



VINE

Post pruning sealing process:

We used two doses for tests, 500L/Ha and 800L/Ha, both achieving the same result. The only difference observed was that with 800L we obtained a faster response, managing to convert the drop into a jelly type and to cicatrize only by using ozone, without the presence of any other element.

Before treatments





After treatments



500L

800L

RESULTS



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HAZELNUT TREE

We used a dosis of 1.500 L/ha, managing to control green aphids (*Myzus persicae*), many of them died in the 20 minutes following the application, while the most adults died in a few hours (about 8) ; leaves looks better (greener than before).

BEFORE TREATMENT





AFTER TREATMENTSS
Small aphids immediately die





AFTER TREATMENTS (6-8 hours)
the most adults death

6 hours



12 hours



18 hours





APPLE TREE

We used a dosis of 1.500 L/ha , managing to obtain on the wooly apple aphid (*Eriosoma lanigerum*) a partial control , because trees were very contaminated. This treatment is still going on , nowadays only two ozone application have been done.

BEFORE TREATMENTS





AFTER TREATMENTS



In apple trees we are also monitoring a fungus called Venturia, which strongly attach them (very common in south America); but we still do not have samples that can give us conclusive results.



BLUEBERRY

We applied a dose of 800L at the beginning of flowering, increasing the dose to 1.000L, 1.200L. till the current 1,500L (with fruits on the tree), more similar to the doses we normally use. We treated with weekly applications, without high humidity and temperatures that not exceeded 25 degrees. It rained 2 times and we treated again after both of them.



Botrytis. We observed samples in a humid chamber and found that in those treated with ozone botrytis recurred on the 13th/14th day , in those not treated this recurred at day 7 or 8 .

NOT TREATED



TREATED



Flowering: we find, in the treated blueberries, a more accelerated flowering process than the untreated ones





Fruit set: the fruit set process on the treated plants was faster and more homogeneous, presenting fruits of the same size in a more advanced time compared to those not treated; in fact we estimate that the harvest of the fruit is postponed for at least 1 week, with only 6 applications of ozone.

NON TREATED SAMPLE



TREATED SAMPLE





Amount of fruit: we have observed that fruits have increased in quantity and size, but we can give more detailed data only after the harvest.

NON TREATED SAMPLE



TREATED SAMPLE





Plant vigour: there has been an increase in the plant vigour; treated plants are actually bigger than the untreated ones, they show an increase in the number of shoots and leaves that indicate the quantity of fruit that will be produced in the following season (development of the plant). According to this, the treated plants will present a better production in the following year, certainly higher than that of the untreated plants.

NON TREATED SAMPLE



TREATED SAMPLE







OLIVE TREE

We did a test on the olive trees to control a fungus called Repilo (*Fusicladium oleagineum*); we used a dose of 1,200 L/ha even if we already established that it should be higher, around 1,500 or 2,000 L; however, we had a good response, the Repilo returned on the 13th day in the untreated leaves while it did not recur in the treated ones. This shows an effective control on this fungus.

NON TREATED SAMPLE



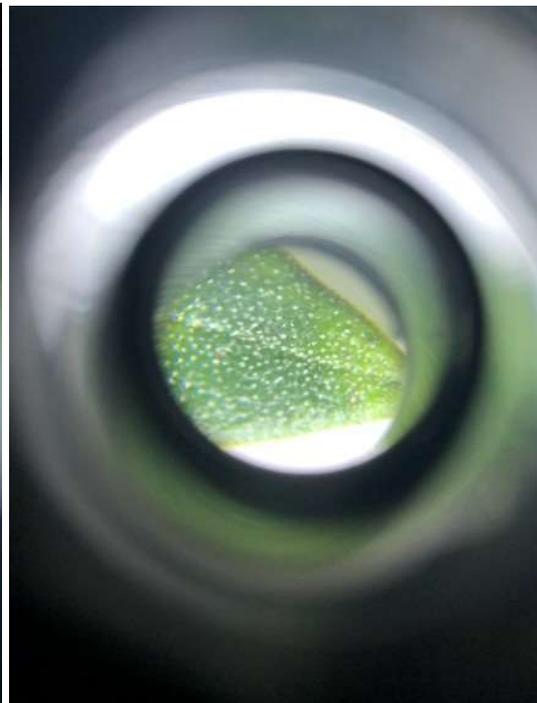
TREATED SAMPLE



NON TREATED SAMPLE



TREATED SAMPLE





STRAWBERRY (120L wheelbarrow sprayer)

Due to technical problems it was not possible to do more than a single application on strawberries, but despite the passage of time from the presentation of the problem to the date of the treatment, we noticed that even with only one application, we saw noticeable changes in the leaf. We will continue with new applications this week.





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