Peaches and Other Stone Fruit

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What are Stone Fruits

- Peaches
- Nectarines
- Apricots
- Plums
- Pluots and Apriums
- Cherries
Peaches & Nectarines

- Freestone
- Cling
- Yellow
- White
- Yellow Nectarines
- White Nectarines
- Subacid vs standard
- Pillar vs standard
- Peento types
The Peach Fruit

Drupe (fleshy fruit with a stony endocarp)
Freestone, Semi-Freestone, and Cling

Freestone

Semi-Freestone

Cling
Yellow and White Peaches and Nectarines
Sub-acid Peaches

Valley Sweet (+29) PP#10387
A late season sub-acid yellow-fleshed peach. Valley Sweet is another very new introduction and is offered for the first time to eastern growers. If you are interested in sub-acid varieties, we recommend you try Valley Sweet as well as Sweet Dream and Sweet Scarlet.
Standard Tree

Pillar Type
Peento or Doughnut Peach

Saturn

NJF 15

NJF 16

NJF 17
Peach Seasons

- Very Early – Late June to early July
- Early – Week 2 and 3 in July
- Main Season – Late July through August
- Late – Early September
- Very Late – Mid to Late September

Redhaven – Main season standard
Varieties

- Season sequence
- Season extension
- Quality factors
  - Taste, Texture
- Firmness
- Disease resistance
  - Bacterial spot
- End use
- Specialty types
- Nursery sources
- Recommended varieties
Very Early Peach Varieties

- **Y** PF 1 Flamin’ Fury (-30) 6/20
- **Y** Spring Flame (-27)
- **Y** Queencrest (-27)
- **Y** Desiree (-23) 6/26
- **Y** PF 5B Flamin’ Fury (-22)
- **Y** Harrow Diamond (-22)
- **Y** Candor (-20) 7/4
- **Y** Sunbrite (-20)
- **Y** Empress (-20)
- **Y** Earlystar (-18)
- **W** Spring Snow (-21) 6/27
- **W** Scarlet Pearl (-18)
Very Early

PF5b

Spring Snow

Sunbrite
Early Peach Varieties

- Y Sentry (-14) 7/7
- Y Garnet Beauty (-12) 7/10
- Y PF 7 Flamin' Fury (-12)
- Y Glenglo (-9)
- Y Summer Serenade (-9)
- Y Sweet Scarlet (-8)
- Y Brittany Lane (-6)
- Y Flavorcrest (-4)
- Y Gala (-4)
- Y Reliance (-3)
- Y Redstar (-2) 7/20
- W Sugar May (-16)
- W Erly Red Fre (-16) 7/8
- W Snow Prince (-11)
- W Manon (-8)
- W Snow Brite (-5)
Early

Glenglo

Gala

Sugar May
Main season I
Redhaven Period

- **Y** Redhaven (0) 7/20
- **Y** Blazingstar (+1)
- **Y** Starfire (+1) 7/20
- **Y** Early Loring (+4)
- **Y** Salem (+4)
- **Y** John Boy (+5)
- **Y** Bellaire (+7) 7/28
- **Y** Carogem (+7)
- **Y** Coralstar (+7) 8/1
- **Y** Country Sweet (+7)
- **Y** PF 15A Flamin' Fury (+8) 7/20
- **Y** PF 14 Jersey Flamin' Fury (+8)
- **Y** John Boy II (+8)
- **Y** Ernie's Choice NJ 275 (+10)
- **W** White Lady (+4) PP#5821
- **W** Snow Bride (+6) PP#9882
- **W** Raritan Rose* (+6)
- **W** Sugar Lady (+8)
- **W** Galaxy (+8)
- **W** Klondike White (+12)
Main season I
Redhaven Period

