NEW AND INTERESTING PEACH, NECTARINE, PLUM, AND APRICOT VARIETIES – NEWER AND IN-DEMAND APPLE AND PEAR VARIETIES

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

jfrecon@verizon.net or jerry@acnursery.com
More Sources of Information On Peach and Nectarine Varieties
DESIREE™ NJ350 cltvr

- 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 colder winters and spring 2015, 2016, and 2017;
- Medium susceptibility to bacterial spot.
EARLYSTAR® FA 101 cltvr

- 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.
FLAMIN FURY® PF 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 recent colder winters may be one of the best varieties in this season just before and with Sentry.
OTHER EARLY PEACHES

RUBYPRINCE

July 10, -18 before RH
very attractive
Firm, yellow fleshed, clingstone
Low susceptibility to bs
hardiness??, split pits??

GLENGLO

July 14, -11 before RH;
Attractive, good size
Low susceptibility to spot
Productive with good hardiness
GALA

- Developed by USDA in Georgia and Louisiana State University;
- July 20-23, -5-7 days before Redhaven;
- Medium size peach;
- Very uniform in size, color, and ripening;
- Attractive bright red color;
- Light pubescence;
- Firm yellow semi-clingstone flesh; Good sweet flavor;
- Medium susceptibility to bacterial spot;
- Moderate productivity some crop lost in 2015, 2016
FLAMIN FURY® PF 9A-007

- 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.
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.
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.
MESSINA™ NJ352 cltv

- 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 cltvr

- 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 -3 inches large to very large;
- 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.
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;
- Very 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 cltvr

- 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 cltvr

- 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 cltvr

- 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 freestone 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 (PF 35-007 cultivar)
  - September 16
Developed by the Rutgers NJAES Tree Fruit Breeding Program;

Late season yellow peach (+40d);

Fairly attractive but red skin color variable;

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.
SCARLET ROSE™ NJ355 cltv

- From Rutgers NJAES Tree Fruit Breeding Program;
- Ripens about 18 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 2016-17;
- 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.
**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
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 white flesh;
- Low susceptibility to bacterial spot;
- Part of a series of white fleshed varieties including White Diamond White Rock, White County and White River from Arkansas.
AUGUST ROSE™ NJ 356 cltvr

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

- 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;
- Low susceptibility to bacterial spot
AVALON™ NJN 101cltvr

- 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, sub acid sweet flavor,
- Very productive;
- Low susceptibility to bacterial spot;
BRIGANTINE™ NJN102 clvtr

- 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 medium large Skin clean no blemishes;
- Tree is very productive
- Low susceptibility to bacterial spot.
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.
SILVERGEM® NJN100cltvr

- 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, sub acid, sweet;
- Clingstone with a melting texture.
- Productive;
- Low susceptibility to bacterial spot;
SILVERGLO™ NJN103 clvtr

- Developed by the Rutgers NJAES Tree Fruit Breeding Program;
- Ripens July 22-27 in southern New Jersey -5 RH
- 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.
ZEPHYR™

- 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.
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.
NJ H very early flat nectarine that is being prepared for introduction

- 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 cracking;
- Trees are small but vigorous, only have seen three years;
- Medium susceptibility to bacterial spot bacterial spot observed
- We introduced because it is the first flat nectarine with very good flavor.
Sunrise

A disease-resistant pear introduced by USDA-ARS and OSU, Sunrise has shown impressive resistance to fire blight. The fruit color is yellow, often finishing with a slight blush and very little russet. Sunrise harvests two weeks before Bartlett and will store for two to three months.

Shenandoah

Another release from USDA and OSU, Shenandoah harvests approximately three weeks after Bartlett. Fruit size is large with traditional sub-acid pear flavor. Blight resistance is good and similar to that of Seckel. Shenandoah stores very well for up to five months without breaking down.
Formally known as ‘Harovin Sundown’
An attractive late season pear
Harvest 3 weeks after Bartlett
Fruit has red-over color with fine texture and very good flavor
Trees are fire blight resistant
Estimated Demand Trends on Apple Varieties

• **Today**
  - Premier Honeycrisp
  - Aztec Fuji and some lessor cultivars
  - Red Honeycrisp cultivars
  - Buckeye Gala with others
    - Crimsoncrisp
    - Ambrosia
    - Daybreak Fuji
  - Barnsby Pink Lady
  - Controlled and Club Varieties
• Sport of Royal Gala that matures three weeks earlier;

• Bright, cherry red apple with little to no scarfing;

• Flavor and eating characteristics of standard Gala varieties.
PREMIER™ HONEYCRISP (DAS 10 CLTVR)

- Ripens 2-3 weeks before regular Honeycrisp;
- Just like Honey crisp in most horticultural characteristics;
- Haven’ see much problems with post harvest disorders and bitter pit.
Royal Red Honeycrisp®
LJ 1000

Honeycrisp
MinnB42

Firestorm® Honeycrisp
AUTUMN CRISP  *(NY 674 CLTVR)*

- Tested as NY674 by Cornell University
- Matures in mid-September in south-central Pennsylvania. Large size
- Flavors is sweet tart, making it very good
- Non-browning or very slow to oxidize.
- Tree is healthy and productive.
GoldenParsa*DA ROSA®

- A sport of Clone B (Gibson Golden) from South Tyrol of Italy;
- Has more red blush than other goldens
- Smoother than other Golden Delicious.
QUERINA ™  (X2775 CLTV.)

