

PLANT & PEST ADVISORY

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Yellow-Fleshed Peach Varieties Developed in Michigan

*Jerome L. Frecon, Agricultural Agent and Robert Belding,
Specialist in Pomology*

According to the 1999 Fruit Tree and Vineyard Survey, an increasing number of new peach varieties developed by Paul Friday of Coloma, MI and Annette and Randy Bjorge, also of Coloma, have been planted by New Jersey growers. Many of these varieties have been or are being tested in New Jersey. The three most important were FF PF#23 with 17,214 trees, FF PF#17 with 15,659 trees and FF PF#24-007 with 12,337 trees. The following are some that we have suggested for planting or have been planted by growers. Standard varieties are listed for comparison.

Flamin Fury PF#1 – A small to medium sized, ovate to globose, dark red over yellow skinned, moderately firm to soft, clingstone peach ripening from June 30 to July 4. The tree is vigorous and very productive, with low susceptibility to bacterial spot. Size is variable, but generally needs to be thinned hard and early. Some years split pits are a problem. In 2001 this variety was very disappointing. There is quite a bit of variability from planting to planting, leading me to believe that there are two different strains. 5% of the fruit had split pits. The size breakdown was as follows: 53% 2" to 2 ¼", 27% 2 ¼" to 2 ½" and 20% 2 ½" to 2 ¾". Average fruit size was 2.19 inches, average firmness 9.2 pounds and average SSC 9.54% on July 2 harvest. I don't think I would plant this one unless I needed a peach in this season.

Flamin Fury PF#5B – A small to medium sized, globose to ovate, complete red, firm, clingstone peach ripening from July 4 to 11. Must be thinned well to obtain diameter sizes of 2 ¼ to 2½ inches. Some split pits. The tree is vigorous and very productive, with low susceptibility to bacterial spot. This peach was also less than spectacular in 2001. 2% of the fruit had split pits. The size breakdown was as follows: 45% 2" to 2 ¼", 32% 2 ¼" to 2 ½", 20% 2 ½" to 2 ¾", 3% 3 ¾". Average fruit size was 2.27 inches, average firmness 10.8 pounds and average SSC 9.63% on July 2, 2001. I still like the appearance of this variety better than FF PF#1.

Risingstar (Fruit Acres 47) – A small to medium sized, globose, scarlet red over yellowish green undercolor, firm fleshed, semi-clingstone peach ripening from July 10 to July 16, just ahead of

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Garnet Beauty. The tree is vigorous and very productive, with low susceptibility to bacterial spot. For some reason this variety did not have a heavy flower set in the Richwood test block. 16% of the fruit had split pits. The size breakdown was as follows: 30% 2 1/4" to 2 1/2", 19% 2 1/2" to 2 3/4", 51% 2 3/4" and up. Average fruit size was 2.80 inches, average firmness 6.6 pounds, SSC 10.5% on July 12, 2001. This light fruit set resulted in excellent fruit size in 2001, but of course affected firmness.

Flamin Fury PF#7 – A medium sized, globose, deep scarlet red over yellowish green undercolor, firm fleshed semi – clingstone ripening about July 16 with Garnet Beauty and Sentry. The tree is vigorous and has had a very heavy crop this first season of fruiting. No bacterial spot was observed. Fruit size was not bad on this variety grown in a block that had no irrigation. Fruit size breakdown was as follows on July 16, 2001: 38% 2 1/4" to 2 1/2", 62% 2 1/2" to 2 3/4". Average fruit size was 2.52 inches; average firmness was 7.14 pounds and average SSC 12.35% on July 16, 2001. This attractive peach will have to be observed in future years.

Fruit Acres 35 – This yellow-fleshed peach ripened on July 17, 2001. Fruit size breakdown was as follows: 25% 2 1/4" to 2 1/2", 56% 2 1/2" to 2 3/4", 20% 2 3/4" and up. Average fruit size was 2.69 inches, average firmness was 8 pounds, and 10.3% SSC. This is not a bad variety for this season.

