The Performance of Newer Peach and Nectarine Varieties in the Middle Atlantic States and the Potential for Southwestern Michigan

Jerome Frecon
Professor Emeritus
Rutgers University and
Consultant for Adams County Nursery
 SOURCES OF INFORMATION

www.rce.rutgers.edu/peach/

YELLOW-FLESHED PEACH VARIETIES FOR NEW JERSEY
Fact Sheet 1201 in 2013

WHITE-FLESHED PEACH VARIETIES FOR NEW JERSEY
Fact Sheet 1203 in 2013

FLAT PEACH VARIETIES FOR NEW JERSEY
Fact Sheet 2008

NECTARINE VARIETIES FOR NEW JERSEY
Fact Sheet 1204 in 2013

www.acnursery.com

http://www.clemson.edu/hort/peach/index.php?p=73

• ifrecon@verizon.net or jerry@acnursery.com
More Sources of Information On Peach and Nectarine Varieties
OUR GREATEST IMPROVEMENTS IN PEACH VARIETIES

- MORE RED OVERCOLOR
- LARGER FRUIT SIZE EARLY IN SEASON
- BETTER WHITE-FLESHED PEACHES
- MORE NOVEL TYPES
- BETTER RETENTION OF FIRMNESS AND FLAVOR IN TODAY’S VARIETIES
- MORE ATTRACTIVENESS
- MORE NECTARINES
- MORE RANGE OF FLAVOR
CHANGES IN EVALUATING PEACH VARIETIES OVER THE PAST 35 YEARS

- FLAVOR IS MORE IMPORTANT
- SIZE – FRUIT MUST BE LARGER
- TREE HARDINESS IS NOT AS IMPORTANT.
- NOT MUCH INTEREST IN HOW IT IS HOME PROCESSED
- MORE INTEREST IN WHITE FLESHED AND NOVEL TYPES
- RETENTION OF FIRMNESS
Rutgers NJAES Fruit Breeding Program

- Under the direction of Dr Joe Goffreda, Associate Professor, Director of the Rutgers Fruit and Ornamentals, Research and Extension, Center Cream Ridge, New Jersey
- Head evaluator and selector for the past 50 years was Senior Research Technician Anna Voordeckers;
- The Rutgers program was started in 1908 and been running continuously for 108 years;
- Today has an exclusive marketing arrangement with Adams County Nursery.
DESIREE™ ’NJ350’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program
- Very early ripening yellow semi freestone peach (-23d);
- Very attractive, 70-95% medium red on light yellow;
- 2 ½ to 2 ¾ inches but must be thinned early;
- Good firmness;
- Nice peach flavor;
- Some reports of light productivity.
CARORED

- Developed by Clemson University, South Carolina;
- Ripens 23 days before Redhaven;
- Flavor is excellent with firm melting sweet acidic yellow flesh, clingstone;
- Very attractive red overcolor,
- Medium large size for this season;
- Good productivity and vigor even during the cold winters and spring of 2015 and 2016;
- Medium susceptibility to bacterial spot.
EARLYSTAR® (FA 101)

- Developed in the Fruit Acres Breeding program in Michigan;
- Ripens about 18 days before Redhaven with Flamin Fury PF 5D Big and later than PF 5B or Desiree;
- An attractive yellow-fleshed peach in Mass, South Carolina and New Jersey;
- Firm melting clingstone flesh with good flavor for an early peach;
- A bright crimson red overcolor;
- Leaves and fruit have medium susceptibility to bacterial spot;
- May have edge in winter hardiness over other varieties in this season.
VERY EARLY – YELLOW FLESHED

- **RICH MAY**
  - JUNE 30, best in season
- **SUNBRITE**
  - JULY 2, very pretty
- **SPRINGFLAME**
  - JULY 4, beautiful
- **FLAMIN FURY PF 5B** – July 7 consistent
- **FLAMIN FURY 5 D BIG** - July 12, not big
FLAMIN FURY® PF EARLY 8 BALL

- Developed by Paul Friday’s Flamin FuryPeach Breeding Program in Michigan.

