

PEA GERMPLASM

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Three F8 breeding lines, developed by USUA-ARS and the Washington State University Experiment Station, were released in June 1983. Each line combines resistance to several soilborne diseases together with white flowers, green cotyledons, and dimpled or smooth seed.

'WR-1158' has a semi-fasciated growth habit, with a strong double-podding tendency. WR-1158 blooms in the 13th node and usually will not exceed 76 cm in vine length. The dry seeds are slightly dimpled and are dark green in color. WR-1158 is resistant to races 1, 2, 5, and 6 of Fusarium oxysporum f. sp. pisi (vanHall) Snyder & Hans, and is tolerant to the root rot complex of eastern Washington.

'WR-1167' blooms in the 13th node, is double podded with long pointed pods, green dimpled seed, and is about 76 cm tall when grown at Prosser, Washington. WR-1167 is resistant to races 1, 2, 5, and 6 of F. oxysporum f. sp. pisi and to P. solani f. sp. pisi in both artificially and naturally infested soil.

'RR-1178' is about 76 cm tall at Prosser, blooms in the 14 to 15th node, is double podded with long, pointed pods, and produces a mixture of dimpled and wrinkled, green seed. RR-1178 is resistant to races 1 and 2 of F. oxysporum f. sp. pisi and, in artificially infested soil, it was significantly more resistant to root rot caused by F. solani f. sp. pisi than 'Dark Skin Perfection'. RR-1178 was found to be resistant to root rot in naturally infested soil in New Zealand in 1980.

NEW GARDEN PEA CULTIVARS

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'PEGAZ' ('Cud Kelvedonu' x 'Brilliant'). Dwarf (40-60 cm), early variety (65-73 days). Pods ripen simultaneously, 1-2 per peduncle, 8-20 per plant, and are well-filled (7-10) with large, green seeds. Pegaz is resistant to BYMV. It is suitable for freezing and canning; it has a relatively low starch content (1-4%), a relatively high sugar content (9.09%), and good flavor and aroma.

'BENIAMINEK' ('Bordewunder' x 'Cud Kelvedonu'). Medium-late variety (80-85 days) with a stiff, short stem (65-80 cm). Seeds (7-8 per pod) are dark-green, of a medium size, with high content of sugar and extract. Its dense plant habit and uniform ripening are special advantages. This cultivar is high-yielding and resistant to BYMV.

'TOPAZ' ('Hada' x 'Szlachetna Perla'). Length of stem is 80-100 cm, number of internodes 21-27. About 60% of plants show a tendency to branching. The plant bears two pods per peduncle with 7-10 seeds per pod. Seeds are dark-green, of a medium size, and dense in pod. Late variety, but earlier than 'Nike', with uniform ripening. Suitable for freezing and canning.