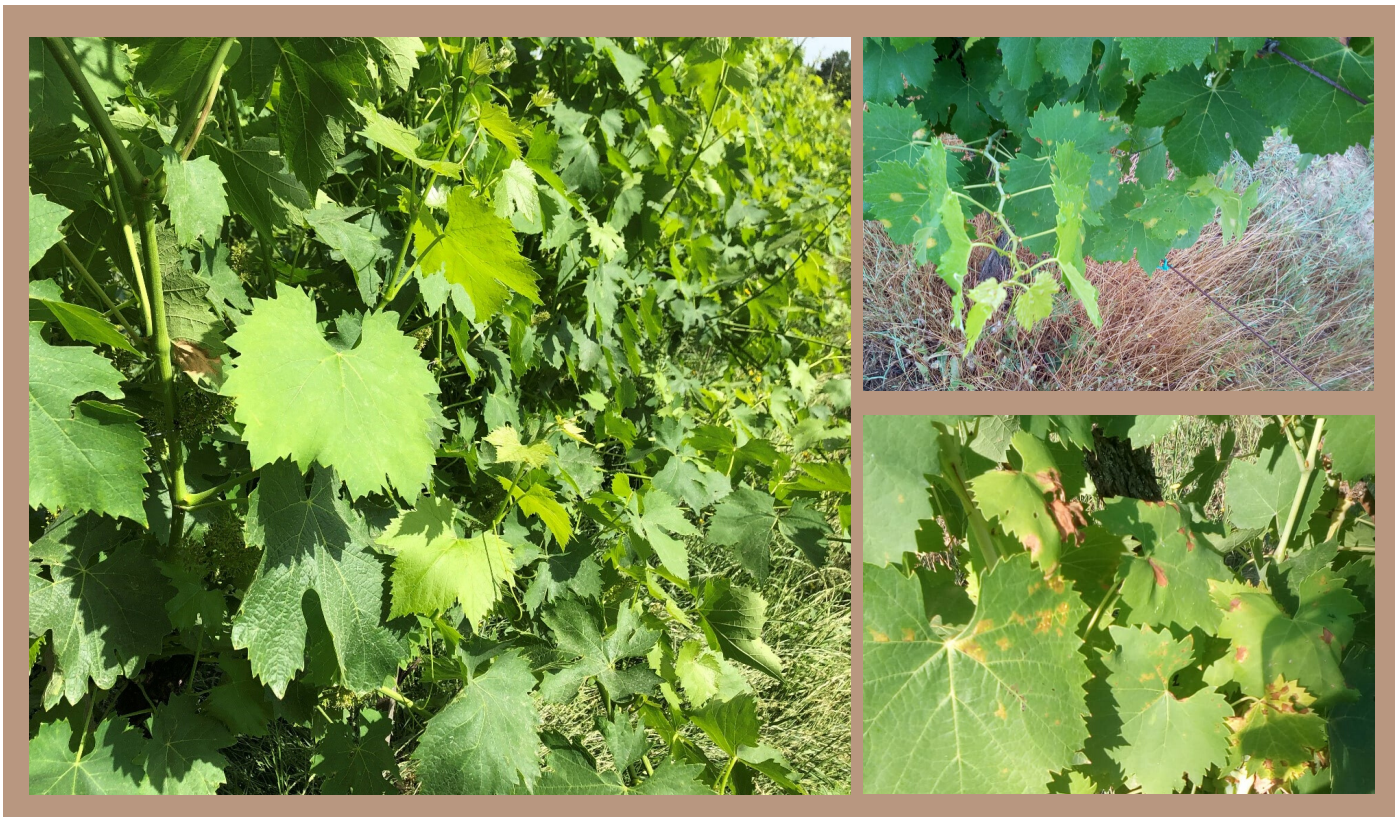
BioDea®

Wood Distillate

SCIENTIFIC STUDIES AND FIELD TESTS

Vineyard cultivation

AZIENDA AGRICOLA BARBAGLI FRANCESCO
Ciggiano - 6.000 sq.m.



