

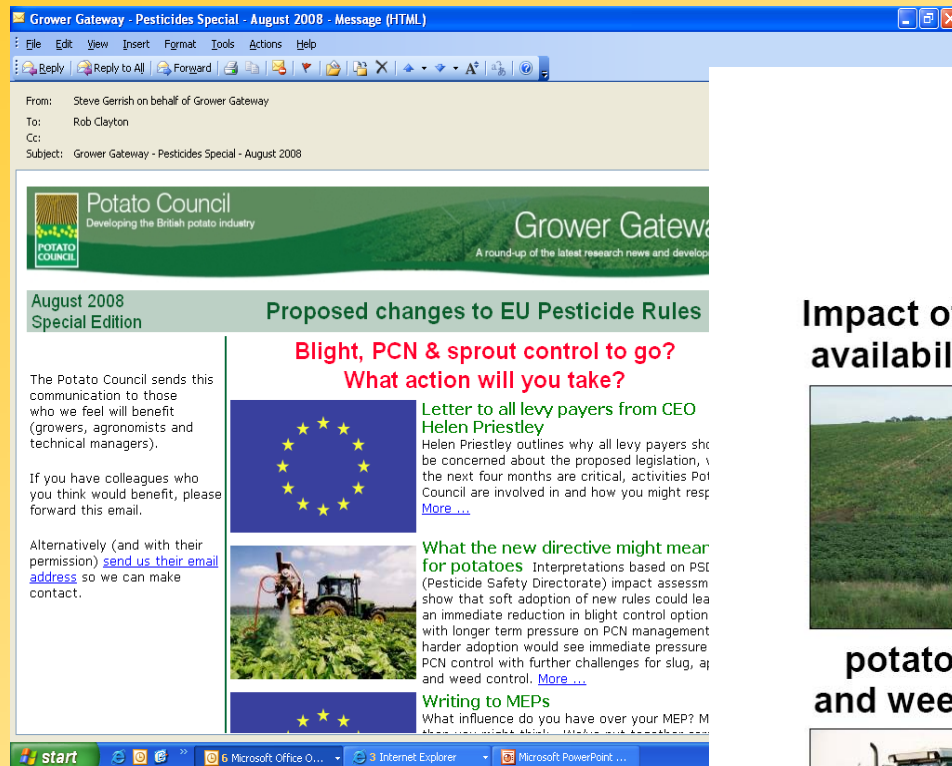


Regulation for Plant Protection Products (PPPs)



Our role

- Providing robust reliable independent information at the right time



Impact of reduced pesticide availability on control of ...



potato cyst nematodes and weeds in potato crops



September 2008



ADAS : Pesticide Availability: Potatoes

- Common Platform used by other sectors (e.g. HGCA)
- Calculator derived from previous ADAS/ECPA project
- Analysis of yield and gross margin for
 - Business as usual
 - Complete absence of crop protection
 - 91/414 (4 derivations)
 - Water framework directive
- Sector analysis
- Future status of pesticide availability
- alternatives

Health warning

Assessments reported in this presentation are based on criteria which have not been fully defined, they use the best information available identified by PSD/CRD but could change over time.



blight

- Mancozeb – renewal due 2015
- Considered a potential to fail on certain criteria (once defined !!)
- Major contributor to anti-resistance strategy
- Alternatives would have to meet **WFD criteria**
- Major pressure on anti-resistance and residue management
- Exacerbated by longer season (aggressive blight and no acid)



Why the concern over WFD(2004)?

- Good status (chemical & ecological) for surface and groundwaters
 - Prevent any downward trend
 - Improve
- Chemical threshold = $0.1 \mu\text{g/l}$
- Ecological threshold = EQS (Environmental Quality Standard)
- Legislation allows mitigation at a catchment level.
- BUT
- Consider ease of using area X dose X solubility



blight

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blight

- Gross margin (5-10%)
- Best practice hygiene and control
- PCL funding focus on:-
 - Populations (and criteria for DSS)
 - ICM
- Specific communications for gardens and allotments



Weeds

- Life without paraquat and lower linuron rate already a challenge
- Linuron, pendimethalin, metribuzin renewal 2013.
 - All have the potential not to meet criteria
- Cycloxadim, quizafop-P-tefuryl and propaquizafop still to meet Annex 1 criteria
 - Control of grass weeds would suffer from unfavourable decisions
 - Both quizafop-P-tefuryl and propaquizafop have now been moved to Annex 1
- Bentazone, clopyralid, glyphosate – require robust stewardship to meet WFD
 - Volunteer bank will build should any drop out



Weeds

- Affect on gross margin 2-54%
- Affect on yield 14-80% in trials
- Best practice – John Keer year 1 results
- PCL resource
 - Yr 2 of J Keer's trials
 - Review of modelling opportunities to fine tune priorities



PCN

- Fosthiazate, oxamyl, nemathorin -renewal dates 2013-2016
- Unclear what will / could happen wrt.
- Water Framework Directive
- Comparative assessment and substitution.

- Prepare for life with longer rotations, better use of tolerance/resistance, integration with "biocontrols"
- But consider trap cropping £355-385/ha + opportunity cost
- Life without nematicides = -472 000t p.a.
- PCL resource
 - Tender for new research underway
 - Re-programming and development of DSS model
 - To account for new treatments
 - To meet PCN Control Directive



Aphid

- Resistance issues already present and well known
- Thiacloprid, chlorpyrifos, pirimicarb to be reviewed 2014-2017
- Potential affect on yield (-5600t p.a.)
- Marketability and seed health to consider
 - Especially if anti-resistance strategy unachievable.



Aphid

- New R&D now commissioned
 - To include review of vector efficiencies
 - Control strategies
 - Cross sector and international tie-ins

New KT under development

To bring best practice and hygiene to existing aphid/virus hub



slug

- Ongoing stewardship
- Methiocarb and metaldehyde require careful use
- Potential consequence (-422 000t p.a.) if pellets are lost



The story so far....

- We're not out of the woods yet!
- We are playing an active part in transposition
- Water Framework Directive is and will continue to be significant
- We have long term funding plans for blight, aphid, pcn, weeds
- Short and medium term – STEWARDSHIP is essential for all of us!