

Cultivar name: **DIVICO**

Parents: Gamaret x Bronner

Breeder: Jean-Laurent Spring

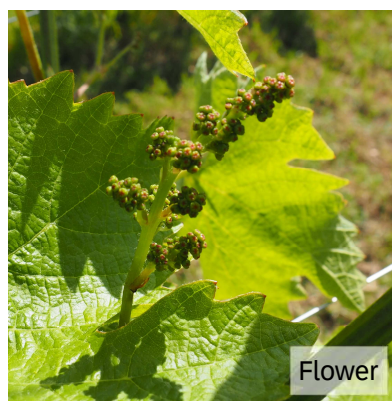
Resistance genes:

versus powdery mildew- Ren3.2

versus downy mildew- Rpv 10

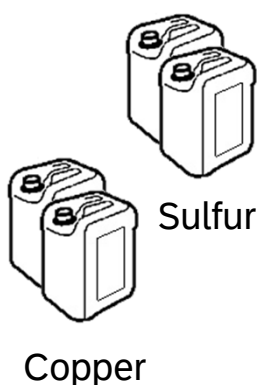
Planting year at the Institut Viti- vinicole: 2010

Powdery mildew and downy mildew are the two most destructive fungal diseases in viticulture. The cultivation of traditional grape varieties therefore requires extensive crop protection measures. Newly bred grape varieties, so-called PIWIs (fungus-resistant, abbreviation of the German term pilzwiderstandsfähig), exhibit greater resistance to the pathogens. As part of the [PIWI³](#) project funded by the Ministry of Agriculture, Food and Viticulture, the PIWI cultivars planted on the experimental plots of the Institut Viti-vinicole are examined in three dimensions: (1) agronomic, (2) economic, and (3) concerning their environmental impact. The well-known traditional varieties Pinot noir (for red varieties) and Rivaner (for white varieties) serve as comparisons.

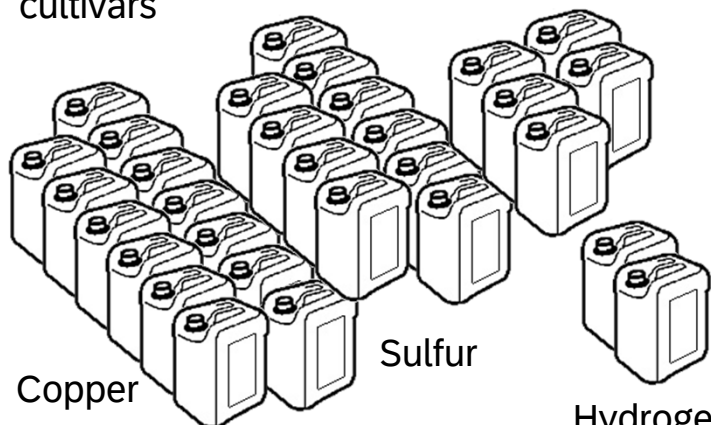


Expenses for crop protection (2023-2025, average)

PIWIs



Traditional cultivars



Phosphonate

Hydrogen-carbonate

Difference \approx 720€ per ha and season



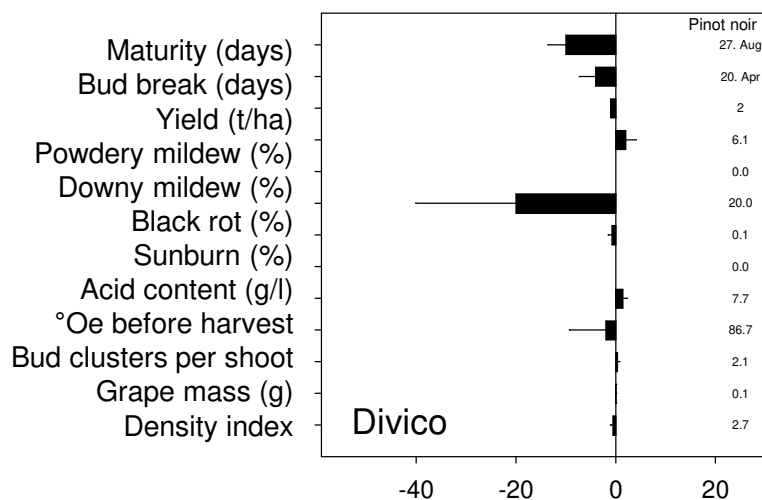
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Ministère de l'Agriculture,
de l'Alimentation et de la Viticulture
Institut viti-vinicole

