For many years Italy was the top producer of peaches in the world, and is today second only to China. Italian production varies from 1.5-1.7 million metric tons annually, equal to about 40% of European production. Peach is native to China where it is one of the most common fruit species grown, though it has found a second important center of cultivation in the Mediterranean countries. This species is the subject of the most active genetic improvement programs: every year about a hundred new varieties are licensed.

This flourishing innovation has enriched the already numerous categories of peaches (white- and yellow-fleshed peaches, white- and yellow-fleshed nectarines, canning peaches) with new types (sweet or subacid flesh, balanced flesh, acidic flesh, peento peaches and nectarines, peaches and nectarines with red flesh).

A recent development of importance for subtropical areas and countries is the introduction to the market of low-chill (requiring 100-400 chilling hours) varieties of peaches and nectarines, which has expanded the area of peach and nectarine growing to the southern shore of the Mediterranean where fruit can be ready for market starting in mid-April.

There have also been numerous new rootstocks developed, which are gradually substituting GF677 where soil conditions do not suit it (presence of nematodes, root rot due to Armillaria, oxygen-poor soils, control of tree vigour or encouraging earlier ripening for early-season varieties, etc.). Training systems are also evolving, and the best are proving to be the modified vase types such as the delayed open vase and the Catalan vase which decrease the costs of planting and canopy management.

### Relative vigour of peach rootstocks

<table>
<thead>
<tr>
<th>Rootstock</th>
<th>Origin</th>
<th>Vigour</th>
<th>Soil type suitability</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>GF677</td>
<td>P. persica*</td>
<td>high</td>
<td>all soil types, dry soils, high active lime</td>
<td>affinity, vigour, high and consistent yield</td>
<td>suffers from waterlogging, susceptible to Armillaria mellea and Agrobacterium tumefaciens</td>
</tr>
<tr>
<td>Cadaman® Avimag*</td>
<td>P. persica*</td>
<td>high</td>
<td>all soil types</td>
<td>affinity, vigour, high and consistent yield</td>
<td>few suckers, slow sprouting</td>
</tr>
<tr>
<td>Rootpac®-R</td>
<td>P. cerasifera* P. dulcis</td>
<td>high</td>
<td>ideal for replantings and for anoxic and clay soils</td>
<td>productivity, early bearing, fruit size</td>
<td></td>
</tr>
<tr>
<td>Rootpac®-90 Greenpac</td>
<td>(P. persica* P. davidiana)* (P. dulcis* P. persica)</td>
<td>high</td>
<td>all soil types, also in replanted orchards</td>
<td>yield, fruit size, tolerates chlorosis resistant to chlorosis and root-knot nematodes</td>
<td>suffers from waterlogging</td>
</tr>
<tr>
<td>Garnem®</td>
<td>P. amygdalus*P. persica</td>
<td>high</td>
<td>all soil types</td>
<td>productivity, early bearing, fruit size</td>
<td>only for varieties with med-low vigour; tolerates waterlogging better than GF677</td>
</tr>
<tr>
<td>Montclar® Chanturgue*</td>
<td>peach seedling</td>
<td>high</td>
<td>poor soils</td>
<td>affinity, vigour</td>
<td>only for varieties with med-low vigour</td>
</tr>
<tr>
<td>Adesoto® 101 Puebla*</td>
<td>selection of Pissilia</td>
<td>medium (-20% GF677)</td>
<td>replanted orchards</td>
<td>tolerates A. mellea</td>
<td>low vigour in early years</td>
</tr>
<tr>
<td>Rootpac®-70 Redpac</td>
<td>(P. persica* P. davidiana)* (P. dulcis* P. persica)</td>
<td>medium (-20% GF677)</td>
<td>all soil types</td>
<td>yield, fruit size, earlier harvest date; (3-7 earlier than GF677) tolerates nematodes</td>
<td>susceptible to Agrobacterium tumefaciens</td>
</tr>
<tr>
<td>Rootpac®-40 Nanopac</td>
<td>(P. dulcis* P. persica)</td>
<td>medium-low (-25-30% GF677)</td>
<td>all soil types</td>
<td>yield, fruit size, earlier harvest date (3-7 earlier than GF677)</td>
<td>susceptible to Agrobacterium tumefaciens</td>
</tr>
<tr>
<td>Ishtara® Ferciana*</td>
<td>(P. cerasifera* P. salicina)* (P. cerasifera* P. persica)</td>
<td>medium-low (-30% GF677)</td>
<td>moist fertile soils</td>
<td>earliness, size and colour of fruit</td>
<td>sensitive to high active lime; does not tolerate intense winter cold</td>
</tr>
</tbody>
</table>
CLIMATE

The Mediterranean climate is ideal for peach, especially now that the availability of low-chill varieties has expanded the zone of peach cultivation further south. The northern boundaries of peach cultivation are set by winter low temperatures, which cannot be lower than -12/-15°C. As many of the modern medium-low-chill varieties lose their leaves later and break dormancy earlier, thus being more prone to damage from early fall frosts and late spring frosts, this limit has tended to increase.

SOIL

As with many other species, the availability of a wide range of rootstocks allows peach cultivation in all soil types by choosing the best-suited stock: medium-textured soils tending towards loose with active lime below 4-5% (seedling, Ishtara, peach x P. davidiana hybrids), medium-textured tending towards loose, active lime (peach x almond hybrids), clay, oxygen-poor (plums).

ROOTSTOCKS

The availability of rootstocks for peach has increased notably in recent years, with the goal of achieving better adaptability to diverse soil types and to combat the difficulties encountered with frequent replantings in specialized fruit-growing areas. GF677 is still the most common rootstock, contributing high vigour and high and consistent yield; it is suitable for all soil types, permitting peach to be grown in poor, drought-prone, lime-rich soils (<13%), but it suffers from waterlogging and is susceptible to Armillaria mellea and root knot nematodes. For medium-high density orchards, Ishtara® Ferciana® and Adesoto® 101 Puebla® are recommended. Ishtara® Ferciana® significantly reduces tree vigour (~30% relative to GF677), and causes early entrance into production as well as early ripening (from 4 to 7 days relative to GF677). The fruit have improved flavour, colouring, and size; for these reasons Ishtara® Ferciana® is suited to high-density orchards, grafting on varieties with high vigour. It is suited to moist, fertile soils, and suffers from drought and high active lime, and is moderately susceptible to A. mellea.
In situations when peach has been planted after peach for numerous cycles, and when tree mortality is high due to soil pathogens, the medium-low vigour Spanish rootstock Adesoto® 101 Puebla® is recommended. It resists A. mellea and for this motive is preferable to GF677. It has good graft affinity and good vegetative activity, and induces early ripening, as well as being suitable for frequent replantings. Adesoto® 101 Puebla® is recommended for medium-high density orchards with fertigation lines; it does tend to produce root suckers.
In virgin soils, the seedling rootstock Montclar® Chanturgue® is recommended. It is very common in France and also in areas

Vigour of peach rootstocks

<table>
<thead>
<tr>
<th>Rootstock</th>
<th>Vigour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ishtara® Ferciana®</td>
<td>65</td>
</tr>
<tr>
<td>ADEsoto® 101 Puebla®</td>
<td>65</td>
</tr>
<tr>
<td>ROOTPAC®-40</td>
<td>65</td>
</tr>
<tr>
<td>ROOTPAC®-70</td>
<td>80</td>
</tr>
<tr>
<td>Montclar® Chanturgue®</td>
<td>90</td>
</tr>
<tr>
<td>GF677</td>
<td>100</td>
</tr>
<tr>
<td>Cadaman® Avimag®</td>
<td>100</td>
</tr>
<tr>
<td>ROOTPAC®-90</td>
<td>100</td>
</tr>
<tr>
<td>ROOTPAC®-R Garmem®</td>
<td>100</td>
</tr>
<tr>
<td>Garnem®</td>
<td>105</td>
</tr>
</tbody>
</table>
of northern Italy (Piemonte) and southern Italy (Puglia), and induces good vigour. This rootstock is among the seedling stocks most tolerant of active lime (5-6%) in the soil.

Another vigorous rootstock is Cadaman® Avimag® (peach x P. davidiana hybrid), of French origin. It is well-suited to Italian soil conditions and to replanting, and is characterized by high and consistent yield and good fruit size. It is of medium susceptibility to A. mellea and has some suckering.

Garnem®, (hybrid of Nemared peach x almond), with red leaves, induces a level of tree vigour similar to or slightly greater than GF677. Tolerance of ferric chlorosis, and resistance to nematodes of the genus Meloidogyne are among its positive and desirable characteristics; Garnem® is suited to areas with frequent waterlogging.

The Rootpac® series is a novelty, with good affinity with all cultivars and different levels of vigour. Rootpac®-40 Nanopac, peach x almond hybrid, reduces vigour by 25-30% compared to GF677 and has notable tolerance to root asphyxia and nematodes. Yield is high and fruit ripens 3-7 days earlier than GF677. Fruit size is positively influenced by this rootstock. Rootpac®-70 Redpac, a red-leaved peach x almond hybrid, is of medium vigour (-20% relative to GF677). It is resistant to nematodes, encourages high and consistent yield, and fruit ripens 3-5 days earlier than GF677. Fruit size and colour are positively influenced by this rootstock. Rootpac®-90 Greenpac is a peach x almond-peach hybrid characterized by high vigour (similar to GF677) and high and consistent yield. It tolerates chlorosis, but is as sensitive to root asphyxia as GF677.

**TRAINING SYSTEMS**

Peach can be grown either with the traditional open canopy structure or trained to “wall” forms; the plasticity of this species allows varied training systems to be used.

The most common open forms are the delayed vase and the Catalan vase. The wall forms are divided in vertical types (palmette, slender spindle, super spindle) and inclined types (trellised Y, V). The vertical wall types are suited to the most fertile valley and foothill areas with late spring cold.

In all training systems, “a tutta cima”, or “intact tip”, pruning techniques are used to accelerate bearing: leaving the dominant apex intact during dormant pruning, and using summer pruning to encourage the development of branches that will become the tree’s scaffolds when mature.

The quality of nursery stock is of utmost importance: it should have side branches between 50 cm and 100 cm from the ground with a developed root system. At planting, the young tree should be left intact or pruned, depending on tree quality and what training system is chosen.

**DELAYED VASE**

- Young trees that are not topped and do have good lateral branches are planted at 5-5.5m x 3-4m spacing. When the tree is too vigorous or of bad quality, it may be desirable to cut it back to 10-15 cm above the graft to encourage a new replacement shoot to grow. Trees with dormant buds can be used for this training system.

- Pruning in the first two years is reduced to nearly zero, with the exception of the removing branches on the lowest 40-50 cm of the trunk. Leaving the central axis for the first two or three years favours the
formation of lateral branches with open branch angles without having to use spacers or wires, making early pruning much easier.