The vineyard was treated weekly from early May until July inclusive, with spraying treatments at increasing concentrations of wood distillate, following the development of the leaf surface, going from a dilution of 1: 600 or 166 ml / hectoliter to a dilution of 1: 500 or 200 ml / hectoliter.
Two treatments of gr. 250 for the entire surface of sulfur powder were carried out between June and July.

Coverage from fungal pathogens was sufficient. Following the development of downy mildew, the widespread oil stains on the leaves dried up with a application of Wood Distillate in a dose of 1: 500 or 200 ml / hectolitre, blocking the development of the mushroom after the first treatment.

There have been no attacks on the cluster.

Quantity of crop spraying water: 110 L per treatment

FERDINANDO BARBAGLI,
Viciomaggio – sq.m. 8.500

Watch the video of this test on our YouTube channel: https://youtu.be/jYellGaUt5w

The vineyard has been divided into two areas; the fist one treated with the complete doses of phytoiatrics, normally used, while the second part, subject of field test, was treated with Wood Distillate, in association with the normally used products, gradually reducing the quantities up to 40%. The interventions in both areas had a targeted cadence, with interventions every 10 days in the first months between May and June, to switch to treatments every 15-17 days in July.
In the vineyard, copper and sulfuric products as well as systemic ones were. (RIFLE, ZOLFO IN POLVERE, TRICUP FLOW, FOLPAN, EMERAL COMBI OIDIO).

By maintaining the minimum allowed dose based on the development of the leaf surface, the quantities of phytophyric products were not increased in the experimental vineyard by introducing the Wood Distillate into the mixture in increasing doses.
Following the development of the leaf surface passing from a 1: 1200 dilution or 83 ml / hectoliter to a 1: 500 dilution or 200 ml / hectoliter, coverage from fungal pathogens was complete and total on both portions, resulting in savings of around 15/20% of the costs of pesticides used in the portion treated with Wood Distillate and a good vigor of the vegetation that persisted in October.

Quantity of crop spraying water: from 300 L to 700 L

AZ. AGR. TOSI - FATTORIA DI SAN LEO
Stroppiello - 5,500 sq.m.

Watch the video of this test on our YouTube channel: https://youtu.be/XjQ01oPDQtE

The organic vineyard treated with Wood Distillate, in the grape ripening stages, was hit in July by an important hailstorm that damaged the bunches and the leaf structure. By intervening two days after the event, with Wood Distillate, in a dose of 1:500 or 200ml/hl a total healing of both the affected berries and the damaged leaves occured, avoiding the development of very deleterious rot in the advanced state of maturation of the bunch.

Field tests

The development of pathogenic fungi did not occur on the treated vineyards. Given the organic nature of the product and its degradability, it is advisable to intervene on the vineyard in association and with a reduction of up to 50% of the plant protection products normally used. This strategy allows to reduce the costs of the treatments and to reduce possible chemical residues.

Evidence on Pittosporo plant, affected by sooty mold and treated with 3 cycles of Wood Distillate, every 3/4 days, dilution 167 ml in 100 liters of water. The photos show the plant before and after the treatment.

Field test

Another observed and currently under study activity is the effect of inducing the resistance of the plant stimulated by the distribution of the product. We verified that analyzing the oil of an olive grove treated for 3 years with Wood Distillate, it had a content of polyphenols gr./kg. 1.07 approximately 5 times higher than the average, making the nutraceutical product (average value 1.07 of gallic acid equivalent per kg of oil).

In the specific case, the olives and the oil analyzed were collected and squeezed the third week of October obtaining a yield of 21.9%, therefore certainly not at the expense of production and yield. This observation pushes us, even more specifically, to verify its effects on the content of antioxidant molecules, to protect the chemical stability in wine, in particular of white wines and the color and organoleptic properties of young wine.

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