

## **Production of food and drink water without plant protection compounds and without damaging of bee colonies is possible!**

The normally used plant protection strategies of the offices show only, that the official advisers don't want think 'integrated or biological'. They are not willing to work with other strategies, this even though the most damaging fungus, bacteria, insects, mites can killed easy and extensive. Unfortunately is the most important point to milk the cow of the plant protection research, but not willing solving the problem and to distribute the money under friends with the same mind and thinking.

As a help for all only plant protection scientists and unfortunately not scientist plant producer the definition for 'integrated und biological production':

### **,Integrated and biological production' but only under the specially observation and including of the bee colonies.**

It is a wonder that some plant protection compounds are still used. It is wondering too, that the most of the offices of the agriculture service don't look for the bee colonies and only a few look for the bees alone.

If it is possible to believe the politics of agriculture from the public and from the companies and from the farmer organisations, then the most of the farmers would produce integrated. What is 'integrated production'?

Hoffmann et al (1985) defined 'integrated plant protection' following: **integrated pest management is a method, by using all economic, ecologic and toxicological acceptable methods are used, to bring all damaging organism under the economic damaging threshold, by the consciously using of the natural factors. It is also this, that the necessary corrections are to do in the system under preservation and reactivation or changing natural proceedings with a minimum on cost and the possibility of a combination well tolerated measures instead of only one effective method.**

In the agriculture practise by the 'integrated production' is by using from plant protection compounds the first point the treating of ladybird and others (coccinella, chrysoperla, phytoseiidae) with care and without damaging. But unfortunately the bee colonies as a life partnership are not considered. It would be from very important if the bee colonies would be included as a life partnership as the first insect in the 'integrated plant production'. It is not to tolerate, that agriculture animals are damaged in the field or in their stable or hive o if they loos their orientation. It should not be too, that different plant protection compounds collected to different times and their relation chips are not observed and not be included in the legal registration by plant protection compounds. By economical view of a farm with bee colonies as the important insect and as a agriculture animal is by looking for the lost honey from honeydew or flowers in the cereals after using of herbicides, insecticides the use of this not economical acceptable.

It is not to understand, that the farmers don't use more often the slaked lime, because it is possible to kill with the very cheap manure slaked lime ( $\text{Ca}(\text{OH})_2$ ) as a solution all epiphytcal living bacteria, fungus, mites and insects. After the treatment in few hours the slaked lime is changed in to normal lime ( $\text{CaCO}_3$ ) how it is used as substitution for food. A other application

Dr. Friedhelm Berger  
Pfeilerweg 71 Lindenhof  
D-76228 Karlsruhe-Grünwettersbach  
[www.umweltbund.de](http://www.umweltbund.de)

technique is necessary for a better covering of the leaves and to get a better success. **By the economical view this would be the best, because the slaked lime manure is normally used in winter time and now spitted over the hole year. But with out this, it would be the best too, if the hours for the advisers for the counting from aphids and mites had to pay from the farmers.**

By the ,integrated plant protection‘ is a threshold of damaging for weeds in cereals (40 dicotyle and 40 monocotyle / m<sup>2</sup> by 250 cereals plants / m<sup>2</sup>) in relating to nutrient concurrent.

Against a lot of weed is done:

- harrowed, hoed, weeded
- Bring out calcium cyanamid
- Using herbicides
- Cereals killed before harvesting with all round herbicides.

In stead of the use of the all round herbicides like glyphosate is in Australia for fast drying from plants KOH the lye of K<sub>2</sub>O (chief ingredient of the ash from wood) used, which functioned with the fog technique of BELATEC too.

In Austria and Slovenia is in recent times to dry grass heat exchangers and pumps used. This technique is cheap / kg dry substance and would be god too for cereals and raps as hole plants.

By this drying technique the weed would not be negative and the straw would be a better food for cows and horses or could used as energy.

[www.bioheu.com](http://www.bioheu.com)

[www.heutrocknung.com](http://www.heutrocknung.com)

<http://www.belatec.ch>

The same is by the agriculture science, only a few are working with the influence of the radiation of the earth and the effect of the food.

I you belief that the ,bio production‘ would be better, so you are wrong. Unfortunately the ‘bio‘ farmers use naturally insecticides and copper and other compounds which influence the bees and bee colonies and bee products negative.

**The most of the alternatives I couldn‘t test by the public institutes, it was only possible in the own farm or orchard.** But unfortunately **a lot of bio organisations are against easy methods** too, because they want sell their bio productions and they are afraid that to much farmers could change their production in bio. Unfortunately the bio organisations use still plant protection compounds like naturally pyretroides and copper. I am not principle against bio, my parents were many years too member of a bio organisation, but I have something against the dogma and the religion bio! Bio had to produce without residues in the environment and in all bee products. It is not important how many god mites are living on the leaves if the bad mites can easy killed with slaked lime.

