

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

Lauro

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 -

**Honeyblaze -
Honeykist
Harblaze
Harflame
Flamin Fury® PF 11
Summer Beaut
Flavortop**

August Maturity

**Sunglo
Jolly Red Giant
Redgold.
Fantasia.
Stark® Ovation**

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*

Low or Less Susceptibility	<p>Flamin Fury PF# Lucky 24B Flamin Fury PF# 28-007 Glenglo Glowingstar Harbelle Harbinger Harbrite Harcrest Harkin Harrow Beauty Harrow Dawn Harrow Diamond Harrow Fair Madison Manon NJF14 NJF16 NJF17 NJ 350(Desiree) NJ 351(Gloria) NJ 352(Messina) NJN100 Redhaven Redkist</p>	<p>Redstar Ruby Prince Saturn Sentry Scarlet Pearl Scarlet Prince Sentinel Spring Prince Starfire Sunbrite Vinegold Vulcan</p> <p><u>Medium Susceptibility</u></p> <p>Autumn Star Articglo Arctic Sweet Bellaire Blake Blushing Star Bounty Carogem Cresthaven Crimson Snow</p>
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Earlired
Early Sunhaven
Early Loring
Easternglo
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
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
Karlrose
Klondike
Lady Nancy
Laurol
Maygrand
Redgold
Rio Oso Gem
Snow Beauty
Snow Bride
Snowfire
Snowking
Snow Prince
Snowqueen
Snow Giant
Springold
Spring 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**