



## Chardonnay B



### Name of the variety in France

Chardonnay

### Origin

This variety is originally from Bourgogne (Burgundy) and based on published genetic analyses, would result from the crossbreeding of Pinot and Gouais blanc.

### Synonyms

There is no officially recognized synonym in France nor in the other countries of the European Union, for this variety.

### Legal information

In France, Chardonnay 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: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Germany, Greece, Hungary, Italy, Luxembourg, Malta, Netherlands, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden.

### Use

Wine grape variety.

### Evolution of cultivated areas in France

	1958	1968	1979	1988	1998	2008	2018
ha	7325	9805	13042	19869	33070	42017	54993

### Descriptive elements

The identification is based on:

- the tip of the young shoot with a low to medium density of prostate hairs,
- the green young leaves with bronze spots,
- the shoots with red internodes,
- the circular adult leaves, entire or with five lobes, with a slightly open petiole sinus, often naked petiole veins, short teeth compared to their width with straight sides, a slightly blistered leaf blade, and on the lower side of the leaves, a low density of erect hairs,
- the round-shaped berries.

## Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	135	232	239	178	188	244	238	216	239
Allel 2	141	236	243	186	196	246	254	227	271

## Phenology

Bud burst: 1 day before Chasselas.

Grape maturity: early-season, 1 week and a half after Chasselas.

## Suitability for cultivation and agronomic production

Chardonnay is generally pruned long. However, in areas with favorable climatic conditions for floral initiation, vines may also be pruned short. This variety is suited to moderately fertile soils with dominant limestone or marly. In Mediterranean areas, intense drought situations are to be avoided.

## Susceptibility to diseases and pests

Chardonnay is susceptible to powdery mildew and strongly express grapevine yellows. At the end of its maturation and under strong vigor conditions, grey rot may cause significant damage.

## Technological potentiality

The bunches and berries are small. This variety has an extremely high quality potential and is used to produce dry white wines, sparkling wines and even liqueur wines. The sugar content of the berries can reach high levels while maintaining high acidity. This is what enables the production of particularly well balanced, powerful and ample wines (full-bodied and with volume). The typical aromas are complex and intense (dried fruit, hazel nut, grilled flavor, exotic fruit, butter, etc). Chardonnay is also suited to barrel fermentation and barrel ageing.

## Clonal selection in France

The thirty-one certified Chardonnay clones carry the numbers 75, 76, 77, 78, 95, 96, 116, 117, 118, 119, 121, 122, 124, 125, 128, 130, 131, 132, 277, 352, 414, 415, 548, 549, 809, 1066, 1067, 1068, 1145, 1146 and 1147. A conservatory of more than 340 clones was planted in 1994 in the French department of Saône-et-Loire. An other conservatory of 53 clones was planted in the French department of Champagne in 2015.

## 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 - Montpellier SupAgro, Marseillan, France.
- Dictionnaire encyclopédique des cépages et de leurs synonymes. P. Galet, 2015, Ed. Libre&Solidaire, France.
- Traité général de viticulture, Ampélographie. P. Viala and V. Vermorel, 1901-1909, Ed. Masson, Paris, France.

## Description of clones certified in France

Clone no.	Identity and availability		Agronomic data		Technological data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar level</i>	<i>Color potential</i>
	<i>Year of certification</i>	<i>Agronomic references</i>	<i>Bunch weight</i>	<i>Vigor</i>	<i>Titriable acidity</i>	<i>Tannic structure</i>
	<i>Surface area used for propagation (year)</i>		<i>Berry size</i>	<i>Susceptibility to grey rot</i>	<i>Aromatic intensity</i>	<i>Oenological suitability</i>
75	Côte-d'Or	ENTAV	medium	medium to high	low to medium	

Clone no.	Identity and availability		Agronomic data		Technological data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar level</i>	<i>Color potential</i>
	<i>Year of certification</i>	<i>Agronomic references</i>	<i>Bunch weight</i>	<i>Vigor</i>	<i>Titration acidity</i>	<i>Tannic structure</i>
	<i>Surface area used for propagation (year)</i>		<i>Berry size</i>	<i>Susceptibility to grey rot</i>	<i>Aromatic intensity</i>	<i>Oenological suitability</i>
1971	Burgundy Champagne Languedoc	medium				
4.10 ha					balanced but neutral wines, diluted due to overproduction	

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76	Saône-et-Loire	ENTAV	medium	medium	medium to high	
	1971	Burgundy Champagne Languedoc Loire-Valley	low to medium	medium	medium	
	16.18 ha		low to medium			fine, aromatic, balanced, typical wines

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77	Saône-et-Loire	ENTAV				
	1971					

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Clone not widely distributed.

78	Côte-d'Or	ENTAV	medium to high	high	low	
	1971	Burgundy Champagne Loire-Valley	medium			
	4.44 ha					not very expressive as a still wine

ENTAV  INRA®

95	Côte-d'Or	ENTAV	medium	medium	medium to high	
	1971	Burgundy Champagne Languedoc	low to medium	medium to high	low to medium	
	12.59 ha		low to medium			fine aromas, a rich and balanced structure

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96	Côte-d'Or	ENTAV	medium	medium to high	medium to high	
	1971	Burgundy Champagne Languedoc Loire-Valley	high	high	medium to high	
	28.30 ha		medium			lively wines

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116	Côte-d'Or	ENTAV				
	1971					

ENTAV  INRA®

Clone not widely distributed.

117	Côte-d'Or	ENTAV				
	1971					

ENTAV  INRA®

Clone not widely distributed.