The use of plant protection compounds are not necessary. The everlasting offices of plant protection and other friendly offices are against this. But there is a question, get this officers

Dr. Friedhelm Berger  
Pfeilerweg 71 Lindenhof  
D-76228 Karlsruhe-Grünwettersbach  
[www.umweltbund.de](http://www.umweltbund.de)

and institutes their money only from the public, they use money for students from companies too!

For myself I am angry, that official office are for plant protection compounds, which are damaging bee colonies. This by showing from me, that it is function only with manures and physical influence. For this the article 'slaked lime the healthiness bringer for the nature!?', which I wrote for the Austrian beekeeper- fruit grower- organisations and for the public.

**By the specific use of manures for the leaves by using a specific technique and by using physical machines against the radiation from the earth, I needed since 2001 any g plant protection compound.** By this treatment of the plants the bees (colonies) are not damaged if the treatment is done after the bees are in their hive. As a farmer it is better for spraying in comparing to other insecticides because it is possible to spray the hole night and not only after the bees are in their hive and before 23 a clock! By economical view it is the best!

By this the honey bees bring any systemic fungicides, any antibiotics into the bee products. The bee colonies will not be damaged by insecticides of the new generation. My manures are compounds, which are too natural compounds in the food and allowed too as substitute in the food in the EU!

The lime strategy is underlined by the publication of the office of plant nutrition, but is shows too, **that the most plant protection officers are not willed to think integrated!**

Oh how nice would be, if our official public institutes would not think so chemical industry friendly and would have a honoured codex as scientists. As a officer it was not allowed for me to do such exercise...

I am sure, that the most public officers in the plant protection institutes and other officers by the agriculture officers are in future always god friends to the chemical industry, **because they know, that their job have any existense right after the new knowledge.** So they work with fear by the farmers and are leaving like dealers! Some of this officers want to have, that the use of slaked lime had to recognized as a plant protection compounds and not more as manure. But in the EU it is a traditional compound and manure and it allowed to use. I ask in this point too, where are standing this officers, do they tell the science or are they fighting only for their job?

**Please let us cut unnecessary things, let us start by the plant protection for the help of the tax payers, farmers, beekeepers and the environment. A subvention per ha, which is very hard to pay after a larger EU, was only told something for the farmers. The really winner were the chemical plant protection companies, because the costs for the plant protection compounds are in the high like the subvention per ha.**

Literatur:

Literature:

Hoffmann G M, Nienhaus F, Schönbeck F, Weltzien H C, Wilbert H (1985) Lehrbuch der Phytomedizin. Paul Parey 2. Auflage, 1-488.

Dr. Friedhelm Berger  
Pfeilerweg 71 Lindenhof  
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[www.umweltbund.de](http://www.umweltbund.de)

‘slaked lime the healthiness bringer for the nature!?’

In all agriculture, forest culture, fruit culture literature the writers come to the result, that all year there are 300 kg – 800 kg burned lime CaO / ha on sandy earth and until to 2000 kg burned lime CaO / ha by clay earth.

Normally by fertilizing the manure is brought out crystalline and in the earth fixed by the moisture. Only 1.7 g slaked lime is soluble in 1 l water H<sub>2</sub>O, with this there is then a pH from 12.4. The normal farmer or fruit grower use 400-500 l water H<sub>2</sub>O / m high of the plants. By the using of slaked lime Ca(OH)<sub>2</sub> as a substitution from plant protection compounds are only 1 kg Ca(OH)<sub>2</sub> / ha necessary and by fruit cultures by a high from 2-2.5 m ca. 2 kg. So a normal agriculture culture could be sprayed 600 times and a fruit culture 300 times per year. By using tenfold more 60 or 30 spraying times are possible without a changing of the pH in the earth.

By using a better spraying or fog technique it is possible to kill the most of the epiphytic leaving bacteria, fungus, mites and insects similar to the use of contact bactericides, fungicides, acaricides, insecticides.

By thinking, that by changing of the technique for bringing out manure or fertilizers, the use of plant protection compounds, which influence negatively the environment, is unnecessary, than it is not to understand, that we have farmers, officers and politics, which are fighting for the use of antibiotics and other the environment negative influencing compounds in the opposite to the slaked lime, which is cheap.

Because the same slaked lime had to be brought out as manure, so only another termination is affordable like the termination of plant protection compounds!

Slaked lime gives any residues in the harvested products (cereals, oilseeds, vegetables, fruits, honey) because slaked lime is in few hours chemically changed by the CO<sub>2</sub> from the air to carbonate lime which is a normal nutrient substitution by the food and is very good for better bones.

Please notice too following literature from the official office for plant nutrition.

**„Bestimmung des Kalkbedarfs von Acker und Grünlandböden“ (2000) von**

Dr. sc. M. Kerschberger, Jena; Dr. B. Deller, Karlsruhe; LD U. Hege, Freising; Dr. J. Heyn, Kassel; Dr. H.-E. Kape, Rostock; Prof. Dr. O. Krause, Jena; Dipl.-Ing. J. Pollehn, Köln; Dr. M. J. Rex, Mühlheim; Dr. K. Severin, Hannover

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