Salem

John Boy

Klondike White

White Lady
Main season II Peaches

- Y PF 17 Flaming Fury (+12)
- Y Crimson Rocket (+12)
- Y Sunhigh (+15)
- Y Beekman (+15)
- Y Sweet Blaze (+16)
- Y Glohaven (+17) 7/30
- Y Coralstar (+19) 8/1
- Y Allstar (+20) 8/10
- Y Contender (+20)
- Y Bounty (+20) 8/5
- Y Sweet-n-up (+21)
- Y Loring (+22) 8/10
- Y PF 20-007 Flaming Fury (+22)
- Y Canadian Harmony (+22)
- Y PF 23 Flaming Fury (+23) 8/7
- Y Harrow Beauty (+23) 8/3
- Y PF 24-007 Flaming Fury (+24) 8/8
- Y Madison (+24)
- W NJ 252 (+20)
- W Sugar Giant (+22)
- W Carolina Belle (+22)
Main Season II

Contender

Loring

Sugar Giant

Bounty
Main season III Peaches

- Y Gloria (+25)
- Y Suncrest (+25)
- Y Summer Breeze (+25)
- Y Sweet Dream (+25)
- Y Glowingstar (+27) 8/11
- Y Cresthaven (+27) 8/15
- Y Messina (+28)
- Y Redskin (+28) 8/20
- Y Jerseyglo (+28)
- Y PF25 Flaming Fury (+28) 8/23
- Y Jerseyqueen (+30)
- Y PF24B Flaming Fury (+30)
- Y PF27A Flaming Fury (+30) 8/28
- Y Fayette (+30) 8/22
- W Blushingstar (+25) 8/12
- W Glacier White (+26)
- W Lady Nancy (+29)
Late Peaches

- **Y** Autumnglo (+33)
- **Y** Autumnstar (+33)
- **Y** Encore (+33) 8/29
- **Y** Laurol (+38)
- **Y** Ouachita Gold (+40)
- **Y** Victoria (+46)
- **Y** Parade (+53) 9/15
- **Y** Big Red (+56)
- **Y** Flameprince (+67)
- **W** Snow King (+35)
- **W** Snow Giant (+43)
- **W** Yukon King (+46)
- **W** September Snow (+56)
Late

Flameprince
Nectarines

- **Yellow Fleshed Nectarines**
  - Easternglo - July 11
  - Honeyblaze - July 13
  - Summer Beaut – July 27
  - Sunglo - August 4
  - Flavortop - August 4
  - Redgold - August 11
  - Fantasia - August 19
  - Honey Royale – August 25

- **White Fleshed Nectarines**
  - Arctic Star – July 6
  - Arctic Glo - July 13
  - Jade - July 18
  - Arctic Sweet - July 20
  - Arctic Jay - August 4
  - Arctic Pride – August 19
  - Zephyr – August 24
Peento or Doughnut Peach

Saturn
7/28

NJF15
7/22

Galaxy
8/5

NJF 16
7/28

NJF 17
8/12
Cling Peaches

- For Canning
- Varieties
  - Vulcan (7/20)
  - Vinegold (7/25)
  - Virgil (7/28)
  - Goldnine (8/7)
  - Catherina (8/10)
  - Gold Jim (8/12)
  - Venture (8/15)
  - Babygold #5 (8/15)
  - Babygold #7 (8/23)
Cling Peaches

BABY GOLD 5

Vinegold

Goldnine
Pillar Peaches

Crimson Rocket (8/2)  
Sweet-n-up (8/14)
Plums

- European and Japanese types
- Many require cross pollination
- With variety selection can harvest similar period to peaches
- Similar culture to peaches but are pruned differently
Plum Types
Japanese Plum Varieties

- Early (July)
  - Au Amber
  - Early Golden
  - Methley
  - Shiro
  - Au Rosa
  - Santa Rosa

- Mid Season (August)
  - Black Amber
  - Satsuma
  - Vanier
  - Queen Rosa
  - Fortune
  - Black Ruby
  - Red Ace
  - Redheart
  - Ozark Premier
  - Formosa

- Late (September)
  - Elephant Heart
  - Ruby Queen
  - Friar
  - South Dakota
Japanese Plums