● In the second leaf good production is already obtained, which may be up to 5-7 t/ha in the best case scenario, depending on cultivar, quality of nursery stock, soil type and orchard management. In the third leaf full production can be reached.

● In the third leaf, summer pruning after harvest removes the central axis at 70-90cm above the ground, leaving 4-5 permanent scaffolds. If the lengths of these branches are beyond the reach of ground-level orchard management (2.5 – 2.7 m), renewal cuts may shorten them.

The delayed vase is of particular use in unfertile soils or where controlled deficit irrigation is used and with rootstocks that are not vigorous.

**CATALAN VASE**

The Catalan vase is based on repeated green pruning in the formative phase to limit the dimensions of the tree, which stays under 2.4-2.5 m high.

Young trees are planted at 4.5-5 x 2.5-3 m spacing and topped at 50-60 cm high. Three shoots are left to grow, which when they have reached a length of 50 cm are pruned back to 30 cm. When the new shoots have developed from these pruned shoots have reached 50 cm, they in turn are pruned back to 30 cm. This is repeated until the maximum tree height is reached: 2.4-2.5 m.

The permanent structure of the Catalan vase is thus built of 6-8 branches, well-opened without requiring bending or tying.

One variant uses thinning of these primary branches at the end of the first year to reduce scaffold number to 4-5.

The maintenance of tree height occurs in summer, from mid-July onwards, by hand or mechanically, eliminating all growth that exceeds the desired height.

**PALMETTE**

Concerning this training system, the pre-formed palmette will be described. This system allows early formation of the tree structure using lateral branches formed in the nursery. The main axis is not topped during summer pruning nor during dormant pruning to encourage the formation of lateral branches, unless there aren’t sufficient lateral branches present. Summer pruning is used to thin mixed wood that branches from the trunk, favouring those which will become the scaffold; in the first leaf, with good quality nursery stock, two tiers can be formed and should be tied to supporting wires as soon as possible to encourage desirable branch orientation and inclination. On the scaffolds, only branches towards the exterior will be chosen, removing those along the top surface of the limbs. The remaining branches will bear the fruit. In this training system the apex of the main axis and main scaffolds are left intact, removing branches that compete with them. In the first three years winter pruning is limited to thinning mixed wood. During the spring and summer of the second year, if the trees are growing well, the branches for the third tier can be selected so that the structure of the tree is complete in three years.

**SLENDER SPINDLE**

The spindle is a training system intermediate between traditional open forms and wall forms, suitable for high density orchards and for fertile valley areas. Support structures and fertigation lines are required. Tree structure is composed of a basal tier of 4-5 evenly spaced branches at 70-90 cm above the ground. It is important that these branches are arranged so that they are not in the way of mechanized orchard management equipment (the first tier must be below the lowest platform of the harvest lift). Above the basal tier the trunk is left with fruiting wood placed so that light penetration is favoured; these branches will bear most of the production (spurs, hangers, mixed wood). In the first years, the criteria for “intact apex” pruning apply, as described above. All branches are cut back to 2 or 3 buds except the main axis and scaffolds, whose tips are left intact.

In the early years summer pruning is used to encourage the growth of the main axis and of the basal tier of scaffolds; to this end, branches that are too vigorous or too vertical are removed so that the only growing apices are those of the scaffolds and main axis. It is important to keep the 40-50 cm stretch of the trunk immediately above the basal tier so that the scaffolds receive enough light. At the end

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**Training systems and tree density**

<table>
<thead>
<tr>
<th>Tree form/shape</th>
<th>Tree spacing (m)</th>
<th>Trees/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vase</td>
<td>5-5.5 * 3-4</td>
<td>450-660</td>
</tr>
<tr>
<td>Palmette</td>
<td>4-4.5 * 3.5</td>
<td>630-830</td>
</tr>
<tr>
<td>Candelabra</td>
<td>4-4.5 * 3.5</td>
<td>630-830</td>
</tr>
<tr>
<td>Catalan vase</td>
<td>4.5-5 * 2.5</td>
<td>670-890</td>
</tr>
<tr>
<td>U-shape</td>
<td>4-4.5 * 2.3</td>
<td>740-1250</td>
</tr>
<tr>
<td>Slender spindle</td>
<td>4.5-5 * 1.5</td>
<td>1000-1500</td>
</tr>
<tr>
<td>Trellised-Y</td>
<td>5 * 1.5</td>
<td>1330</td>
</tr>
<tr>
<td>Super spindle</td>
<td>4-4.5 * 1-1.2</td>
<td>1850-2500</td>
</tr>
</tbody>
</table>
of the first year, dormant pruning is used to thin fruiting branches, leaving enough space between the branches off the main axis. Cuts are made to favour open branch position, and branches that are too upright or too pendulous (shaded) are removed.

One variant of the slender spindle is the **super spindle**, for high density orchards, suitable in fertile areas that experience late spring cold. As for the slender spindle, support poles and wires and a fertigation system are very useful. This training system is best with rootstocks of medium-low vigour (Ishtara®, Ferciana®, Adesoto® 101 Puebla®) that limit tree size and allow better light penetration in the lower canopy; with these rootstocks trees bear earlier. In poor soils and in marginal areas, vigorous rootstocks may be used (GF677, Garnem®, Cadaman®, Rootpac®90). The physical structure of the plant consists of a main trunk on which fruiting wood is attached, either directly attached or via short branches. The placement of the branches along the trunk is such that all the space is uniformly filled. To achieve this structure it is necessary to plant pre-formed nursery stock with well-developed and well-spaced lateral branches.

### Average fruit weight by type, harvest date and fruit size

<table>
<thead>
<tr>
<th></th>
<th>B</th>
<th>A</th>
<th>AA</th>
<th>AAA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEACH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>early season</td>
<td>125</td>
<td>145</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mid-season (Redhaven)</td>
<td>140</td>
<td>170</td>
<td>200</td>
<td>230</td>
</tr>
<tr>
<td>late season</td>
<td>140</td>
<td>175</td>
<td>205</td>
<td>235</td>
</tr>
<tr>
<td><strong>NECTARINE</strong></td>
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</tr>
<tr>
<td>early season</td>
<td>130</td>
<td>160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mid-season (Big Top)</td>
<td>135</td>
<td>165</td>
<td>195</td>
<td>220</td>
</tr>
<tr>
<td>late season</td>
<td>135</td>
<td>170</td>
<td>210</td>
<td>240</td>
</tr>
</tbody>
</table>
starting from 60-70 cm from the ground. Trees are allowed to grow freely, only thinning excess fruiting wood. Do not top the trees at 60-70 cm in height, as this stimulates the growth of shoots that are too vigorous for this training system. In order to keep fruit production near the central axis mixed branches can be tipped early to encourage the growth of more lateral shoots. If high quality nursery stock is used trees have nearly attained their final structure by the end of the third year, and at this point a renewal cut can be made on the main axis to keep the tree at the desired height. Other training systems that can be adopted for peach include the candelaabra and the "U-shape": both are medium-density wall systems, which consist of three (candelaabra) or two (U-shape) main vertical axes which are each trained as a mini-spindle. To achieve these forms, it is advised to top young trees at planting at 50-70 cm above the ground, allowing two or three shoots to grow, which should be tied to supporting wires as soon as possible to space them properly and give them the necessary direction. If starting with trees grafted with dormant buds, only one shoot is permitted to grow, then it is green-pruned (topped) at 50-70 cm. All other training is conducted as described for the slender spindle.

PRUNING FOR PRODUCTION

Peach is a species that bears fruit mainly on one-year-old wood and on spurs, with some variability among cultivars. The goals of tree management after the initial training phase are as follows:
- Maintain the desired training system and tree dimensions;
- Avoid the loss of fruiting wood in the lower part of the canopy due to excessive shading;
- Select and thin fruiting wood to attain adequate yield in terms of quantity and quality.

To achieve the above objectives, it is necessary to summer-prune. A first round may be done while thinning fruit, eliminating shoots that are too upright or compete with the main apex, suckers, and any excessive mixed wood (in this case, fruit thinning is facilitated). Depending on cultivar (harvest date and vigour), it is advisable to do a second pass of summer pruning in June, when vegetative growth is at its maximum, to remove suckers thus improving sun exposure of the fruit (for better colour and sugar content). This round should not be delayed to July, or there is risk that tree growth will be excessively slowed, decreasing fruit size or provoking unruly vegetative growth. In any case, do not remove more than 10-20% of the tree’s leaf area. The final round of summer pruning must be done following harvest (August-September), to make renewal cuts on branches and allow floral buds on the remaining branches to mature. Do not thin mixed wood: leave this job for dormant pruning (November-February) when fruit production for the following year is set up.
UNICAL_600®
multi-product electronic sorter designed to process very delicate fruits with high gentleness

Safe, reliable and versatile technology for all varieties of peaches

“We BUILD” INNOVATION! to give RESULTS!
**PEACH VARIETIES WITH YELLOW FLESH**

**BRITTNEY LANE**
**Ripening date:** -16 Redhaven
**Origin:** Zaiger, USA
**Proprietor:** IPS, France
Tree: high vigour, upright growth, low chilling requirement (350 h).
Productivity: medium-high, early bloom.
Fruit: round, intensely yellow skin with 100% red blush; balanced flavour, clingstone, very firm; size AA-A.
Overall: large fruit, complete red blush, holds well on the tree.

**FRANÇOISE**
**Ripening date:** -37 Redhaven
**Origin:** France
Tree: high vigour, tendentially upright growth.
Productivity: medium-high, consistent.
Fruit: round-oblate shape, yellow skin with 80-90% red blush; good flavour, clingstone, firm; good fruit size for the early season (A-B).
Overall: early variety, very productive with fruit of good size and flavour; prune vigorous mixed branches to maintain large fruit size; the fruit is sometimes asymmetric when the pit is split.

**PLUS PLUS**
**Ripening date:** +48 Redhaven
**Origin:** Maillard, France
**Proprietor:** Europépinières, France
Tree: high vigour, standard growth habit.
Productivity: medium-high, consistent.
Fruit: regular round shape, yellow skin with 80-90% red blush; balanced pleasant flavour, freestone, firm; size AA-AAA.
Overall: hardy variety, productive in all areas with large fruit of balanced flavour.

