

## Carrizo

No official release notice is available for Carrizo.

Following is a description of Carrizo, taken from:

Bowman, K.D. and J. Joubert. 2020. Citrus rootstocks. In: *The Genus Citrus*; Talon, M., Caruso, M., Gmitter, F.G., Eds.; Woodhead Publishing, Cambridge, Mass.

Carrizo is hybrid of Washington Navel orange and *Poncirus trifoliata*, originating from a cross made at Riverside California in 1909, within the USDA citrus breeding program. Carrizo is often considered identical with Troyer, although separate clones are maintained in many locations, and this is still somewhat controversial (McCarty et al., 1974; Savage and Gardner, 1965). Characteristics of Carrizo and Troyer are very similar, so for our purposes here, we are considering them the same. With most scions, Carrizo provides excellent early bearing of young trees, internal fruit quality is excellent, and fruit size is usually medium to large. Carrizo is vigorous, and develops medium to large tree size (depending on the scion cultivar), or what is often considered “standard” tree size. Carrizo is sensitive to alkaline-induced chlorosis and in some cases trees have severely declined as a result of iron and other trace element deficiencies on saline, calcareous and especially high pH soils. Another major disadvantage of this rootstock in some areas is the tendency to induce a higher incidence of creasing. Carrizo induces higher acid levels than rough lemon, but while this has occasionally created problems with Valencia, Minneola tangelo, and grapefruit in the cooler production areas, it is advantageous in hot areas (Lee et al., 2009). In the absence of limiting disease problems or soil conditions, Carrizo is an excellent rootstock for sweet orange, grapefruit, and most mandarin hybrids. The main advantages of Carrizo citrange are intermediate resistance to *Phytophthora* root rot, nematode and CTV tolerance, good internal quality, earlier external color compared to Swingle citrumelo, and medium tree size. Carrizo is not compatible with Eureka and other Eureka-type lemon selections.