

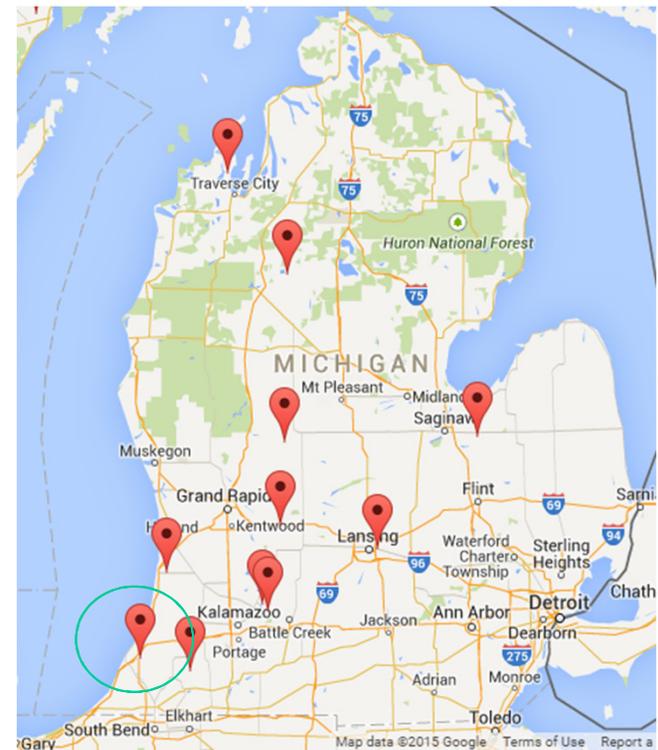


# Peach Variety Options for the Fresh Market

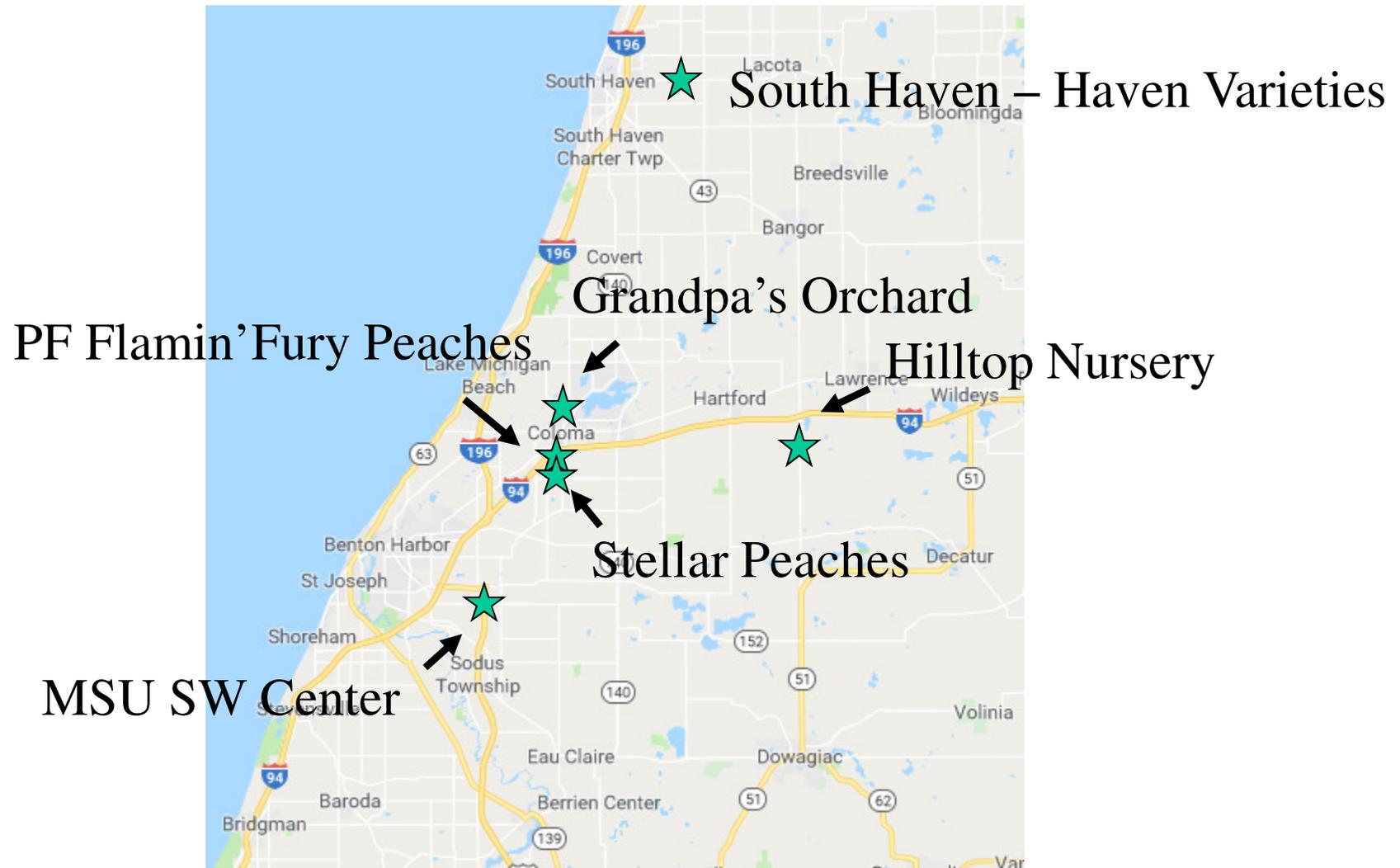
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## SW Michigan Research & Extension Center