---

**Harvest calendar for yellow-fleshed peaches (relative to Redhaven)**

In Emilia-Romagna, Italy, Redhaven ripens around July 10th-15th

<table>
<thead>
<tr>
<th>ripening date (days with respect to Redhaven)</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
</tr>
</thead>
<tbody>
<tr>
<td>-37</td>
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<tr>
<td>TASTIRE® Zairisp*</td>
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<tr>
<td>FRANÇOISE®</td>
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<tr>
<td>SAGITTARIA®</td>
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<tr>
<td>PULCHRA®</td>
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<tr>
<td>-22</td>
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<tr>
<td>SUGAR TIME*</td>
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<tr>
<td>ZEE DIAMOND*</td>
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<td>-16</td>
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<tr>
<td>BRITTNEY LANE*</td>
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<td>-15</td>
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<td>RICH LADY*</td>
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<td>VISTARICH® Zainobe*</td>
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<td>ROYAL TIME® Zairetop*</td>
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**TASTIRE® Zairisp**
**SAGITTARIA**
**PULCHRA**
**SUGAR TIME**
**ZEE DIAMOND**
**BRITTNEY LANE**
**RUBIRICH® Zainoja**
**ROYAL MAJESTIC® Zainmajal**
**ROYAL GLORY® Zaiifisan**
**RICH LADY**
**VISTARICH® Zainobe**
**ROYAL TIME® Zairetop**
**ROYAL SUMMER® Zaimus**
**ROYAL LEE® Zaipele**
**ROYAL FERRARA**
**ROME STAR**
**ROYAL TOP® ZAIG70**
**RED ELEGANT**
**ZEE LADY® Zaijula**
**ROYAL PRIDE® Zaisula**
**SWEET DREAM**
**ROYAL ESTATE® Zaiizian**
**ROYAL JIM® Zaijagi**
**ROYAL SWEET® Zabiji**
**SWEET HENRY**
**PLUS PLUS® Maillarplus**
**RED STAR**
**SWEET JUANA**
**TARDIBELLE® Belletardie**
**PULCHRA***
Ripening date: -35 Redhaven
Origin: Bassi, DISAA, Milan, Italy
Proprietor: CRPV, Italy
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent, with early bearing.
Fruit: regular round shape, yellow skin with 90-100% red blush; balanced flavour, pleasant and aromatic, clingstone, holds well on tree; size A.
Overall: very early variety, of interest for fruit type, round, well-coloured with good flavour and keeping properties, and agronomical characteristics, of particular interest for productivity and holding well on the tree. Reaches its full potential in areas that encourage early ripening.

**ROYAL ESTATE®ZAIZIZAN***
**ROYAL LEE® Zaipela®**

**Fruit**: regular round shape, yellow skin with marbled red blush on 100% of the surface; balanced flavour, very good, freestone, very firm; size AAA-AA.

**Overall**: late variety, of high and consistent yield, large fruit with excellent flavour. Moderate tree vigour allows 30% reduction in tree spacing.

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**RED ELEGANT**

Ripening date: +26 Redhaven  
Origin: G. Zanzi, Italy  
Proprietor: Mondial Fruit Selection, France  
Tree: medium vigour, open growth habit.  
Productivity: high and consistent.  
**Fruit**: round-oblate form, yellow skin with marbled red blush on 100% of the surface; pleasant balanced flavour; size AA. Evident suture.  
**Overall**: mid-season variety, consistently producer of fruit with good size and flavour.

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**RED STAR**

Ripening date: +50 Redhaven  
Origin: G. Zanzi, Italy  
Proprietor: Mondial Fruit Selection, France  
Tree: medium vigour, open growth habit.  
Productivity: high and consistent.  
**Fruit**: round, yellow skin with marbled red blush on 100% of the surface; pleasant balanced flavour, freestone, flesh of medium firmness; size AA-A. Evident suture.  
**Overall**: late variety, of high and consistent yield, large fruit with excellent flavour. Moderate tree vigour allows 30% reduction in tree spacing.

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**RICH LADY**

Ripening date: with Redhaven  
Origin: Zaiger, USA  
Proprietor: Mondial Fruit Selection, France  
Tree: medium-high vigour, tendentially upright growth.  
Productivity: high, depends on early bloom.  
**Fruit**: round, yellow skin with 100% dark red blush; balanced flavour, intensely yellow flesh, freestone, very firm; size AA-A. Evident suture.  
**Overall**: large fruited variety, produces well in areas without late spring cold; upright growth habit requires green pruning to keep the bottom of the canopy vegetative. Fruit keep well on tree.

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**ROME STAR**

Ripening date: +22 Redhaven  
Origin: Fideghelli - Della Strada, CRA-ISF, Rome, Italy.  
Proprietor: CRA-ISF, Rome, Italy.  
Tree: high vigour, standard growth habit.  
Productivity: high and consistent in all areas.  
**Fruit**: round, yellow skin with 80% red blush; pleasant balanced flavour, freestone, flesh of medium firmness; size AA-AAA.
**ZEE DIAMOND**

Fruit: round-oblate shape, yellow skin with 100% red blush; subacid flavour, flavourful (sweet), freestone, firm; size AA-AAA.

Overall: consistently productive variety, hardy, with attractive fruit of pleasant and balanced flavour.

**ROYAL DELICIOUS® ZAI606PJ**

Ripening date: +16 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium vigour, standard-open growth habit.
Productivity: high and consistent, early bearing.
Fruit: regular round shape, large size (mostly AA), skin of intense yellow with 90-100% bright red blush; yellow flesh, firm and juicy, pleasant balanced flavour. Holds well on tree.
Overall: variety with large fruit of good colour, very productive, capable of high yield per hectare even in areas with late spring cold.

**ROYAL ESTATE® Zaizizan**

Ripening date: +36 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium-high vigour, standard growth habit.
Productivity: high, consistent.

**ROYAL TIME® Zairetop**

Fruit: round-oblate shape, yellow skin with 100% red blush; subacid flavour, flavourful (sweet), freestone, firm; size AA-AAA.

Overall: productive variety, with large fruit of pleasant subacid flavour. Easy orchard management.
ROYAL FERRARA*
Ripening date: +21 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium vigour, standard growth habit.
Productivity: high and consistent, with early bearing.
Fruit: regular round shape, intense yellow skin with 90-100% red blush; subacidic flavour, sweet and aromatic, freestone, keeps well; size AA-AAA.
Overall: variety that matures with Elegant Lady, of interest for fruit type, round and well-coloured with pleasant flavour; holds well on the tree, desirable agronomic characteristics, particularly yield and size. Reaches its full potential when production is encouraged on vigorous mixed branches.

ROYAL GLORY® Zaifisan*
Ripening date: -5 Redhaven
Origin: Zaiger, USA
Proprietor: Mondial Fruit Selection, France
Tree: high vigour, standard-upright growth.
Productivity: high and consistent.
Fruit: regular round shape, yellow skin with 100% dark red blush; subacid flavour, semi-clingstone, very firm; size AA-A.
Overall: very productive variety, with large round fruit; average subacid flavour.

ROYAL JIM® Zaigadi*
Ripening date: +40 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium vigour, standard growth habit.
Productivity: high, consistent.
Fruit: regular round shape, intensely yellow skin with 100% red blush; balanced flavour tending towards acidity, clingstone, firm, slightly fibrous; size AAA.
Overall: late variety, very productive of large fruit that are attractive for their red colouring.

ROYAL LEE® Zaipela*
Ripening date: +20 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: medium-high.
Fruit: round-oblate shape, yellow skin with 100% red blush; subacid flavour, pleasant, freestone, firm; size AA-AAA.
Overall: very productive variety, with large round fruit; average subacidic sweet flavour. Easy orchard management.

ROYAL MAJESTIC® Zaimajal*
Ripening date: -5 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent
Fruit: regular round-oblate shape, yellow skin with 90-100% bright red marbled blush; balanced flavour, clingstone; size AA.
Overall: very productive variety with large fruit.
ROYAL PRIDE® Zaisula®
Ripening date: +28 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium vigour, tendentially upright growth.
Productivity: high and consistent.
Fruit: round-oblate shape, yellow skin with 100% red blush; subacid flavour, flavourful, freestone, very firm, average juiciness; size AA-AAA.
Overall: variety of interest for size and flavour. Easy orchard management.

ROYAL SWEET® Zaibiji®
Ripening date: +44 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth.
Productivity: high and consistent.
Fruit: regular round-oblate shape, yellow skin with 100% red blush; subacid flavour, sweet, freestone, very firm; size AAA.
Overall: consistently productive variety with excellent flavour and large size. Easy orchard management.

ROYAL TIME® Zairetop®
Ripening date: +3 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: regular round-oblate shape, yellow skin with 100% bright red blush; balanced flavour, good, semi-clingstone, firm, intensely yellow flesh; size AA.
Overall: variety of interest for appearance, size and flavour of the fruit. Produces well and consistently. Easy orchard management.

ROYAL TOP® ZAI587PJ®
Ripening date: +25 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-upright growth habit.
Productivity: high and consistent, early bearing.
SAGITTARIA*
Ripening date: -37 Redhaven
Origin: CRA-ISF Caserta, Italy.
Proprietor: CRA-ISF Rome, Italy.
Tree: medium vigour, standard-open growth habit.
Productivity: high and consistent.
Fruit: round shape, yellow skin with 90-100% luminous red blush; good flavour, clingstone with red coloration; size A.
Overall: very early variety, of interest for productivity, appearance and flavour of its fruit.

SUGAR TIME*
Ripening date: -22 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round shape, yellow skin with 100% red blush; sweet, subacidic flavour, clingstone; size AA-A.
Overall: productive variety with large size fruit of excellent flavour; substitute for Springcrest-Springbelle. Easy orchard management.

SWEET DREAM*
Ripening date: +30 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, tendentially upright growth habit.
Productivity: high and consistent.
Fruit: round-oblate, yellow skin with 100% intense red blush; pleasant subacidic flavour, clingstone, very firm and juicy; size AA-A.
Overall: variety of interest for high and consistent productivity, fruit that keep well on the tree.

SWEET HENRY*
Ripening date: +45 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium-high vigour, open-standard growth habit.
Productivity: high and consistent, early bearing.
**SAGITTARIA**

Fruit: regular round shape, large size (mostly AA), intensely yellow skin with 90-100% bright red blush; yellow flesh, good sweet and aromatic flavour, very juicy.

**Overall:** late variety with large fruit, very colourful for the period and quite productive; exceptional productive potential.

**SWEET JUANA**

Ripening date: +55 Redhaven

Origin: Zaiger, USA

**Proprietor:** IPS, France

**Tree:** high vigour, standard-upright growth habit.

**Productivity:** high and consistent, early bearing.

**Fruit:** regular round shape, large size (mostly AA), intensely yellow skin with 90-100% bright red blush; yellow flesh, pleasant sweet aromatic flavour, very juicy.

**Overall:** late variety of large size, well-coloured for the period and quite productive.

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**TARDIBELLE® Belletardie**

Ripening date: +60 Redhaven

Origin: Europepinieres, France

**Proprietor:** Europepinieres, France

**Tree:** medium-low vigour, standard growth habit.

**Productivity:** medium-high and consistent.

**Fruit:** round, yellow skin with 70-80% marbled red blush; balanced flavour, average, freestone, firm; size AAA.
SWEET DREAM*

**TASTIRED® Zairisup**
- Ripening date: -37 Redhaven
- Origin: Zaiger, USA
- Proprietor: IPS, France
- Tree: high vigour, standard growth habit.
- Productivity: high
- Fruit: round, yellow skin with 90-100% marbled red blush; good balanced flavour, freestone, very firm; size A-AA.
- **Overall:** early variety that is a good substitute for Springbelle; productivity, fruit size and good flavour.

