Rootstock Available In 2026

APPLE Green Label

MM - 111 APPLE ROOTSTOCK
Excellent all-around semi-dwarf rootstock for apples, with trees dwarfed 80-90% of standard size (15 - 25 ft). Size can be further controlled with summer pruning. Tolerates wet soil, dry soil, poor soil, soil with high temperatures. Resists woolly apple aphids, collar rot and fire blight. Apparently resistant to oak root fungus. Very cold hardy, does not promote early bud break. Induces bearing at a younger age than standards. Rarely suckers.

Geneva 969 APPLE ROOTSTOCK (50 available, to members only)
We bought 50 of these rootstock for those of our members who wish to experiment. Geneva® 969 is a semi-dwarf apple rootstock valued for its high resistance to fire blight, crown rot, and woolly apple aphid, as well as its good cold hardiness, making it suitable for challenging orchard environments. It controls tree size to about 70–75% of standard, producing a freestanding tree that often does not require support while remaining tolerant of replant disease and well-suited to northern climates. Geneva 969 tends to produce very few suckers or burr knots and is recommended for both commercial and backyard growers seeking productive, disease-resistant apple trees. See page 3 for comparison with MM-111 rootstock.

CHERRY Red Label

Mazzard – SWEET CHERRY – Prunus avium
The most-common standard-size sweet-cherry rootstock. Produces a very vigorous tree with good anchorage. Some tolerance to root fungus. Will grow in a wide range of soils.

PEACH & NECTARINE Pink Label

Nemaguard – Prunus persica

A popular option for due to its strong resistance to root-knot nematodes, vigorous growth, and excellent anchorage, making it reliable in sandy, well-drained soils. However, it is susceptible to specific issues such as bacterial canker, ring nematodes, and oak root fungus, and it does not thrive in calcareous or poorly drained soils.

PEAR Yellow Label

OHxF 97 – European & Asian Pear

Compatible with both European and Asian pears. Produces a full-sized pear tree. Fire blight resistant, tolerant of soil diseases, high productivity relative to tree size.

PLUM & APRICOT Purple Label

Prunus marianna GF 8-1

Produces a standard sized tree (10 – 15 ft). Is very robust and adapts to all types of soil. Mariana produces good crops of plums, but doesn't anchor well when it is young and tends to produce root suckers. It resists root knot nematodes, root asphyxia, oak root fungus, crown gall, and prune brownline, but is susceptible to bacterial cankers.

Prunus marianna 2624 (also, some Almond varieties, see below)

Compatible with plums, apricots, some almonds. Produces a semi-dwarf tree well adapted to many different soil types. Can be shallow rooted the first couple years and susceptible to leaning until established so staking may be necessary. Somewhat prone to suckering. Tolerates wet soils. Resistant to root knot nematodes, lightly resistant to Phytophthora, but prone to bacterial canker.

Almond Varieties explicitly listed as compatible with Marianna 2624 rootstock:
Aldrich, Carmel, Fritz, Mission, Neplus, Nonpareil Advantage (distinct from standard Nonpareil), Padre, Peerless, Ruby, Sonora, and Wood Colony.

Intermediate Compatibility: Butte, Monterey, Winters

Incompatible Varieties: Kapareil, Standard Nonpareil, Solano

Comparison of MM-111 and Geneva 969 Apple Rootstock

Feature	Geneva® 969	MM-111 (M.111)
Tree Size	Semi-dwarf (12–16 ft) groworganic +1	Large semi-dwarf (16–18 ft) groworganic +1
Disease Resistance	High (fire blight, crown rot, WAA) nyshs +1	Moderate groworganic
Soil Adaptability	Wide range, drought hardy groworganic +1	Very wide; best for poor soils groworganic +1
Anchorage/ Staking	Excellent; sometimes needs staking growingfruit	Strong roots, rare staking after establishment groworganic
Precocity (Early Bearing)	Good nyshs +1	Moderate treefruit.wsu
Notable Drawbacks	Graft/bud union issues with some cultivars, excessive vigor if overfed growingfruit	Large size, less suited for high-density plantings groworganic +1

Geneva® 969 offers more disease resistance and easier management due to its smaller size, while MM.111 is favored for tough sites and long-term reliability for larger trees. extension.psu +3