Redstar (Fruit Acres 52) – A medium-to medium – large sized, globose, attractive, scarlet orange-red skinned, firm, semi-freestone peach ripening from July 22 to July 28. This peach must be thinned hard and early to get 2 1/2 inch peaches. The tree is vigorous and productive, with low susceptibility to bacterial spot. This variety was removed from my test block in 1999 so I no longer have trees to observe.

Redhaven – Still the standard of yellow-fleshed, semi-freestone peaches in this season. Ripens from July 24 to August 2. Tree is vigorous and always productive, with moderate susceptibility to bacterial spot. 10% of fruit had split pits in 2001. Fruit size breakdown was as follows: 20% 2 1/4" to 2 1/2", 60% 2 1/2" to 2 3/4", and 20% 2 3/4". Average fruit size was 2.66, average fruit firmness 10.8 pounds and average SSC 11.7% on July 25, 2001.

Blazingstar (Fruit Acres 12) – A medium sized, globose, attractive, bright scarlet red skinned, firm, semi-freestone peach ripening from July 24 to August 1. Some fruit have raised sutures. The tree is vigorous and productive, with low susceptibility to bacterial spot. No fruit had split pits. Fruit size breakdown was as follows: 38% 2 1/2 " to 2 3/4", and 62% 2 3/4" and up. Average fruit size was 2.61", average flesh firmness 6.66 pounds and SSC 11.8% on July 30, 2001.

Flamin Fury PF#15A – A medium sized, globose, 70-80% crimson red skinned with a greenish yellow undercolor, firm, freestone peach ripening from July 25 to August 1. Tree is vigorous and very productive, with low susceptibility to bacterial spot. Fruit size was better on this variety observed in commercial orchards. No split pits were observed. Fruit size breakdown was as follows: 3% 2" to 2 1/4", 11% 2 1/4" to 2 1/2", 35% 2 1/2" to 2 3/4", and 50% 2 3/4" and up in diameter. Average fruit size was 2.70 inches, average fruit firmness 7.58 pounds and average SSC was 11.07% on July 26, 2001.

Fruit Acres 53 – This attractive yellow-fleshed variety ripens very close to Redhaven. Fruit size breakdown for 2001 is as follows: 17% 1 1/2" to 2 3/4", 83% 2 3/4" and up. Average fruit size was 3.05 inches, average fruit firmness was 6.18 pounds and average SSC was 11.5% on July 30, 2001.

Starfire (Fruit Acres 11) – A medium sized, globose, attractive, full scarlet orange-red skinned, firm-fleshed, semi-freestone peach ripening from July 25 to August 2. The tree is vigorous and productive, with low susceptibility to bacterial spot. This variety was removed from my test block in 1999 so I no longer have trees to observe, although one grower has a large commercial planting which continues to be productive and attractive.

John Boy – A medium-large to large sized, globose, attractive, 60-70% bright crimson red skinned over yellow-green undercolor, firm, semi-freestone peach that ripens a few days after Redhaven, from July 28 to August 5. Tree is similar to Loring, being very vigorous but more productive, with moderate susceptibility to bacterial spot. This was one of the best peaches in New Jersey in 2001. 8% of fruit had split pits. Fruit size breakdown was as follows: 13% 2 1/2 "to 2 3/4 ", 87% 2 3/4" and up. Average fruit size was 3.87 inches, average fruit firmness was 6.25 pounds and average SSC was 12.7% on August 2, 2001.

Jersey Flamin Fury PF#14 – A medium-large sized, globose to ovate, bright, 60-80% crimson red skinned with a yellow-orange undercolor, firm, freestone peach ripening from July 31 to August 6. Size is much better than FF#15 A, with 90% of the fruit above 2 1/2 inches in diameter. Tree is vigorous, spreading, and productive, with low susceptibility to bacterial spot. 10% of the fruit had split pits. Fruit size breakdown was as follows: 39% 2 1/2" to 2 3/4", and 61% 2 3/4" and up on August 2, 2001.

