



Laws of kilei ilan: permitted and prohibited scion and rootstock combinations for fruit trees, citrus trees, ornamental trees, and vegetables (update: Av 5778-July 2018)

Kilei Ilan (grafting): scion and rootstock combinations for trees and vegetables

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The tables below are based on an article written by Rabbi Yoel Friedemann, published also in *Hilchot Ha'aretz*, and available on this website, [here](#). Changes and updates have been made to the lists, and two categories were added (grafting for ornamental trees and vegetables). The list is updated to: Av 5778 (July 2018).

The prohibition of *kilei ilan* includes grafting scions from different species onto one rootstock (multi fruit).

The **trees bolded and marked with an asterisk*** are often grafted in a forbidden manner. For trees not bolded, there is no known prohibited grafting

Table 1: Scions and Rootstocks for Fruit Trees

Fruit (variety)	Permissible rootstocks Preference 1	Permissible rootstocks Preference 2	Preference 3 <u>Only a non-Jew may graft and plant</u>	Forbidden rootstocks
Almond*	Bitter almond (Alnem)	Peach x Almond (GF-677, Hansen, GF-749, GF-557)	GN-15	Peach (Baladi)
Apple	Apple (Malus, Hashabi 13-4, M106, M9, MM109)			
Apricot*	Apricot (Raanana, Klabi)			Peach X Plum (Myron, 29 X 27, Citation), Plum (Marianna), Peach X Almond (GF-677)



Avocado	Mexican avocado (Schmidt); West Indian avocado (Degania, Zrifin, Ashdot, Fairchild)			
Carob	Seedlings / carob			
Cherimoya (Annona cherimola)	Annona cherimola (hata)			
Cherry and sweet cherry*	Sweet cherry (Mazzard)		Colt, Mahaleb, Gisela, MXM	
Date	No grafting can be used			
Feijoa	Seedlings / cuttings / feijoa			
Fig	Cuttings / fig			
Grapevine	Grapevine (Richter, Paulsen, Ruggeri)			
Guava	Seedlings / cuttings / guava			
Kiwi	Cuttings / kiwi (Hayward)			
Loquat*	Loquat			Quince (BA29, A, C, Sydo) (For heavy soils)
Lychee	Cuttings / lychee (Mauritius, Floridian)			
Macadamia	Cuttings / macadamia			
Mango	Mango (13/1, 49, Saber)			
Mulberry	Seedlings / cuttings / raspberry			
Olive	Cuttings / olive			



Peach* and nectarine	Peach (Nemaguard, Baladi, 198/12)	Peach X Almond (GF-677, Hansen, GF-749, GF-557)	GN-15	Almond (Alnem), Plum X Peach (Ferciana)
Pear*/ Nashi Pear*	Pear (OHF, Pyrus betulifolia)			Quince (BA29, A, C, Sydo)
Pecan	Cuttings / pecan			
Persimmon	Persimmon (Virginiana, Kaki, and Lotus)			
Pistachio*	Pistachia vera		Pistacia atlantica	
Plum*	Plum (Marianna, Myrobalan; Marianna is used more for European plum)	Peach X Plum (Citation)	Peach X Plum (Myron, Ferciana)	Peach X Almond (Hansen, GF-677, GN-15; used for Japanese plums); Almond (Alnem; used for European plums)
Pomegranate	Cuttings			
Quince	Quince (A, C, BA29, Sydo)			
Walnut	Cuttings / walnut			

Table 2: Scions and Rootstocks for Citrus Trees

Fruit (variety)	Permissible rootstocks Preference 1	Permissible rootstocks Preference 2	Preference 3 Only a non-Jew may graft and plant
Etrog	No grafting		
Grapefruit* Pomelo Sweetie	Poorman, Yuma Ponderosa, Kinkoji	Citrumelo	Hushhash (bitter orange), Volkameriana

Lemon*	Macrophylla, Rough lemon, Volkameriana, Nordic Citrus limettioides (Palestinian sweet lime)	Citrumelo	Hushhash (bitter orange)
Orange,* clementine, mandarin, kumquat	Hushhash (bitter orange), Volkameriana, Cleopatra, Rangpur, Rough lemon, Zhuluan	Troyer, 812, 4934, 639, 44/12, 811	C-35

Table 3: Scions and Rootstocks for Ornamental Trees known to be grafted in a forbidden manner

Fruit (variety)	Permissible rootstocks Preference 1	Permissible rootstocks Preference 2	Preference 3 Only a non- Jew may graft and plant	Forbidden rootstocks
Callery pear	Callery pear			Quince (A, C, BA29, Sydo)
Green olive tree (Phillyrea latifolia)	Green olive tree			Olive
Purple-Leaf Cherry Plum	Plum (Marianna, Myrobalan)			Peach X Almond (GF- 677, Hansen)

Table 4: Scions and Rootstocks for Vegetables Generally Grafted

Vegetable (variety)	Permissible rootstocks Preference 1	Permissible rootstocks Preference 2	Preference 3 Only a non- Jew may graft and plant	Forbidden rootstocks
Cucumber	None			Pumpkin (TZ, Tetsukabuto, AQ-1)
Eggplant				Tomato (Beaufort, Fortamino)
Melon	Melon (MRS- 2)			Pumpkin (TZ, Tetsukabuto, AQ-1)
Tomato	Tomato (Fortamino, Beaufort)			
Watermelon				Pumpkin (TZ, Tetsukabuto, AQ-1)