**ZEE DIAMOND®**
- Ripening date: -22 Redhaven
- Origin: Zaiger, USA
- Proprietor: IPS, France
- Tree: medium vigour, standard growth habit.
- Productivity: high, consistent.
- Fruit: round, intensely yellow skin with 90-100% marbled red blush; good balanced flavour, freestone, very firm; size A-AA.
- **Overall:** early variety, of good size, good flavour and high yield.

**ZEE LADY® Zaijula**
- Ripening date: +28 Redhaven
- Origin: Zaiger, USA
- Proprietor: IPS, France
- Tree: medium vigour, standard growth habit tendentially open.
- Productivity: high and consistent.
- Fruit: round, intensely yellow skin with 100% marbled red blush; balanced flavour, very good, freestone, firm; size AA-AAA.
- **Overall:** very productive variety, with large fruit; flavour is very good and fruit keep well on the tree at maturity.

**VISTARICH® Zainobe**
- Ripening date: +3 Redhaven
- Origin: Zaiger, USA
- Proprietor: IPS, France
- Tree: medium-high vigour, tendentially upright growth habit.
- Productivity: high and consistent.
- Fruit: regular round shape, intensely yellow skin with 100% red blush; balanced flavour, intensely yellow flesh, freestone, very firm; size AA. Evident suture.
- **Overall:** large-fruited variety, highly and consistently productive; upright growth requires summer pruning to keep the lower canopy vegetative. Fruit keep well on tree.
Harvest calendar for white-fleshed peaches (relative to Redhaven)
In Emilia-Romagna, Italy, Redhaven ripens around July 10th - 15th

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PEACH VARIETIES WITH WHITE FLESH

AMANDA® Zaibaro*
Ripening date: -34 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium-high vigour, standard growth habit.
Productivity: medium high and consistent.
Fruit: regular round shape, white with 90-100% red blush; balanced flavour, semi-clingstone, medium firmness; size A.
Overall: very early variety, with high and consistent productivity, fruit of good flavour and large size given the early harvest.

FRANCY*
Ripening date: +13 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: regular round shape, white with 100% dark red blush; subacid flavour, sweet, semi-clingstone, firm; size AA-AAA.
Overall: mid-season variety, high and consistent yield, large fruit with excellent flavour.

GLADYS® Zailati*
Ripening date: +52 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, white with 80% red blush; balanced flavour, very good, clingstone, firm; size AA.
Overall: very late variety, consistent producer of large fruit that are well-coloured, considering the late harvest date.
IBLA*  
Ripening date: +40 Redhaven  
Origin: CIV  
Proprietor: CIV  
Tree: medium-high vigour, standard growth habit.  
Productivity: high and consistent, early bearing.  
Overall: productive variety with large fruit; very good flavour and juiciness.

KEVINA® Zaidaso*  
Ripening date: +38 Redhaven  
Origin: Zaiger, USA  
Proprietor: IPS, France  
Tree: medium-high vigour, standard growth habit.  
Productivity: high and consistent.  
Fruit: round-oblate, white with 90-100% red blush; subacid flavour, clingstone, firm with slow ripening; size AA.  
Overall: late ripening variety, produces large fruit that hold well on the tree; subacid flavour.

LUCIUS® ZAI666PB*  
Ripening date: +52 Redhaven  
Origin: Zaiger, USA  
Proprietor: IPS, France  
Tree: medium-high vigour, standard-upright growth habit.  
Productivity: high and consistent, early bearing.  
Fruit: regular round shape, good size (mostly AA-A), white skin with 100% bright red blush; white flesh, sweet, juicy and aromatic. Keeps well.  
Overall: variety with large fruit, well-coloured and quite productive, capable of high yields per hectare.

MAURA® Zaifisan*  
Ripening date: +5 Redhaven  
Origin: Zaiger, USA  
Proprietor: IPS, France  
Tree: high vigour, standard growth habit.  
Productivity: high and consistent.  
Fruit: regular round shape, white with 100% red blush; balanced flavour, good, freestone, firm; size A-AA.  
Overall: variety with attractive tasty fruit; good firmness and holds well on the tree.

NATHANA® ZAI655PB*  
Ripening date: +8 Redhaven  
Origin: Zaiger, USA  
Proprietor: IPS, France  
Tree: high vigour, standard-open growth habit.  
Productivity: high and consistent, early bearing.  
Fruit: regular round shape, good size (mostly AA-A), white skin with 100% bright red blush; white flesh, firm and juicy, pleasant sweet flavour, aromatic. Keeps well.  
Overall: large-fruited variety, very colourful and not very fuzzy; very good flavour and juiciness.

NERISA ® ZAI668PB*  
Ripening date: +15 Redhaven  
Origin: Zaiger Genetics – USA  
Proprietor: IPS, France  
Tree: high vigour, fruits on two-year-old mixed branches, early bearing  
Productivity: high and consistent  
Fruit: round, slightly asymmetric, of large size (uniformly AA), intense red on entire surface, white flesh, sweet, balanced flavour, excellent firmness.  
Overall: variety of large size, well-coloured and productive.

OCTAVIA® Zaigle*  
Ripening date: +28 Redhaven  
Origin: Zaiger, USA  
Proprietor: IPS, France  
Tree: medium-high vigour, standard growth habit.  
Productivity: high and consistent on all branch types.  
Fruit: regular round shape, white with 90-100% red blush; subacid flavour, sweet, juicy and aromatic, freestone, firm, keeps well; size AA.  
Overall: mid-season variety, produces fruit of large size that keep well on the tree, excellent flavour; high and consistent yield.

Overall: variety with attractive tasty fruit; good firmness and holds well on the tree.
PATTY® Zaisito*
Ripening date: -18 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-upright growth habit.
Productivity: high and consistent, medium-early bloom.
Fruit: regular round shape, white with 100% intense red blush (attractive appearance); balanced flavour, good, clingstone, firm and juicy; homogenously-sized fruit (A-AA) throughout the canopy.
Overall: variety with high and consistent yield, with large tasty fruit; very few split pits. Easy orchard management of the tree.

ROSALIA® ZAI580PB*
Ripening date: +21 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, white with 100% intense red blush; subacid flavour, good (very sweet), freestone, very firm, keeps well on tree; size AA.
Overall: mid-season variety, with high and consistent yield, large fruit with excellent flavour; keeps well on the tree.

SPRING SNOW*
Ripening date: -22 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, tendentially upright growth habit.
Productivity: high and consistent.
Fruit: round, white with 90% red blush; balanced flavour, freestone, firm flesh; size A.
Overall: early variety with large fruit, attractive appearance and good flavour; keeps well on the tree and has good post-harvest storage.

URANIA® ZAI613PB*
Ripening date: +24 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent on all branch types.
Fruit: regular round, white with 100% bright red blush; subacid flavour, sweet, juicy and aromatic; size AA.
Overall: mid-season variety, produces large fruit; excellent flavour; high and consistent yield.
NECTARINE VARIETIES WITH YELLOW FLESH

ALITOP*
Ripening date: +13 Big Top® Zaitabo*
Origin: Liverani, FRF-ISF, Forlì, Italy
Proprietor: CRPV, Italy.
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: oblong, yellow-green with 100% intense red blush; tends to have points of russetting; subacid flavour, very good, freestone, melting flesh, very firm; size AA.
Overall: mid-season variety, very productive, with large fruit size and pleasant subacid flavour with high concentration of sugars; keeps well on the tree and after harvest.

BIG BANG® Maillara*
Ripening date: -18 Big Top® Zaitabo*
Origin: Maillard, France
Proprietor: Europépinières, France.
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, yellow with 100% intense red blush; pleasant subacid flavour, clingstone, melting flesh, very firm; size A-AA.
Overall: very early variety with high and consistent production, with large fruit and pleasant subacid flavour; it is advisable not to thin excessively to avoid split pit.

BIG FIRE® ZAI691NJ*
Ripening date: -5 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Harvest calendar for yellow-fleshed nectarines (relative to Big Top® Zaitabo*)
In Emilia-Romagna, Italy, Big Top® Zaitabo* ripens between July 8th-13th

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Tree: high vigour, standard-upright growth habit.
Productivity: high and consistent; early bearing.
Fruit: round-oblong, large size (AA-A), intense yellow with 90% bright red blush; yellow flesh, firm, pleasant balanced sweet flavour.
Overall: variety of interest for early harvest, early bearing, consistent productivity and fruit flavour.

BIG HAVEN® Honey Haven*
Ripening date: -5 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Tree: high vigour, standard-open growth habit.
Productivity: high and consistent.
Fruit: round, yellow with 100% red blush; balanced flavour, good,
clingstone, melting, very firm; size A-AA.

**Overall:** early variety, productive, with large fruit; good flavour.

**BIG SUNSHINE®**

Ripening date: June 25th-29th

Origin: G. Zanzi, Italy

Proprietor: Flli Zanzi, Italy

Tree: good vigour, standard growth habit.

Productivity: high and consistent.

Fruit: round, slightly oval shape, yellow with 100% intense luminous red blush; semi-clingstone, balanced sweet flavour, melting flesh, very firm; size AA.

**Overall:** early variety with high and consistent yield, with fruit of large size and good flavour, sweet; remarkably free of any russetting.

**BIG TOP® Zaitabo**

Ripening date: July 8th-13th in Emilia-Romagna, Italy.

Origin: Zaiger, USA

Proprietor: Mondial Fruit Selection, France.

Tree: high vigour, standard-upright growth habit.

Productivity: high and consistent.

Fruit: regular round shape, intense yellow with 100% bright red blush; very good subacid flavour, clingstone, melting flesh, very firm; size AA-A.

**Overall:** variety prized for the aesthetic and organoleptic characteristics of the fruit, subacid flavour, very good, keeps well on the tree and after harvest; under non-ideal growing conditions productivity can be inconsistent due to early bloom.
CONQUETE®

Ripening date: +25 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Tree: medium-high vigour, open growth habit.
Productivity: high and consistent.
Fruit: large size (mostly AA-A), regular round shape; yellow with uniform red blush over the whole fruit surface; very firm flesh, clingstone, very pleasant subacid flavour, with high soluble sugars.
Overall: variety of interest for fruit size, productivity, colour and flavour; gives continuity to the subacid-sweet fruit type (like Big Top) with extensive red colour.

DARK FAIR® Zaidapi*

Ripening date: +55 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Tree: medium vigour, standard-open growth habit.  
Productivity: high and consistent, late bloom.  
Fruit: round, yellow with 90% dark red blush; balanced flavour, good, clingstone, melting flesh, very firm; size A-AA.  
Overall: late variety, high and consistent yield, with good-sized fruit of good flavour; of interest for extensive colouration.

