

Cultivar name: **SOUVIGNIER**

Parents: Seyval Blanc x Zaehringer

Breeder: Norbert Becker

Resistance genes:

versus powdery mildew- Ren3, Ren9

versus downy mildew- Rpv3.2

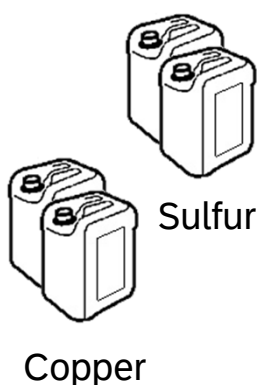
Planting year at the Institut Viti- vinicole: 2017

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 Institute 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.

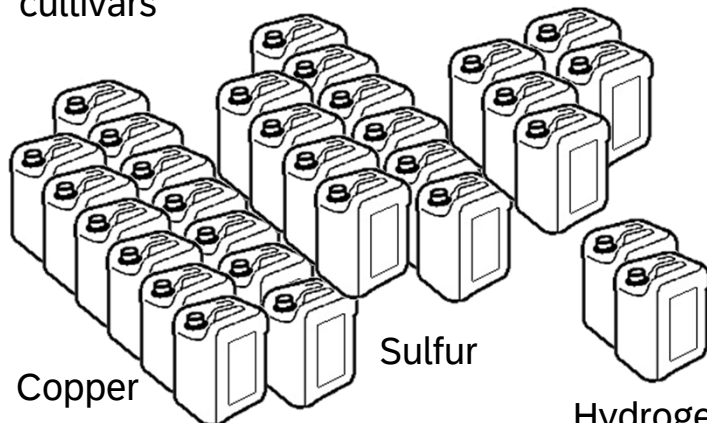


Expenses for crop protection (2023-2025, average)

PIWIs



Traditional cultivars



Phosphonate

Difference \approx 720€ per ha and season



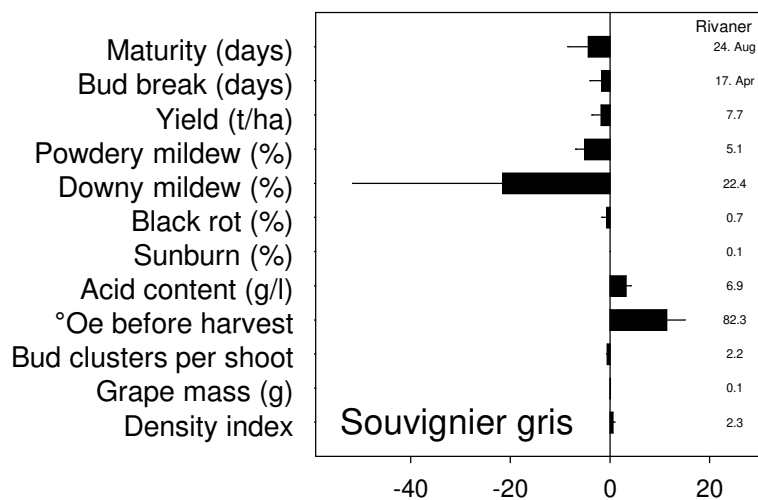
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Ministère de l'Agriculture,
de l'Alimentation et de la Viticulture
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Cultivar name: SOUVIGNIER GRIS

Agronomic comparison with traditional cultivar Rivaner (2023-25)



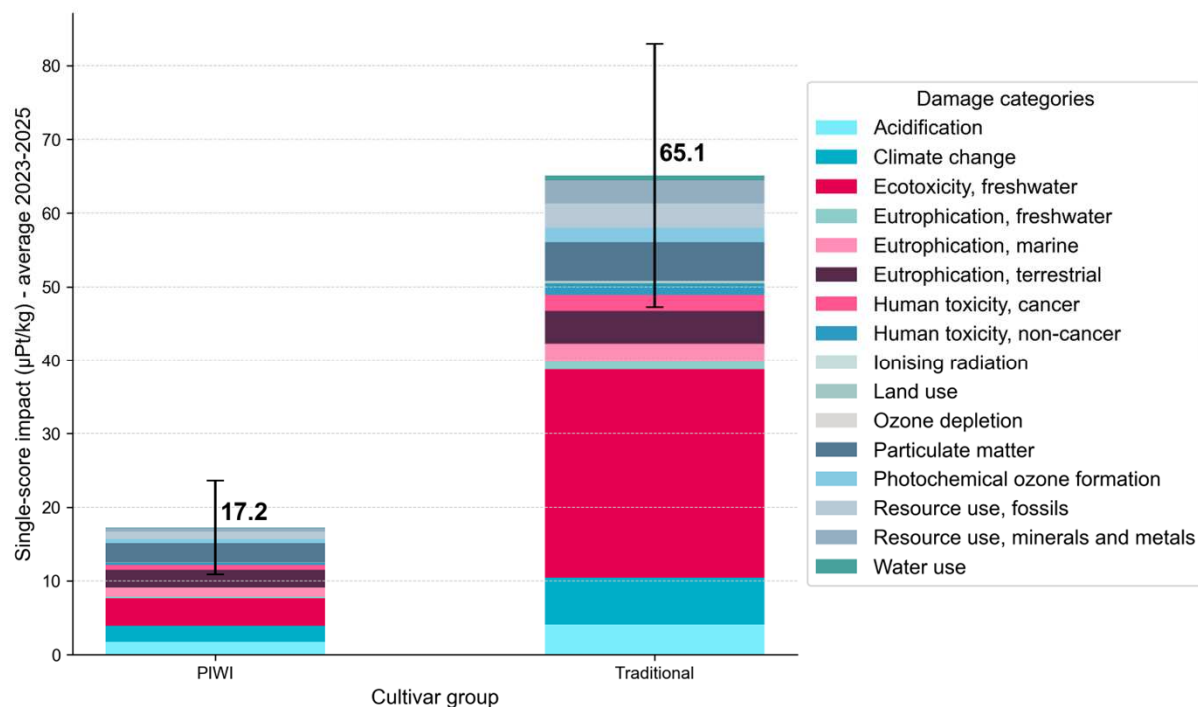
Chances:

- Very low susceptibility towards
 - Downy mildew
 - Powdery mildew and
 - Black rot
 allows significant savings in crop protection

Risks:

- Tendency towards early budbreak increases the risk of damage due to late frost events
- Relatively low yield in the test period 2023-2025
- Tendency towards high sugar contents

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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