



Gamay N



Name of vine variety in France

Gamay

Origin

Based on published genetic analyses, this variety is originally from Bourgogne (Burgundy) and is the result of a crossbreeding between Pinot noir N and Gouais B.

Synonymy

There is no officially recognized synonym for this variety in France. In Bulgaria, Gamay N can officially be called by the name "Gamay Noar".

Regulations

In France, Aligoté B is officially listed in the "Catalogue of Vine varieties". This variety is likewise listed in the Catalogues of other European Union member states: Belgium, Bulgaria, Cyprus, Spain, Italy, Luxembourg, Netherlands and Slovenia.

Use

Wine grape variety

Evolution of area under vines in France

	1958	1968	1979	1988	1998	2008	2016
ha	37806	36257	33869	33620	36653	35084	24211

Description

Identification signs include:

- the tips of the young shoot have a thin to moderate coat of flat-lying hairs,
- young leaves are yellow with bronze patches,
- herbaceous shoots with red internodes,
- orbicular adult leaves, whole or 5-lobed, with an open V-shaped petiolar sinus; short teeth compared to width at base, straight sides, upturned leaf blade and the underside has a very sparse coat of flat-lying and upright hairs,
- short elliptical-shaped berries.

Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	131	232	239	178	194	244	238	216	239
Allel 2	135	236	249	186	204	246	238	245	271

Phenology

Bud burst: same as Chasselas. Grape maturity: period I, 1 and 1/2 weeks after Chasselas.

Suitability for cultivation and agronomic production

Gamay N is a low vigour variety, weak but fertile. Its production must be managed because it has a tendency to peter out (particularly in highly fertile soils in warm climates). It is sometimes sensitive to millerandage under unfavorable weather conditions at flowering time. It is an early variety, sensitive to sunburn. Semi-erect to erect growth and preferably short pruned. Following spring frost, the shoots from the secondary buds are relatively fruitful. Tends to produce a high number of grappillons, small grape bunches.

Sensitivity to diseases and pests

Gamay N is sensitive to grey rot, phomopsis, wood disease, grape berry moths and grapevine yellows.

Technological potential

The clusters are small, rather compact and the berries of medium size. This variety produces, with the maceration of whole grapes, warm, fruity and moderately colorful, but not very tannic wines. This variety likewise produces elegant and fruity rosé wines.





Clonal selection in France























There are 38 approved Gamay clones which carry the numbers 102, 105, 106, 166, 167, 222, 282, 283, 284, 285, 355, 356, 357, 358, 359, 426, 427, 428, 488, 489, 490, 509, 510, 511, 512, 564, 565, 615, 616, 656, 657, 787, 1060, 1108, 1109, 1169, 1170 and 1227. A conservatory with 415 clones was planted in 2006 in the Rhône. To this was added 510 supplementary clones in 2010.













Bibliographic references

- Catalogue des variétés et clones de vigne cultivés en France. Collectif, 2007, Ed. IFV, Le Grau-du-Roi.
- Documentation interne du Domaine de Vassal. 1949-2011, INRA, Marseillan-plateau.
- Cépages et vignobles de France, tome 2. P. Galet, 1990, Ed. Dehan, Montpellier.
- Ampélographie. P. Viala et V. Vermorel, 1902-1910, Ed. Masson, Paris.

Description of clones approved in France

Clone number	Identity and availability		Agronomic data		Technical data	
	Origin	Selection	Fertility	Production level	Sugar content	Potential color
	Year approved	Agronomic references	Weight of grape bunches	Vigor	Total acidity	Tannic structure
	Growing surface area		Size of berries	Sensitivity to Botrytis	Aromatic intensity	Oenological aptitudes
102	Loir-et-Cher	ENTAV	medium to high	high	low	low
	1971	Beaujolais Val-de-Loire	high	medium	high	low to medium
			low to medium	medium		Frequently irregular in terms of quality
ENTAV  INRA  Productive clone						
105	Cher	INRA	medium to high	medium to high	low	
	1972	Beaujolais Val-de-Loire	high	medium to high	high	
			medium	medium to high		Balanced but not very fruity wines
ENTAV  INRA  Productive clone						
106	Nièvre	INRA	high	high	low	
	1972	Beaujolais Val-de-Loire	high	medium to high	high	