118	Côte-d'Or	INRA	high	high	medium	
	1971	Burgundy Champagne	medium			
	2.19 ha					representative wines of the variety

ENTAV  INRA®

119	Côte-d'Or	INRA	medium to high	medium to high	low to medium	
	1971	Burgundy	medium			
	0.94 ha					representative wines of the variety

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121	Côte-d'Or	INRA	medium	medium	medium	
	1971	Burgundy Champagne	medium to high	medium	medium	

Clone no.	Identity and availability		Agronomic data		Technological data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar level</i>	<i>Color potential</i>
	<i>Year of certification</i>	<i>Agronomic references</i>	<i>Bunch weight</i>	<i>Vigor</i>	<i>Titration acidity</i>	<i>Tannic structure</i>
	<i>Surface area used for propagation (year)</i>		<i>Berry size</i>	<i>Susceptibility to grey rot</i>	<i>Aromatic intensity</i>	<i>Oenological suitability</i>
3.42 ha		medium			aromatic, fine, typical and balanced wines	

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122	Côte-d'Or	INRA	medium	medium to high	medium	
	1971	Burgundy Languedoc	high			
	0.56 ha					representative wines of the variety

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124	Côte-d'Or	INRA	high	high	low to medium	
	1971	Burgundy Champagne	medium to high	medium to high	medium	
	5.82 ha					lively wines

ENTAV  INRA®

125	Côte-d'Or	INRA	high	high	medium	
	1971	Burgundy	medium			
						representative wines of the variety

ENTAV  INRA®

128	Côte-d'Or	INRA	medium to high	medium to high	medium to high	
	1971	Burgundy	medium to high			
	0.42 ha					representative wines of the variety

ENTAV  INRA®

130	Côte-d'Or	INRA	medium to high	medium to high	medium	
	1971	Burgundy Champagne Languedoc	medium			
	4.09 ha					representative wines of the variety

ENTAV  INRA®

131	Côte-d'Or	INRA	medium	medium to high	medium to high	
	1971	Burgundy Champagne	medium to high	medium	medium	
	4.02 ha		low to medium			lively wines

ENTAV  INRA®

132	Côte-d'Or	INRA	high	high	low to medium	
	1971	Burgundy Champagne	high			
	3.34 ha					representative wines of the variety

ENTAV  INRA®

277	Côte-d'Or	ENTAV	high	medium to high	medium	
	1973	Burgundy Loire-Valley	medium to high	medium to high	medium	
	9.21 ha		low to medium			balanced wines with mineral aromas

ENTAV  INRA®

352	Côte-d'Or	ENTAV				
	1975					

ENTAV  INRA®

Clone not widely distributed.

414	Côte-d'Or	ENTAV				
	1976					

ENTAV  INRA®

Clone not widely distributed.

415	Côte-d'Or	ENTAV				
	1976					

ENTAV  INRA®

Clone not widely distributed.

Clone no.	Identity and availability		Agronomic data		Technological data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar level</i>	<i>Color potential</i>
	<i>Year of certification</i>	<i>Agronomic references</i>	<i>Bunch weight</i>	<i>Vigor</i>	<i>Titration acidity</i>	<i>Tannic structure</i>
	<i>Surface area used for propagation (year)</i>		<i>Berry size</i>	<i>Susceptibility to grey rot</i>	<i>Aromatic intensity</i>	<i>Oenological suitability</i>
548	Saône-et-Loire	ENTAV	medium	low	high	
	1978	Burgundy	low	medium	medium to high	
	6.06 ha		medium			concentrated, balanced wines with complex aromas

ENTAV  INRA®

549	Non précisée	ENTAV	medium	medium	medium	
	1978	Burgundy	low to medium			
	0.10 ha					representative wines of the variety

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809	Saône-et-Loire	ENTAV	medium	low to medium	high	
	1985	Burgundy	low	medium	high	
	1.98 ha		low to medium			muscaté, fine and balanced wines

ENTAV  INRA®

1066	Côte-d'Or	ATVB - ENTAV	low to medium	very low	high	
	2003	Burgundy	very low		low to medium	
			low to medium			fine, typical, aromatic and well-structured wines

ENTAV  INRA®

1067	Côte-d'Or	ATVB - ENTAV	low	low	high	
	2003	Burgundy	low to medium		medium	
			medium			concentrated and balanced wines with complex aromas

ENTAV  INRA®

1068	Côte-d'Or	ATVB - ENTAV	low to medium	low to medium	high	
	2003	Burgundy	low to medium		medium	
			medium			muscaté aromas (more subtle following MLF), fine, a balanced structure

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1145	Saône-et-Loire	CA71 - IFV	medium	low to medium	high	
	2010	Burgundy	low to medium		low	
			low to medium	medium	medium to high	balanced wines with pronounced muscaté aromas

ENTAV  INRA®

Clone appreciated for its agronomic characteristics and the quality of the wines obtained.

1146	Saône-et-Loire	CA71 - IFV	medium to high	low	high	
	2010	Burgundy	low		low to medium	
			low	medium	high	balanced wines with pronounced muscaté aromas

ENTAV  INRA®

Moderate level of production and wines appreciated for their organoleptic characteristics. A little susceptible to millerandage.

1147	Saône-et-Loire	CA71 - IFV	medium	low to medium	high	
	2010	Burgundy	low to medium		medium	
			low to medium	low to medium	medium	concentrated and well-balanced wines

ENTAV  INRA®

Clone appreciated for its agronomic characteristics and the quality of the wines obtained. A little susceptible to millerandage.



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