

# Carignan N

Wine grape variety.



## Origin

This variety is of Spanish origin (probably from the Aragon region).

## Use

Wine grape variety.

## Name of the variety in France

Carignan

## Synonymy

In Spain, Carignan is officially designated as "Mazuela". This synonym is officially recognized in France regarding plant propagation material.

## Regulatory data

In France, Carignan is officially listed in the "Catalogue of Vine varieties" on the A list and classified. This variety is also listed in the catalogues of other Member States of the European Union: Bulgaria, Cyprus, Greece, Malta, Portugal and Spain.

## Description elements

The identification is based on:

- the tip of the young shoot with a high density of prostrate hairs,
- the shiny yellow young leaves,
- the shoots with red striped internodes,
- the large adult leaves, with five lobes, shallow to deep lateral sinuses, a slightly open or closed petiole sinus, a twisted very gofferred leaf blade, on and the lower side of the leaves, a low density of prostrate hairs,
- the round-shaped or broad ellipsoid berries.

# Evolution of cultivated areas in France

Year	1958	1968	1979	1988	1998	2008	2018
ha	169712	211254	207103	176117	102317	73728	30993

## Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allele 1	141	223	239	178	186	252	240	247	249
Allele 2	143	225	239	182	188	260	254	257	251

### Cultivation and agronomic skills

Carignan has an erect bearing. This is a fertile variety which has a steady and often substantial production. It is easily trained and must be pruned short (gobelet, cordon). Carignan is well adapted to hot and dry areas, with fairly poor soil (shale for example). It also appears well adapted to windy areas. In terms of mineral absorption, Carignan is sometimes susceptible to potassium deficiency.

### Clonal selection in France

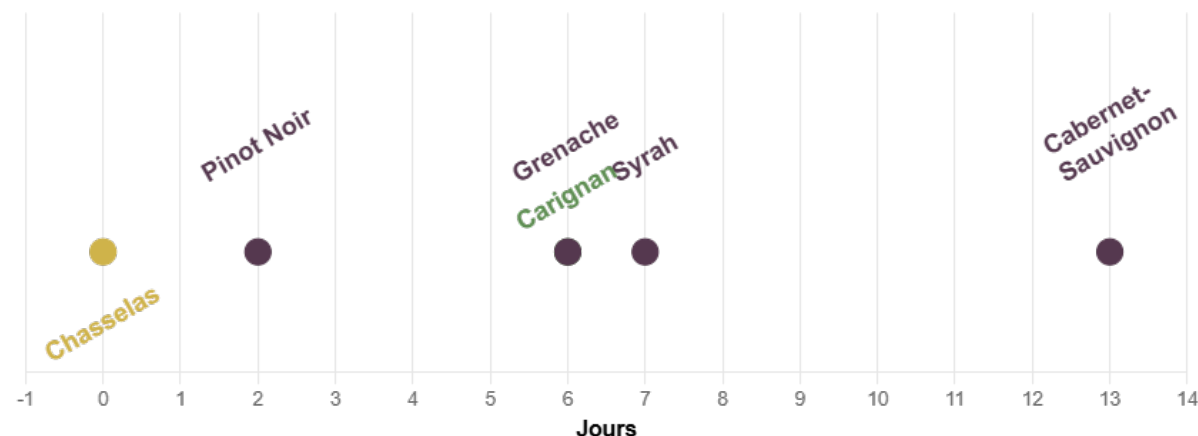
The twenty-five certified Carignan clones carry the numbers 6, 7, 8, 9, 62, 63, 64, 65, 66, 90, 151, 152, 153, 171, 178, 179, 270, 271, 272, 273, 274, 275, 276, 505 and 547. A conservatory of almost 300 clones was planted in the French department of Aude in 1998.

### Phenology

Bud burst: 6 days after Chasselas.

Grape maturity: late-season, 4 weeks and a half after Chasselas.

### Debourrement



### Technological potential

The bunches and berries are medium to large in size. Carignan has a moderate potential for sugar content and high color potential. The tannins are however harsh, herbaceous, bitter and the wines produced lack fruit and suppleness. These characteristics can be favorably corrected using carbonic maceration. This is oftentimes linked to the age of the vines, the production conditions and the terroir. Indeed, in poor fertile conditions, in good terroirs, with adult vines and limited production, the wines obtained can be powerful and generous.

### Susceptibility to Diseases and Pests

This variety is relatively unaffected by grey rot and is very little susceptible to phomopsis. On the other hand, its tremendous susceptibility to powdery mildew on the leaves and bunches is well known. It is also sensitive to vine leafhoppers.

## Maturité



## Bibliographic references

- Catalogue des variétés et clones de vigne cultivés en France. Collectif, 2007, Ed. IFV, Le Grau-du-Roi, France.
- Documentary collections of the Centre de Ressources Biologiques de la Vigne de Vassal-Montpellier, INRAE - Institut Agro Montpellier, Marseillan, France.
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