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[54] PEACH TREE NAMED 'CORINTHIAN MAUVE'

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[57] ABSTRACT

A new and distinct cultivar of peach tree called 'Corinthian Mauve' is provided that demonstrates narrowly columnar growth habit, a vigorous growth rate, green foliage, and an abundance of mauve-colored, double flowers. The new cultivar produces very few fruit, and is intended for use as a Spring flowering ornamental plant in the home landscape.

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2 Drawing Sheets

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SUMMARY OF THE INVENTION

The new and distinct variety of peach (*Prunus persica* (L.) Batsch) originated as a second generation descendant from a hand pollinated cross of North Carolina selection. 'NC174RL' nectarine (non-patented) × a selection of Japanese 'Pillar' peach made in 1983 at the Sandhills Research Station at Jackson Springs, N.C. The parent plants used in this hybridization have not been named and released and are unavailable in commerce.

The seeds resulting from this controlled hybridization were germinated in a greenhouse at North Carolina State University, Raleigh, N.C. in the Fall of 1983 and planted in the field in Spring of 1984. These trees were grown to maturity; trees were self pollinated in Spring of 1988, and the resultant seed was harvested in August 1988. This seed was sown directly in the field in November 1988, and seedlings flowered in 1991. One seedling, designated NC174RLxPil-271, was selected for its green foliage color, narrowly columnar growth habit, and heavy production of mauve-colored double flowers.

During 1993 and 1996, the original plant selection was propagated asexually by grafting of vegetative buds onto a peach seedling rootstock, cultivar 'Lovell', at the Sandhills Research Station. A grafted tree of the variety was established at the North Carolina State University Lake Wheeler Field Laboratory Research Station in Raleigh, N.C.. Subsequently, a larger test planting has been established with asexually multiplied plants at the Sandhills Research Station, at the above noted location.

The new variety has routinely been asexually multiplied by grafting, specifically 'T' and chip budding. It readily forms a graft union with 'Lovell' peach rootstock and resumes normal growth. During all asexual propagation, the characteristics of the original plant have been maintained and no aberrant phenotypes have appeared.

Test plantings at the two research station locations noted above, which vary considerably in soil and climatic conditions, demonstrate this variety to be widely adapted to differing soil and climatic conditions.

Plants and fruit of this new variety differ phenotypically from its antecedents. The new variety produces mauve-colored double flowers, differing from the single pink flowers of 'NC174RL' and the double pink and white variegated flowers of the Japanese 'Pillar' Peach antecedent. Leaf color

is green, growth habit is narrowly columnar, and fruit are pubescent (peach), distinguishing it from the 'NC174RL' nectarine antecedent. Fruit of this new variety are small and of poor quality, and are of no commercial importance.

Plants of the new variety are very vigorous and grow rapidly after establishment of trees in the field. Young trees have averaged 3–4 feet of growth per year. A four-year-old tree measured in Raleigh, N.C. was 14 feet in height and 4.2 feet in spread, with spread measured 6 feet above ground level. Trunk diameter (girth) on the same tree was 3.9 inches one foot above ground level. Plants are narrowly columnar in growth habit. The angle between the trunk and lateral branches of 'Corinthian Mauve' measure between 5 to 20 degrees, in comparison to non-columnar peach varieties such as 'Contender', which typically measure between 35 to 50 degrees.

Flowering sometimes occurs in the second year of growth, but more commonly trees begin flowering in the third year after establishment. Flowers are fully double, mauve-colored, and very attractive. Newly emerged flowers are medium pink/mauve in color (R.H.S. 55D). Individual flowers darken as they age, such that mature 7 to 10day-old flowers are deep pink/mauve (R.H.S. 68A). A range of color shades between these two extremes will occur on different flowers on the plant based on individual age differences in the flowers. Flowering usually begins in mid-March in Raleigh, N.C.; the date of first bloom ranges from March 15 to March 30. Full bloom typically occurs between March 25 to April 10, depending on weather conditions. Bloom duration is typically 10–14 days, and individual flowers last about 7–10 days, depending on temperature during bloom. The chilling requirement is estimated to be 950 hours below 4 C., based on comparison of flowering time to peach cultivars 'Contender' (unpatented), 'Winblo' (unpatented), and 'Clayton' (unpatented) at the Raleigh, N.C. test location.

While 'Corinthian Mauve' is a self-fruitlet peach variety, fertility of flowers is poor, and fruit set is generally low in most years, for unknown reasons, unrelated to the pollination requirements of the tree. It is estimated that less than 1% of flowers produced set fruit. Fruit are very small, bitter tasting, and of no horticultural importance in this variety. Fruit ripen in mid to late August in Raleigh, N.C.

'Corinthian Mauve' possesses double, mauve colored flowers, distinguishing it from 'Corinthian White' (co-pending U.S. Plant Pat. application Ser. No. 09/146,219), which possesses double, white colored flowers showing no pig-