- Ripens approximately 15 days before Redhaven;
  - Has Medium large size, excellent for this season;
  - Globose shape with 70-90% crimson red overcolor, prominent suture;
  - Firm to very firm good quality and sweet acid flesh
  - Clingstone;
  - Medium susceptibility to bacterial spot;
  - With our cold 2014/2015 winter may be one of the best varieties in this season just before and with Sentry.
EARLY YELLOW FLESHED

- **HARROW DAWN**
  - July 8, firmness?
- **RUBYPRINCE**
  - July 9 hardiness?
- **SENTRY**
  - July 12, hardiness
- **GLENGLO**
  - July 14, most popular
- **FLAMIN FURY PF 7**
  - July 14, OK
- **SUMMER SERENADE**
  - July 16 weak tree
EARLY – YELLOW FLESHED VARIETIES

- SWEET SCARLET
  - July 19, bacterial spot, hardiness?

- GALA
  - July 23, hardiness?

- BLAZEPRINCE
  - July 25, hardiness?

- FLAVORCREST
  - July 27, bacterial spot?
FLAMIN FURY® PF 9A-007
US PP 15,498

- Developed by Paul Friday’s Flamin Fury Peach Breeding Program in Michigan
- Ripens with Redhaven:
- Uniform large size. The best size in this early season;
- Yellow Flesh is mostly semi freestone, firm and with very good flavor;
- Attractive, nice red orange to scarlet red overcolor;
- Vigorous trees with low susceptibility to bacterial spot.
EVELYN™ NJ357           PPAF

- From the Rutgers NJAES Tree Fruit Breeding Program;
- Ripens with RH
- Beautiful, full red crimson color, Smooth low pubescence;
- Large uniform size;
- Very firm yellow flesh, retains firmness well;
- Sweet, very good, low acid flavor;
- Always productive,
- Low susceptibility to bacterial spot.
EARLY MIDSEASON YELLOW FLESHED

- **FLAMING FURY 15 A**
  - July 29
- **REDHAVEN**
  - July 30
- **REDSTAR**
  - August 2
- **JOHNBOY**
  - August 4
- **BLAZING STAR**
  - August 5
- **FLAMIN FURY PF LUCKY 13**
  - August 5
JULY PRINCE

• Developed by the ARS-USDA in Byron, Georgia.
• Ripens approximately 13 days after Redhaven

• Large to very large size;

• Attractive scarlet red over a reddish yellow ground color;

• Yellow-fleshed freestone peach, The flesh is very firm, melting with sweet acidic and very good flavor;

• Low susceptibility to bacterial spot;

• Southern variety but a history of good productivity.
MIDSEASON - YELLOW FLESHED VARIETIES

- BELLAIRE
  - August 5
- STARFIRE
  - August 6
- SALEM
  - August 7
- CORAL STAR
  - August 8
- BOUNTY
  - August 10
- FLAMIN FURY PF 17
  - August 10
- FLAMIN FURY PF 19-007
  - August 12
MESSINA™ ‘NJ352’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program
- Late midseason yellow-fleshed peach (+21d);
- Attractive, 70-95% medium red on light yellow;
- 2 ¾ - 3 inches in diameter;
- Excellent firmness;
- Good flavor, melting freestone;
- Low susceptibility to bacterial leaf spot and constriction canker.
GLORIA™ ‘NJ351’

- Developed by Rutgers NJAES Tree Fruit Breeding Program
- Mid-season yellow peach (+14 to 20d);
- Bright, attractive;
- 60-90% medium red on yellow;
- 2 ¾ inches;
- Freestone. excellent firmness;
- Low acid peach;
- Fruit produce little to no ethylene, slow softening;
- Late blooming, very productive.
Sub Acid Peaches

In New Jersey taste test we have run Gloria picked at optimum maturity has always rated highly and equivalent to the sweet acid yellow varieties. Low acid white and yellow fleshed peach and nectarine varieties have been grown in NJ for at least 25 years.