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Agronomic comparison with traditional cultivar Pinot noir (2023-25)



Average difference compared with cultivar Pinot noir over the period 2023-2025

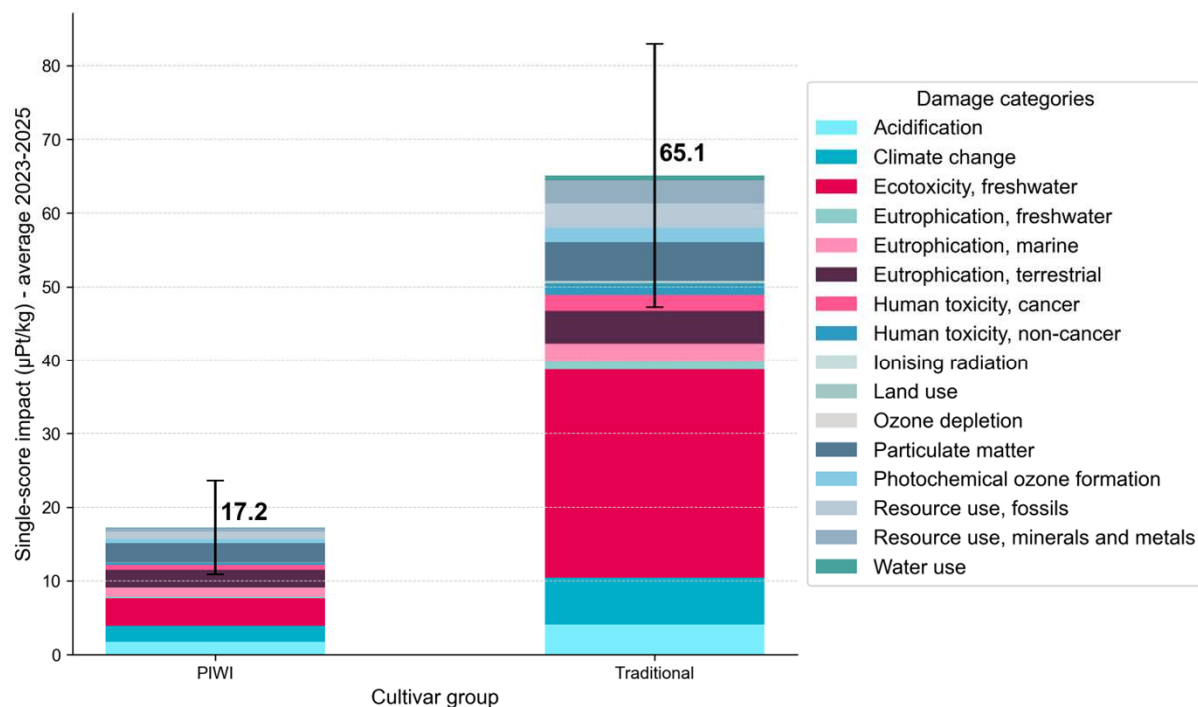
Chances:

- Low susceptibility towards
 - Downy mildew and
 - *Drosophila suzukii*
 allows significant savings in crop protection

Risks:

- Tendency towards early budbreak increases the risk of damage due to late frost
- Slight tendency towards low sugar content

Environmental impacts (2023-25)



Where can I taste wines made from PIWIs? → info@ivv.public.lu

This fact sheet was compiled within the project "Crop protection requirements, costs, and performance of fungus-resistant (PIWI) grape varieties under the growing conditions of Luxembourg (PIWI³)." The project was funded by the Ministry of Agriculture, Food and Viticulture.



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