PLUM AND STONE
FRUIT HYBRIDS

Jerome L “Jerry” Frecon
Professor Emeritus
Rutgers University
PRUNUS DOMESTICA

• THIS PRESENTATION IS NOT ABOUT EUROPEAN PLUMS OR *PRUNUS DOMESTICA* LIKE STANLEY.
EUROPEAN PLUMS FOR NEW JERSEY

• EARLY SEASON EUROPEAN
  – EARLIBLEUE
  – CASTLETON

• MIDSEASON EUROPEAN
  – MOHAWK
  – RICHARDS

• LATE SEASON EUROPEAN
  – ITALIAN
  – BROOKS
  – BLUEBYRD
  – VALOR
  – STANLEY
  – LONG JOHN
  – BLUEFRE
PLUMS SUGGESTED FOR NEW JERSEY

• EARLY SEASON – ORIENTAL HYBRIDS
  – EARLY GOLDEN
  – METHLEY
  – SHIRO
  – BLACK RUBY

• MID SEASON ORIENTAL HYBRIDS
  – SANTA ROSA
  – RED ACE
  – VANIER
  – REDHEART
  – OZARK PREMIER

• LATE SEASON ORIENTAL HYBRIDS
  – SOUTH DAKOTA
  – RUBYQUEEN
  – FORTUNE
• PLUM RESEARCH – THERE IS SO MUCH WE DON’T KNOW PARTICULARLY ABOUT FRUIT SET

• ORIENTAL PLUM HYBRIDS ARE HARD TO GROW NOT ONLY BECAUSE OF CONSISTENTLY POOR FRUIT SET BUT ALSO BECAUSE OF TREE LONGEVITY

• MANY ORIENTAL PLUMS ARE INTERSPECIFIC HYBRIDS SO IT IS DIFFICULT TO MAKE RECOMMENDATIONS ON POLLINATION WITHOUT RESEARCH. TREES ARE ALSO PROPAGATED REGULARLY ON PEACH, MYROBALAN, MARIANNA, *Prunus americana* and *Prunus intuititia* rootstocks both clonal selections and seedlings. Thus there are frequent cases of quick and slow decline related to incompatibility.
ORIENTAL PLUMS CAN BE FRUITFUL
OLDEST BLOCKS WERE FLAVOR DELIGHT, FLAVOR SUPREME, FLAVOR KING, FLAVOR QUEEN, AND FLAVOR RICH.

MOST HAVE BEEN VERY UNPRODUCTIVE, LOTS OF BLOOM FROM EACH OTHER AND WITH ORIENTAL BLOOMS, DON’T SEEM TO SET AT ALL, OR SET AND DROP HEAVILY.

FLAVORICH HAS BEEN THE MOST PRODUCTIVE WITH WEAK FLAVOR AND FLAVOR KING AND FLAVOR QUEEN ARE MUCH BETTER. EVALUATED FLAVOR DELIGHT APRIUM AND FLAVOR SUPREME PLUOTS BUT ONLY HAD TWO FRUIT IN SEVEN YEARS. ALWAYS USED APRICOTS AS POLLINATORS

HAVE MADE NEWER PLANTINGS OF PLUOTS AND APRIUMS WITH MORE PROVISION FOR CROSS POLLINATION WITH THE HOPE OF BETTER PRODUCTION. THERE IS MUCH MORE BLOOM AND SOME YEARS CROPS HAVE BEEN GOOD. UNFORTUNATELY THEY BLOOM FROM VERY EARLY TO EARLY.
SPRING SATIN PLUMCOT