- In the Fruit Tasting Seminars conducted by Dave Wilson Nursery, we have noticed that young people prefer fruit that is firm rather than soft-ripe. With their higher sugar-to-acid balance when firm-ripe, the new low acid peach and nectarine varieties developed by the Zaigers are ideal for today's marketplace. (source Dave Wilson Nurseries)

There are over 50 important California peach and nectarine varieties that are sub acid. Some grown in New Jersey and the Eastern United States are Spring Snow, Snobrite, White Lady, Klondike, Sugar Giant, Snow Giant, Yukon King, many flat peaches and nectarines with yellow and white flesh.
LATE MID SEASON YELLOW FLESHED

- FLAMIN FURY PF 22-007
  - August 14
- CONTENDER
  - August 16
- ALLSTAR
  - August 16
- FLAMIN FURY PF 23
  - August 17
- FLAMIN FURY PF 24-007
  - August 18
- GLOWINGSTAR
  - August 19
- FLAMIN FURY PF LUCKY 24B
  - August 23
- CRESTHAVEN
  - August 24
FLAMIN FURY® PF 28-007

- Developed by Paul Friday’s Flamin Fury Peach Breeding Program in Michigan;
- Ripens approximately 30 days after Redhaven;
- Large to very large fruit size;
- Attractive 60-80% crimson red overcolor;
- Yellow-fleshed, freestone ripening;
- Flesh is firm to very firm with very good flavor;
- Productive with medium susceptibility to bacterial spot.
SELENA™ NJ358 AKA K64-197

- Developed by the Rutgers NJAES Tree Fruit Breeding program;
- Late season yellow peach (+29d);
- Attractive 50-80% red on yellow;
- 2 ¾ - 3 inches in diameter;
- Excellent firmness;
- Good quality;
- Low susceptibility to bacterial spot;
- Productive.
TIANA™ NJ 359 AKA K65-76 PPAF

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Late season yellow peach (+35d);
- Attractive, 50-75% mottled red on yellow undercolor;
- 2 ¾ - 3 inches in diameter. Very large;
- Excellent firmness;
- Good quality sweet normal acidic flavor;
- Low susceptibility to bacterial spot;
- Productive.
AUTUMN STAR™ (FA 42)

- Developed in the Fruit Acres Breeding program in Michigan;
- Ripens approximately 40 days after Redhaven;
- Color variable as with many very late season peaches;
- Large to very large;
- 60-80% crimson red yellow overcolor;
- Yellow-fleshed, freestone peach;
- Flesh is firm with good flavor;
- Low susceptibility to bacterial spot.
LATE SEASON – YELLOW FLESHED VARIETIES

- FLAMIN FURY PF 36-007
  - September 2
- FLAME PRINCE
  - September 7
- LAUROL
  - September 7
- FLAMIN FURY PF FAT LADY
  - September 16
- PARADE
  - September 20
VICTORIA™ ‘NJ353’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Late season yellow peach (+40d);
- Fairly attractive;
- 20-80% medium red on yellow;
- Fruit 2 ¾ inches in diameter;
- Good firmness and flavor;
- Low susceptibility to bacterial spot and constriction canker;
- Melting freestone;
- Always productive.
VERY EARLY - WHITE FLESHED VARIETIES

- **SPRING SNOW**  
  - 27 days before RH  
  - July 5
- **MANON**  
  - 21 days before RH
- **SUGAR MAY**  
  - 14 days before RH
- **SNOWBRIDE**  
  - 6 days before RH
SCARLET ROSE™ NJ355 PP 23,883

- From Rutgers NJAES Tree Fruit Breeding Program;
- Ripens about 16 days before RH;
- Beautiful, one of the prettiest peaches;
- Cream white flesh, clingstone;
- Very firm, holds its firmness until skin softens;
- Very good flavor, low acid, juicy;
- Late bloomer, cropped well during cold spring of 2016;
- Moderate susceptibility to bacterial spot.
Developed by Rutgers NJAES Tree Fruit Breeding Program;