EARLY BOMBA® Zaitrobo*  
Ripening date: -20 Big Top® Zaitabo*  
Origin: Zaiger, Usa  
Proprietor: IPS, France  
Tree: medium-high vigour, standard growth habit.  
Productivity: high and consistent, with early bearing; this cultivar has a low chilling requirement.  
Fruit: round regular shape, intensely yellow skin with 90-100% red blush; balanced flavour tending towards acidity, aromatic, freestone, holds well; size A-AA. Split pit rare.  
Overall: very early variety with low chilling requirement, suitable for areas with mild winters, of interest for fruit type, round, well-coloured with pleasant flavour, keeps well. Reaches its full potential in areas which encourage early ripening.

EARLY ZEE® Zaigloze*  
Ripening date: +22 Big Top® Zaitabo*  
Origin: Zaiger, USA  
Proprietor: IPS, France  
Tree: high vigour, standard growth habit.  
Productivity: medium-high and consistent.  
Fruit: round-oblate shape, yellow with 80-90% bright red blush; no russetting, small proportion of fruit with split pit. Balanced flavour that tends towards acidity, clingstone, melting, very firm; size AA-AAA.  
Overall: very productive variety, large fruit and bright attractive colour; keeps well both on the tree and after harvest; balanced-acidic flavour.

GIANNA LAURA DOLCE*  
Ripening date: +54 Big Top® Zaitabo*  
Origin: Università di Firenze, Italy  
Proprietor: CRPV, Italy  
Tree: high vigour, standard growth habit.  
Productivity: medium-high and consistent.  
Fruit: round, symmetrical, yellow with 50% bright red blush; sweet flavour (like honey), clingstone, melting, very firm; size AAA.  
Overall: late variety, with high and consistent yield of large sweet flavourful fruit.
**HONEY KIST**
Ripening date: +5 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Tree: medium vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, yellow with 100% intense red blush; subacid very pleasant flavour (high °Brix), semi-clingstone, melting very firm; size A-AA.
Overall: variety with high and consistent yield in all zones, which follows Big Top with fruit of same aesthetic and organoleptic type.

**LATE FAIR® Zaitreme**
Ripening date: +64 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Tree: high vigour, standard-open growth habit.
Productivity: high and consistent (abundant bloom).
Fruit: round-oblong shape, yellow
BIG FIRE® ZAI691NJ*

with 80% bright red blush; balanced flavour, good, clingstone, melting, very firm; size AA.
Overall: late variety, high and consistent production, with large and flavourful fruit.

MARRIA DOLCE
Ripening date: +40 Big Top® Zaitabo*
Origin: Bellini, Italy
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: regular round, yellow with 80% bright red blush; pleasant subacidic flavour, very sweet, freestone, melting flesh, very firm; size AA.
Overall: variety of interest for fruit flavour, which is very sweet (like honey); highly and consistently productive.

NECTAROSS
Ripening date: +27 Big Top® Zaitabo*
Origin: Fideghelli and Rosati, ISF Roma, Italy
Proprietor: IPS, France.
Tree: medium vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, intense yellow with 80-90% red blush; pleasant balanced flavour, freestone, melting flesh, very firm; size AA-AAA.
Overall: consistently very productive variety in all zones, with large flavourful fruit; it is advisable to actively prevent brown rot.
ORION*
Ripening date: +38 Big Top® Zaitabo
Origin: Fideghelli et al., CRA-ISF Rome, Italy
Proprietor: CRA-ISF Rome, Italy
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round-oblong shape, yellow with 80-90% bright red blush; balanced flavour, good, freestone, melting flesh, very firm; size AA-AAA.
Overall: variety with high and consistent yield, large and flavourful fruit; recommended for its hardiness in all areas where it is grown. Very cold resistant.

REBUS 028*
Ripening date: -16 Big Top® Zaitabo
Origin: Bassi, DISAA, Milan, Italy
Proprietor: CRPV, Italy
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent, early bearing
Fruit: round, slightly oblong shape, large size considering early harvest date (mostly size A), yellow skin with 90-100% bright red blush; yellow flesh, pleasant sweet flavour, aromatic, keeps well on tree. Skin not very susceptible to russetting.
Overall: early variety, of interest for fruit appearance, very colourful and not very susceptible to russetting or pit split; good potential for early season.

REBUS 038*
Ripening date: +7 Big Top® Zaitabo
Origin: Bassi, DISAA, Milan, Italy
Proprietor: CRPV, Italy
Tree: high vigour, standard growth habit.
Productivity: high and consistent in all zones, early bearing.
Fruit: regular round, large size considering early harvest date (mostly AA-A), yellow skin with 90-100% bright red blush; yellow flesh, pleasant sweet flavour, aromatic, keeps well on tree. Skin not very susceptible to russetting.
**RED PARADISE**

*Overall:* variety that follows Big Top, of interest for fruit appearance, well-coloured and not very susceptible to russetting or split pit; good potential for early season. Consistently productive, recommended for planting in areas where Big Top has problems with late spring cold.

**REBUS 195**
*Ripening date:* +15 Big Top®
*Origin:* Bassi, DISAA, Milan, Italy

*Proprietor:* CRPV, Italy
*Tree:* high vigour, standard growth habit.
*Productivity:* high and consistent, early bearing.
*Fruit:* round, slightly oblong shape, large size considering early harvest date (mostly AA-A), yellow skin with 90-100% bright red blush; yellow flesh, pleasant sweet flavour, aromatic, keeps well on tree. Skin not very susceptible to russetting.

*Overall:* variety of interest for fruit appearance, well-coloured and not very susceptible to russetting.

**RED DEVIL® ZAI666NJ**
*Ripening date:* +42 Big Top®
*Origin:* Zaiger, USA
*Proprietor:* IPS, France.
*Tree:* medium-high vigour, standard growth habit.
*Productivity:* high and consistent, early bearing.
Fruit: round-oblate shape, large size (mostly AA), intensely yellow skin with 90% bright red blush; yellow flesh, pleasant balanced flavour, sweet and aromatic (13°Brix); keeps well; not susceptible to rain damage (skin discoloration).

Overall: variety of interest for fruit appearance, very colourful for the late harvest date; highly productive, good flavour, balanced, very sweet. Not susceptible to rain damage.

RED FAIR® Zaifane*
Ripening date: +55 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: Mondial Fruit Selection, France.
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, yellow with 80% bright red blush; balanced flavour, good, clingstone, melting flesh, very firm; size AA-AAA.

Overall: late variety with high and consistent yield, with large tasty fruit; of interest for extensive red coloration.

RED LATE® Zailared*
Ripening date: +59 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France.
Tree: high vigour, upright growth habit.
Productivity: high and consistent.
Fruit: round-oblong shape, yellow with 80% bright red blush; balanced flavour, good, clingstone, melting flesh, very firm; size AA.

Overall: variety with high and consistent yield, appropriate for all areas; the two-tone coloration limits further planting of this variety, as more highly coloured cultivars are desired.

SWEET LADY*
Ripening date: +42 Big Top® Zaitabo*
Origin: Zoli, Italy
Proprietor: Limagrain-Covico, Italy.
Tree: medium vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round usually asymmetric, yellow with 70% bright red blush; balanced flavour, pleasant, freestone, melting flesh, very firm; size AA-AAA.

Overall: late variety with high and consistent yield; large fruit with pleasant flavour, medium susceptibility to brown rot; suited for all areas.

VENUS
Ripening date: +33 Big Top® Zaitabo*
Origin: Fideghelli et al., CRA-ISF Rome, Italy
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round-oblong, yellow with 70-80% red blush; balanced flavour, average, freestone, melting flesh; size AA-AAA.

Overall: high yielding variety, sensitive to late spring cold; fruit are large and aesthetically pleasing.
### Harvest calendar for white-fleshed nectarines (relative to Big Top® Zaitabo*)
**In Emilia-Romagna, Italy, Big Top® Zaitabo* ripens between July 8th-13th**

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### WHITE NECTARINES

**BIG BEL® Zaibeglo**

**Ripening Date:** +37 Big Top®
**Zaitabo**

**Origin:** Zaiger, USA  
**Proprietor:** IPS, France  
**Tree:** high vigour, standard-upright growth habit.  
**Productivity:** high and consistent, early bearing.  
**Fruit:** regular round shape, good size (mostly AA-A), white skin with 100% red blush; white flesh, firm and juicy, good balanced flavour, aromatic. Keeps well.  
**Overall:** variety with large fruit, well-coloured for late harvest date; good flavour and high yield.

**LYOS**

**Ripening Date:** +42 Big Top®  
**Zaitabo**

**Origin:** CIV, Italy  
**Proprietor:** CIV, Italy  
**Tree:** high vigour, standard growth habit.  
**Productivity:** high, with early bearing.  
**Fruit:** round-oblong shape, large size (AA-A), white skin with 70% red blush; white flesh, very firm and juicy; pleasant balanced flavour, with marked aroma.  
**Overall:** variety of interest for high productivity and fruit appearance, very aesthetically pleasing and of nicely balanced flavour.

**MAGIQUE® Maillarmagie**

**Ripening Date:** +14 Big Top®  
**Zaitabo**

**Origin:** Maillard, France  
**Proprietor:** Europépinières, France  
**Tree:** medium-high vigour, upright growth habit.  
**Productivity:** high and consistent in all areas.

**Fruit:** round-oblong shape, greenish-white with 80% bright red blush, pleasant subacid flavour, semi-clingstone, melting flesh, very firm, slow ripening; size A-AA.  
**Overall:** variety of high and consistent productivity, with large flavourful fruit. Very hardy in all zones.
MARIA LINDA*
Ripening date: -8 Big Top® Zaitabo*
Origin: Università di Firenze, Italy
Proprietor: CRPV, Italy
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round-oblong shape, white with 100% bright red blush; balanced flavour, sweet (°Brix>12), melting flesh, semi-clingstone; size A-AA.
Overall: Early variety with high and consistent yield, with good-sized fruit and good flavour; withstands handling well.

QUEEN DIAMOND®
ZAI726NB*
Ripening date: +2 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium vigour, standard-upright growth habit.
Productivity: high and consistent, with early bearing.
Fruit: round, slightly oblong shape, large size (mostly AA-A), yellow with 100% red blush; white flesh, firm and juicy, of pleasant subacid flavour. Keeps well.
Overall: variety of interest for early bearing and high yield potential.

QUEEN GEM®
ZaiBioga*
Ripening date: +2 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium vigour, standard-upright growth habit.
Productivity: high and consistent, with early bearing.
Fruit: round, slightly oval shape, large size (mostly AA-A), yellow with 100% red blush; white flesh, firm and juicy, of pleasant subacid flavour. Keeps well.
Overall: variety of interest for early ripening and fruit appearance, very attractive aesthetically and of pleasant sweet flavour. Also of interest for early bearing. Vigorous rootstock recommended.

