Table S1: Cultivars that required allometric correction prior to analysis. All cultivars were regressed for allometric effect and 11 demonstrated significant effect of size (presented here) Each of the significantly affected cultivars is presented with variation explained and associated p-values.

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| --- | --- | --- |
| Cultivar | % of variation explained by size | p-value of 10,000 permutations test |
| ‘Adam’s Pearmain’ | 2.70% | 0.0003 |
| ‘Boiken’ | 3.92% | 0.0076 |
| ‘Bovarde’ | 4.07% | 0.0083 |
| ‘Catshead’ | 7.15% | <0.0001 |
| ‘Fuji’ | 3.44% | 0.0245 |
| ‘Kaiser Franz Joseph’ | 7.95% | <0.0001 |
| ‘Limoncella’ | 4.72% | 0.001 |
| ‘Present van Engeland’ | 23.25% | <0.0001 |
| ‘Red Fortune’ | 4.96% | 0.0109 |
| ‘Rheinischer Krummstiel’ | 6.00% | 0.0002 |
| ‘Wheeler’s Russet’ | 3.05% | 0.0411 |