- RIPENING FROM JULY 5-10.
- LIGHT YELLOW TO CLEAR FLESH.
- 90-100% PURPLISH RED OVERCOLOR
- SKIN HAS LIGHT PUBESCENCE
- VERY SWEET WITH VERY GOOD FLAVOR.
- SUSCEPTIBLE TO BACTERIAL SPOT.
- PRODUCES WELL WITH LIMITED POLLINATION BUT IS VERY EARLY BLOOMER
• USDA- BY4OP
• EARLY JULY 14 -20
• MEDIUM VIGOROUS TREE ON PEACH
• HEAVY BLOOMING BUT LIGHT PRODUCTIVITY
• DARK REDDISH BLACK SKIN
• SEMI-JUICY YELLOW FLESH
• VERY GOOD FLAVOR
• GOOD POLLINATOR FOR BLACK RUBY
• POLLINATE WITH METHLEY AND SHIRO
SHIRO

- JULY 12-19 OR 10 DAYS AFTER EARLY GOLDEN
- YELLOW SEMI-CLINGSTONE FLESH.
- SOFT BUT JUICY WITH VERY GOOD FLAVOR
- PARTIALLY SELF-INCOMPATIBLE AND POLLINATED BY, METHLEY, VANIER AND RUBY QUEEN
- LONG LIVED TREE
METHLEY

- JULY 15-22
- RED CLINGSTONE FLESH
- SMALL TO MEDIUM SIZE.
- SELF FERTILE, AND VERY PRODUCTIVE
- LONG-LIVED
- WILL POLLINATE OTHER EARLY BLOOMING VARIETIES OF JAPANESE HYBRID PLUMS
BUBBLEGUM™ (TOKA)

- RIPENING ON JULY 20-26.
- SMALL TO MEDIUM FRUIT SIZE
- FLESH IS SOFT, CLINGSTONE
- YELLOW WITH A GOOD BUT GUMMY TEXTURE
- VERY GOOD FLAVOR
- SELF INCOMPATIBLE AND NEEDS A POLLINATOR OF ONE OF THE OTHER AMERICAN X JAPANESE HYBRIDS
- BLOOMS EARLY, TREES HAVE NOT SET HEAVILY BUT HAVE LIMITED POLLINATORS
FLAVOR GRENADE PLUOT®

- RIPENING AUGUST 10 -18
- FLESH IS FIRM
- LOW ACID WITH EXCELLENT FLAVOR.
- VIGOROUS, LIGHTLY PRODUCTIVE
- VERY EARLY BLOOMING
- SUSCEPTIBLE TO LEAF SPOTTING
- Pollinate with Dapple Dandy, Flavor King or Santa Rosa
COPAROSE PLUOT

- PLUOT RIPENING AUGUST 8-16.
- FLESH IS A FIRM GOLDEN
- SEMI FREESTONE
- FLAVOR THAT IS VERY GOOD.
- REQUIRES A POLLINATOR SUCH AS DAPPLE DANDY
FLAVOR QUEEN PLUOT

- RIPENING FROM AUGUST 17-24.
- FLESH IS FIRM,
- LOW ACID WITH EXCELLENT FLAVOR. MY FAVORITE TASTING
- LIGHT YELLOW-FLESH
- VIGOROUS, LOW PRODUCTIVITY.
- HIGH SUSCEPTIBILITY TO LEAF SPOTTING.
- POLLINATE WITH DAPPLE DANDY OR ORIENTAL PLUM.
- BLOOMS EARLIER
VANIER

- RED FRUIT
- MEDIUM SIZE
- RIPENS AUGUST 15 -23
- UPRIGHT SPREADING
- VIGOROUS AND PRODUCTIVE
- YELLOW- FLESHED
- POLLINATE WITH SHIRO, EARLY GOLDEN AND OZARK PREMIER
- GOOD TO VERY GOOD FLAVOR
FLAVORHEART PLUOT

RIPENING FROM AUGUST 22-SEPTEMBER 1

SEMI FREESTONE

YELLOW FLESH IS FIRM BUT SOFTENS QUICKLY.

EXCELLENT FLAVOR.