Early season white peach (-14d);

Very attractive;

80-100% medium red on cream;

Generally 2 ¾ inches in diameter;

Excellent firmness;

Sweet, low acid;

Low susceptibility to bacterial spot;

Productive.
LATE MIDSEASON TO LATE - WHITE FLESHED VARIETIES

- **BENEDICTE**
  - 30 days after RH
  - sub acid
  - Low susceptibility to bacterial spot

- **LADY NANCY**
  - 28 days after RH
  - normal acidity
  - Medium susceptibility to bacterial spot

- **SNOW GIANT**
  - 35 days after RH
  - low acid
  - High susceptibility to bacterial spot
MIDSEASON WHITE-FLESHED VARIETIES

- **KLONDIKE WHITE**
  - 4 DAYS AFTER RH

- **CAROLINA BELLE**
  - 12 DAYS AFTER RH

- **SUGAR GIANT**
  - 18 DAYS AFTER RH

- **BLUSHING STAR**
  - 20 DAYS AFTER RH
WHITE CLOUD

- Developed at University of Arkansas Division of Agriculture in Clarksville Arkansas
- Large to very large size;
- 60-70% purplish pink red over cream ground color;
- Ripens in Redhaven season;
- White flesh is firm, non melting, with slightly acidic, aromatic, very good sweet flavor;
- Clingstone;
- Unusual because of its non melting semi clingstone white flesh;
- Low susceptibility to bacterial spot;
- Part of a series of white flesheed varieties including White Diamond, White Rock, White County and White River from Arkansas.
AUGUST ROSE™ NJ 356 PP 23,884

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Late season white peach (+24d);
- Very attractive;
- 60-90% medium red on cream;
- 2 ¾ - 3 inches in diameter. Very large size;
- Excellent firmness;
- Sweet, low acid;
- Low susceptibility to bacterial spot;
- Productive.
NECTAFEST™ PP 23,882

- Ripens 12-14 days before Redhaven near Easternglo;
- Developed by the USDA-ARS Fruit Breeding program in Kearneysville, West Virginia;
- Yellow-fleshed, moderately firm clingstone;
- Medium large fruit size; few skin blemishes
- Excellent flavor, sweet normal acid melting flesh;
- Upright but grower friendly productive tree;
- No bacterial spot has been observed
AVALON™ NJN 101 PP 23,882

- Early yellow nectarine (-12d);
- Developed by the Rutgers NJAES Fruit Breeding Program;
- Yellow-fleshed semi clingstone; firm, melting flesh;
- Medium size 2 ½”, low blemish skin; Very attractive
- Excellent low acid sweet flavor,
- Very productive with low susceptibility to bacterial spot;
BRIGANTINE™ NJN102 PPAF

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Ripens July 20-25 just before Summer Beaut;
- Yellow-fleshed, semi freestone with firm melting flesh;
- Flavor is very good, sweet with normal acidity, TTA = 1.47%, TSS=11.85% S/A = 8/1;
- Fruit size = 2.6”, 190 grams, Skin clean no blemishes;
- Tree is very productive with low susceptibility to bacterial spot;
- Medium susceptibility to bacterial spot.
EARLY SEASON YELLOW FLESHED NECTARINES

- **HONEYBLAZE**
  - July 17
- **EASTERN GLO**
  - July 20
- **HARBLAZE**
  - July 28
- **HARFLAME**
  - July 30
FLAMIN FURY® PF 11 NECTARINE

- Ripens slightly ahead of Redhaven;
- Developed by Paul Friday Breeding program, Michigan;
- Yellow-fleshed moderately firm-fleshed semi freestone;
- Large uniform size, skin blemishes but attractive color;
- Very good flavor, sweet with normal acidity;
- Regularly productive, moderate susceptibility to bacterial spot.
MID TO LATE SEASON YELLOW FLESHED

- SUMMER BEAUT
  - August 1
- FLAVORTOP
  - August 8
- SUNGLO
  - August 10
- RED GOLD
  - August 18
- FANATASIA
  - August 24
Developed by the Rutgers NJAES Tree Fruit Breeding Program;

Early ripening white nectarine (-13d before RH);

Very attractive;

80-95% glossy red on cream;

2 ½ inches medium size;

Good firmness;

Excellent, normal acid, sweet;

Clingstone with a melting texture.

