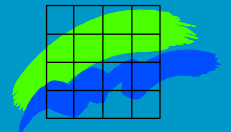


Deriving WQS for pesticides in Denmark

Betty Bügel Mogensen
NERI

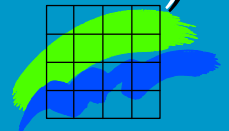
Nordic Workshop on pesticide
monitoring

Uppsala 6-7 February 2006



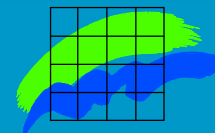
Regulation

- ❖ 1. Bekendtgørelse om kvalitetskrav for vandområder og krav til udledning af visse farlige stoffer til vandløb, søer og havet (Statutory order 921 1996. Implementation of Directive 76/464/EEC)
- ❖ 2. Principper for fastsættelse af vandkvalitetskriterier for stoffer I overfladevand. (Guidance from DEPA 2004)



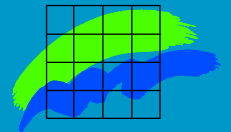
Ad 1: WQS

- ❖ List of compounds for which emission to streams, lakes and the sea should be limited as much as possible using best available technology.
 - Pesticides include
 - Organophosphorous compounds,
 - Chlorinated compounds
 - Triazines
 - Phenoxyherbicides



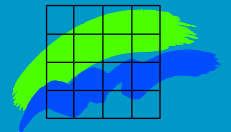
Ad 2: WQS

- ❖ Guidance on how to establish water quality criteria for compounds other than those established by the EU Commission for Priority compounds.
- ❖ The principles in the guidance document are in accordance with the Water Framework Directive.



Application of WQS

- ❖ 1. Determination of the maximum acceptable concentration in connection with discharge permits
- ❖ 2. A reference level, indicating "good surface water chemical status" to which monitoring data should be compared



*WQS = highest concentration
estimated not to cause adverse effects
in the aquatic environment*

- ❖ Estimation based on laboratory tests
- ❖ Application of assessment factors (AF)
- ❖ Few data or high uncertainty => High AF value

