

Supplementary Table S7. Comparisons of Cultivar x Treatment interactions in each trait in the 2017 experiment (Expt.2019)

(left half: treatment comparisons for each cultivar; right half: cultivar comparisons for each treatment)

| Trait | Cultivar | Treatment | Significance at P=0.05 | Least Sq Mean | Treatment | Cultivar | Significance at P=0.05 | Least Sq Mean | |
|------------------------------------|---------------------|------------|------------------------|---------------|-----------|---------------|------------------------|---------------|--------|
| Nitrate content (mg/kg) | Jinpeng 11 | T3 | B | 318.98 | T1 | Fengshouhuang | B | 5952.2 | |
| | | T5 | B | 324.18 | | Jinpeng 11 | A | 6643.08 | |
| | | T1 | B | 325.47 | T2 | Fengshouhuang | B | 6018.34 | |
| | | T4 | B | 327.61 | | Jinpeng 11 | A | 6686.37 | |
| | | T2 | B | 331.58 | T3 | Fengshouhuang | B | 5914.87 | |
| | | T6 | A | 785.24 | | Jinpeng 11 | A | 6654.31 | |
| | Fengshouhuang | T5 | B | 381.57 | T4 | Fengshouhuang | B | 6002.57 | |
| | | T1 | B | 389.42 | | Jinpeng 11 | A | 6672.13 | |
| | | T3 | B | 389.79 | T5 | Fengshouhuang | B | 5942.88 | |
| | | T4 | B | 390.37 | | Jinpeng 11 | A | 6640.19 | |
| | | T2 | B | 394.13 | T6 | Fengshouhuang | B | 5689.54 | |
| | | T6 | A | 503.69 | | Jinpeng 11 | A | 6519.81 | |
| | Soluble_solids (%) | Jinpeng 11 | T2 | A | 6.5 | T1 | Fengshouhuang | A | 389.42 |
| | | | T4 | A | 6.5 | | Jinpeng 11 | B | 325.47 |
| T3 | | | A | 6.4 | T2 | Fengshouhuang | A | 394.13 | |
| T5 | | | A | 6.3 | | Jinpeng 11 | B | 331.58 | |
| T1 | | | A | 6.1 | T3 | Fengshouhuang | A | 389.79 | |
| T6 | | | B | 5.1 | | Jinpeng 11 | B | 318.98 | |
| Fengshouhuang | | T2 | A | 6 | T4 | Fengshouhuang | A | 390.37 | |
| | | T4 | A | 5.9 | | Jinpeng 11 | B | 327.61 | |
| | | T1 | A | 5.8 | T5 | Fengshouhuang | A | 381.57 | |
| | | T3 | A | 5.8 | | Jinpeng 11 | B | 324.18 | |
| | | T5 | A | 5.7 | T6 | Jinpeng 11 | A | 785.24 | |
| | | T6 | A | 5.6 | | Fengshouhuang | B | 503.69 | |
| Total_soluble_sugar_content (mg/g) | | Jinpeng 11 | T2 | A | 46.13 | T1 | Jinpeng 11 | A | 6.1 |
| | | | T4 | A | 45.71 | | Fengshouhuang | A | 5.8 |
| | T3 | | A | 44.37 | T2 | Jinpeng 11 | A | 6.5 | |
| | T5 | | A | 44.12 | | Fengshouhuang | B | 6 | |
| | T1 | | A | 44.05 | T3 | Jinpeng 11 | A | 6.4 | |
| | T6 | | B | 35.53 | | Fengshouhuang | B | 5.8 | |
| | Fengshouhuang | T2 | A | 37.92 | T4 | Jinpeng 11 | A | 6.5 | |
| | | T4 | A | 37.56 | | Fengshouhuang | B | 5.9 | |
| | | T3 | A | 37.22 | T5 | Jinpeng 11 | A | 6.3 | |
| | | T5 | A | 36.97 | | Fengshouhuang | B | 5.7 | |
| | | T1 | A | 36.88 | T6 | Fengshouhuang | A | 5.6 | |
| | | T6 | B | 35.64 | | Jinpeng 11 | B | 5.1 | |
| | Vitamin C (mg/100g) | Jinpeng 11 | T2 | A | 20.94 | T1 | Jinpeng 11 | A | 44.05 |
| | | | T4 | A | 20.16 | | Fengshouhuang | B | 36.88 |

| | | | | | | | | | |
|---------------|--|------------|----|---------|---------|---------------|---------------|-------|-------|
| | | T3 | A | 19.87 | T2 | Jinpeng 11 | A | 46.13 | |
| | | T5 | A | 19.77 | | Fengshouhuang | B | 37.92 | |
| | | T1 | A | 19.76 | T3 | Jinpeng 11 | A | 44.37 | |
| | | T6 | C | 17.21 | | Fengshouhuang | B | 37.22 | |
| | Fengshouhuang | T2 | A | 19.65 | T4 | Jinpeng 11 | A | 45.71 | |
| | | T4 | A | 19.31 | | Fengshouhuang | B | 37.56 | |
| | | T3 | A | 18.73 | T5 | Jinpeng 11 | A | 44.12 | |
| | | T5 | A | 18.22 | | Fengshouhuang | B | 36.97 | |
| | | T1 | A | 18.03 | T6 | Fengshouhuang | A | 35.64 | |
| | | T6 | B | 14.61 | | Jinpeng 11 | B | 35.53 | |
| | Fruit yield (kg/667m ²) | Jinpeng 11 | T2 | A | 6686.37 | T1 | Jinpeng 11 | A | 19.76 |
| | | | T4 | A | 6672.13 | | Fengshouhuang | A | 18.03 |
| | | | T3 | A | 6654.31 | T2 | Jinpeng 11 | A | 20.94 |
| | | | T1 | AB | 6643.08 | | Fengshouhuang | A | 19.65 |
| T5 | | | AB | 6640.19 | T3 | Jinpeng 11 | A | 19.87 | |
| T6 | | | B | 6519.81 | | Fengshouhuang | A | 18.73 | |
| Fengshouhuang | | T2 | A | 6018.34 | T4 | Jinpeng 11 | A | 20.16 | |
| | | T4 | A | 6002.57 | | Fengshouhuang | A | 19.31 | |
| | | T1 | A | 5952.2 | T5 | Jinpeng 11 | A | 19.77 | |
| | | T5 | A | 5942.88 | | Fengshouhuang | A | 18.22 | |
| | | T3 | A | 5914.87 | T6 | Jinpeng 11 | A | 17.21 | |
| | | T6 | B | 5689.54 | | Fengshouhuang | A | 14.61 | |