

# Water Framework Directive - Why should we bother?

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Annual Conference & Exhibition of the Amenity Forum

15<sup>th</sup> October 2015

- Water Framework Directive water body status
- Drinking Water Protected Areas
- River Basin Management Plans



# Water Framework Directive - WFD

- Water framework – covers wide variety of aspects of water management
- Water body status - fundamental element within WFD
- Good status as an overall objective
- In England over 3500 surface water bodies and 271 groundwater bodies
- Pesticides can compromise water body status either directly (exceed environmental quality standards) or by impacting on ecology



# Surface Waterbody status under WFD

⇒ 2015 Directions updates standards

⇒ 35 pesticides with standards, some more relevant to Amenity sector

2,4-D, Aclonifen, Alachlor, Aldrin, Atrazine, Bifenox, Carbendazim, Chlorfenvinphos, Chlorothalonil, Chlorpyrifos, Cybutryne, Cypermethrin, DDT, Diazinon, Dicofol, Dichlorvos, Dieldrin, Dimethoate, Diuron, Endosulfan, Endrin, Glyphosate, Heptachlor, Hexachlorocyclohexane, Isodrin, Isoproturon, Linuron, Mecoprop, Methiocarb, Pendimethalin, Permethrin, Quinoxifen, Simazine, Terbutryn, Trifluralin

⇒ Includes those newly added

Aclonifen, Bifenox, Carbendazim, Chlorothalonil, Cybutryne, Dicofol, Dichlorvos, Glyphosate, Heptachlor, Methiocarb, Pendimethalin, Quinoxifen, Terbutryn

# Waterbody status under WFD

- ➔ The status of 13 of the >3500 surface water bodies are currently compromised by elevated pesticide levels
- ➔ Groundwater status is measured in different ways to surface waters. 7 of the 271 ground water bodies are less-than-good due to pesticides

# Drinking Water Protected Areas

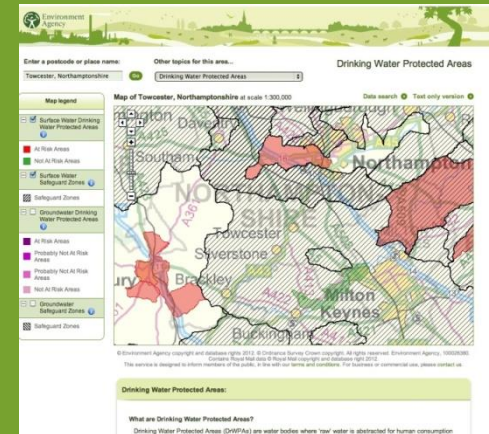
The Water Framework Directive also introduces the concept of Drinking Water Protected Areas DrWPAs and has the following objectives:

- ➔ ensure that, under the water treatment regime applied, the drinking water produced meets the requirements of the Drinking Water Directive; and
- ➔ ensure necessary protection of the DrWPA with the aim of avoiding deterioration in water quality in order to reduce the level of purification treatment required in producing drinking water.