QUEEN GLOBE®
ZAI809NB*
Ripening date: +32 Big Top® Zaitabo*
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-upright growth habit.
Productivity: high and consistent, with early bearing.
Fruit: regular round shape, large size (mostly A-AA), white skin with 100% red blush; white flesh, firm and juicy, of pleasant subacid flavour. Keeps well.
red blush; white flesh, firm and juicy, pleasant subacidic sweet flavour, aromatic. Keeps well. 
**Overall**: variety of interest for fruit appearance, very attractive aesthetically and of pleasant sweet flavour. Also of interest for early bearing and potential for post-harvest storage.

**QUEEN RED® Zaitolio**
**Ripening date**: -22 Big Top® Zaitabo®
**Origin**: Zaiger, USA
**Proprietor**: IPS, France
**Tree**: high vigour, standard-upright growth habit.
**Productivity**: high and consistent.
**Fruit**: slightly oblong shape, large size (mostly A), yellow skin with 70% red blush; white flesh, firm, pleasant balanced flavour, slightly acidic. Keeps well.
**Overall**: variety of interest for early season ripening and attractive appearance of fruit, very pretty, keeps well; good flavour, balanced.

**ROYAL QUEEN® Zaisirly**
**Ripening date**: +62 Big Top® Zaitabo®
**Origin**: Zaiger, USA
**Proprietor**: IPS, France
**Tree**: medium vigour, standard-upright growth habit.
**Productivity**: high and consistent.
**Fruit**: round, symmetrical, white with 80-100% bright red blush; balanced flavour, pleasant with high sugar content, semi-clingstone, very firm, slow ripening; size A-AA.
**Overall**: very early variety, with high and consistent yield, large fruit size considering early harvest date; very good flavour. The potential for fruit size and yield allow mild thinning, with the additional advantage of decreasing the percentage of fruit with split pit.

**SILVER BRIGHT® ZAI770NB**
**Ripening date**: +62 Big Top® Zaitabo®
**Origin**: Zaiger, USA
**Proprietor**: IPS, France
**Tree**: medium vigour, standard-upright growth habit.
**Productivity**: high and consistent, with early bearing.
**Fruit**: tendentially oblong, good fruit size (mostly A-AA), white skin with 100% red blush; white flesh, firm and juicy, pleasant balanced flavour, aromatic. Keeps well.
**Overall**: variety with large fruit, well-coloured for the late harvest date; good flavour and high yield. Vigorous rootstock recommended.
Harvest calendar for low-chill nectarines (relative to Zinca®5)
In Spain, Zinca®5 ripens around May 4th-9th

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<tr>
<td>EARLY MAY® Zaiulo*</td>
<td>NG</td>
<td>NG</td>
<td>NG</td>
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</tr>
<tr>
<td>GRANSUN®</td>
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<td>NG</td>
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</tr>
<tr>
<td>CRIMSON BABY</td>
<td>NG</td>
<td>NG</td>
<td>NG</td>
<td>NG</td>
</tr>
</tbody>
</table>

**ADELFAR**
(yellow nectarine)
Ripening date: with Zinca 5 (May 8th -10th in Seville, Spain).
**Origin:** Linan, Spain

**CRIMSON BABY**
(yellow nectarine)
Ripening date: +18 Zinca 5
**Origin:** USDA, Fresno, California, USA.

Proprietor: Linan, Spain

**Tree:** high vigour, open growth habit.
**Productivity:** high and consistent.
**Fruit:** fruit size large (mostly B), round, uniform 75% red blush on yellow.
**Overall:** variety of interest for large size, early maturation, colour and shape, very productive. Requires 300/350 chilling hours.
**Tree:** medium vigour, productive, early bloom, pink flowers.
**Productivity:** high, consistent in suitable zones.
**Fruit:** round, good size considering

**Varieties with low chilling requirement**

**VIVAI F.LLI ZANZI**
early harvest date, light yellow with 70-90% intense red blush; light yellow flesh, firm, clingstone, good flavour.

Overall: good early nectarine, follows Zincal with larger fruit.

EARLY MAY® Zaibulo*
(yellow nectarine)
Ripening date: +6 Zincal 5
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, upright growth habit.
Productivity: high and consistent, concentrated on high-quality mixed wood, early bloom.

Fruit: round nectarine without apical prominence, yellow with 90% red blush; balanced flavour, good; size B-A.

Overall: very early variety with high and consistent yield, excellent flavour, good size considering the early harvest date; it is advisable to encourage production on good-quality mixed wood.

GRANSUN*
(yellow nectarine)
Ripening date: +6 Zincal 5
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, upright growth habit.

Productivity: high and consistent, concentrated on high-quality mixed wood, early bloom.

Fruit: round nectarine without apical prominence, yellow with 90% red blush; balanced flavour, good; size B-A.

Overall: very early variety with high and consistent yield, excellent flavour, good size considering the early harvest date; it is advisable to encourage production on good-quality mixed wood.
VIVAI F. LLI ZANZI

PLATIBELLE*

kiwifruit  apricot  chestnut  cherry  strawberry  minor fruit species  almond  apple

apricot  chestnut  cherry  strawberry  minor fruit species  almond  apple
### Harvest calendar for peento peaches and nectarines (relative to Redhaven)

In Emilia-Romagna, Italy, Redhaven ripens around July 10th -15th

<table>
<thead>
<tr>
<th>Variety</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
</tr>
</thead>
<tbody>
<tr>
<td>UFO 2*</td>
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<td></td>
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<tr>
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<tr>
<td>PLATIFIRST®</td>
<td>PB</td>
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<td></td>
<td></td>
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<tr>
<td>PIATTAFORONE®</td>
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<tr>
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<tr>
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<tr>
<td>UFO 8*</td>
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<tr>
<td>UFO 9*</td>
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</tbody>
</table>

### VARIETIES OF PEENTO PEACHES AND NECTARINES (PLATYCARPA)

**CONCETTINA* (white nectarine)**
- Ripening date: + 2 Redhaven
- Origin: UNIPM – SAPROV, Ancona, Italy
- Proprietor: UNIPM – SAPROV, Ancona, Italy
- Tree: high vigour, standard growth habit.
- Productivity: high and consistent.
- Fruit: flat, symmetric, large size, white nectarine with 90-100% bright red blush; white flesh, pleasant sweet flavour (14°Brix), keeps well.
- Overall: variety of interest for fruit appearance, well-coloured, high yield and good flavour; tree resistant to several common diseases.
MESEMBRINE*  
(yellow nectarine)  
Ripening date: +4 Redhaven  
Origin: INRA, Francia  
Proprietor: CEP Innovation, France  
Tree: high vigour, standard-upright growth habit.  
Productivity: good, with early bearing.  
Fruit: flat, symmetrical, large size, yellow with 80% bright red blush; yellow flesh, firm, pleasant sweet flavour.  
Overall: variety of interest for ripening date, productivity and flavour.

PIATTAFORONE*  
(yellow peach)  
Ripening date: -25 Redhaven  
Origin: Liverani, Giovannini, Italy  
Proprietor: CRA-FRF, Forlì, Italy  
Tree: high vigour, standard growth habit.  
Productivity: good and consistent.  
Fruit: flat, slightly asymmetric, medium-large size (average fruit weight 90 g), yellow skin with 80% soft red blush; yellow flesh slightly veined with red under the skin, firm, excellent sweet flavour.  
Overall: yellow peach of interest for easy tree management, good yield, advisable to prune to encourage fruit on quality mixed wood where size and fruit characteristics improve. Of interest also for fruit appearance, subacid sweet aromatic flavour. Multiple harvest passes required.

PIATTAFORTWO*  
(white peach)  
Ripening date: +8 Redhaven  
Origin: Liverani, Giovannini, Italy  
Proprietor: CRA-FRF, Forlì, Italy  
Tree: high vigour, standard growth habit.  
Productivity: good and consistent.  
Fruit: flat, slightly asymmetric, large size (average fruit weight 130 g), white skin with 70% soft red blush; white flesh, slightly veined with red under the skin, firm, excellent sweet flavour.  
Overall: very productive variety with attractive fruit and excellent
**PLATIFIRST***
(white peach)
Ripening date: -27 Redhaven
Origin: CEP Innovation, France
Proprietor: CEP Innovation, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: round, pinkish-white with 90% bright red blush; sweet-subacid flavour, very good, melting white flesh, very firm; size A-AA (average weight 160 g).
Overall: variety with high and consistent yield, with large and flavourful fruit.

**PLATIFUN***
(white peach)
Ripening date: +8 Redhaven.
Origin: INRA/Quartier Neuf, France
Proprietor: CEP Innovation, France
Tree: high vigour, standard-upright growth habit
Productivity: high and consistent
Fruit: round shape, white skin with 90% bright red blush; very pleasant sweet subacid flavour, melting white flesh, very firm; size A-AA (average fruit weight 180 grams)
Overall: variety with high and consistent yield, with large fruit of pleasant sweet subacid flavour; no cracking at the stem end or calyx cavity

**PLATIMOOON***
(yellow nectarine)
Ripening date: +18 Redhaven
Origin: CEP Innovation, France
Proprietor: CEP Innovation, France
Tree: medium-high vigour, standard-upright growth habit.
Productivity: high and consistent, with early entrance into full production.
Fruit: round symmetric, yellow with 80-90% red blush; sweet flavour, very good, intense aroma; yellow flesh, melting and crisp; size A-AA.
Overall: variety with high and consistent yield, with flavourful attractive fruit; no cracking at stem end or calyx cavity

**PLATINET 1***
(white nectarine)
Ripening date: -22 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Plantinova, Spain
Tree: medium vigour, standard growth habit.
Productivity: good.
Fruit: flat, symmetrical, medium...
size (average fruit weight 90 g), creamy white with 80% bright red blush, speckled and veined; white flesh sometimes veined with red, firm, pleasant very sweet flavour (14°Brix); tolerates handling well. **Overall:** variety of interest for early ripening date, productivity and fruit flavour.

**PLATINET 2**
(yellow nectarine)
Ripening date: -18 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Plantinova, Spain
Tree: medium vigour, standard growth habit. 
Productivity: high
Fruit: flattened symmetrical shape, round in cross-section, large fruit size, yellow skin with 70% marbled bright red blush; yellow firm flesh, pleasant very sweet flavour (15°Brix); tolerates handling very well. **Overall:** variety of interest for harvest timing, as it follows Platinet 1, with yellow-fleshed fruits of excellent flavour and size.

**SAUZEE® ZAI698PBS**
(white peach)
Ripening date: -12 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-upright growth habit. 
Productivity: high and consistent, early bearer, select for vigorous mixed wood at pruning time.
Fruit: flattened symmetrical shape, round in cross-section, large fruit size, white skin with 90-100% red blush; good flavour, aromatic, firm and juicy flesh. **Overall:** very early variety, of interest for harvest timing.

