

### **UNCE Orchard Fruit Evaluations and Recommendations - 2009**

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Fruit trees were originally planted at the Orchard site beginning in 1997. Fruit trees are grown in 10 X 10 spacings in orchard rows. All trees were planted as bareroot plants and amended with compost at the time of planting. Wood mulch from green waste, provided by Tony Valente of First Choice Tree Service, covers the surface of the orchard to a depth of 4 to 6 inches. Fruit trees are pruned annually to heights of 6 ½ to 7 feet to keep the Orchard "ladderless". Although not a certified organic orchard, pesticides used are "organic" in nature following a "least toxic" philosophy. Orchard volunteers, consisting of both Master Gardeners and community volunteers, provide most of the work at the Orchard. Fruit from the Orchard is sold to local restaurants, farmers markets and the local community to recover the costs of production. After recordkeeping of a variety is completed, trees are removed and replaced with other varieties to gather information on the varieties of fruit that grows best and produces the best fruit in the Mojave Desert.

Evaluations categories are: *Top Choice* for those fruit trees providing exceptional fruit and tree health; *Honorable Mention* for those which provided very good fruit and very good health in our climate and *Under Review* for those which have not been growing long enough for multiple year evaluations or have been inconsistent.

Evaluation trials were conducted from 2005 - 2009. Fruit tree evaluations were made through taste evaluations of the fruit and midsummer evaluations of the trees themselves and their performance at the UNCE Orchard in North Las Vegas, Nevada.

Most of the fruit trees were provided by Dave Wilson Nursery in cooperation with research and demonstrations provided by the University of Nevada Cooperative Extension. More general information about these fruit can be obtained by visiting Dave Wilson Nursery's website at:

<u>http://www.davewilson.com/homegrown/homeindex1.html</u>. Wine grapes were provided by Duarte Nursery and nopal cactus provided by faculty at the Universidad de Sonora in Hermosillo, Mexico.

Much gratitude to Tom Spellman of Dave Wilson Nursery, Maxwell Norton of the University of California and John Arellano of Duarte Nursery who provided much needed assistance in the ongoing management plan of the UNCE Orchard. Others who provided assistance include Rick Hefflebower of Utah State University Cooperative Extension and Rob Call of the University of Arizona.



## Almonds – Most almonds do extremely well in southern Nevada and make excellent landscape trees.

Recommended rootstock: Nemaguard but others have performed adequately over the long term.

Top Choice

- All in One Genetic Dwarf, Self pollinating
- Garden Prince Genetic Dwarf, Self pollinating, flowers white with purple

### Notable Mention

- Price
- Nonpariel

### Under Review

- Carmel
- Neplus Ultra

### Apples – Not all apples do well in southern Nevada and range from "best apple ever tasted" to "tasteless" depending on variety

Recommended dwarfing rootstock: M111; avoid extreme dwarfing rootstocks due to fruit sunburn because of too much fruit exposure.

Top Choice

- Dorsett Golden Early Season, yellow fruit
- Pink Lady (Cripps Pink) Late Season, red over green fruit

### Notable Mention

- Anna Early season
- Einshemer Early season
- Fuji Mid season
- Gordon Mid season
- Mutsu (Crispin) Mid season
- White Winter Pearmain Mid to late season

### Under Review

- Akane
- Arkansas Black
- Asmead Kernel
- Babe (Genetic Dwarf)
- Gala
- Granny Smith
- Red Fuji
- Scarlet Sentinel Columnar
- Yellow Newton Pippen



### Apricot – Most apricots do well in southern Nevada and have wonderful flavor

Recommended rootstock: Nemaguard preferred but others have performed adequately over the long term.

Top Choice

- Blenheim (Royal) early
- Flavor Delight (Aprium; actually a plum apricot hybrid but fruit marketed as an apricot) very early
- Gold Kist very early
- Moorpark early
- Royal Rosa excellent landscape tree, very early

### Notable Mention

- Canadian Blenheim White early
- Chinese early
- Early Golden early
- Flora Gold very early
- Katy excellent landscape tree, very early

### Under Review (Early results are good on all)

- Autumn Glo
- Early Autumn
- Goldcot
- Harcot
- Tomcot

### Aprium – Plum apricot hybrid that does extremely well in our climate

Recommended Rootstock: Nemaguard but others have performed adequately over the long term.

Top Choice

• Flavor Delight – See apricot since the fruit is marketed as an apricot, very early

## Asian Pear – Performs surprisingly well in our climate and we are currently working on increasing the size of the fruit

Recommended Rootstock: OHxF333 but others have performed well Under Review

- Chojuro
- Hosui
- Kikusui
- Shinko

- Shinseiki
- Tsu Li
- Twentieth Century
- Ya Li

### Blackberry – Struggles in this climate and soils but produces acceptable fruit



*Top Choice* None

#### Notable Mention

- Rosborough
- Womack

*Under Review* None

## Cactus, Nopal – For fresh vegetable (nopalitos) and fruit (tuna) and extremely well adapted for this climate

Top Choice

- Copena F1
- Copena V1

Notable Mention None

*Under Review* None

### Cherry, Sour. To be planted in 2010.

Cherry, Sweet – Inconsistent fruit production and not reliable in this climate. Newer, low chill varieties to be planted in 2010. *Top Choice* None

Notable Mention None

Under Review

- Bing
- Black Tartarian
- Craig's Crimson
- Lapins
- Royal Ann

Cherry Plum – Hybrids between cherry plum and Japanese plum

Recommended Rootstock: Nemaguard preferred but others have performed adequately over the long term. *Top Choice* None



Notable Mention None

Under Review

- Delight
- Sprite

### Figs – Most figs do well in this climate.

Top Choice

- Black Mission dark purple skin with strawberry colored flesh
- Janice greenish-yellow (white) skin with light greenish amber flesh with few seeds

Notable Mention

• Kadota

### Under Review

- Brown Turkey
- Celestial
- Flanders
- King (Desert King)
- LSU Purple
- White Genoa

### Grapes, Table – Nearly all table grapes do well in our climate

Top Choice

- Blush
- Fantasy
- Flame
- Notable Mention
  - Harmony
  - Himrod
  - Perlette
  - Thompson Seedless

### Under Review

- Italia
- Princess
- Black Monnuka

Grapes, Wine – Many wine grapes are very productive in our climate but taste evaluations and winemaking is under review.



