

'Oregon 91' Green Bean¹

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'Oregon 91' is a bush green bean developed for commercial processing in western Oregon. It results from 22 years of breeding to develop bush bean cultivars with pod characteristics of 'Blue Lake' pole bean and an acceptable growth habit. 'Oregon 91' should complement or partially replace 'Oregon 1604', a bush green bean of 'Blue Lake' type which has been important to Oregon processors because of its earliness and dependable production. Compared to 'Oregon 1604', 'Oregon 91' is slightly later in maturity and slightly less productive, but has a better growth habit and straighter pods. It should be most useful to processors who need pods of smaller diameter than those of 'Oregon 1604'.

Origin

'Oregon 91', tested as OSU 4091-3, has been increased as a massed line since 1974 when it was in the F₇ generation. In the abbreviated pedigree (Fig. 1), OSU 9161 is a bush green bean of complex parentage involving 'White Seeded Slendergreen', 'White Seeded Tendercrop', and bush lines derived from 'Logan' x 'Rogers' 6-inch (Blue Lake pole) followed by 7 backcrosses to strains of 'FM-1 Blue Lake' (pole). 'Oregon 91' is essentially a sister line of 'Oregon 17' (1).

Description

'Oregon 91' matures in 63-69 days when planted in May in western Oregon. The plant is more upright, less branched, and usually less vigorous than 'Oregon 1604'. Yields have been equal to or slightly less than those of 'Oregon 1604'. Maturity is concentrated, and the pod load is large for the size of the plant.

Pods (Fig. 2) are long, slender, usually straight, and round in cross section. At sieve grade 5 they are typically 16 to 17 cm long. Excess fiber has not been observed, but percent seed is high in sieve grade 6. Since pod fleshiness breaks down at sieve grade 6 in hot weather, this cultivar may be most useful at sieve grade

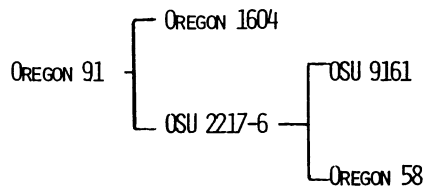


Fig. 1. Pedigree of 'Oregon 91' (G).

5 and smaller. Panel scores indicate pods of larger sieve grades may be less tender than 'Oregon 1604' when canned or frozen. Other qualities of processed pods have been generally good. Seed count is about 3,200/kg (1,450/lb.). Mature seedcoats are white. The original massed line is a mixture for green and white immature seedcoats, but a stock pure for green immature seedcoat designated 'Oregon 91' (G) is available.

Greenhouse tests indicated 'Oregon 91' is resistant to bean common mosaic (type strain and 1A strain), and intermediate in susceptibility to races 1 and 2 of halo blight (*Pseudomonas phaseolicola*, Burke (Dows)).

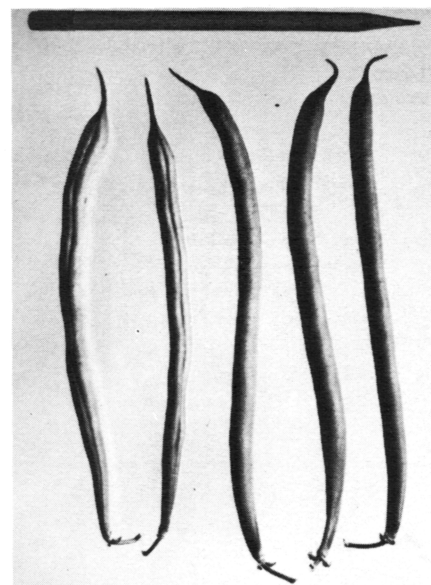


Fig. 2. 'Oregon 91' pods, sieve grades 4 and 5.

Availability

Major seedstocks have been allocated to Oregon processors and seed companies who grow seed for the Oregon processing industry. Small quantities for trial purposes can be obtained from J. R. Baggett, Department of Horticulture, Oregon State University, Corvallis, OR 97331.

Literature Cited

1. Baggett, J. R., W. A. Frazier, and G. W. Varseveld. 1981. 'Oregon' 17 green bean. *HortScience* 16:228-229.

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'Tuckcross 756P' Tomato¹

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'Tuckcross 756P' is an early, large, pink-fruited three-way hybrid tomato (*Lycopersicon esculentum* Mill.) that is adapted for greenhouse culture in the northern U.S. and Canada. Since 1971 it has performed well in experiment station and commercial greenhouse trials (2, 3, 4). With early production of good quality

fruit, 'Tuckcross 756P' is also resistant to fusarium wilt and tolerant to leaf mold.

Origin

Tuckcross 756P is a cross of the F₁ of Ohio WR25, a commercially grown greenhouse cultivar (1) x Missouri 765, a recently released breeding line (5), with Purdue 110, an unreleased breeding line (L. Hafen personal communication). The pedigree is shown in Fig. 1.

Description

'Tuckcross 756P' is a vigorous, early hybrid with pink, globe-shaped fruit that average 238g (Table 1) and show good tolerance to radial and concentric cracking. Plants are indeterminate in growth

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