Clone number	Identity and availability		Agronomic data		Technical data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar content</i>	<i>Potential color</i>
	<i>Year approved</i>	<i>Agronomic references</i>	<i>Weight of grape bunches</i>	<i>Vigor</i>	<i>Total acidity</i>	<i>Tannic structure</i>
	<i>Growing surface area</i>		<i>Size of berries</i>	<i>Sensitivity to Botrytis</i>	<i>Aromatic intensity</i>	<i>Oenological aptitudes</i>
		high	high		balanced if yields are managed wines	
ENTAV  INRA  Productive clone						
166	Nièvre	INRA	medium	medium to high	low to medium	
	1972	Beaujolais Val-de-Loire	high	medium	medium	
			medium to high	medium to high		tannic wines lacking in finesse
ENTAV  INRA  Slightly trailing growth, rather late maturity and productive clone						
167	Non précisée	ENTAV	low to medium	medium	low	
	1972	Beaujolais	high	medium	high	
			high	medium		distinctive wines of the vine variety
ENTAV  INRA  Productive clone with low qualitative potential						
222	Loir-et-Cher	ENTAV	medium to high	medium to high	medium	low to medium
	1973	Beaujolais Bourgogne Val-de-Loire	medium to high	medium	medium to high	medium
	5.25 ha		medium	medium		distinctive wines of the vine variety, which are balanced and fruity
ENTAV  INRA  Clone is oftentimes used as the base regional grape variety for fruity wines while limiting production. Adapted to primeur wine production.						
282	Loir-et-Cher	ENTAV	medium to high	medium to high	medium	low to medium
	1973	Beaujolais Bourgogne Val-de-Loire	medium to high	medium to high	medium	medium
	2.53 ha		medium	medium		distinctive wines of the vine variety, which are balanced and fruity
ENTAV  INRA  Control yield to obtain good quality. Clone adapted to primeur wine production.						
283	Loir-et-Cher	ENTAV	medium to high	high	low	
	1973	Beaujolais	high	medium	high	
			medium to high	medium to high		distinctive wines of the vine variety
ENTAV  INRA  Productive clone with low qualitative potential.						
284	Loir-et-Cher	ENTAV	high	high	low to medium	low to medium
	1973	Beaujolais Bourgogne Val-de-Loire	high	medium to high	medium to high	low
	2.43 ha		medium	medium to high		balanced and lower standard for this grape variety
ENTAV  INRA  Control yield, rather late maturity clone reserved to early maturity and not very fertile regions.						
285	Loir-et-Cher	ENTAV	medium to high	medium to high	low to medium	low
	1973	Beaujolais Val-de-Loire	medium to high	medium to high	low to medium	low
			medium to high	medium to high		very low structure wines
ENTAV  INRA  Excessively limited qualitative potential.						
355	Loir-et-Cher	ENTAV	high	high	low	
	1975	Beaujolais	medium to high	medium to high	high	
			high	high		distinctive wines of the vine variety
ENTAV  INRA  Productive clone with low qualitative potential.						
356	Loir-et-Cher	ENTAV	high	high	low	low
	1975	Beaujolais Val-de-Loire	high	high	high	low
	0.71 ha		medium to high	medium to high		low constitution and acid wines
ENTAV  INRA  Control yield, rather late maturity clone to be reserved in very early maturity and not very fertile regions.						
357	Loir-et-Cher	ENTAV	medium to high	medium to high	low to medium	low to medium
	1975	Beaujolais	medium to high	medium to high	medium to high	low to medium
			high	medium to high		fruity and not very structured wines
ENTAV  INRA  Clone of very little interest compared to already propagated clones.						
358	Loir-et-Cher	ENTAV	low to medium	medium	medium to high	medium