# SW Michigan Tree Fruit Nurseries and Breeding Programs



Looking through thousands of seedlings to find the perfect peach





## Choosing the right variety is critical but the decision is often difficult

- Large number of available varieties
- Many new varieties appearing, often with only scanty information available
- Performance of variety can be affected by nursery tree quality, culture practices, local environmental conditions



# The perfect peach variety

- Good yield
- Good fruit size
- Disease resistance
- Fruit firmness
- Attractive, nice red coloration
- Slow browning flesh
- Nearly round
- Sweet / acid balance
- Good shelf life
- Easy to peel
- Low fuzziness
- Fruit hangs well
- Few picks
- Tree hardiness





## Within the commercial peach and nectarine there is a wide array of fruit types

- White, red, yellow, green flesh
- Nectarine, peach, low fuzz
- Flat, round, squat, oblong, beaked
- Sweet / acid balance, high acid, sub acid, low acid.
- Textures: melting, non-melting, stony hard, rubbery, coarse, fine,
- Storage characteristic: quick softening, mealy, non-mealy



## Watching for key characteristics in new varieties

Red coloration “Medium red” varieties may have insufficient color in thicker canopies



Uniform fruit Usually means fewer picks, sometimes less split pits



Hangs well Good shelf life, holds flavor under difficult growing conditions, maybe unusual firmness. Some of these may have mealy tendency if picked too late and / or stored improperly



*Peen Tao – doughnut peaches –  
flat*



## *Peen Tao – doughnut peaches – flat*

Galaxy (-10)\* 90% red pink blush, white flesh, large, sweet, low acid, moderately bacterial spot susceptible, significant split pits, medium hardy

BuenOs (-7) 80% red skin, melting yellow flesh, semi-cling, sweet, mild flavor, tree not winter hardy (NJF18)

★ Saturn (-5) White flesh, very sweet, very productive, hardy, good bac spot resistance. Blossom thin because hand thinning fruit is difficult.

BuenO II (-3) 50% red striped, yellow orange flesh, low acid, non-melting, slight clingy, medium to good eating quality (NJF15)

★ Flat Wonderful (-1) 30% red blush, yellow clingstone, spicy, aromatic, good eating quality

TangOs II (+4) Cream slight green skin and flesh, somewhat non-melting texture, medium eating quality some years.

★ TangOs (+7) Orange/yellow skin and flesh, non-melting nice flavor, skin mark tendency (NJF16).

Galactica (+12) Firm white flesh, large fruit, moderate acidity, relatively susceptible to bacterial spot

\* = harvest relative to Red Haven, - = days before, + = after



## *White Peaches – early season*

Spring Snow (-25)\* 90% dark red blush, medium size, nice firmness, sweet sub-acid, productive, moderately susceptible to bacterial spot, clingstone



Sugar May (-10) Dark blush, medium size fruit, very firm, significant bact spot, usually nice flavor, clingstone



PF 8 Ball White (-10) 70% med red blush, good size for early peach, medium firmness, good sweet / acid balance, decent bac spot resistance.