Productive;

Low susceptibility to bacterial spot;
SILVERGLO™ NJN103  PPAF

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Ripens July 22-27 in southern New Jersey;
- Cream-fleshed semi-freestone; firm melting flesh;
- Fruit size is large 2.8 “ 207 grams; skin is attractive, lots of pinkish red color, low skin blemishes;
- Flavor is very good, sweet somewhat aromatic with normal acidity;
- TTA = 1.46%,  TSS = 11.1%  S/A = 7.6/1;
- Trees are moderately vigorous, productive. Low susceptibility to bacterial spot.
Ripens 26-30 days after Redhaven;
Developed by R. Monteux-Caillet and INRA Mediterranean Fruit Research Station of Avignon, France;
Cream white-fleshed freestone, firm melting;
Large to very large fruit, skin blemished with variable color depending on late season temperatures;
Excellent flavor, aromatic, sweet with normal acidity;
Medium susceptibility to bacterial spot.
Medium productivity.
OTHER STANDARD WHITE-FLESHED NECTARINE VARIETIES

- JADE  
  16 days before RH
- ARCTIC GLO  
  16 days before RH
- ARCTIC SWEET  
  9 days before RH
- EMERAUDE  
  9 days after RH
- ARCTIC JAY  
  15 days after RH
- ARCTIC PRIDE  
  42 days after RH
BUENOS II™ NJF15’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Early mid-season yellow peach (-8d)
- Attractive.
- 25-80% medium red on yellow.
- 2 ½ or more inches in diameter.
- Good firmness.
- Nice spicy flavor.
- Susceptible to bacterial spot.
- Clingstone with non-melting texture
BUENOS™ NJF18’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Early mid-season yellow fleshed flat peach (-6d);
- Very attractive;
- 60-75% medium red on yellow;
- 2¾-3 or more inches in diameter;
- Very firm, no skin tearing, clean scar;
- Sweet mild flavor, very good;
- DOES NOT MAKE Viable PRODUCE POLLEN. Productive;
- Semi-clingstone with melting texture.
‘TANGOS™ NJF16’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Early mid-season yellow peach (-4d);
- Very attractive, All golden yellow;
- 2 ½ -3 inches in diameter;
- Good firmness. No skin tearing, Very small scar;
- Sweet, spicy flavor, excellent;
- Clingstone with non-melting texture;
- Finish problems on over-matured fruit some years.
‘TANGOS™ NJF17’

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Early mid-season white peach (+4d)
- Fair appearance, All cream-green,
- 2 ½ inches in diameter.
- Good firmness. No skin tears when harvesting;
- Sweet, spicy flavor.
- Medium to large scar that may crack in some years.
- Clingstone with non-melting texture.
OTHER FLAT PEACHES

● SATURN.
  - July 28
  - Exquisite low acid flavor;
  - Soft, juicy, skin tears;
  - Freestone called “donut” peach;
  - White fleshed, generally very productive;

● GALAXY
  - August 8;
  - Larger, firmer, later than Saturn;
  - Also freestone “donut” peach
  - White-fleshed
NJ F 20 flat nectarine  PPAF

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Ripens June 28-July 2 in southern NJ;
- Yellow-fleshed clingstone flat nectarine;
- Firm melting flesh; Low acid sweet flavor;
- Good overall quality;
- Mostly 2 ½ inch in diameter; small scar but some some cracking;
- Trees are small but vigorous, only have seen three years; No bacterial spot observed
- May be introduced because it is the first flat nectarine with very good flavor.