Peach and Nectarine Varieties for the Northeast
by
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Introduction and Methodology
Testing and evaluation of apricot, nectarine, peach, and plum varieties began in New Jersey in 1983. The evaluation of plums began with the receipt of aprium and pluot varieties from Dave Wilson Nurseries and plum varieties from the USDA plum breeding program in Byron Georgia in the late 80’s. Apricot evaluations have been discontinued after repeated tree loss and lack of consistent productivity primarily due to low winter and spring temperatures.

Most peach, nectarine, and plum varieties have been received for testing from public and private fruit breeders, commercial nurseries, and individual growers. In recent year efforts have been made to limit testing of the varieties that have not been introduced for commercial introduction.

The major goal of the program is select the best varieties for our commercial peach industry in New Jersey and Pennsylvania. Another goal is to determine which varieties that have been introduced that are not adapted to our region or have major deficiencies of which our industry should be aware.

Six blocks of 722 cultivars of peaches and nectarines were maintained at ten orchard blocks and the Rutgers Agriculture Research Center in Upper Deerfield Township in southern New Jersey. Four tree replicates of each cultivar on the standard seedling rootstocks of Lovell, Guardian, Bailey and Halford are planted and evaluated. After 8 years of evaluation the poorest cultivars are removed from the oldest blocks. All blocks receive care and attention received in commercial orchards blocks. My technicians and I do planting and early tree training. Temperature records are collected at each site. Data of tree growth, flower set and flower characteristics are recorded in the spring. Growth rates, fruit set, disease resistance, and susceptibility data is collected during the growing season. After collection of flower set and fruit set data, a rating is given each cultivar on productivity relative to its ability to withstand spring frost and low winter temperatures. Fruit characteristics are recorded near and at harvest. Fruit data characteristics are recorded as ratings for flavor, red over color, attractiveness, firmness of flesh and skin, pubescence, free from pit or stone, flesh color, shape and any other unusual or distinguishing characteristics. All fruit samples are diameter sized and weighed. Fruit soluble solids and acidity are measured and recorded. Samples are stored for grower observations and the most promising are utilized for post harvest evaluation in the Postharvest Laboratory of Dr. Dan Ward1. All fruit is photographed for future reference and publication.

The following are written descriptions of the most important and promising peach and nectarine cultivars evaluated and planted in New Jersey. They are listed in order of ripening in southern New Jersey, mostly relative to Redhaven a Michigan cultivar that is still widely grown cultivar in New Jersey. Promising plum and plumcot cultivars will not be discussed in this presentation.

Groupings include:
1) Yellow-fleshed peach cultivars suggested for planting;
2) White-fleshed peach cultivars suggested for planting;
3) Yellow and white-fleshed fuzzless peach or nectarine cultivars suggested for planting;
4) Yellow and white-fleshed flat peach cultivars suggested for planting;
5) Promising or novel peach and nectarine varieties
6) Promising New Jersey varieties not introduced

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SUGGESTED VARIETIES FOR PLANTING IN NEW JERSEY

Yellow-Fleshed Peach Varieties (In Order of Ripening)

June Maturity
Queencrest
Sunbrite -
Desiree™ NJ 350

July Maturity
Spring Prince
Spring Flame™ (Burchell D2.102) -
Flamin Fury® PF#5B
Ruby Prince
Harrow Dawn
Sentry
Glenglo
Flamin Fury® PF# 7
Summer Serenade
Vulcan
GaLa.
Flavorcrest
Vinegold
Early Loring
Redstar
Flamin Fury® PF 15A
Flamin Fury® PF Lucky 13
Blaze Prince
John Boy
Blazingstar
Flamin Fury® PF 14 Jersey

August Maturity
Starfire
Salem
Coralstar
Flamin Fury® PF 17
Bounty
Harrow Fair
Flamin Fury® PF 19-007
Flamin Fury® PF 20-007
Flamin Fury® PF#23
Contender
July Prince
Allstar
Flamin Fury® PF#24-007
Glowingstar
Scarlet Prince
Flamin Fury® PF Lucky 24 B
Gloria™ NJ 351
Flamin Fury® PF#25
Messina™ NJ 352
Flamin Fury® PF#27A

September Maturity
COLOR RATINGS ARE QUITE VARIABLE ON PEACHES RIPENING AFTER SEPTEMBER 1.
Flamin Fury® PF 28-007 -
Flame Prince
Autumn Star
Lauroi
Victoria™NJ
Big Red