July Rose NJ 354 cv (-7) 95% red, excellent firmness, 2 ¾ to 3” fruit, clingstone, low acid, sweet, decent bacterial spot resistance



Scarlet Rose NJ 355 cv (-4) 100% rich pink red, clingstone, very firm, very slow softening, crunchy, moderate susceptibility to bacterial spot, low acidity, nice flavor, late bloom



\* = harvest relative to Red Haven, - = days before, + = after,

## *White Peaches – mid season*

Southern Pearl (+2) 65% red on white, slight green, medium acid, moderate sweetness, decent size fruit, productive, split pits if light crop

White Lady (+4) 95% red skin, sub-acid, very firm, very nice flavor, many pickings, medium bacterial spot, significant split pits some years, aromatic some years, decent hardness

White Cloud (+4) non-melting, cling, standard acidity, very firm, good bac spot resistance, 950 chill hour, early evaluation, Univ Ark,

White Knight (V92131) (+7) 80% ruby red on white rose, melting flesh, clingy, chewy texture, subacid, early evaluation, new from Ontario

Klondike (+10) 90% dark pink red, large to very large, semi freestone, sub acid, sweet, very firm, crunchy, medium hardy, some bact spot problems

 Blushingstar (+12) freestone, medium sweet with noticeable acidity, nice firmness and shelf life, productive, moderate to good resistance to bacterial spot

\* = harvest relative to Red Haven, - = days before, + = after,

## *White Peaches – later season*

White Country (+14), low acid, very firm, good bac spot resistance, Univ Ark

Sugar Giant (+23) freestone, large, attractive 90%+ red / pink color, nice firmness, medium sweetness and acidity, semi-reliable cropper, moderately susceptible to bacterial spot



August Rose (NJ 356) (+25) freestone, 80% med red, low acid, very good firmness, attractive, good bac spot resistance

China Pearl (+28), freestone, regular acidity, sweet, moderate acidity, 50% red/pink on white/slight green back, good bac spot resistance, late bloom, productive, softens quickly, medium size

White Diamond (+32), freestone, low acid, firm, medium large, sweet, Univ Ark, good bac spot resistance, 950 hr chill, early evaluation

\* = harvest relative to Red Haven, - = days before, + = after,

## Yellow Nectarines

- new* Carene (-20)\* some bac spot, nice flavor, 2-2 1/2"
- Easternglo (-14) some bac spot, med size, pretty, decent hardiness
- new* Nectafest (-12) from WV, good bac spot resistance, good color, perhaps, softens on blush, nice quality
- new* Avalon (-10) nice color, some bac spot on leaves
- Juneglo (-7) good bac spot, med size, multi-pick
- PF-11 Nectarine (+0) good bac spot and color, tree issues?
- Summer Beaut (+0)
- new* AC Harovin Rouge (+12)
- Redgold (+18)
- Fantasia (+31)



Carene

Photo credit Starfruit



Nectafest

Photo credit Adams Co Nursery



Avalon

Photo credit Rutgers University



PF11 Nectarine

\* = harvest relative to Red Haven, - = days before, + = after,

## White Nectarines

Jade (Momee) (-20), attractive, bac spot sus, low acidity



Arctic Star (-16), Arctic Sweet (10), Arctic Glo (10) Arctic Jay (10), Arctic Belle (12), Arctic Gold (22), etc -- In general nice attractive glossy dark red color, signif bact spot, med hardy



Silvergem (-10), bac spot problem leaves, fruit more resistant, pretty, normal acidity, productive, 2 1/2"



Emeraude (Monude) (+5) large, nice flavor, low acidity, retains flavor, bact spot problems on fruit, prone to finish problems, generally productive



Zephyr (Monphir) (+28) nice sweetness, firm, somewhat sub acid, surface blemish prone, signif bac spot some years