FLAVORHEART REQUIRES A POLLINATOR

LIGHT CROP ON YOUNG TREES
SPICE ZEE NECTAPLUM™

- RIPENING FROM AUGUST 15 TO 22.
- FIRM FREESTONE CREAM COLORED FLESH.
- ACIDIC WITH A SPICY SWEET FLAVOR
- BEAUTIFUL ORNAMENTAL TREE
- DARK RED LEAF IN THE SPRING THAT MATURES TO A RICH GREEN-RED IN LATE SUMMER
  SELF-FRUITFUL AND VERY PRODUCTIVE
FLAVOR KING PLUOT

- August 22-30.
- flesh is firm
- Medium large fruit
- juicy, melting sweet and low acid with excellent flavor.
- moderately vigorous, upright,
- lightly productive
- very susceptible to leaf spotting and shot holing
- Pollinate with Dapple Dandy or Santa Rosa.
- Very early blooming
RUBY QUEEN

- Ripening in August 17-23.
- Vigorous, Productive
- Moderate Susceptibility to Bacterial Spot
- Medium to large
- Dark reddish purple skin
- Red-fleshed, firm, high in antioxidants
- Pollinate with another oriental type variety like Vanier, Shiro, and Black Ruby
- Excellent flavor with up to 25% SSC
DAPPLE DANDY PLUOT

AUGUST 24- SEPTEMBER 2

RED FLESH IS MEDIUM FIRM,

JUICY, ACIDIC AND SWEET WITH EXCELLENT FLAVOR

MODERATELY VIGOROUS, SPREADING

HIGH SUSCEPTIBILITY TO BACTERIAL SPOT.

EARLY BLOOMER

POLLINATED BY FLAVOR KING OR SANTA ROSA

CALLED DINASAUR PLUM
FLAVOR RICH PLUOT

• RIPENING ON AUGUST 25 – SEPTEMBER 2
• GREENISH YELLOW-FLESHED
• CLINGSTONE PLUOT
• THE FLESH HAS FAIR FLAVOR BUT STAY SO FIRM IT IS HARD TO DETERMINE MATURITY
• MOST PRODUCTIVE
• EARLY BLOOMER
• POLLINATE WITH DAPPLE DANDY, FLAVOR KING, AND SANTA ROSA
CRIMSON ROYALE PLUOT

• RIPENING AUGUST 24 TO SEPTEMBER 1
• VERY FIRM, SEMI-FREESTONE FLESH
• EXCELLENT QUALITY AND FLAVOR
• VIGOROUS WITH A LIGHT CROP.
• REQUIRES A POLLINATOR BUT MUST BE STUDIED FURTHER IN THE EASTERN UNITED STATES
CANDY STRIPE PLUOT

- RIPENING FROM SEPTEMBER 1-10.
- YELLOW-FLESHED, FREESTONE.
- FIRM,
- AS VERY GOOD ACIDIC FLAVOR.
- REQUIRES A POLLINATOR SUCH AS FLAVORFALL.
- LIGHT CROP
PLUMS FROM USDA IN BYRON

- OF INTEREST BECAUSE THEY ARE COMPLEX INTERSPECIFIC HYBRIDS WITH NATIVE PLUM _Prunus angustifolium_.
- TREES ARE LONG LIVED ON PEACH SEEDLINGS.
- SOME VARIETIES HAVE BEEN VERY PRODUCTIVE.
- SOME HAVE BEEN NAMED WITH GOOD AND PROMISING FRUIT CHARACTERISTICS, GOOD SIZE, EXCELLENT FLAVOR AND LITTLE SHOTHOLING.
Cherry Plum (*Prunus avium* x *Prunus salicina*) x Plum (*Prunus salicina*)

Have not tested them in New Jersey. Seen in Pa test block

**Delight Cherry plum**

**Sprite Cherry plum**

Bothe tend to be very productive in California. Early bloomers
Never had much success with Apriums® as they have bloomed early and mostly never set much fruit. As you can see some of the varieties crack and get bad leaf spot. They have not lived long on either Citation or Prunus persica Lovell seedlings.
Peacotum®
Prunus armeniaca x Prunus salicina x Prunus persica

• Bella Gold sold by Dave Wilson Nursery
USDA BY TEST VARIETIES

USDA BY 91M97

USDA BY 835633

USDA BY 88M1010

USDA BY 93M597