- Developed by INRA in France
- Scab immune and tolerant mildew and fireblight;
- 2-3 weeks after Golden mid October in southern N.J
- Very good sweet-tart apple
- Good storage – 3 moths in regular storage
CRIMSON CRISP® *(CO-OP 39 CLTVR)*

- Scab immune variety introduced by the Purdue Rutgers, Illinois program;
- Fruit matures in mid-season and will keep in cold storage for six months;
- Very attractive crimson red color over 95% of the fruit surface;
- Very firm, crisp texture with a tart, complex flavor;
- Tree is very grower friendly with a spreading habit, fruiting throughout the two- and three-year-old branches.
Cripps Pink cultivars (Pink Lady®)

Barnsby Cultivar

Maiselin Cultivar

Cripps Pink Original
EVERCRISP MAIA 1

- Developed by the Midwest Apple Improvement Association;
- Looks like standard Fuji but has the texture of Honeycrisp;
- Very sweet coarse texture very uniform in flavor and hangs and handles well;
- Excellent flavor through storage life which is extensive;
- Tree is healthy and vigorous a stronger grower than Honeycrisp not as vigorous as Fuji.
Purchase trees under the cultivar name. Market apples under the trademark name. Enjoy our crispy, grower-friendly, 21st century varieties!
GOLDRUSH

- Developed by PRI (Purdue, Rutgers, Illinois Co Op).
- Ripens late October through mid November;
- Flesh is hard, very crisp.
- Sugar and acid levels are high (soluble solids seldom below 17%), the balance slightly favoring tartness at harvest, then mellowing in storage;
- Immune to scab, highly resistant to powdery mildew, susceptible to cedar-apple rust, moderately resistant to fire blight;
- Farily easy to grow – speading and medium vigor;
- Thins easily to size;
EARLY BLUSH (NJ 53 CLTVR)

- Early maturing mid June apricot developed by Rutgers.
- Fruit is medium in size with an attractive orange-red blush;
- Excellent flavor
- Early bloomer self fruitful
SUGAR PEARLS™ (NJA150 cltvr.)

- Cream-white-fleshed apricots developed at Rutgers.
- Blooms much later than most other apricot varieties. Productive
- Flavors is superb, soft but juicy, very high SSC up to 21%
- Shore handling life most for local sales and consumption
- Self-fertile but crop improves with later-blooming apricot (like Harlayne, Hargrand, Jerseycot
- Healthy spreading tree
ILONA™ (NJA151 cltvr)

- Ripens in mid to late June (early season) in southern NJ
- Very attractive bright orange fruit with a red blush.
- Excellent flavor and quality. Average 17% SSC
- Flesh is firm, yet juicy.
- Productive
- Never observed much bacterial spot.
ROBADA

- Introduced by USDA-ARS breeding program in Calif;
- Self-fruitful but needs a different variety to enhance productivity;
- Midseason apricot bloom has set well in SC Pa to set medium crops;
- Growth habit is somewhat spreading;
- Fruits average 1.95” diameter;
- Orange skin heavily blushed with red.
- Flesh is juicy, with a complex sweet flavor;
- Handles well and keeps well in storage.
RUBY QUEEN

- Another USDA –ARS Southeastern Tree Fruit Center in Byro, NJ.
- Ruby Queen blooms with Methley and ripens three to four weeks after Santa Rosa mid to late July.
- Widely tested and shown to adapt well to humid climates.
- Outstanding flavor, the fruit has reddish-black skin and a firm red flesh.
- Tree is healthy with low susceptibility to bacterial spot.
SPRING SATIN PLUMCOT

- Interspecific hybrid introduced by the southeastern USDA fruit research station in Byron, Georgia;
- Ripens from July 5-10 on sc Pa.;
- Light yellow to yellow flesh;
- 90-100 & purplish red skin overcolor with light pubescence;
- Very sweet tart good flavor;
- Susceptible to bacterial spot;
- Early bloom but good productivity.
Interspecific Nectarine developed by Zaiger Genetics
Ripening from August 15 to 22 in South Central Pennsylvania;
Early bloomer with possibility of low chill;
Firm freestone cream colored flesh.
Acidic with a spicy sweet flavor
Maroon spin turning pinkish as it ripens
Ornamental tree with dark red leaf in the spring that matures to a rich green-red in late summer;
Tree health with medium susceptibility to bacterial spot
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.