JimDandee – A medium-large sized, globose, attractive, 70-80% mottled crimson red skinned over greenish yellow undercolor, firm, and freestone peach ripening from August 1 to August 7. The tree is moderately vigorous, prone to weak branch angles and *Cytospora sp.* canker, very productive, and

SEE JIMDANDEE ON PAGE 3

moderately susceptible to bacterial spot. This variety was removed from my test block in 1997. It is still heavily planted in New Jersey and does well.

Flamin Fury PF# 15B – A medium-large sized, attractive, full orange-scarlet red with orange-yellow undercolor, firm, freestone peach, ripening from August 7 to August 11. The tree is vigorous and productive, with low susceptibility to bacterial spot. This was a very attractive peach in 2001. No fruit was split. Fruit size breakdown was as follows: 10% 2 ¼" to 2 1/2", and 90% 2 ½" to 2 ¾". Average fruit size was 2.78", average fruit firmness was 12.5 pounds, and SSC 11.6% on August 6, 2001.

Paul Friday 215 – This variety ripens very close to 214. Fruit size breakdown in 2001 was 10% 2 1/4" to 2 ½", and 90% 2 ½" to 2 ¾". Average fruit size was 2.67 inches, average firmness was 8.3 pounds, and average SSC was 14.7% on August 7, 2001.

Flamin Fury PF#17 – A medium-large sized, ovate to globose, 55-70% crimson red skinned with yellow-green undercolor, firm, and freestone peach ripening from August 4 to August 10. The tree is vigorous and productive, with moderate susceptibility to bacterial spot. Fruit size breakdown was as follows: 32% 2 ½" to 2 ¾", 68% 2 ¾" and up. Average fruit size was 2.97 inches, average firmness was 5.45 pounds and average SSC was 10.8% on August 6, 2001. The intense night temperatures seemed to affect the firmness of this variety in 2001.

Fruit Acres 63 – This yellow-fleshed peach looks very much like Allstar but ripens a few days earlier. Fruit Size breakdown in 2001 was as follows: 19% 2 ½" to 2 ¾" and 81% 2 ¾" and up. Average fruit size was 2.89 inches, 13 pounds firmness and average SSC of 11.7%.

Coralstar (Fruit Acres 59) – A medium to large sized, globose, attractive, partially orange scarlet red colored peach with firm, freestone flesh, ripening from August 9 to August 14. This peach sizes nicely for its season and is very pretty. Tree is moderately vigorous and productive, with low susceptibility to bacterial spot. I missed the harvest on this variety in 2001.

Paul Friday 214 – This variety ripens from August 8 to August 15. Fruit size breakdown in 2001 was 70% 2 ¼" to 2 ½" and 30% 2 ½" to 2 ¾". Average fruit size was 2.43 inches, average firmness was 13.2 pounds, and average SSC was 12% on August 9, 2001.

Flamin Fury PF# 20-007 – 2001 was the first year we evaluated this variety at the test site near Daretown. The tree had a heavy crop of fruit, which probably didn't size normally due to the moisture stress and lack of irrigation in July. The fruit was very attractive with a 70-80% scarlet red to mahogany red overcolor and a greenish yellow undercolor. Fruit size breakdown was as follows: 68% 2 ¼ to 2 ½ inches,

32% 2 ½" to 2 ¾". Average fruit size was 2.37 inches, average firmness was 10.6 pounds and average SSC was 13.2 % on August 10, 2001.

Bounty – A large to very large sized, globose, deep partially red skinned with light greenish yellow undercolor, firm, freestone peach, ripening from August 7 to August 13. Bounty has been tested for many years as a replacement for Loring and is widely planted. The tree is vigorous and productive with low susceptibility to bacterial spot. Fruit size breakdown was as follows: 100% 2 ¾" and up. Average fruit size was 3.06 inches, average fruit firmness was 10.63 pounds, and average SSC was 10.54% on August 8, 2001.

