graft Eaton rather than Peach scion wood for the 11 trees in the “Peach” treatment. However later in 2011 we heard reports from other locations of an exceptional number of graft failures for Eaton cultivars that had been grafted about 8 years previously. Until the cause of this delayed graft failure in Eaton cultivars is resolved, it seems prudent to switch to another cultivar. Like Eaton, the Peach variety has high nut yields but has not shown similar problems with graft failure. Consequently we used the Peach cultivar for the 50 total trees in the “Peach” treatment that were grafted in 2012.