White-Fleshed Peach Varieties (In Order of Ripening)

June Maturity
Spring Snow
Manon

July Maturity
Scarlet Pearl
Sugar May
Southern Pearl.
Snow Bride

August Maturity
White Lady
Snow Beauty
Klondike White
Carolina Belle
Blushing Star
Sugar Giant
Opale
Snowfire
Benedicte
Lady Nancy
Snow King

September Maturity
Snow Giant
Yukon King

Yellow-Fleshed Nectarine Varieties (In Order of Ripening)

June Maturity
Mayfire

July Maturity
Easternglo -
White-Fleshed Nectarine Varieties (In Order of Ripening)

July Maturity
Arctic Star
Jade
Silver Gem (NJ N100
Arctic Sweet
ArticGlo
Crimson Snow

August Maturity
Emeraude
Arctic Belle
Arctic Jay
Arctic Gold
Zephyr

September Maturity
Topaze
Arctic.

White And Yellow-Fleshed Flat Peach Varieties
(In Order of Ripening)

Flat peaches are also known as "saucer" or "doughnut-type" peaches because of their round, oblate to squat appearance.

NJ F18 (NJ L10-72) –
NJ F15 (NJD 51-270)
Saturn

TangOs™ (NJ F16)
Galaxy

TangOs II™ (NJ F17)

Table 2 Relative Susceptibility of Peach and Nectarine Varieties to Bacterial Spot Xanthomonas pruni

<table>
<thead>
<tr>
<th>Low or Less Susceptibility</th>
<th>Medium Susceptibility</th>
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<tbody>
<tr>
<td>Allstar</td>
<td>Redstar</td>
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<td>Ruby Prince</td>
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<td>Biscoe</td>
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<td>Spring Prince</td>
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<td>NJ 351(Gloria)</td>
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<td>NJ 352(Messina)</td>
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<td>Cresthaven</td>
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Early Sunhaven
Early Loring
Eastern glo
Elberta
Emeraude
Encore
Flameprince
Flamin Fury PF# 11
Flamin Fury PF# 17
Flamin Fury PF# 20-007
Flamin Fury PF# 23
Flamin Fury PF# 24-007
Flamin Fury PF# 25
Flamin Fury PF# 27A
Flamin Fury PF# 24C
Fantasia
GaLa
Galaxy
Garnet Beauty
Glohaven
Harvester
Harblaze
Harflame
Jade
Jefferson
Jerseydawn
Jerseyglo
Jerseyqueen
Jim Dandee
John Boy
Late Sunhaven
Loring
NJF15
Parade
Queencrest
Raritan Rose
Ruston Red
Salem
Spring Snow
Stark Ovation
Sugar May
Summer Beaut
Summer Serenade
Triogem
Topaz
White Lady
High Susceptibility
Arctic Belle
Arctic Blaze
Arctic Jay
Arctic Gold
Arctic Star
Arctic Pride
Autumnglo
Autumn Lady
Babygold 5
Benedicte
Big Red
Fayette
Flavor Top
Flavorcrest
Glacier
Heavenly White
Honeyblaze
Honeykist
Honeyroyale
Jerseyland
Jerseyqueen
Johanna Sweet
Jolly Red Giant
Karlarose
Klondike
Lady Nancy
Laurol
Maygrand
Redgold
Rio Oso Gem
Snow Beauty
Snow Bride
Snowfire
Snowking
Snow Prince
Snowqueen
Snow Giant
Springgold
Sweet Flame
Sweet Dream
Sugar Lady
Sugar Giant
Suncrest
Sunglo
Sunhigh
Sweet Dream
Sweet Sue
Topaze
Yukon King
Zephyr

Other Promising Or Novel Peach Varieties (In Order of Ripening)
Raycrest -
Flamin Fury® 5D Big
Snow Prince
Westbrook
Carored
Arrington
Nustar
Flamin Fury® PF#10
Sweet Scarlet
Virgil
Country Sweet
Flamin Fury® 9A-007
Intrepid
Paul Friday 15B
Heavenly White
Sweet N UP
July Flame
Joanna Sweet
Beaumont
Sweet Blaze
Flamin Fury PF#22-007
Flamin Fury PF# 24C
Sweet Dream
Sweet Breeze (EW 170
Ventura
Glacier White
Valley Sweet
China Pearl
Carolina Gold
Flamin Fury® PF 30-007
Paul Friday 36-007
Flamin Fury® PF 35-007
August Flame
Honey Royale
Arctic Blaze