**PLATINET 3**
(white nectarine)
Ripening date: +11 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Plantinova, Spain
Tree: high vigour, standard growth habit. 
Productivity: high and consistent.
Fruit: flat, symmetric, large size (average fruit weight 105 g), white with 75% bright red marbled blush, veined; white flesh, freestone, firm, excellent sweet flavour (14°Brix); withstands handling very well. **Overall:** variety of interest for flavour, productivity, and tolerance of handling.

**PLATINET 4**
(white nectarine)
Ripening date: +26 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Plantinova, Spain
Tree: medium-high vigour, standard growth habit.
Productivity: good and consistent.
Fruit: flat, symmetrical, large size (average fruit weight 115 g), white with 80% bright red blush, veined; white flesh, freestone, firm, excellent sweet flavour (15°Brix); withstands handling very well. **Overall:** flat white-fleshed nectarine, of large size and good flavour.
rest for fruit appearance and ability to hold on the tree, the peduncular cavity does not cause problems at harvest. Good flavour and juiciness.

SAUZEE®ZAI667PBS* (white peach)
Ripening date: -35 Redhaven
Origin: Zaiger, USA
Editor: IPS, France
Tree: high vigour, standard growth habit.
Productivity: high and consistent, early bearing.
Fruit: flattened symmetric shape, round in cross-section, large size, white skin with 90% red blush, good flavour, aromatic, firm and juicy flesh.
Overall: very early variety with large fruits, very intense colour. No problems with peduncular cavity, possible presence of some splits in a very low percentage depending on the year.

SAUZEE®ZAI665PBS* (white peach)
Ripening date: +8 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-upright growth habit.
Productivity: high and consistent, with early bearing, at pruning time select for vigorous mixed wood and spurs
Fruit: flattened symmetric shape, round in cross-section, large size, white skin with 90% light red blush, good flavour, aromatic, firm and juicy flesh.
Overall: variety of interest for fruit appearance and productivity, holds well on the tree, the peduncular cavity does not cause problems at harvest.

SAUZEE®ZAI660PBS* (white peach)
Ripening date: +33 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-upright growth habit.
Productivity: high and consistent, early bearer, at pruning time select for short mixed wood and spurs
Fruit: flattened symmetrical shape, round in cross-section, large size, white skin with 90% light red blush, good flavour, aromatic, firm and juicy flesh.
Overall: variety of interest for fruit appearance, size and productivity, holds well on the tree, the peduncular cavity does not cause problems at harvest.
SAUZEE® ZAI682PBS* (white peach)
Ripening date: +43 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: high vigour, standard-open growth habit.
Productivity: high and consistent, early bearer
Fruit: flattened symmetrical shape, round in cross-section, large size, white skin with 90% light red blush, good flavour, aromatic, firm and juicy flesh.
Overall: variety of interest for fruit appearance, size and productivity, holds well on the tree, the peduncular cavity does not cause problems at harvest.

SAUZEE® ZAI699PBS* (white peach)
Ripening date: +63 Redhaven
Origin: Zaiger, USA
Proprietor: IPS, France
Tree: medium-high vigour, standard-open growth habit.
Productivity: high and consistent, early bearer.
Fruit: flattened symmetric shape, round in cross-section, large size, white skin with 70% light red blush, pleasant flavour, aromatic, firm and juicy flesh.
Overall: late variety of interest for fruit appearance, size and productivity, holds well on the tree, the peduncular cavity does not cause problems at harvest. Stores well.

SWEET CAP® Maillarflat* (white peach)
Ripening date: +18 Redhaven
Origin: Maillard, France
Proprietor: Europépinières, France
Tree: high vigour, upright growth habit.
Productivity: high and consistent in all areas of production.
Fruit: symmetric, greenish-white with 70-80% marbled red blush; sweet flavour, very good, white flesh, melting, very firm; size AA-AAA.
Overall: variety with high and consistent yield, with large flavourful fruit; summer pruning should be used to encourage fruit colour.

UFO 2* (white peach)
Ripening date: -39 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Eleuteri, Italy
Tree: medium-high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: symmetric, white with 80% bright red blush; very pleasant sweet flavour; white flesh, melting, very firm; size AA.
Overall: variety with high and consistent yield, with large fruit of excellent flavour.

UFO 3* (white peach)
Ripening date: -27 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Plantinova, Spain
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: symmetric, greenish-white with 80% bright red blush; sweet flavour, very sweet (15° Brix); white melting flesh, very firm; size AA.
Overall: variety with high and consistent yield of large fruit with excellent flavour.
UFO 4*
(white peach)
Ripening date: 23 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Eleuteri, Italy
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: symmetric, greenish-white with 80% bright red blush; sweet flavour, very good (>14°Brix), white melting flesh, very firm; size AA (average fruit size about 120 g).
Overall: variety with high and consistent yield of large fruit with excellent flavour.

UFO 5*
(yellow peach)
Ripening date: 9 Redhaven
Origin: Nicotra and Conte, Italy
Proprietor: Plantinova, Spain
Tree: high vigour, standard growth habit.
Productivity: high and consistent.
Fruit: symmetric, yellow with 90-100% bright red blush; sweet flavour, very good (>15°Brix), melting yellow flesh, very firm; size AA (average fruit size about 110 g).
Overall: variety with high and consistent yield of large fruit with excellent flavour.

**UFO 6**
(yellow peach)
**Ripening date:** -2 Redhaven
**Origin:** Nicotra and Conte, Italy
**Proprietor:** Plantinova, Spain
**Tree:** high vigour, standard growth habit.
**Productivity:** good.
**Fruit:** flat, symmetric, medium-large size (fruit size 110 g), yellow skin with 70% bright red blush; yellow flesh, freestone, firm, good very sweet flavour (14°Brix); withstands handling very well.

Overall: productive variety, of interest for aromatic flavour, firmness and good fruit colour.

**UFO 7**
(yellow peach)
**Ripening date:** +39 Redhaven
**Origin:** Nicotra and Conte, Italy
**Proprietor:** Plantinova, Spain
**Tree:** medium-high vigour, standard growth habit.
**Productivity:** high and consistent.
**Fruit:** flat, symmetric, large size (fruit weight 135 g), yellow skin with 80% bright red blush; yellow flesh veined with red, freestone, firm, good flavour, very sweet (>15°Brix); withstands handling very well.
SAUZEE® ZA1660PBS*

Overall: yellow-fleshed variety characterized by high and consistent yield, of interest for excellent flavour and attractive fruit (large and colourful).

**UFO 8**  
(yellow peach)  
Ripening date: +67 Redhaven  
Origin: Nicotra and Conte, Italy  
Proprietor: Plantinova, Spain  
Tree: medium vigour, standard growth habit.  
Productivity: good  
Fruit: flat, symmetric, large size (fruit weight 130 g), yellow skin with 60% bright red blush; yellow flesh firm, very good sweet flavour (15°Brix); withstands handling very well.  
Overall: reliable producer, hardy tree, of much interest for excellent fruit flavour.

**UFO 9**  
(white peach)  
Ripening date: +74 Redhaven  
Origin: Nicotra and Conte, Italy  
Proprietor: Plantinova, Spain  
Tree: medium vigour, standard growth habit.  
Productivity: good  
Fruit: flat, usually symmetric, large size (fruit weight 130 g), creamy white with 60% bright red blush; white flesh, firm, very good sweet flavour (16°Brix); withstands handling well.  
Overall: variety of interest for harvest date, productivity and fruit flavour.
Canning peaches have yellow, compact flesh and are clingstone. They are grown in various regions of Italy and in other countries where peaches are produced. For their intense flavour, scent and density of flesh, canning peaches are well-suited for processing into juices, sauce, nectar and chunks with syrup. The table shows the most recent and most common varieties favoured by commercial processors.

## Varieties of Canning Peaches

<table>
<thead>
<tr>
<th>Variety</th>
<th>Ripening +/-</th>
<th>Vigor</th>
<th>Yield</th>
<th>Uses</th>
<th>Size</th>
<th>Skin Colour</th>
<th>% Blush</th>
<th>Flesh Colour</th>
<th>Red Pigment</th>
<th>Tolerance of Handling</th>
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<tbody>
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<td>High</td>
<td>Medium</td>
<td>F</td>
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<td>+42</td>
<td>High</td>
<td>High</td>
<td>P</td>
<td>Medium</td>
<td>Int. Yel.</td>
<td>0-10</td>
<td>Yellow</td>
<td>Absent</td>
<td>Very Good</td>
</tr>
</tbody>
</table>

*Int. Yel. = Intense Yellow / Yel. Or. = Yellow-Orange / Pale Yel. = Pale Yellow / Pale Or. = Pale Orange
F = Fresh / P = Processing
* Licensed by SARL CEP INNOVATION FRANCE
Nutritional measures to improve the production of Stone Fruits (peach, plum, apricot)

soil application

<table>
<thead>
<tr>
<th>Soil Application</th>
<th>Product</th>
<th>Active Ingredient</th>
<th>Dose</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUNGICROPS</td>
<td></td>
<td></td>
<td>4 l/ha</td>
<td>Cleans the lymphatic vessels and increases the radical absorption.</td>
</tr>
<tr>
<td>IDROL-VEG</td>
<td></td>
<td></td>
<td>40 l/ha</td>
<td>Stimulates vegetative development and improves the iron absorption</td>
</tr>
<tr>
<td>EVOL</td>
<td></td>
<td></td>
<td>30 l/ha per 1-2 times for the fruit enlargement. Improves the preservation and the shelf-life</td>
<td></td>
</tr>
</tbody>
</table>

foliar application

<table>
<thead>
<tr>
<th>Foliar Application</th>
<th>Product</th>
<th>Active Ingredient</th>
<th>Dose</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEVO-ENERGY</td>
<td></td>
<td></td>
<td>3 kg/ha</td>
<td>Biostimulant, enhances the vegetation growth. Prevents and cares from frost and spring stress</td>
</tr>
<tr>
<td>ENERFOL 8-10-45</td>
<td></td>
<td></td>
<td>3 kg/ha</td>
<td>Improves the fruit development and the resistance to high temperatures. Increases the berry degree</td>
</tr>
<tr>
<td>IDROL-VEG</td>
<td></td>
<td></td>
<td>1 l/ha</td>
<td>Improves the absorption and the effectiveness of pesticide treatments (acid pH)</td>
</tr>
<tr>
<td>EVOL</td>
<td></td>
<td></td>
<td>5 l/ha</td>
<td>3-6 times for the fruit enlargement. Improves the preservation and the shelf-life. Reduces the fruit weight loss</td>
</tr>
</tbody>
</table>

For further information please contact our Technical Department
L.E.A Srl Tel. +39 059 86.38.811 Fax +39 059 86.38.017 Email: info@leaagricoltura.it Web site: www.leaagricoltura.it

