



APPLICATIONS UNDER EXAMINATION

PEACH

PEACH (*Prunus persica*)

Proposed denomination: 'V97211'
Application number: 20-10066
Application date: 2020/01/08
Applicant: University of Guelph, Guelph, Ontario
Breeder: Jayasankar Subramanian, University of Guelph - Vineland Campus, Vineland Station, Ontario

Variety used for comparison: 'Harrow Diamond'

Summary: *The flowers of 'V97211' are campanulate type whereas those of 'Harrow Diamond' are rosette type. The over colour on the skin of the fruit of 'V97211' is medium red in a mottled pattern whereas that for 'Harrow Diamond' is light red in a striped pattern. The time of maturity of the fruit of 'V97211' is very early whereas for 'Harrow Diamond' it is early.*

Description:

TREE: medium to large size, medium to strong vigour, upright to spreading habit

LEAF BLADE: early leaf bud burst, medium length to width ratio, flat in cross section, shallow serrate margin, right angle at base, small angle at apex, light green, red mid-vein present on lower side

STIPULE: medium length

PETIOLE: short to medium length

NECTARIES: present, reniform shape

FLOWERING: early beginning of flowering

FLOWERING SHOOT: thick, medium length of internodes, no anthocyanin colouration, medium to dense flower buds

FLOWER: campanulate type, violet pink on inner side of corolla

PETAL: narrow elliptic, five present

STAMEN: positioned below petals, pollen present on anthers

PISTIL: stigma positioned above anthers, pubescence on ovary

FRUIT: very early maturity, medium size, circular in ventral view, no mucron tip at pistil end, flat at pistil end, moderately asymmetric when viewed from pistil end, weak prominence of suture

STALK CAVITY: medium depth, medium width

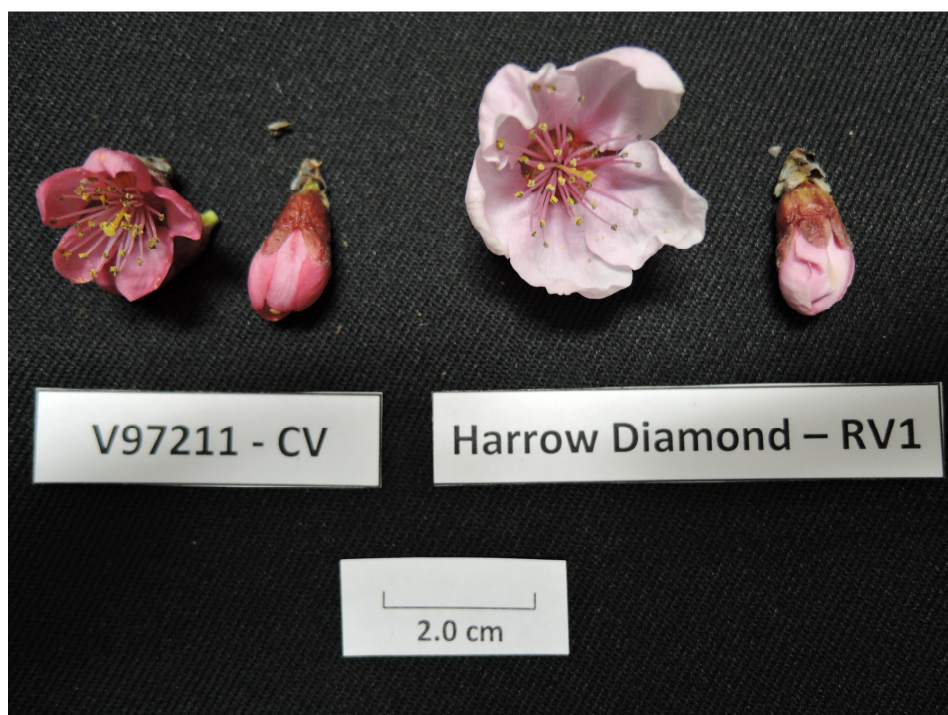
FRUIT SKIN: yellow ground colour, medium extent of medium red mottled over colour, sparse pubescence, thick, medium adherence to flesh

FRUIT FLESH: medium to firm, orange yellow carotenoid colour, no anthocyanin colouration directly under skin, no anthocyanin colouration of the flesh in central part of the flesh or around the stone, absent or weak flesh fibre, medium sweetness and acidity

STONE: medium size in relation to fruit, elliptic shape in lateral view, weak anthocyanin colouration, medium to dark intensity of brown colour, equal number of pits and grooves on surface, medium adherence to flesh

Origin and Breeding: 'V97211' originated from a hand pollination conducted at the University of Guelph research station in Vineland Station, Ontario in 1997. The cross was made between the two varieties 'Sentry' and 'Harrow Diamond'. A seedling block was created from the results of the cross. In the year 2000, an initial selection was made from the seedling block based on its maturity time. Budwood from the selected seedling tree was later T-budded onto 'Bailey' rootstock in 2002, 2016, 2017 and 2019.

Tests and Trials: The comparative trial for 'V97211' was conducted at the University of Guelph, Department of Plant Agriculture, Vineland Station during the 2022 growing season. The trial consisted of 6 trees of each variety and were planted in 2015 on 'Bailey' rootstock. Spacing between trees was 4 metres in the row and 5.5 metres between rows. Observations were taken on 6 trees or parts taken from each of the 6 trees. Measurements were taken from 25 parts of the 6 trees.



Peach: 'V97211' (left) with reference variety 'Harrow Diamond' (right)



Peach: 'V97211' (left) with reference variety 'Harrow Diamond' (right)



Peach: 'V97211'