



FUNGICIDE FOR CONTROL OF POWDERY & DOWNY MILDEW

A game change with the formulation of fatty acid, potassium soap. NSA has been in development for 7 years and is available now with full registration for grapes and is BioGro approved.

Three big improvements - NSA verse HML32

1. Compatibility - Mixes readily with Nordox and Norshield
2. Handling - Easy to Pour and is stable in formulation and spray mixture.
3. Pre-mixing is no longer required.

NSA – A Game changer with pouring, mixing and overall handling improved compared to HML32.



TRIAL RESULTS 2022/23

Excellent preventative results were obtained on both Powdery and Downy Mildew from a programme of a tank mixture combining:

- 1% NSA
- 30g Nordox 75 WG or 50g Norshield 45 WG /100L
- 300g Sulphur or (3kgs/Ha in the real world.)

Where curative activity was required for Powdery Mildew, the combination of 45g Cu/100L e.g. 60g Nordox 75WG with 1% NSA and 300-600g HML Potum was effective as a 2 spray strategy.

Where Downy Mildew is present in the vineyard increase the Cu rate to 100g/100L Norshield plus 1% NSA.

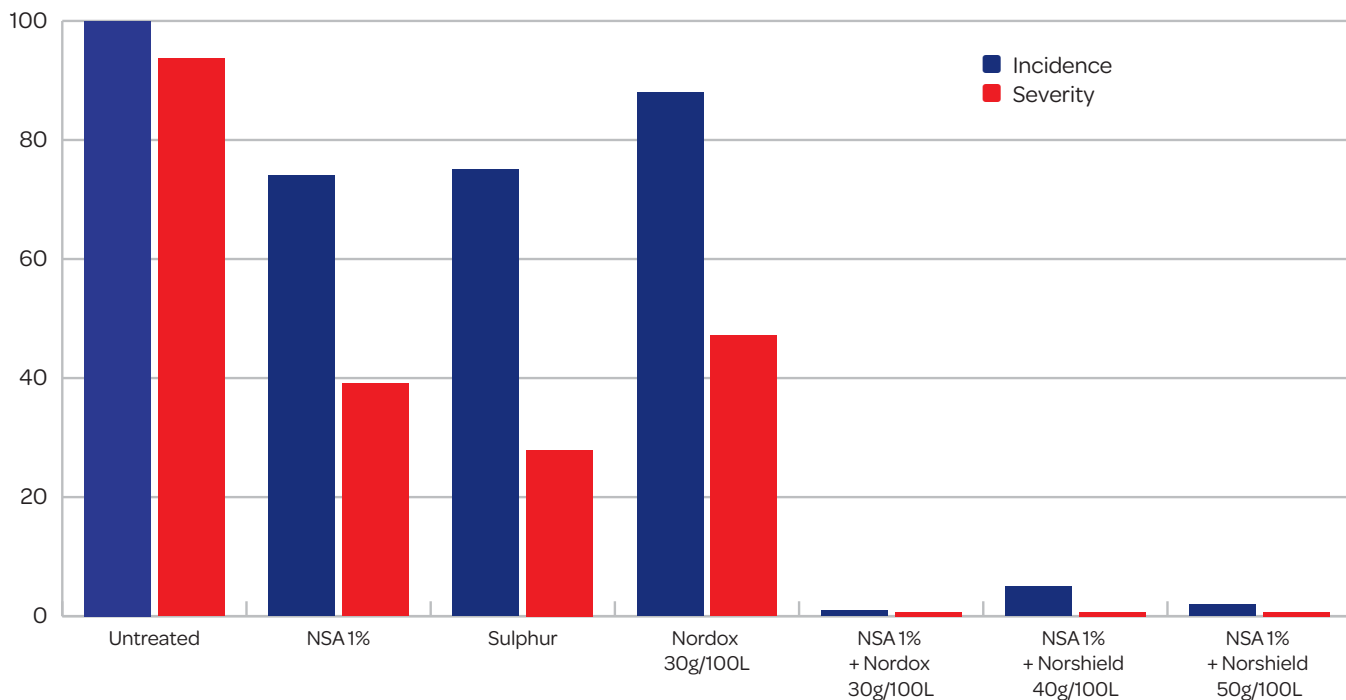
A FEW GENERAL REMINDERS

- Coverage is king! These products work by contact activity alone so tailor your water rate and target the problem accordingly as there are no translaminar, vapour or systemic properties to NSA.
- Never use NSA alone, always use in combination with either Cu, Sulphur, Potum or Silco or a combination of these depending on the situation. NSA alone has moderate Powdery and Botrytis activity and zero efficacy on Downy Mildew when used alone.
- For curative activity a minimum of 2 consecutive applications up to 7 days apart is recommended for best results
- No need to premix NSA with Cu before addition to the spray tank, the correct procedure is Cu first then add NSA last after Sulphur and/or HML Potum.
- Don't mix with nutritional products.
- Norshield 45 WG has demonstrated more activity on Downy Mildew in Europe than Nordox 75WG per gram of Cu so in a situation with established Downy mildew Norshield should be the first choice.



Graph illustrates protective efficacy against Powdery Mildew on bunches.

- Spray intervals determined by weather events. From 4 days to 13 days. Average 8 days.
- 12 applications start of flowering 26th October 2022 till pre-harvest 23rd January 2023.
- Pre-Bunch closure assessment at early veraison 31st January.

Trial – NSA Powdery Mildew Prevention

Trial conducted by Chris Henry. Trial location: Hawke's Bay 2022/23

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