Clone number	Identity and availability		Agronomic data		Technical data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar content</i>	<i>Potential color</i>
	<i>Year approved</i>	<i>Agronomic references</i>	<i>Weight of grape bunches</i>	<i>Vigor</i>	<i>Total acidity</i>	<i>Tannic structure</i>
	<i>Growing surface area</i>		<i>Size of berries</i>	<i>Sensitivity to Botrytis</i>	<i>Aromatic intensity</i>	<i>Oenological aptitudes</i>
1975	Beaujolais Bourgogne Val-de-Loire	medium	medium	medium	medium	
4.04 ha		medium	medium to high		balanced, aromatic and fairly full-bodied wines	
ENTAV  Good potential, intermediary between fruity and structured wines.						
359	Loir-et-Cher	ENTAV	medium	medium	medium	
	1975	Beaujolais	medium to high	medium to high	medium	
			high	medium to high		distinctive wines of the vine variety
ENTAV  Productive clone with low qualitative potential.						
426	Non précisée	ENTAV				
	1976					
						distinctive wines of the vine variety
ENTAV 						
427	Non précisée	ENTAV	low to medium	medium	medium	
	1976	Beaujolais	high	medium	medium	
			medium to high	medium to high		distinctive wines of the vine variety
ENTAV  Productive clone with low qualitative potential.						
428	Loir-et-Cher	ENTAV	low to medium	medium	low to medium	low
	1976	Beaujolais	medium to high	high	low to medium	low
			medium to high	medium to high		wines with very light structure
ENTAV  Productive clone with low qualitative potential						
488	Nièvre	INRA	high	high	low	
	1976	Beaujolais Val-de-Loire	high	high	high	
			medium	medium to high		light wines
ENTAV  Very productive clone						
489	Nièvre	INRA	high	high	low to medium	
	1976	Beaujolais Val-de-Loire	medium to high	medium	medium	
			high	medium to high		balanced wines
ENTAV  Productive clone with limited qualitative potential						
490	Nièvre	INRA	high	medium to high	low to medium	
	1976	Beaujolais Val-de-Loire	medium	medium	medium	
			medium	medium to high		light wines
ENTAV  Productive clone with limited qualitative potential						
509	Allier	ENTAV	low	low	high	medium
	1976	Beaujolais Bourgogne Val-de-Loire	medium	medium	low	medium to high
	6.80 ha		medium	medium to high		balanced, aromatic and full-bodied wines
ENTAV  Early maturity clone, not very productive with low acidity and appreciated in Beaujolais wines. Well adapted for the production of wines with ageing potential. Avoid areas and blending with root stocks promoting early maturity.						
510	Rhône	ENTAV	medium	medium	low to medium	
	1976	Beaujolais	medium	high	high	
			medium to high	medium to high		distinctive wines of the vine variety
ENTAV  Productive clone and low quality						
511	Côte-d'Or	ENTAV	high	high	low	
	1976	Beaujolais	high	high	high	
			high	high		distinctive wines of the vine variety
ENTAV  Productive and late maturity clone						
512	Côte-d'Or	ENTAV	high	high	low	
	1976	Beaujolais	high	high	medium	
			medium to high	high		distinctive wines of the vine variety
ENTAV  Productive and late maturity clone						