Loring – A large to very large sized, ovate to globose, scarlet red blushed over yellow undercolor, firm, freestone peach ripening from August 8 to 15. It simply does not have enough color, in comparison to newer varieties, but is excellent for eating and home processing. The tree is very vigorous and moderately productive, with moderate susceptibility to bacterial spot. Fruit size breakdown was as follows: 100% 2 ¾" and up. Average fruit size was 3.21 inches, average firmness was 10.40 pounds and average SSC was 12.52% on August 9, 2001.

Allstar (Fruit Acres 80) – A medium-large sized, globose, attractive, 70-80% scarlet red skinned with reddish yellow undercolor, firm, freestone peach ripening from August 12 to August 17. The tree is large, vigorous, and productive, with low susceptibility to bacterial spot. Fruit size breakdown was as follows: 43% 2 ½" to 2 ¾", 57% 2 ¾" and up. Average fruit size was 2.65 inches, average fruit firmness was 8.45 pounds and average SSC was 11.15% on August 13, 2001.

Flamin Fury PF#24-007 – A large to very large sized, 60-70% scarlet red skinned with greenish yellow undercolor, firm, and freestone peach, ripening from August 11 to August 18. This is a large variety with 100% of the fruit over 2 ¾ inches in diameter. The tree is moderately vigorous and moderately productive, with moderate susceptibility to bacterial spot. Fruit size breakdown was 100% 2 ¾" and up. Average fruit size is 3.29 inches, average firmness 12.5 pounds and average SSC 11.6% on August 13, 2001. FF 24-007 does not produce the flowers of other Michigan peaches, consequently trees are heavily foliated which can hinder red color development.

Flamin Fury PF#23 – A medium-large sized, globose, 70-80% scarlet red skinned with a greenish yellow to yellow undercolor, very firm, freestone peach ripening from August 12 to August 18. It does not readily drop while retaining its firmness on the tree. The tree is vigorous and very productive, with low susceptibility to bacterial spot. Fruit size breakdown was 67% 2 ½" to 2 ¾" and 33% 2 ¾" and up.

SEE FFPF#23 ON PAGE 4

Average fruit size was 2.79 inches, average fruit firmness 13 pounds and average SSC was 11.94%. This may be one of the best Flamin Fury cultivars because it is well colored, sweet and firm. It is probably the most heavily planted Michigan cultivar at this time.

Glowingstar (Fruit Acres 17) – A medium-large sized, globose, attractive, 60-70% orange scarlet red over a greenish orange-yellow undercolor, firm, freestone peach ripening from August 14 to August 20. Flavor is good, melting, acidic, and sweet. The tree is vigorous, spreading, productive, and tolerant to bacterial spot. Fruit size breakdown is as follows: 24% 2 ¼" to 2 ½", 29% 2 ½" to 2 ¾", 47% 2 ¾" and up. Average fruit size was 2.69 inches, average firmness 13.25 pounds, and 11.78% average SSC on August 15, 2001.

Paul Friday 219 – A medium-large to large sized, globose, attractive 70-85% orange scarlet red over a yellow red under color, firm to very firm freestone peach ripening from August 19 to August 27. Flavor is very good, melting, acidic and sweet. Pubescence is light. The tree is vigorous, spreading to upright spreading, and productive with low susceptibility to bacterial spot. The size breakdown for 2001 is as follows 22% 2 ½" to 2 ¾", 78 % 2 ¾" and up.

Flamin Fury PF #25 – A large sized, globose, attractive, 60-70% bright crimson red color over green-yellow undercolor, firm, freestone peach, ripening from August 22 to August 27. The tree is vigorous and productive, with low susceptibility to bacterial spot. Fruit size breakdown for 2001 was as follows: 21% 2 ½" to 2 ¾" and 79% 2 ¾" and up. Color was not as good in 2001 as in previous seasons. This year this variety ripened after FF PF#27A.