# Yellow Melting Peach Variety Options Across the Harvest Season

	Older peach varieties	Newer varieties with significant production	Newest peach varieties
July	Harbinger = -33*	PF-1 = -30	Rich May = -28
	Harrow Diamond = -25	PF-5B = -25 Earlystar = -18	Desiree = -26 ^^ PF-5D Big = -22 ^^ Vee Blush = -20 ^^ PF Early 8 Ball = -17 ^^
	Garnet Beauty = -10 Early Red Haven = -10 GaLa = -8 Sentry = -8	Glenglo = -13 Brightstar = -12 Summer Serenade = -10 PF 8 Ball = -10 Rising Star = -8	PF Late 8 Ball = -5 ^^
	Redhaven = 0 Reliance = 0 Vivid = +2 Bellaire = +3 PF-12A = +3 John Boy = +3	PF 15A = +2 Blazing Star = +2 Starfire = +3 Redstar = +3 PF 14 New Jersey = +4	PF 9A-007 = -2 Evelyn = -1 LA PF Lucky 13 = +6 ^
August	Glohaven = +8 Canadian Harmony = +10 Loring = +12 Suncrest = +12	Blaze Prince = +8 PF 17 = +12 Bounty = +12	PF Super Duper = +8^^ John Boy II = +8 ^
	Contender = +18	Allstar = +16 Coralstar = +16 Beaumont = +19	PF 19-007 = +14 Messina = +17 ^^ SweetStar = +18 ^
	Cresthaven = +24 Redskin = +26	PF 23 = +20 PF 24-007 = +22 Glowingstar = +22 PF 24C Cold Hardy = +24 PF 25 = +26	Virtue = +20? ^^ PF 22-007 = +20 ^^ July Prince = +24 ^^ PF Paramount = +24 ^^ Gloria = +26 ^^ LA
	Madison = +28 Harcrest = +28 Fayette = +28 Encore = +31	PF 27A = +30 PF 28-007 = +32 Autumn Star = +37 PF 35-007 Fat Lady = +40 ^ Lauro = +41 PF Big George = +50 ^	Sellena = +29 Tiana = +35 Flame Prince = +38 ^^ PF Legendary = +41 ^^ Victoria = +47 ^^ PF Fashionably Late = +54 ^^
September			

\* = estimated harvest days before (-) or after Red Haven. ^ = little experience, ^^ = very little experience to date. Cooler year will delay harvest dates, LA = low acid type

# Early Season Peaches

+poor, ++fair, +++good, ++++excellent

Variety	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
Harrow Diamond	40 – 60%	+++	++++	+++	Hardy, medium firm, good flavor, semi-freestone
Desiree	70%	++++	++++	++	Good flavor & size, crunchy, moderately fuzzy, some splits, some reports low cropping
PF-5D Big	90% med dark	++++	+++	+++	Very little fuzz, fine texture
Vee Blush	80%	+++	Probably good	?	Uniform fruit, attractive, tests good bac spot fruit resistance, early evaluation
Earlystar	80% med	+++	+++	+++	Hardy, uniform fruit, needs good light exposure for good red color, semi-freestone, medium flavor
PF Early 8 Ball	70% med	+++	++	++++	Low fuzz, retains flavor



-25

Harrow Diamond



-26

Desiree



-22

PF-5D Big



-20

Vee Blush



-18

Earlystar



-17

PF Early 8 Ball

# Garnet Beauty Season

Variety	Harvest rel to RH	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
Glenglo	-13	80%	++++	+++++	+++	Loring sport, low fuzz, tree med hardy?, nice flavor
PF-8 Ball	-10	80%	+++	+++	++++	Garnet Beauty like suture & quality, productive
Garnet Beauty	-10	50%	+++	+++	++++	Medium attractive, productive, okay quality
Summer Serenade	-10	60%	+++	+++	++++	Garnet Beauty sport, productive, okay quality
GaLa	-6	70%	+++	++	+++	Can be fruit bud tender
PF Late 8 Ball	-5	80%	+++	?	?	Early evaluation

*Others: Sweet Scarlet -11, Blazeprince -5 ... too cold tender*



Glenglo



PF-8  
Ball



Garnet  
Beauty



Summer  
Serenade



GaLa

# Redhaven season

\* = harvest relative to Red Haven, - = days before, + = after,

Variety	Harvest rel to RH*	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
						<i>New: Evelyn -1 low acid</i>
PF9A-007	-2	70%	++++	++++	+++	Essentially freestone, fruit needs good exposure to color
Redhaven	0	60%	+++	+++	++	Hardy, good flavor, multi-pick, splits, med color
Blazing Star	+2	60 to 95%	+++	+++	+++	Less stable coloring than Starfire
Starfire	+3	60 to 90%	+++	+++	+++	Uniform size, need early thinning, productive, reliable, okay flavor
PF 14 New Jersey	+4	65%	+++	+++	+++	Better coloring than Redhaven, maybe slightly more bud tender
PF Lucky 13	+5	70%	+++	+++	++++	crunchy, good flavor, some drop, multi-pick
John Boy	+5	65%	+++	++++	+++	Nice texture, attractive, decent hardiness



PF9A-007



Redhaven



Starfire



PF 14 NJ



PF Lucky 13



## Evelyn™ (NJ357)



- From Rutgers
- Ripens with or slightly before Redhaven
- Semi to freestone
- 80%+ red color, colors early
- Large uniform size;
- Very firm yellow flesh, hangs well, need to let it hang
- Sweet low acid
- Productive, few picking
- Good bacterial spot resistance
- Little or no splits, low fuzz