Pest and disease management for Peach

<table>
<thead>
<tr>
<th>Disease / Pest</th>
<th>Commercial Product Name</th>
<th>Active Ingredient</th>
<th>Dose</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>END OF DORMANCY THROUGH SWOLLEN BUDS</td>
<td>PREVENTION AND TREATMENT OF FERRIC CHLOROSIS</td>
<td>Sequestrene Life, Sequestrene NX138 Fe</td>
<td>CHELATED IRON EDDHA 6.2%, CHELATED IRON EDDHA 5.5%</td>
<td>30-50 g/tree for prevention, 60-150 g/tree for treatment</td>
</tr>
<tr>
<td>PREVENTION AND TREATMENT OF BACTERIAL CANKER (Xanthomonas pruni, Pseudomonas syringae)</td>
<td>COPRANTO WG</td>
<td>COPPER OXYCHLORIDE 32%</td>
<td>600-700 g/hl</td>
<td></td>
</tr>
<tr>
<td>PEACH LEAF CURL (Taphrina deformans)</td>
<td>MERPAN 80 WDG, SYLLIT 65 WG, POMAROSOL 80 WG</td>
<td>CAPTANO 80%, DODINA 65%, ZIRAM 80%</td>
<td>300 g/hl, 80-120 g/hl, 280-375 g/hl</td>
<td></td>
</tr>
<tr>
<td>PEACH LEAF CURL (Taphrina deformans)</td>
<td>DIFENCONAZOLO 25%</td>
<td>25-30 ml/hl</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PINK BUTTON</td>
<td>GREEN PEACH APHID (Myzus persicae)</td>
<td>TEPPEKI, Pirimicarb 17.5%</td>
<td>14, 200 g/hl</td>
<td></td>
</tr>
<tr>
<td>SAN JOSE SCALE (Comstockaspis perniciosa)</td>
<td>JUVINAL 10 EC</td>
<td>PYRIPROXYFEN 10%</td>
<td>40 g/hl</td>
<td></td>
</tr>
<tr>
<td>WHITE PEACH SCALE (Pseudaulacaspis pentagona)</td>
<td>POMAROSOL 80 WG, SYLLIT 65 WG, MERPAN 80 WDG</td>
<td>ZIRAM 80%, DODINA 65%, CAPTANO 80%</td>
<td>280-375 g/hl, 80-120 g/hl, 150 g/hl</td>
<td></td>
</tr>
</tbody>
</table>

Add mineral oil.
### WEEDS (BROAD-LEAVED AND GRASSY ANNUALS AND PERENNIALS)

<table>
<thead>
<tr>
<th>Commercial Product Name</th>
<th>Active Ingredient</th>
<th>Dose</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reglone®</td>
<td>DIQUAT 17%</td>
<td>3.3 - 5 l/ha</td>
<td></td>
</tr>
<tr>
<td>Touchdown®</td>
<td>GLYPHOSATE 27.9%</td>
<td>1.5-8 l/ha</td>
<td>Dosage depends both on sensitivity of the weed species and on the type of equipment used.</td>
</tr>
<tr>
<td>Fusilade Max®</td>
<td>FLUAZIFOP-P-BUTILE 13.4%</td>
<td>0.75-2 l/ha</td>
<td></td>
</tr>
</tbody>
</table>

### DISEASE / PEST

#### BLOOM

**BROWN ROT** *(Monilia laxa)*
- **Chorus®** | CYPRODINIL 50% | 30 g/hl |
- **Switch®** | CYPRODINIL 37.5% + FLUDIOXONIL 25% | 30 g/hl |

#### DISEASE / PEST

**BLOOM** *(Monilia laxa)*
- **Actara® 25 WG** | THIAMETHOXAM 25% | 15-20 g/hl |
- **Plenum® 50 WG** | PYMETROZINE 50% | 40 g/hl |

**PEACH TWIG BORER** *(Anarsia lineatella)*
- **Affirm®** | EMAMECTIN BENZOATE 0.95% | 250-300 g/hl |
- **Coragen** | CHLORANTRANILPROLE 18.4% | 20 ml/l |
- **Laser** | SPINOSAD 44.2% | 20-30 ml/l |

**PEACH TWIG BORER + APHIDS**
- **Luzindo®** | CHLORANTRANILPROLE 20% + THIAMETHOXAM 20% | 0.25 kg/ha |

**PEACH TWIG BORER** *(Anarsia lineatella)*
- **Karaté® Zeon®** | LAMBDA-CIALOTRINA 9.48% | 15-20 ml/l |
- **Karaté® Zeon® 1.5** | LAMBDA-CIALOTRINA 1.47% | 100-130 ml/l |

**THRIPS** *(Trips major, Taeniothrips meridionalis)*
- **Topas® 200 EW** | PENCONAZOLO 19% | 20-25 ml/l |
- **Tiovit® Jet®** | SULFUR 80% | 200-300 g/hl |

**POWDERY MILDEW** *(Sphaerotheca pannosa)*
- **Score® 25SC** | DIFENCONAZOLO 25% | 25-30 ml/l |

**PEACH LEAF CURL** *(Taphrina deformans)*
- **Pomarsol 80 WG** | ZIRAM 80% | 280-375 g/hl |
- **Syllit® 65 WG** | DODINA 65% | 80-120 g/hl |

#### EARLY FRUIT GROWTH THROUGH VERAISON

**MEALY APHID** *(Hyalopterus Amygdalae)*
- **Actara® 25 WG** | THIAMETHOXAM 25% | 15-20 g/hl |
- **Plenum® 50 WG** | PYMETROZINE 50% | 40 g/hl |

**THRIPS** *(Trips major)*
- **Vertimec® EC** | ABAMECTIN 1.84% (FOR VERTIMEC EC) | 75-100 ml/l |
- **Vertimec® Pro** | ABAMECTIN 1.75% (FOR VERTIMEC PRO) | Add BREAK-THRU® S 240 250 250 ml/ha or 0.1% mineral oil or suitable spreading agent. |

**POWDERY MILDEW** *(Sphaerotheca pannosa)*
- **Topas® 200 EW** | PENCONAZOLO 19% | 20-25 ml/l |

**PEACH TWIG BORER** *(Anarsia lineatella)*
- **Affirm®** | EMAMECTIN BENZOATE 0.95% | 250-300 g/hl |
- **Coragen** | CHLORANTRANILPROLE 18.4% | 20 ml/l |
- **Laser** | SPINOSAD 44.2% | 20-30 ml/l |

**ORIENTAL FRUIT MOTH, PEACH TWIG BORER, APHIDS**
- **Luzindo®** | CHLORANTRANILPROLE 20% + THIAMETHOXAM 20% | 0.25 kg/ha |

*continued from page 207*
<table>
<thead>
<tr>
<th>DISEASE / PEST</th>
<th>Commercial Product Name</th>
<th>Active Ingredient</th>
<th>Dose</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDITERRANEAN FRUIT FLY (Ceratitis capitata)</td>
<td>Karate Zeon’</td>
<td>LAMBDA-CIALOTRINA 9,48%</td>
<td>20-25 ml/ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Karate Zeon’1.5</td>
<td>LAMBDA-CIALOTRINA 1,47%</td>
<td>130-170 ml/ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TREBON UP</td>
<td>ETOFENPROX 30%</td>
<td>50 ml/ha</td>
<td></td>
</tr>
<tr>
<td>EUROPEAN RED MITE (Panonyx ulmi)</td>
<td>Vertimec’EC</td>
<td>ABAMECTIN 1,84% (VERTIMEC EC)</td>
<td>75-100 ml/ha</td>
<td>Add BREAK-THRU® S 240 250 ml/ha or 0,1% mineral oil or suitable spreading agent.</td>
</tr>
<tr>
<td>SILVER PEACH MITE (Aculus fockeui)</td>
<td>Vertimec’Pro</td>
<td>ABAMECTIN 1,75% (VERTIMEC PRO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEACH TWIG BORER (Anarsia lineatella)</td>
<td>Affirm’</td>
<td>EMAMECTIN BENZOATE 0,95%</td>
<td>200-250 g/ml</td>
<td></td>
</tr>
<tr>
<td>ORIENTAL FRUIT MOTH (Cydia molesta)</td>
<td>LASER</td>
<td>SPINOSAD 44,2%</td>
<td>20-30 ml/ha</td>
<td></td>
</tr>
<tr>
<td>BROWN ROT ON FRUIT (Monilia fructigena, Monilia laxa)</td>
<td>Score 25 EC’</td>
<td>DIFENCONAZOLO 25%</td>
<td>30 ml/ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Switch’</td>
<td>CYPRODINIL 37,5% + FLUDIOXONIL 25%</td>
<td>60 g/ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SIGNUM</td>
<td>PYRACLOSTROBIN 6,7% + BOSCALID 26,7%</td>
<td>60-75 g/ml</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DISEASE / PEST</th>
<th>Commercial Product Name</th>
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<th>Dose</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEDS (BROAD-LEAVED AND GRASSY ANNUALS AND PERENNIALS)</td>
<td>Reglone’W</td>
<td>DIBUT 17%</td>
<td>3,3-5 l/ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown’</td>
<td>GLYPHOSATE 27,9%</td>
<td>1,5-8 l/ha</td>
<td>Only in bearing orchards, for use with shielded equipment. Dosage depends on sensitivity of the weed species and on the type of equipment used.</td>
</tr>
<tr>
<td></td>
<td>Fusilade Max’</td>
<td>FLUAZIFOP-P-BUTILE 13,4%</td>
<td>0,75-2 l/ha</td>
<td></td>
</tr>
<tr>
<td>BACTERIAL CANKER (Xanthomonas pruni, Pseudomonas syringae)</td>
<td>Coprantol’WG</td>
<td>COPPER OXYCHLORIDE 32%</td>
<td>600-700 g/ml</td>
<td></td>
</tr>
<tr>
<td>PEACH LEAF CURL (Taphrina deformans)</td>
<td>POMARSOL 80 WG</td>
<td>ZIRAM 80%</td>
<td>280-375 g/ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DELAN 70 WG</td>
<td>DITHIANON 70%</td>
<td>100-150 g/ml</td>
<td></td>
</tr>
</tbody>
</table>

PRODUCTS OF THE SYNGENTA GROUP ARE IDENTIFIED WITH THEIR RESPECTIVE Logos.
THE FOLLOWING TABLES INCLUDE CROP PROTECTION PRODUCTS AUTHORIZED IN ITALY AT THE DATE THIS DOCUMENT WAS CREATED.
We enhance your experience

L.E.A. is an Italian manufacturer company of special fertilizers for plant nutrition, which operates in full compliance with the principles of environmental sustainability. Our products are made with natural raw materials ensuring the complete intake of nutrients and improving quality and production of any crop. We offer innovative and high-quality formulations, designed to naturally develop plant defenses with no impact.
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