Shiro

Ozark Premier

Vanier
European Plum Varieties

- Earliblue – July 24
- Castleton - August 3
- Mohawk – August 10
- Richards Early Italian – August 15
- Green Gage – August 15
- Stanley - August 21
- Brooks – August 21
- Valor – August 21
- Long John – August 23
- Victory Plum – August 23
- Bluefre – August 28
- Italian – September 5
- Vision Plum - September 2
- President - September 12
European Plums

Brooks

Castleton

Long John

Green Gage
Cherries

- Sweet and Tart types
- Condensed season – June/July
- Excellent u-pick crop with dwarf systems
- Somewhat different pest profiles than other stone fruits
- Sweet require a pollinizer variety commonly, tart do not
- Limited maintenance requirements
- Birds
Cherry Types
Dwarf Cherry System

- Industry moving to high density dwarf plantings
- Reduced labor, pick from ground
- Work done in protected culture in high tunnels
**Sweet Cherry Varieties**

- Summit
- Kristin
- Ulster
- Black Gold
- Schmidt's Bigarreau
- Lapins
- Hedelfingen
- Sweetheart
- Hudson
- Regina
- Cavalier
- Chelan
- Index
- Sam
- Benton
- Glacier
- Nelson
- Skeena
- Attika
- Whitegold (light)
- Stardust (light)
- **Emperor Francis (yellow)**
- Gold (yellow)
Sour Cherry Varieties

- Jubileum
- Danube
- Montmorency
- Surefire
- Balaton
- Northstar

Balaton

Danube
Apricots

- Very susceptible to frost damage – crop is often lost due to early bloom
- Use Canadian varieties
- Similar culture to peaches but are pruned differently
Pluots, Plumcots & Apriums

Pluot 75% plum
Plumcot 50% each
Aprium 75% apricot
Peach Planting Systems

- Standard
  - 20 x 20, 24 x 18, 20 x 18, 18 x 18, 20 x 14
- Medium density
  - 20 x 12, 18 x 12
- High density
  - V or Y system
    - 2 scaffold 6 x 18
    - 4 scaffold 9 x 18
- Pillar varieties
  - 6 x 16
Site Selection

- Air drainage
- Soil drainage
- Soil diseases
Planting

- Fall planting
- Spring planting
- Store cold or plant promptly
- Size hole to spread roots
- Plant at nursery depth
- Modify compact soils
- Wet roots
- Firm soil – no air pockets
Soil Fertility

- pH 6.0-6.5
- P and K add if below optimum according to soil test
- Best to adjust before establishment
- N - .15, .30, .45, 1.0 lbs per tree
  - First 4 years
Pruning

- Initial shape
- This year’s growth, next year’s fruit in peach, spurs on old wood in others

- Maintenance
  - Upright growth
  - Suckers, water sprouts
  - Dead or diseased
  - Crossing branches

- Thinning
- Light penetration
- Maintaining shape
- Plant height
Goal for Standard Peach Training – Open Center, Horizontal Branches
Thinning

- Critical for fruit size in peaches and nectarines
- 800 fruits per tree
- Blossom thinning
- Hand thinning at 45 days after bloom (quarter or less in size)
- > 4” between, 6” average
Weed Management

- Clear strip 3’+ from trunk
- Herbicides
- Non-chemical
- Alley mowing
Disease Management

- Scab
- Brown Rot
- Bacterial Spot
- Leaf Curl
- Leaf Spots
- Blossom Blight, Botrytis
- Powdery mildew/Rusty spot
- Canker
- Black Knot (plums)
- Fungicide selection
- Fungicide schedule
Insect Management

- Sucking – stink bug, lygus bug
- Plum Curculio
- Fruit Moth
- Borers
- Beetles
- Mites, Aphids, Scales
- Insecticides
- IPM methods
- Timing of controls
Harvest

- Fruit sizes up
- Color change
  - Background color
- Firm vs. Tree Ripe
- Multiple picks necessary
Handling and Storage

• Gentle handling
  – Firm vs tree ripe
• Limited transfers, dropping
• Varietal differences
• Storage = 40°F