# Mid season fresh market peaches

Variety	Harvest rel to RH	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
Coralstar	+12	55%	+++++	+++	+++	Good flavor, decent shelf life, fuzzy some years, needs more color some years, can be too large
PF 17	+12	60%	++++	+++	++++	Productive, firm, nice quality, some drop
Sweetstar	+18	80%	+++++	+++	++++	Durable tree, fruit hangs well, productive

\* = harvest relative to Red Haven, - = days before, + = after, ^ = early evaluation, ^^ = very early evaluation

*Others: July Prince +13*

John Boy II +8  
 Blaze Prince +8  
 Glohaven +8  
 Bounty +10  
 Canadian Harmony +10  
 Loring +12  
 Suncrest +12



+12

Coralstar



+12

PF 17



+18

Sweetstar

# Mid to late season fresh market peaches

Variety	Harvest rel to RH	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
PF19-007	16	80%	++++	+++	+++	Attractive dark red, good flavor
Messina	17	85%	+++++	++++	++++	Medium red, nice quality, low fuzz, fruit has good bs resist, leaves more susceptible, medium hardy fruit buds?
Beaumont	18	70%	++++	+++	++++	Uniform fruit, firm, generally productive, good shelf life
Allstar	18	80%	++++	++++	++++	Productive, uniform shape, softens on shoulder
PF 23	20	80%	++++	+++	++++	Attractive, firm, hangs well, stores well, generally productive

Contender +18



+16

PF 19-007



+17

Messina



+18

Beaumont



+18

Allstar



+20

PF 23

# Later season fresh market peaches

Variety	Harvest rel to RH	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
Glowingstar	+22	70%	++++	++++	++++	Dark skin, productive, some irregular fruit, range of fruit sizes, low vigor tree
PF24C Cold Hardy	+24	80%	++++	+++	++++	Dark skin, productive, retains flavor, tough tree, average fruit bud hardiness
PF Paramount	+24	80%	++++	?	?	Firm, early evaluation
Gloria	+26	70%	++++	+++	++++	Stony hard, long storage, pale yellow flesh, fruit hard to peel, sub acid, sharp pit

\* = harvest relative to Red Haven, - = days before, + = after,

Cresthaven +18  
Virture +20  
PF25 +26  
Redskin +26



+22

Glowingstar



+24

PF24 Cold Hardy



+24

PF Paramount



+26

Gloria



## Gloria (NJ-351) +19 RH



- From Rutgers
- 60-90% medium red on yellow back
- pale yellow flesh, slightly juicy
- stony hard, sub acid
- long storage
- fruit hard to peel
- Freestone, sharp pit
- 2 <sup>3</sup>/<sub>4</sub> inches
- slight beak some years
- Fruit relatively resistant to bact spot, leaves are more suseptible

# Late season fresh market peaches

Variety	Harvest rel to RH	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
Selena	+29	70%	+++	+++?	?	Good quality, good firmness, productive, early evaluation
PF27A	+30	70%	+++	++	+++	Low fuzz, nice texture & flavor, sometimes slight beak
PF28-007	+32	60%	++++	+++	+++	Uniform, nice texture & flavor, low fuzz, slight beak some years
Tianna	+34	80%	++++	++++	++++	Colors well for late peach, extra firm, very large fruit

Harcrest +28  
 Fayette +28  
 Encore +31  
 Laurol +41  
 PF Legendary +41  
 PF Big George +50  
 PF Fashionably Late +54



+30 RH  
PF27A



+32 RH  
PF28-007



# Tianna™ +35 RH



- From Rutgers
- 50-75% red, good for late peach
- 2 ¾ - 3 Very large;
- Firm
- Nice sweet / acid flavor;
- Good bacterial spot resistance
- Productive.

# Late season fresh market peaches

Variety	Harvest rel to RH	Red skin	Fruit size	Bac spot resist	Free of splits	Notes
Autumn Star	+37	85%	+++++	++	+++++	Stores well, firm fruit, medium winter hardy tree
PF35-007	+40	70%	+++++	+++	+++	Firm, fine texture flesh, yellow / orange background, hangs well
Victoria	+47	40%	+++	+++	+++	Hangs well, productive, nice slightly cling-like flavor

*Other: Flame Prince +42*

Harcrest +28  
 Fayette +28  
 Encore +31  
 Laurol +41  
 PF Legendary +41  
 PF Big George +50  
 PF Fashionably Late +54



+37 RH  
Autumn Star



+40 RH  
PF35-007



+47 RH  
Victoria

Search for new and better varieties goes on..



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