

BARONA ®**ORIGIN :** PORTUGAL

Breeder : Mr. François Vez

Editor: International Plant Selection

PLANT BREEDER RIGHT (PBR): COV BAF008 in demand (2021)**FRUIT****Shape:** Fruit rounded, weak prominence of pad suture, short tip. Smooth shell, medium thickness, very good resistance to handling.

| 4 ^a sheet | 30mm | 32mm | 34mm | 36mm | 38mm | 40mm |
|----------------------|------|------|------|------|------|------|
| BARONA | | | | 20% | 64% | 16% |
| FERBEL | 2% | 6% | 37% | 33% | 5% | |

Very high size potential.

80% of the fruits have a size bigger than 38 mm

Average weight of 20g

Kernels: Extra light fleshy kernels (blond) and shiny with a majority of extra. Good filling of the shell, easy to shell, kernels of good taste quality.**Period of maturity:** Very early maturity from mid-September. SERR period, 5/6 days before FERBEL, 14 days before Chandler.

TREE

- Grow habit: Spreading
- Vigor: Medium vigor
- Bud burst: Early, SERR period, 14 days before Chandler. 5 days before Ferbel
- Fruiting type: 100% lateral fruiting, very early fruit setting, 2 to 5 nuts per inflorescence.

PRODUCTIVITY AND AGRONOMIC PERFORMANCE

Very high productive potential.

Production:

- 3^a leaf : 500kg/ha
- 4^a leaf : 2000kg/ha
- 5^a leaf : 3000kg/ha
- 6^a leaf : 5-6000 kg/ha

(Adult walnut grove. Plantation 7.5 x 4m, location SERPA-Portugal)

Crushing yield:

Very high yield of kernels 46-52% (Ferbel 46%, Franquette 42%).

FLOWERING

Flowering period: Femelle flower, early SERR, 4/5 days before Ferbel, 10/12 days before Chandler,

Pollination: Protandry variety to pollinate. Easy pollination with mid-season varieties: TULARE, HOWARD, CHANDLER. 3% pollinators are recommended. It is essential to combine pollinators dispersed in staggered rows.

Sensitivity to pests and diseases

At this stage of observation no particular sensitivity was observed to bacterial blight and anthracnose.

Tree management

Planting distance: We recommend planting distances in fruit hedges 7m-7.5m x 3.5-4m on the row.

Barona is very well suited to drive in hedge row.

Formation size: Central leader formation with green pruning to optimize production potential.

Harvest calendar

Harvest calendar: SERR period, early, 5/6 days before Ferbel, 10/12 days before Chandler from September 15th until the beginning of October.

Conservation:

-Storage for fresh nuts.

Temperatures below 4°C with a humidity of 90%

-Storage for nuts in shells.

Temperatures below 10°C with a hygrometry of 70%

-Storage of kernels.

Temperatures between 4°C and 7°C with a hygrometry of 70%

Suitability for processing:

- Easy shelling
- Destination: with its size for table walnuts, also very well suited to fresh walnuts and kernels.

General appreciation

This new variety is intended for areas with little frost and behaves very well in areas with medium chilling unit (~ 500h cold below 7.2°C). Very good behavior in the south of Portugal.

This characteristic allow Barona to establish itself in cultivation areas where traditional varieties are not productive enough and to extend the production area.

Its « extraordinary » average size, number of fruit per inflorescence, ease to pollinate and type of fruiting make Barona an exceptional and innovative variety in the current range.

Strong points:

- Caliber
- Productivity
- Precocity
- Adaptation to low chilling areas
- Quality of fruit
- Ease of pollination
- Type de fruiting

Weak points:

- Risk of frost in frosty areas