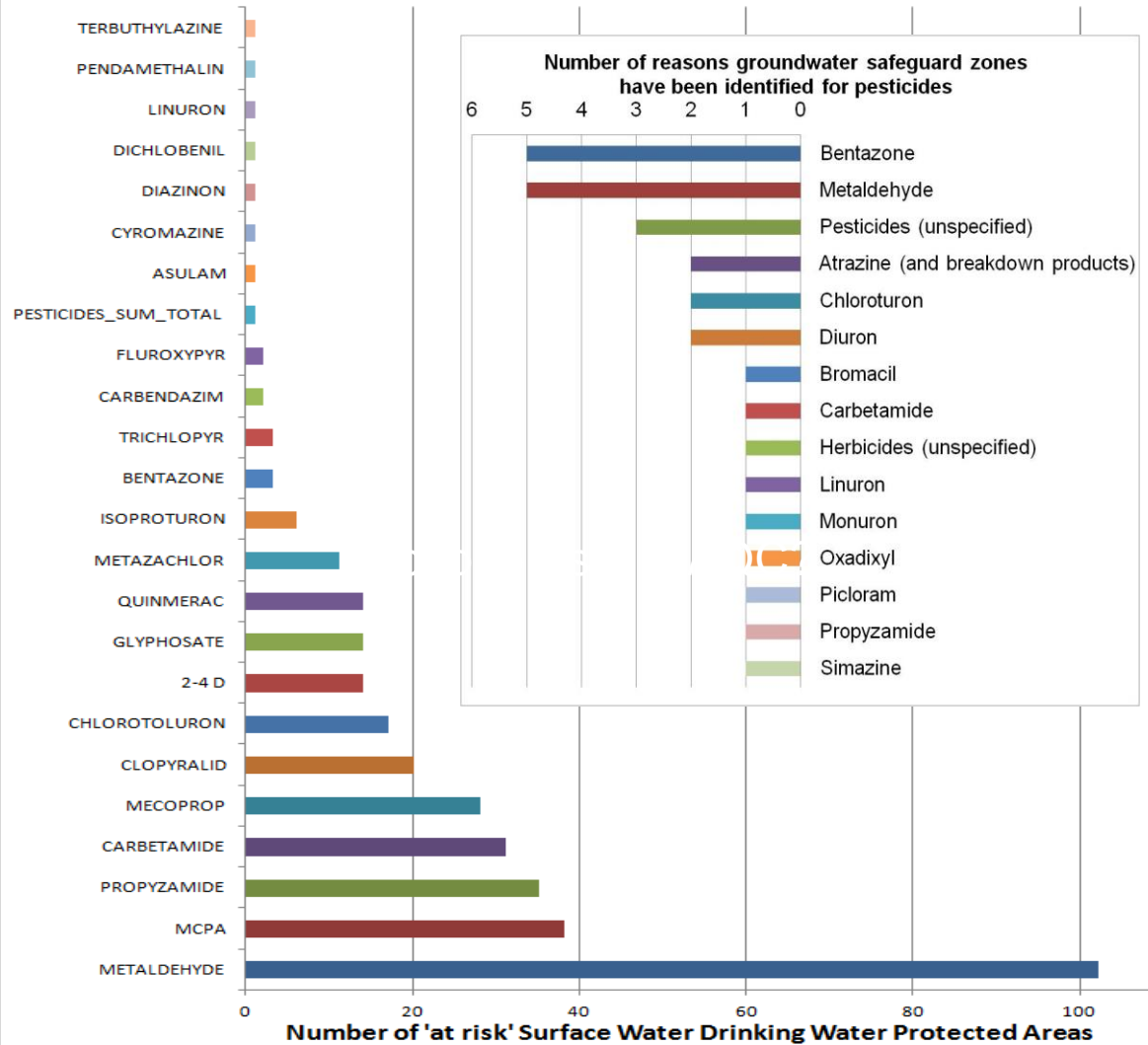


# Drinking Water Protected Areas

- ⇒ A subset of 486 WFD surface water bodies are identified as DrWPAs
- ⇒ 122 surface waters considered 'at risk' from pesticides
- ⇒ All 271 groundwater bodies are DrWPAs
- ⇒ 22 groundwater bodies have Safe Guard Zones established for pesticides
- ⇒ Managing water supplies to avoid water contaminated with pesticides getting into supply can be costly



## Number of Surface Water Drinking Water Protected Areas 'at risk' for Pesticides





# What does it mean for you?

- ➔ Pesticides getting into surface and groundwater can and do cause problems to the quality of water for both wildlife and drinking water supplies.
- ➔ Do bear in mind risks of pesticides getting into water, be it through from spraying near water, via drains or soaking through to groundwater.
- ➔ Minimising pesticide use, e.g. through integrated pest management and correct dosing, helps to minimise the risks
- ➔ Responsible pesticide management and advice promoted through groups such as the Amenity Forum and Voluntary Initiative



# River Basin Management Planning

- ➔ Six-year cycles
- ➔ First cycle plans published Dec 2009
- ➔ Next plans are due to be published in December 2015
- ➔ Consultation on draft plans closed in April
- ➔ Associated narratives on DrWPAs and chemicals
- ➔ A key focus of plans is on the status of waterbodies and programmes of measures to meet these
- ➔ Other measures include those relating to Drinking Water objectives



# Summary – Why we should bother

- ➔ Pesticides are designed to kill something. As such, they can be harmful to humans and wildlife if not used carefully
- ➔ Pesticides can be a problem in the water environment, particularly in drinking water supplies
- ➔ Amenity sector not seen as a *major* source of problems, but that is no reason to be complacent
- ➔ Be responsible in your use of pesticides and do consider alternatives as part of the integrated management of pests
- ➔ Talk to us

# Thank you

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