

or tip. Leaf glands are reniform and flowers are showy.

Fruit have yellow, fine-textured flesh with excellent flavor. Comparative titratable acidity and sugar content (soluble solids) are given in Table 2. Seed are comparatively small and free from the flesh at maturity. Shelf-

life and flesh-browning characteristics are similar to 'Redglobe'. Sliced fruit maintains a pleasing texture when frozen making this a desirable cultivar for home freezing. Based on comparative bloom dates with other cultivars, 'TAMU Denman' has an 850-hr chilling requirement.

## Availability

Budwood may be obtained from the Foundation Seed Services, Texas A&M University, College Station, TX 77843. Budded trees are available from several commercial nurseries.

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# 'Vanier' Plum

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'Vanier' is a good quality, bright red, medium-sized, round, small-pitted, clingstone, Japanese plum (*Prunus salicina* Lindl.). 'Vanier' matures during the last week of August, the same season as 'Burbank' and 'Ozark Premier'. It is introduced primarily for fresh market consumption and for planting in areas where Japanese plums are grown.

## Origin

'Vanier' is derived from a cross between 'Burbank' and 'Wickson' (1), made in 1930 by the late M.B. Davis, Division of Horticulture, Central Experimental Farm, Ottawa. Trees of cultivars have been under evaluation at the Horticultural Research Institute of Ontario since 1952, under selection number 'Ottawa-3010'.

## Description

'Vanier' fruit are round and medium-sized, averaging 4.6 cm in height and 4.9 cm in width (Fig. 1). The average fruit weight is 67 g. The pit is clingstone and small, accounting for only 1.8% of the fruit weight. At picking maturity, the external fruit color, with bloom completely removed, is bright red (45D) (Royal Horticultural Color Chart, The Royal Horticultural Society, London, England) and at eating fruit maturity develops to a darker red (46A). The flesh is

yellow-orange (23B), firm, and meaty. The quality is good and improves after fruit are picked and stored for 2 to 3 days at room temperature. The fruit is highly resistant to brown rot [*Monilinia fructicola* (Wint.) Honey.] and bacterial fruit spot [*Xanthomonas pruni* (E.F. Smith) Dows.]. The average ripening date at Vineland, Ont. is 29 Aug., the same as 'Burbank' and 'Ozark Premier'. 'Vanier' ripens unevenly and requires 2 to 3 pickings. Trees are moderately productive, precocious, vigorous, and have an upright growth habit. Trees have a high resistance to black knot [*Dibotryon morbosum* (Shiv) Th. and Syd.], bacterial canker [*Pseudomonas syringae* Van Hall.] and bacterial leaf spot [*X. pruni* (E.F. Smith) Dows.].

## Pollination

The flowers of 'Vanier' are self-unfruitful and require pollen from other Japanese plum cultivars for commercial fruit production. It is pollinated by 'Ozark Premier', 'Burbank', and 'Santa Rosa' cultivars and 'Myrobalan B' seedling. 'Vanier' is an excellent pollinizer for 'Burbank', 'Early Golden', 'Ozark Premier', and 'Shiro' Japanese plum cultivars (2).

## Availability

Trees of 'Vanier' are available from major fruit tree nurseries in Ont., Canada. Bud and scionwood are available upon request from the Horticultural Research Institute of Ontario, Vineland Station, Ont., Canada L0R 2E0.

## Literature Cited

1. Davis, M.B. 1950. Canada Department of Agriculture, Division of Horticulture, Central Experimental Farm, Ottawa, Prog. Rpt. for 1934-48, p. 18-20.
2. Tehrani, G. 1972. Pollen compatibility studies with European and Japanese plums. Fruit Var. Hort. Dig. 26:63-66.



Fig. 1. 'Vanier' plum.

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