



Report

Products:

Penergetic-k & Penergetic-p

User:

Nepomukhof
Grassl Christian
Dorfstr. 2
AT-2464 Göttlesbrunn
Austria

Consultant:

Weber Agrar-& Umwelttechnik
Christof Weber
In den Islen 8
AT-6844 Altach
Austria

Date:

Status 2011

Field Report Viticulture Penergetic Application since 2006

Status 2011: Reduction of Conventional Pesticides by ca. 65%

The Nepomuk Farm – Our Home

Our farm and its vineyards are nestled in the charming Arbesthaler hills, right in the middle of the wine region of Carnuntum - a liveable region that also offers many special features.

When one thinks of Goettlesbrunn, one thinks of wine. And no other beverage reflects the land from which it comes to a higher degree. Carnuntum is an ideal testing ground for modern cultivation and vinification of red wines. The hot, sunny climate between the Danube and Lake Neusiedl, together with the clay, sand, gravel and loess-soil, create the conditions that give the wines their uniqueness.

The wine is in the truest sense of the word a natural product and the noblest embodiment of the spirit of nature. Through careful, selective harvesting of the grapes and a natural integrated management, we try to treat the wine respectfully in order to maintain its lightness and grandeur.

Our Assortment

The focus of our company is on the local Austrian grape variety Zweigelt, which has long since made a name for itself well beyond Austria. But we also produce the internationally known wines of the burgundy group, such Pinot blanc, Chardonnay, Pinot gris and Pinot noir, Merlot und Cabernet Sauvignon.

Of course we also have THE Austrian variety: the Grüner Veltliner, which is experiencing a renaissance at the moment and also is just now making an international breakthrough.

We vinify our wines traditionally (large wood and steel) and internationally (barriques).



Our Awards

- **Rubin Carnuntum 2006** - Falstaff 90 points (Falstaff is an Austrian magazine – www.falstaff.at)
- **Rubin Carnuntum 2007** - NÖ WEIN 2008 (North East Wine): among the best
- **Merlot 2006** - NÖ WEIN 2009: among the best. Falstaff 91 points
- **Exor 2007** (Zweigelt Reserve) - NÖ WEIN 2009: among the best. Falstaff 91 points. Salon Austria Wine 2010
- **Exor 2008** (Zweigelt Reserve) - Falstaff 91 points
- **Cuvée Nepomuk 2005** - Falstaff 91 points
- **Cuvée Nepomuk 2006** - Falstaff 90 points
- **Cuvée Nepomuk 2007** - Falstaff 90 points
- **Cuvée Nepomuk 2008** - Falstaff 92 points
- **Grüner Veltliner Selektion 2008** - Salon Austria Wine 2009
- **Grüner Veltliner Selektion 2009** - Salon Austria Wine 2010

Penergetic Applications since 2006

In 2006 some Penergetic products were added to the conventional synthetic chemical pesticides. The conventional pesticides were reduced by approximately 10%.

In 2007 a special spray schedule was developed together with Mr. Christof Weber and the conventional spray quantities could be reduced by 15 - 20%.

In 2008 more attention was paid to soil vitalization. The Penergetic spray schedule was adapted accordingly. Conventional pesticides already reduced between 30 - 40%.

In 2009 soil vitality was taken even more into account and the reduction of pesticides was increased to 50%.

In 2010, despite a very wet year, the conventional spray amount was reduced by 55%.

In 2011 soil vitalization and development of mycorrhiza were even more in focus. A 60% reduction of the conventional pesticides was planned.

In 2011 partly even a 65% reduction took place - with the very best results and savings!

Since application of the special spray schedule for viticulture in 2007 the treatments have always been cost-neutral. That is, the cost of the Penergetic products was covered by the reduction of conventional pesticides.

In the meantime it is even so that there is an extra profit of 190 Euros per hectare due to the substantial reduction of pesticides.

No additional work is needed for the Penergetic applications as the products are simply added to conventional sprayings with the exception of the area composting, i.e. soil treatment in autumn. Here a separate spraying is done after the harvest.

Normally leaf pulling is done one week after flowering with a device producing a pulsating airflow.

Due to the permanent plant coverage one can always drive in the vineyards. Like that diseases can be counteracted in time even with very wet conditions. Also soil erosion through wind and water can be kept at a minimum - on the contrary, actually. A build-up of humus is taking place.

Since 2003 no more spraying of acaricides (against mites).

Since 2009 no more spraying against botrytis.



No nitrogen fertilization was applied for about 10 years. For 2011 an application was planned. However, for the purpose of comparison some acres were not be treated conventionally, but only with the addition of Penergetic molasses. But because of the good development no nitrogen fertilization took place in 2011 after all.

Over the years, the soil has become looser with better crumbling structure. A greater diversity of species, such as vetch, has developed. Insect pests like the rust mite have declined. The vines became more vigorous and in particular more resistant to stress related disease and rapidly changing weather conditions.

The wine quality and also sales increased generally in recent years. Especially the white series have gained in fruitiness and fullness.

Generally speaking pesticides were decreased annually by about 10% since we started applying the Penergetic technology (2006 minus 10% - 2011 minus 65%).

In 2010 we leased an additional ca. 3 acres. Here the pesticides were reduced with 50% immediately without any loss of quality or quantity.

Aside from all the positive effects regarding vitality of the vines, aeration of the soil and increasing quality of the wines produced, there is extra annual profit of € 190 per ha. And I think the end is not yet in sight.



Christian Grassl 2011

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Grassl Christian
Dorfstr. 2
AT-2464 Göttlesbrunn
Austria
www.nepomukhof.at