



Witroes Powdery Mildew

Agro-Organics

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FORMULE VIR POEIERAGTIGE SKIMMEL BEHEER VOLGENS DIE DAVIS PROGRAM (UNIVERSITEIT KALIFORNIE)

POWDERY MILDEW CONTROL WITH PLANNED SPRAYING ACCORDING TO THE DAVIS FORMULA (UNIVERSITY OF CALIFORNIA)

Temperatuur is die belangrikste omgewingstoestand vir witroesbesmetting.

Indien toegang tot aaneenlopende daaglikse temperatuur monitoring beskikbaar is, kan hierdie voorspellingsprogram met groot sukses gebruik word.

Indien die dagtemperatuur vir 6 ure of langer 21 - 29°C is, word 'n indeks van 20 punte aan daardie dag toegeken

Bv. na 3 dae met temp 21 - 29°C vir 6 ure elk, sal die indeks 60 punte wees.

'n Indeks van 60 - 100 punte dui aan dat 'n witroeskolonie elke 5 dae spore produseer en onder sulke toestande moet spuitintervalle korter wees (5 -7 dae).

Hierdie indekse is uitgewerk op die feit dat die lengte van die latente periode vir witroes (Dit is periode tussen infeksie en sporulasie) by 'n temp van 20 - 29°C ongeveer 5 dae is.

Indien die temp nie aaneenlopend 21 - 29°C vir 6 ure is nie, of as die temp gedurende die dag 35°C bereik, dan word die indeks met 10 punte verminder.

FORMULE:

Indeks punte: 0 - 30 30 - 60 60 - 100

Infeksie druk: Laag Gemiddeld Hoog

Spuitintervalle: 14 dae 10 dae 7 dae

Temperature is the most important environmental factor for powdery mildew infection.

This programme for control of powdery mildew can be used with great success if daily successive temperature readings are available.

If the daily temperature is between 21 - 29°C for longer than 6 hr per day, an index of 20 points is awarded.

For example: After three days with temp 21 - 29°C the index will be 60 points.

An Index of 60 - 100 points indicates that a powdery mildew colony will produce spores every 5 days and under these conditions the spray intervals must be short (5 -7 days). These indexes were calculated according to the fact that the length of the latent period for powdery mildew (period between infection and spore production) is about 5 days at a temp of 21 - 29°C.

If the temp is not 21 - 29°C for six consecutive hours or if the temp reaches 35°C during the day then the index is reduced by 10 points .

FORMULA:

Index points:

0 - 30 30 - 60 60 - 100

Infection pressure:

Low Average High

Spray intervals:

14 days 10 days 7 days

Allowed Input for Organic Production — beheer van witroes

Toegelate Insette onder die Organiese Verbouing — control of powdery mildew

Die IFOAM Norm laat onder andere koper/kopersoute (maks. 8 kg/ha), swavel, kaliumpermangenaat en bak poeiers toe. Ook waterstofperoksied word toegelaat. Hierdie stowwe word ook binne die NOP en JAS toegelaat, maar die EU regulasie verskil. Die EU beperk die bakpoeier tot kaliumbikarbonaat (E501) wat omtrent 6 keer die prys van natriumbikarbonaat in SA is.

Aangesien die SA regulasie steeds nie gewettig is nie, beteken dit dat die organiese verbouer hier voor 'n uitdaging staan. Ons het drie produkte wat rondom bak poeiers en hul anti-oksidante geformuleer is, nl. Bio-Build (natriumbikarbonaat), Bio-Protector (kaliummonofosfaat), Myco-P (kaliumpermangenaat, kaliummonofosfaat). Sedert natriumbikarbonaat (E500) en kaliummonofosfaat (E340(i)) toegelaat is in die bak van 'organiese' brood en alombekend geen ekologiese gevaar in die dosise soos aanbeveel vervat nie, behoort hulle ook toegelaat te word in die EU konteks, maar hulle is nie. Beste kombinasie sal wees Bio-Build en Bio-Protector, om koper en swavel tot die uiterste minimum te beperk, andersins Bio-Cop en Myco-P. Waar die EU-regulasie gevolg word, sal die sertifiseringsliggaam die finale sê hê. Kontak ons as daar probleme is. Dankie.

Beide Bio-Build en Bio-Protector het L-Registrasies.

The IFOAM Norm forms the platform for each country/region in establishing an organic regulation such as the NOP, JAS and EU. The IFOAM Norm mentions copper / copper salts (max. 8 kg/ha), sulphur, potassium permanganate and baking powders. Hydrogen peroxide is also allowed. These substances are also allowed within NOP, but the EU regulation differs. The EU allows only potassium bicarbonate (E501) which is about 6 times the price of sodium bicarbonate!

Since the SA regulation is still not legalised the local industry faces a challenge. We have three products that have been formulated with baking powders and their antioxidants, Bio-Build (sodium bicarbonate), Bio-Protector (potassium mono phosphate), Myco-P (potassium permanganate, potassium mono phosphate). Both sodium bicarbonate (E500) and potassium mono phosphate (E340(i)) are allowed substances in baking 'organic' bread and have a history of safe use, the EU should allow these substances, but they do not. Best combination of controlling powdery mildew would be Bio-Build and Bio-Protector in order to reduce copper and sulphur to its utmost minimum, otherwise Bio-Cop and Myco-P. Where the EU regulation needs to be followed, your certification body will have the last say. Please do contact us if there are challenges. Thank you.

Both Bio-Build and Bio-Protector have L-registration.

Any technical challenges can be addressed to: strauss@agroorganics.co.za

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