Clone number	Identity and availability		Agronomic data		Technical data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar content</i>	<i>Potential color</i>
	<i>Year approved</i>	<i>Agronomic references</i>	<i>Weight of grape bunches</i>	<i>Vigor</i>	<i>Total acidity</i>	<i>Tannic structure</i>
	<i>Growing surface area</i>		<i>Size of berries</i>	<i>Sensitivity to Botrytis</i>	<i>Aromatic intensity</i>	<i>Oenological aptitudes</i>
564	Loir-et-Cher	ENTAV	low to medium	medium	medium	
	1978	Beaujolais	medium to high	medium	medium to high	
			medium	medium		distinctive wines of the vine variety
ENTAV INRA [®] Productive clone with low qualitative potential						
565	Allier	ENTAV	medium	low	high	high
	1978	Beaujolais Bourgogne Val-de-Loire	low	high	medium	high
	2.18 ha		medium	low to medium		colorful, aromatic and full-bodied wines
ENTAV INRA [®] Early maturity clone with lobed leaves. Appreciated for its low yields and its capacity for producing wines with ageing potential.						
615	Non précisée	ENTAV	medium	high	low	
	1979	Beaujolais	high	medium to high	high	
			high	medium to high		distinctive wines of the vine variety
ENTAV INRA [®] Productive clone with low qualitative potential						
616	Non précisée	INRA	low to medium	medium	medium	low to medium
	1979	Beaujolais	medium	high	medium to high	medium
			medium to high	low to medium		Acidic wines with medium structure
ENTAV INRA [®] Quite late maturity clone reserved to very early maturity and poor soil areas						
656	Rhône	ENTAV	medium	medium to high	medium to high	medium to high
	1980	Beaujolais Val-de-Loire	high	medium	medium	high
	2.48 ha		medium to high	low to medium		Colorful, refined, aromatic and complex wines
ENTAV INRA [®] Drooping, production level needs to be controlled in order to obtain good qualitative expression. Clone adapted to making primeur wines and wines with ageing potential.						
657	Rhône	ENTAV	medium	medium to high	low to medium	low
	1980	Beaujolais	medium	low to medium	medium to high	low
			medium to high	medium		acidic wines, weak structure
ENTAV INRA [®] Late maturity and low quality clone						
787	Rhône	ENTAV	high	medium	high	medium
	1984	Beaujolais Val-de-Loire	medium	medium	medium	high
	5.10 ha		medium	medium		balanced, refines and aromatic wines
ENTAV INRA [®] Compact grape clusters with slight millerandage. Wines appreciated in wine tastings. Clone adapted to making wines with ageing potential.						
1060	Loir-et-Cher	SICAREX Beaujolais - ENTAV	medium to high	medium	medium	medium
	2001	Beaujolais	medium	medium	medium to high	high
	1.06 ha		medium	medium		colorful, fruity, fatty and tannic wines
ENTAV INRA [®] Intermediate yield. Wines appreciated in wine tastings. Clone adapted to making wines with ageing potential						
1108	Loire	SICAREX Beaujolais - ENTAV	low	low	medium to high	medium to high
	2006	Beaujolais	low to medium	medium	medium	medium to high
			medium	medium		balanced, structured and aromatic wines
ENTAV INRA [®] Upright growth. Wines appreciated in wine tastings						
1109	Loire	SICAREX Beaujolais - ENTAV	low	low	high	high
	2006	Beaujolais	low to medium	medium	medium to high	high
	0.01 ha		medium	medium		colorful and aromatic wines with good tannic structure
ENTAV INRA [®] Moderately productive clone with upright growth. Wines appreciated in wine tastings. Clone adapted to making wines with ageing potential						
1169	Beaujolais	Sicarex Beaujolais - IFV	low	low	high	high
	2011	Beaujolais	medium	medium	medium	high
			medium to high	low		well balanced, colorful and structured wines
ENTAV INRA [®] Small volume producer clone, small loose grape clusters with very ovoid shaped berries; good tolerance to rot; fairly early maturity. Superior taste quality wines displaying a good balance between aromas and structure.						

Clone number	Identity and availability		Agronomic data		Technical data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar content</i>	<i>Potential color</i>
	<i>Year approved</i>	<i>Agronomic references</i>	<i>Weight of grape bunches</i>	<i>Vigor</i>	<i>Total acidity</i>	<i>Tannic structure</i>
	<i>Growing surface area</i>		<i>Size of berries</i>	<i>Sensitivity to Botrytis</i>	<i>Aromatic intensity</i>	<i>Oenological aptitudes</i>
1170	Auvergne	Sicarex Beaujolais - IFV	higher	low	medium	medium
	2011	Beaujolais	high	medium	medium to high	medium to high
			medium	medium to high		balanced and structured wines
ENTAV INRA® Gamay d'Auvergne type clone, not very fertile but with large grape clusters and rather late maturity. Phenolic wine composition above or equal to Gamay clone 509, same as its taste quality						
1227	Beaujolais	Sicarex Beaujolais - IFV	medium to high	low	medium to high	high
	2015	Beaujolais	low	medium	medium to high	medium to high
			medium to low	low	high	colored wines with good tannins and long finish
ENTAV INRA® Clone less productive and late maturity. Less sensitivity to botrytis with small and loose clusters millerandage. Popular wine tasting.						



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