Flamin Fury PF#27A – A large to very large sized, globose to ovate, 60-70% bright crimson red skin with a greenish yellow undercolor, firm, freestone peach, ripening from August 23 to August 28. The tree is vigorous and productive, with moderate susceptibility to bacterial spot. Fruit has dropped more than normal in the past two years. For some reason this variety matured on August 20, 2001 in the Swedesboro block. Fruit size breakdown was as follows: 19% 2 ½" to 2 ¾", 81% 2 ¾" and up. Average fruit size was 3 inches, average fruit firmness was 10.57 pounds and average SSC was 11.39% on August 20, 2001

Most of these varieties maturing after August 11, 2001 will be on display and discussed at the Fruit Varieties Showcase on September 11, 2001 at the Rutgers Fruit Research and Extension Center on Rt. 539 in Cream Ridge, NJ. For information and directions contact Jerome L. Frecon at 856-307-6450. □

New Jersey Cost of Production Peach Meeting

Monday, September 10, 2001

7:00 pm

Gloucester County Office of
Government Services
1200 N. Delsea Dr.
Clayton, NJ

*Dinner will be served
by*

*Jerome L. Frecon
Rutgers Cooperative Extension
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and*

*Nicole Pitts, Commodity Analyst
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Please reply to either of us if you plan to attend this meeting to establish accurate cost figures for Adjusted Gross Revenue Crop Insurance. A meal will be served and we need to know how many will be in attendance. Primarily for Camden and Gloucester County Growers. □

Calendar of Events

September 10, 2001, 7:00 p.m. - Cost of Production Insurance Meeting for Peach Growers, Gloucester County Office of Government Services, 1200 N. Delsea Drive, Clayton, NJ. Contact Jerry Frecon at Rutgers Cooperative Extension of Gloucester County at 856-307-6450.

September 11, 2001 - Fruit Variety Showcase, Rutgers Fruit Research and Extension Center, Cream Ridge, NJ. Contact Jerry Frecon at Rutgers Cooperative Extension of Gloucester County at 856-307-6450.

Varieties from Southern New Jersey to be Displayed at Variety Showcase on September 11, 2001

Jerome L. Frecon, Agricultural Agent

APPLES

Buckeye Gala	Benedict	Harcrest	Opale
Crimson Gala	Bounty	Harrow Beauty	Paul Friday
Elstar	Curcio Jersey Star	Harrow Fair	Paul Friday -214
Fulford Gala	D 101-162	Jersey Queen	Paul Friday- 215
Gala Go Red	Emeraude	Jersey Star	Red Gold
Gala Honeycrisp	Fantasia	Jolly Red Giant	Royal Lady
Galaxy Gala	Flaming Fury 24-007	Lady Nancy	Ruston Red
Gale Gala	Flaming Fury 25	Loring	Snow Fire
Ginger Gold	Flaming Fury PF #27A	NJ17-144	Snow King
Grand Gala	Flaming Fury PF#25	NJ-293	Sparkling Red
Lydia's Gala	Flaming Fury PF#15B	NJ-318	Stark Ovation
N.J. 100	Flaming Fury PF#17	NJ-325	Sugar Giant
N.J. 109	Flaming Fury PF#23	NJD 90-4	Sugar Lady
Pacific Gala	Flaming Fury PF27A	NJD 90-40	Summer Fire
Royal Gala	Flavor Queen Pluot	NJD133F	Sun Glo
Scarlet Gala	Flavor Rich	NJD91-128	USDABY8155-70
Swiss Gourmet	Flavor Rich Pluot	NJD91-134	USDABY82P9471
Ultradred Gala	Flavor Top	NJD91-20	USDABY888P4040

PEACHES AND NECTARINES

	Fruit Acres - 66	NJG 17-188	USDABY93P40-46
	Fruit Acres 120	NJG 42-172	USDABY93P4055F
Allstar	Fruit Acres 17	NJG 48-25	USDABY93P4D65F
Arctic Pride	Fruit Acres-126	NJH 3-76	USDABY95P3562
Arctic Queen	Fruit Acres-80	NJH30-80	Yukon King
Arctic Snow	Glory	NJK 31-72	Zephyr
August Flame	Glowing Star	NJK40-34	
		NJK7-28	

PPV National Survey Information – New Jersey

The following is the report for July 28 - August 17, 2001:

Field Sampling conducted by NJ Department of Agriculture

State	Start Date	Lab Processing Samples	Field Samples Taken (cumulative)	Lab Samples Processed (cumulative)	Results
NJ	May 14	NJDA	23,499F	46,998L	All negative

Laboratory Analysis conducted by NJ Department of Agriculture

Growers Sampled (Cumulative)	Samples Analyzed (Cumulative)	Total Acreage Sampled (Cumulative)	Field Samples Taken July 28 - Aug. 17, 2001	Lab Samples Processed: July 28 - Aug. 17, 2001
44 growers/1 nursery	532	3,503.62	3,488 F	6,976 L

Note: This completes sampling and testing in New Jersey for the 2001 season.

Submitted by New Jersey Department of Agriculture, Robert J. Balaam, Director, Division of Plant Industry

North Jersey Apple Maturity Update

Win Cowgill, Agricultural Agent

Apple fruit maturity is progressing on schedule. Cool night temperatures in the 40's and 50's °F last Saturday, Sunday and Monday nights have added good color to our Galas and Macs.

The Starch-Iodine index is one of the best ways to track maturity on apple varieties. It is also essential to monitor flesh pressure, sugar (Brix) development, and most importantly, background color on cultivars like Gala. Specific starch charts have also been developed for Gala, Liberty, Cortland, and Mutsu. On the West Coast they have also been developed for Fuji. We have published a web page that contains these specific charts. Point your browser to:

<http://www.umass.edu/fruitadvisor/clements/articles/sitestest.htm>

McIntosh

It is recommended that Mac's be harvested for long-term storage at a starch-iodine index between 5 and 6. We will begin our harvest of Macs at the Rutgers Snyder Farm September 4 or 5th.

Gala

We like to see flesh pressures of 16 or greater and sugars of 14% or greater for optimum fresh market sales. A starch-iodine index of 5 for fresh market would be a rule of thumb. Background color has historically been one of the best indicators of maturity for cultivars such as Gala. Fresh market Galas should be harvested when the background color is turning from a yellow to a cream color.

Gala strains traditionally come into maturity around Labor Day for Northern New Jersey growers. We will make our first of harvest of Treeco#42 Gala at the Rutgers Snyder Farm on September 4th. Gala is a cultivar that must be monitored carefully and harvested with multiple picks to get consistent fruit quality and size.

Empire

Empire for storage should be picked when the average starch-iodine index is between 4.5 and 5.5.

Red Delicious

Color development on Reds in North Jersey is excellent. If growers did not treat their Reds with ReTain, they may want to consider the use of NAA 2 weeks prior to harvest. Reds for fresh market sales should be picked with a starch-iodine index of 3.5-4.5.

Apple Cultivar Order of Ripening

Paulared
JonaMac
Elstar
Gala
Macintosh
Cortland
Liberty
Macoun
Empire
Red Delicious
Jonagold

Additional Information

A limited number of Cornell Starch Charts and Cornell Bulletin 221 "Predicting Harvest Date Windows for Apples" is available from the RCE of Hunterdon County Extension office at 908-788-1338 or e-mail Pat Davino pdavino@co.hunterdon.nj.us.

September 2 Fruit Maturity Samples –Please note which fruit samples tested below that were treated with Retain.

Retain will delay fruit maturity one week or longer and increase flesh pressure.

All fruit samples were collected and tested on Sunday, September 2, 2001

Warren County-Hackettstown

	Cultivar	Retain	Pressure	Brix	%Starch
JonaMac	-	No	14	9.9	4
Macintosh	Marshal	Yes	16.9	11	4
Macoun	-	Yes	22.7	10.2	1
Macoun	-	No	15.6	9.9	5
Empire	-	Yes	22	10.2	2
Red Delicious	RedChief	Yes	20.5	8	1.5

Hunterdon County-Pittstown

	Cultivar	Retain	Pressure	Brix	%Starch
Gala	Treeco #42	Yes (1/2 Rate)	17.4	10	4.3
Empire	-	No	19.6	7.9	2.4
Red Delicious	RedChief	No	18.1	7.5	2

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