WV EXTENSION

Cherry Rootstocks Available for Commercial and Residential Applications

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ROOTSTOCK	SIZE	MAIN TRAITS
Mazzard	**Standard**	Wide range of soils, providing good drainage; winter hardy; not precocious; highly productive; tolerant to Armillaria root rot; more tolerant to (*Phytophthora spp.*) than Mahaleb; susceptible to bacterial canker (*Pseudomonas syringae*), and crown gall (*Agrobacterium tumefaciens*), highly tolerant to root-knot nematodes; provides good anchorage.
Mahaleb	**Standard**	Adaptable to range of soils but does not like very heavy soils prone to water logging; it is drought tolerant; winter hardy; it is more precocious than Mazzard placing it in a "moderately precocious"; highly productive; highly tolerant to root lesion nematodes, moderately susceptible to bacterial canker (*Pseudomonas syringae*), crown gall (Agrobacterium tumefaciens), susceptible to crown and root rot (*Phytophthora spp.*), Armillaria root rot , X-disease, Little Cherry Virus; provides good anchorage.
Colt	**Semi-dwarf**	It shows good adaptability to wide range of soils providing good drainage; it is not precocious; moderately productive; it is not winter hardy; it is susceptible to crown gall, and highly tolerant to bacterial canker (*Phytophthora spp.*); provides good anchorage.
Gisela 5	**Semi-dwarf**	Adaptable to various soils; it is precocious; moderately productive; it is susceptible to crown, and root rot (*Phytophthora spp.*), X-Disease (Cherry little), European Stone fruit Yellows (*Phytoplasma*), crown gall (*Agrobacterium tumefaciens*), moderately resistant to bacterial cancer (*Pseudomonas syringae*), tolerant to viruses: prunus dwarf virus (PDV) and prunus necrotic ringspot virus (PNRSV), highly tolerant to root-knot nematodes; fair to good anchorage.
Gisela 6	**Semi-dwarf**	Tolerates wide range of soils and tolerates heavier soils; it is precocious; it is highly productive; it is susceptible to crown and root rot (*Phytophthora spp.*),shows good tolerance to crown gall (*Agrobacterium tumefaciens*), it is highly susceptible to bacterial cancer (*Pseudomonas syringae*), tolerant to viruses: prunus dwarf virus (PDV) and prunus necrotic ringspot virus (PNRSV), highly tolerant to root-knot nematodes; it has fair anchorage.
Gisela 12	**Semi-dwarf**	Tolerant to wide range of soils; it is precocious; produces trees 50% to 60% the size on standard rootstock; highly productive; very winter hardy (-20º F); shows good disease resistance to crown gall and root rot (*Phytophthora spp.*), and common viruses: prunus dwarf virus (PDV) and prunus necrotic ring virus (PNRSV); it has fair anchorage.
Krymsk 5	**Semi-dwarf**	Adapted well to various soil conditions, highly tolerant to heavy, wet soils; tolerates dry soil conditions better than Gisela rootstocks; it is precocious; winter hardy; moderately productive; it is highly tolerant to root rot and crown rot (*Phytophthora spp.*), bacterial canker (Pseudomonas syringae), and powdery mildew (*Podosphaera spp.*), it is sensitive to viruses: plum pox, prunus dwarf virus (PDV), and prunus necrotic ring virus (PNRSV); it has good anchorage.
Krymsk 6	**Semi-dwarf**	Well adapted to variety of soils provided there is a good drainage; it is winter hardy; highly productive; it is highly susceptible to root rot and crown rot (*Phytophthora spp.*), bacterial canker (*Pseudomonas syringae*), moderately resistant to bacterial canker (*Pseudomonas syringae*), and crown gall (*Agrobacterium tumefaciens*), is sensitive to viruses: prunus dwarf virus (PDV), and prunus necrotic ring virus (PNRSV); it has good anchorage.

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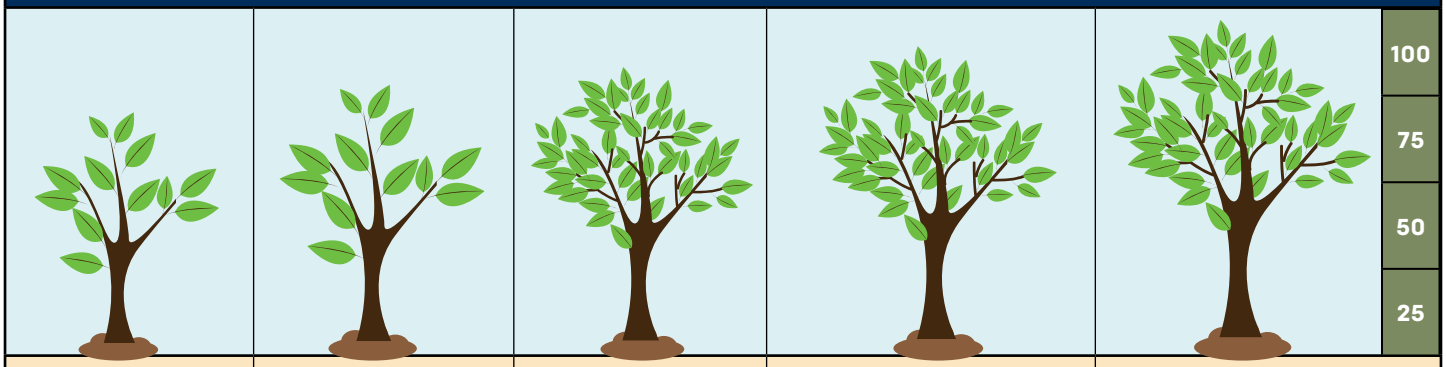
Cherry Rootstocks Size Comparison



Gisela 5	Gisela 12	Gisela 6	P. Mahaleb	Mazzard
148-2	195-2	148-1	Drought tolerant and very productive	Tolerates *Phytophthora spp.*, and moderately tolerant to *Armillaria ap.*
Support is recommended	Precocious and very productive	Induces early bloom	Susceptible to *Phytophthora sp.* and nematodes	Susceptible to *Agrobacterium tumefaciens* and *Pseudomonas syringae*
Tolerates heavy soils	Good root system, adapted to various soil types	Requires support due to heavy production	Moderately susceptible to *Agrobacterium tumefaciens* and *Pseudomonas syringae*	
		Good for heavy soils	Best for sandy soils	

For More Information

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