Recommended Rootstock: own roots, 110R, 1103P but others suitable for the characteristics of desert soils have done well *Top Choice* None

Honorable Mention

- Primitivo
- Summer Muscat
- Zinfandel

### Under Review

- Alicante Bouschet
- Cabernet Franc
- Cabernet Sauvignon
- Chardonnay
- Grenache
- Italia
- Marsanne
- Merlot

- Petite Syrah
- Pinot Noir
- Sangiovese
- Sauvignon Blanc
- Syrah Noir
- Tempranillo
- Viognier

### Jujube – aka Chinese Date or Indian Fig does very well in our climate *Top Choice*

• Li

### Honorable Mention

• Lang

*Under Review* None

### Nectarine – Nectarines do well in our climate but vary in fruit quality and some taste pretty bad.

Recommended Rootstock: Nemaguard but others have performed adequately over the long term.

Top Choice

• Arctic Star

### Honorable Mention

- Arctic Glo
- Arctic Rose
- Desert Dawn
- Desert Delight
- Double Delight



### Under Review

- Arctic Gold
- Garden Delight Miniature
- Goldmine
- Independence
- Liz's Late
- Necta Zee Miniature
- Panamint

### Peach – Peaches do extremely well in our climate and have received praise from internationally recognized chefs.

Recommended Rootstock: Nemaguard but others have performed adequately over the long term.

Top Choice

- Babcock White, mid season
- Eva's Pride Early season
- May Pride Early season
- Mid Pride Mid season
- Starks Saturn Donut peach, white flesh, mid season

### Honorable Mention

- Arctic Supreme white flesh, mid season
- Desert Gold -
- Earlitreat Earliest producer
- Early Amber Early season
- Early Elberta -
- Elberta Mid season
- FlordaPrince Early season
- Red Baron Showy flowers, good landscape tree, mid season
- Red Haven Mid season

### Under Review

- Arctic Jay White
- Carnival
- Double Jewel
- Elegant Lady White
- Fairtime
- Gold Dust
- Harken
- Indian Free
- July Elberta (Kim)
- Nectar White White
- O'Henry Late season
- Rio Oso Gem

- Snow Beauty White
- Snow Giant White
- Snow King White
- Strawberry Free White
- Sugar Lady White
- Summerset
- Sweet Bagel Donut peach, yellow
- Tra Zee Late season
- Tropic Snow -White
- White Heath Cling White
- White Lady White



Peach, Miniature – These are typically peaches which are genetic dwarf and fruit quality is often not as comparable to standard peach trees. *Top Choice* 

• Bonanza – Mid season

Honorable Mention

- El Dorado Mid season
- $\bullet \quad {\rm Pix} \ {\rm Zee} {\rm Mid} \ {\rm season} \\$

### Under Review

- Honey Babe
- Garden Gold
- Garden Sun

#### Pear, European – European pears do quite well in taste but may not have the same visual appeal as commercially grown pears. Most are "dessert" pears and grown for fresh eating.

Recommended Rootstock: Many

Top Choice

• Kieffer – Salad pear, nicknamed "Jicama pear" with flavor resembling an Asian pear, good for canning and baking and virtually pest free

### Honorable Mention

- Bartlett
- Monterrey
- Red Bartlett

#### Under Review

- Bosc
- California
- Comice
- D'Anjou
- Hood

### Persimmon – Fruit is excellent quality but can suffer from sun damage. Trees require some protection from winds, soil amendments and more frequent irrigations.

Top Choice

• Fuyu

### Honorable Mention

• Hachiya but low fruit retention most years



### Under Review

- Chocolate
- Coffeecake
- Giant Fuyu
- Niunai
- Tamopan

### Plum – Plums do well in our climate. The most common fresh plums are Japanese plums.

Recommended Rootstock: Nemaguard but other rootstocks have performed adequately over the long term.

 $Top \ Choice$ 

- Santa Rosa
- Santa Rosa, Weeping landscape tree form of Santa Rosa
- Emerald Beauty

### Honorable Mention

- Beauty
- Burbank
- Burgundy
- Elephant Heart
- French Improved Prune
- Italian Prune Prune

### Under Review

- Catalina
- Green Gage European plum

### Plumcot – Apricot plum hybrid

Under Review Plum Parfait

### Pluot – A very complex hybrid of apricot and plum that has developed a very high sugar level and complex flavors when tree ripened

Recommended Rootstock: Nemaguard but other rootstocks have performed adequately over the long term.

 $Top \ Choice$ 

- Flavor King
- Flavor Queen

### Honorable Mention

• Flavor Supreme

Under Review



- Dapple Dandy
- Flavorosa
- Flavor Delight

- Flavor Finale
- Flavor Grenade
- Geopride

### Pomegranate – Pomegranates do wonderfully in our climate and produce superior fruit.

Top Choice

• Eversweet

#### Honorable Mention

- Sweet
- Wonderful

### Under Review

- Ambrosia
- Grenada
- Sharp Velvet

# Quince – Quince does extremely well in this climate presently with no disease or insect problems but can suffer from iron chlorosis.

Top Choice

• Pineapple

### Under Review

• Orange

#### Contact

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