Gamay N

Name of vine variety in France
Gamay

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

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

Regulations
In France, Aligoté 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: Belgium, Bulgaria, Cyprus, Italy, Luxembourg, Netherlands, Portugal, Slovenia and Spain.

Use
Wine grape variety.

Evolution of area under vines in France

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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

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Phenology

Bud burst: same as Chasselas.
Grape maturity: early-season, 1 week and a half after Chasselas.

Suitability for cultivation and agronomic production

Gamay 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 adverse weather conditions at flowering time. It is an early variety, sensitive to heat. Gamay has semi-erect to erect bearing and should be pruned short. Following a spring frost, the shoots from the secondary buds are relatively fruitful. It tends to produce a high number of grappillons.

Sensitivity to diseases and pests

Gamay is sensitive to grey rot, phomopsis, wood disease, grape berry moths and grapewine 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, 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

- Documentation interne du Domaine de Vassal. 1949-2011, INRA, Marseillan-plage.

Description of clones approved in France

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<tr>
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**ENTAV INRA**

Productive clone

| 166 | Nievre | 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 |
| medium to high | medium to high | distinctive wines of the vine variety, which are balanced and fruity |
| 5.25 ha | medium | medium |

**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 | medium |
| medium to high | medium to high | distinctive wines of the vine variety, which are balanced and fruity |
| 2.53 ha | medium | medium |

**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 | low |
| high | medium to high | balanced and lower standard for this grape variety |
| 2.43 ha | medium | medium |

**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 | medium to low | low |
| 1973 | Beaujolais | Val-de-Loire | medium to high | medium to high | 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 | medium to high | distinctive wines of the vine variety |

**ENTAV INRA**

Productive clone with low qualitative potential.

| 356 | Loir-et-Cher | ENTAV | high | high | low |
| 1975 | Beaujolais | Val-de-Loire | high | high | low |
| high | medium to high | low constitution and acid wines |
| 0.71 ha | high | medium to high |

**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 |
| high | medium to high | fruity and not very structured wines |

**ENTAV INRA**

Clone of very little interest compared to already propagated clones.
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<td>Sicarex Beaujolais - IFV</td>
<td>higher</td>
<td>low</td>
<td>medium</td>
<td>medium</td>
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<tr>
<td>2011</td>
<td>Beaujolais</td>
<td></td>
<td>high</td>
<td>medium</td>
<td>low</td>
<td>medium to high</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>medium</td>
<td>medium to high</td>
<td>medium to high</td>
<td>balanced and structured wines</td>
</tr>
</tbody>
</table>

### Agronomic data

<table>
<thead>
<tr>
<th></th>
<th>Weight of grape bunches</th>
<th>Vigor</th>
<th>Total acidity</th>
<th>Tannic structure</th>
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<tbody>
<tr>
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</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>Size of berries</th>
<th>Sensitivity to Botrytis</th>
<th>Aromatic intensity</th>
<th>Oenological aptitudes</th>
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</thead>
<tbody>
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</tbody>
</table>

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.

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

Clone less productive and late maturity. Less sensitivity to botrytis with small and loose clusters millerandage. Popular wine tasting.