Citrus Rootstock characteristics (CITTgroups July 2009)

	Environmental conditions (tolerance)			Pest and disease tolerance					
Rootstock	Drought	Salt	Calcium (alkalinity)	Poorly drained soil	Phytophora tolerance	Tristeza tolerance	Exocortis tolerance	Citrus nematode	Tree size
P. trifoliata * +	low	low	low	high	high	high	low	high	small
Swingle citrumelo * +	average	average-high	low	average?	high	high	?	high	medium
Troyer citrange * +	high	average	low	average	high	high	low	average	medium to large
Carrizo citrange *	high	average	low	average	high	high	low	average	medium to large
Benton citrange	?	low	low	good	high	high	low?	average?	medium
Cleopatra mandarin ⁺	average	high	high	low	low	high	high	low	large
Rough lemon * +	high	low	average	low	low	high	high	low	large
Sweet orange *	low	average	high	low	low	high	high	low	medium
Rangpur lime	high	high	high	?	low	high	?	low	large
C35 citrange ⁺	?	low?	low?	?	high	high	low?	high	medium
Volkamerianna * +	high	average	high	low	low	high	high	low	large
Flying Dragon ⁺	low?	low?	low?	high?	high?	high?	low?	high?	very small
Cox citrange ⁺	?	?	?	?	high	?	?	?	medium
Yuma citrange ⁺	?	?	?	?	?	?	?	?	?

	External fruit appearance				Internal fruit qualities				
Rootstock	Fruit size	Rind thickness	Rind texture	Albedo breakdown	Fruit maturity	Total Soluble Solids (sugar)	Acid content	Juice content	
P. trifoliata * +	med-large	thin	smooth	severe	mid-late	high	high	high	
Swingle citrumelo * +	med-large	thin	smooth	unknown	mid-late	high	high	high	
Troyer citrange * +	medium	thin	smooth	mod-severe	mid	high	medium-high	high	
Carrizo citrange *	medium	thin	smooth	mod-severe	mid	high	medium-high	high	
Benton citrange	medium	thin-medium	smooth	unknown	mid	high	medium	medium-high	
Cleopatra mandarin ⁺	small-med	thin	medium	light	mid	medium	medium	medium-high	
Rough lemon * *	large	thick	coarse	light	early	low	low	low-medium	
Sweet orange *	medium	medium	medium	light	mid	medium	medium	medium	
Rangpur lime	medium	medium	unknown	unknown	mid	low	low-medium	medium	
C35 citrange ⁺	medium	thin	smooth	mod-severe	mid	high	medium-high	high	
Volkamerianna * +	-	thick	coarse	-	-	low	low	low	
Flying Dragon [†]	small	-	-	-	-	g	ood eating quality	/	
Cox citrange ⁺	-	-	-	-	-	-	-	-	
Yuma citrange ⁺	-	-	-	-	-	-	-	-	

^{*} Rootstocks currently under evaluation at the West Gingin site, + Rootstocks currently under evaluation at the Bindoon site. ? unknown or conflicting data. Source: Australian Rootstock Factsheets and Rootstocks for Florida Citrus, W. S. Castle (1993)

Citrus Rootstock – Scion incompatibilities

Rootstock	Scion incompatibilities	Comments
P. trifoliata * ⁺	Imperial mandarin (partially), Eureka lemon	
Swingle citrumelo * +	Eureka, Meyer and Yen Ben lemons, Imperial mandarin (partially)	Not compatible with most lemons
Troyer citrange * +	Imperial mandarin (partially), Eureka lemon, Satsuma mandarin	
Carrizo citrange *	Imperial mandarin (partially), Eureka lemon, Satsuma mandarin	
Benton citrange		Mainly used as a stock for Eureka Lemon. Difficult to manage and grow in the nursery
Cleopatra mandarin ⁺		
Rough lemon * +	Some mandarins, Ellendale, tangor (can cause internal granulation and dryness in susceptible varieties)	
Sweet orange *		
Rangpur lime		
C35 citrange ⁺	Eureka and Yen Ben lemons	
Volkamerianna * +	Can cause internal granulation and dryness in susceptible varieties such as Imperial	
Flying Dragon [†]	Performance of mandarins and lemons is less assured (it is likely to be incompatible with Eureka lemon).	
Cox citrange ⁺	Unknown	Shows potential as a stock for Eureka Lemon. Easier to manage in the nursery than Benton.
Yuma citrange ⁺	Unknown	

^{*} Rootstocks currently under evaluation at the West Gingin site, + Rootstocks currently under evaluation at the Bindoon site



Imperial with Valencia inter-stock on Troyer Citrange



Imperial on Troyer Citrange