

Phytobac®, french experience

1996 to 2011





Phytobac[®], french experience

- Phytobac[®] is
- Phytobac® development
- Phytobac® benefits
- Phytobac® management by Bayer CropScience
- Individual Phytobac®
- Collective Phytobac®





Phytobac[®] is:

- ✓ The biobed idea was taken up by Bayer CropScience in 1996, because of its simplicity, biological degradation of spill and waste water on the farm
- ✓ The Phytobac® is not only the hardware (container, mixture and washing area). Phytobac ® is a concept that covers everything from planning, establishing to auditing
- ✓ Only trained experts can work with Phytobac®



It is a concept!







Monitoring



Certification





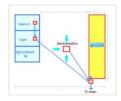
Advisory for use





A container with soil/straw





Calculations

Investigation at a farm





Phytobac® differs

The Phytobac[®] is different to the Original Swedish Biobed by:

- Substrate is contained in water proof container(s) (lined)
- Substrate is only top soil and straw (70%:30%)
- Degradation is similar to what governments approved for PPP
- Substrate can be use more the 12 year
- Substrate overturns ones a year
- Washing water can also be handled.
- All water is evaporated
- Container covered by a roof







Phytobac®, development

- ✓ Farmers were enthusiastic from the start, in spite of officials reluctance
- ✓ Because this enthusiasm we have carried on with Phytobac:
 - information, lobbying, trials, pilot projects
- ✓ Since 2002, officials have recognized Phytobac® interest
- ✓ A decree, in September of 2006, gave a procedure for recognition of waste water treatment systems
- ✓ More then 2000 Phytobac® are in place at present





Phytobac® benefits

- ✓ Safety for environment (water)
- ✓ Easy to use, greater awareness of good agricultural / spraying practices
- ✓ Biological degradation, as in soil
- Energy need very low
- ✓ Complete management of the effluents
- ✓ Pedagogical plus for pesticide degradation





Management Phytobac®

Bayer CropScience management of Phytobac® activity:

- ✓ Experts are trained to be capable of arranging, using and supervising a Phytobac® (>500 experts)
- ✓ Two suppliers of "ready to use" Phytobac® kits,
 Biotisa and Hermex
- ✓ Online support for experts:
 - Model for arranging a Phytobac[®], supervising
 - Conformity certificate
 - Technical and regulation Information





✓ Self Construction with the help on an expert





Domaine de Gallienne (16)





✓ Kits Biotisa



Lycée agricole d'Aix Valabres (13)



Ville de Roquebrune-Cap Martin (06)











✓ Kit Hermex





Lycée agricole d' Orange (84)







Collective Phytobac®





CSGV à Avize (51)





Saint Bonnet près Riom (63)





Collective Phytobac®





Chassagne Montrachet (21, Burgondy)

With Biotisa technology

