

BARQUESA ®**ORIGIN :** PORTUGAL

Breeder : Mr. François Vez

Editor: International Plant Selection

PLANT BREADER RIGHT (PBR): COV BAF007 in demand**FRUIT****Shape:** broad ovate, fruits type Chandler, medium prominence of pad on suture, medium length of tip. Smooth shell, medium thickness, and good resistance to handling.

4 ^a sheet	30mm	32mm	34mm	36mm	38mm	40mm	42mm
BARQUESA				13%	35%	39%	13%
FERBEL	2%	6%	37%	33%	5%		

Very good size potential.

85% of the fruits have a size bigger than 38 mm

Average weight of 20g

Kernels: Extra light fleshy kernels, shiny with a majority of extra. Very good filling of the shell, easy to shell, perfumed kernels and of good taste quality.**Period of maturity:** Early maturity, the recollection period begins from end-September. FERBEL period, 6/7 days before CHANDLER.

TREE

- Growth habit: semi-upright
- Vigor: Strong, superior to Chandler, large leaves, red coloration of juvenile leaves
- Bud burst: midseason, 5 days after FERBEL, 4 days before CHANDLER
- Fruiting type: 100% fruiting on lateral branches, early fruit setting.

PRODUCTIVITY AND AGRONOMIC PERFORMANCE

Very high productive potential.

Production:

- 3^a leaf : 500kg/ha
- 4^a leaf : 1500kg/ha
- 5^a leaf : 3000kg/ha
- 6^a leaf : 4-5000 kg/ha

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

Crushing yield:

Very high yield of kernels 45-50% (Ferbels 46%, Franquette 42%).

FLOWERING

Flowering period: Female flower, 4/5 days after FERBEL, 4 days before Chandler

Pollination: Protandry variety to pollinate.

3-5% pollinators are recommended. It is essential to combine pollinators dispersed in staggered rows on the plantation to optimize production.

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 intensive planting distances of 7.5m x 4m.
Barquesa is very well suited to drive on central leader and for hedge row plantations.

Formation size: Central leader formation (recommended) to accelerate fruit setting and optimize production potential.

Harvest calendar

Harvest calendar: FERBEL period, 6/7 days before Chandler.
From September 25th until October 10th.

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 to shell

-Destination: due to its size intended for table walnuts, also very well suited for the fresh walnut and kernel market

General appreciation

This new variety type Chandler presents an important qualitative evolution with a higher dominant size, extra quality of kernel, lower need of chilling hours than Chandler (600) and excellent productivity.

The strong vigor of BARQUESA does not penalize its quick fruit set.

Its late budburst period (LARA period, 5/6 days after FERBEL) limits the risk of spring frost in risk areas.

It is important to ensure good pollination with late pollinators

Strong points:

-Size

-Productivity

-Quality of kernel

-Low chilling hours requirement (600h)

-late budburst

- Lateral fructification

