

Apple Rootstock Options

Sandy Site

Rootstock	Vigor relative to seedling	Winter hardiness	Fire blight / Collar rot resistance	Replant disorder resistance	Biococity / Productivity / Fruit size	Other negatives
Bud 9 – see note	25%	5	3 / 5	2	5 / 5 / 5	Woolly aphid
Weak M.9 clones: Flörens 56 and T337	28%	4	1 / 5	3	4 / 4 / 5	Woolly aphid, burknots
G41 *	30%	4	5 / 5	5	5 / 5 / 5	Shy rooting, somewhat brittle
Strong M.9 clones: Nic29 and Pajam2	32%	4	1 / 5	3	4 / 4 / 5	Woolly aphid, burknots
G16 *	32%	4?	5 / 4	3?	4 / 4 / ?	Woolly aphid, latent virus susceptible.
G11 *	40%	?	3 / 3	3	3 / 4 / 5	Moderate woolly aphid
G.202	45%	4?	5 / 5	4	4 / 4 / 4?	
M.26	45%	5	1 / 2	2	3 / 4 / 5	Woolly aphid, burknots
G.935 *	50%	5	5 / 5	4	5 / 5 / 5	Woolly aphid
G.30 *	50%	5	5 / 4	4	4 / 5 / 5	Brittle graft union
G.G.210 **	65%	4?	5 / 5	5		
M.7	60%	3	3 / 3	3	2 / 3 / 3	Suckers, some burknots
MM.106 EMLA	70%	4	4 / 2	3	3 / 4 / ?	Burknots, very susc to TomRSV
MM.111	75%	3	4 / 3		3 / 3 / ?	Burknots, mod susceptible to TomRSV
Bud118	95%	5	3 / 3	4?	3 / 3 / 4	

Lower vigor variety, 3 to 4 ft space, supported

Moderate vigor variety at 3 to 5 ft spacing, supported

Moderate vigor variety 5 to 6 ft spacing, supported

Moderate vigor variety, 5 to 10 ft spacing, brittle varieties

1 = very poor to 5 = excellent, \* limited availability, \*\* very limited availability.  
 This is the vigor for the American Bud 9 clone available from U.S. Nurseries. A European clone of Bud 9 has shown more vigor.  
 TomRSV = tomato ring spot virus, a nematode vectored virus more common in sandy sites  
 Rootstocks M.7, MM106, MM111 & Bud118 are free standing trees. The rest are lower vigor and will require support, especially the more dwarfing types.