



Kevin Barker

Quality Assurance Manager – Fresh Produce
The Co-operative Group

Co-operative Retail's Pesticide Reduction Programme

PUR Workshop

Hamburg

5th July 2005

Policy Development Over the Years

- 1980's - Pesticide Usage Prioritisation
 - Farmcare - Crop Specific Guidelines for Peas
- 1995 - 1999 - Consumer & member concerns
 - Number of Independent Surveys
- 1999 - Code of Practice
 - Guidelines on pesticide use and pesticide residue minimisation
 - Prohibited and Restricted Pesticide Lists
 - Providing advice to improve controls
- 2001 - Green & Pleasant Land Launch



Current Co-operative Retail Pesticide Policy

- Co-op pesticide advisory group
- Development of the pesticide lists through application of a hazard framework
- Triggers within the frame work include;
 - ADI
 - OSPAR
 - Toxicity
 - Bioaccumulation
 - Soil & water persistency
 - Prior informed consent
 - Carcinogenic
 - Endocrine disruption
- Levels are set for both the prohibited & monitored lists.

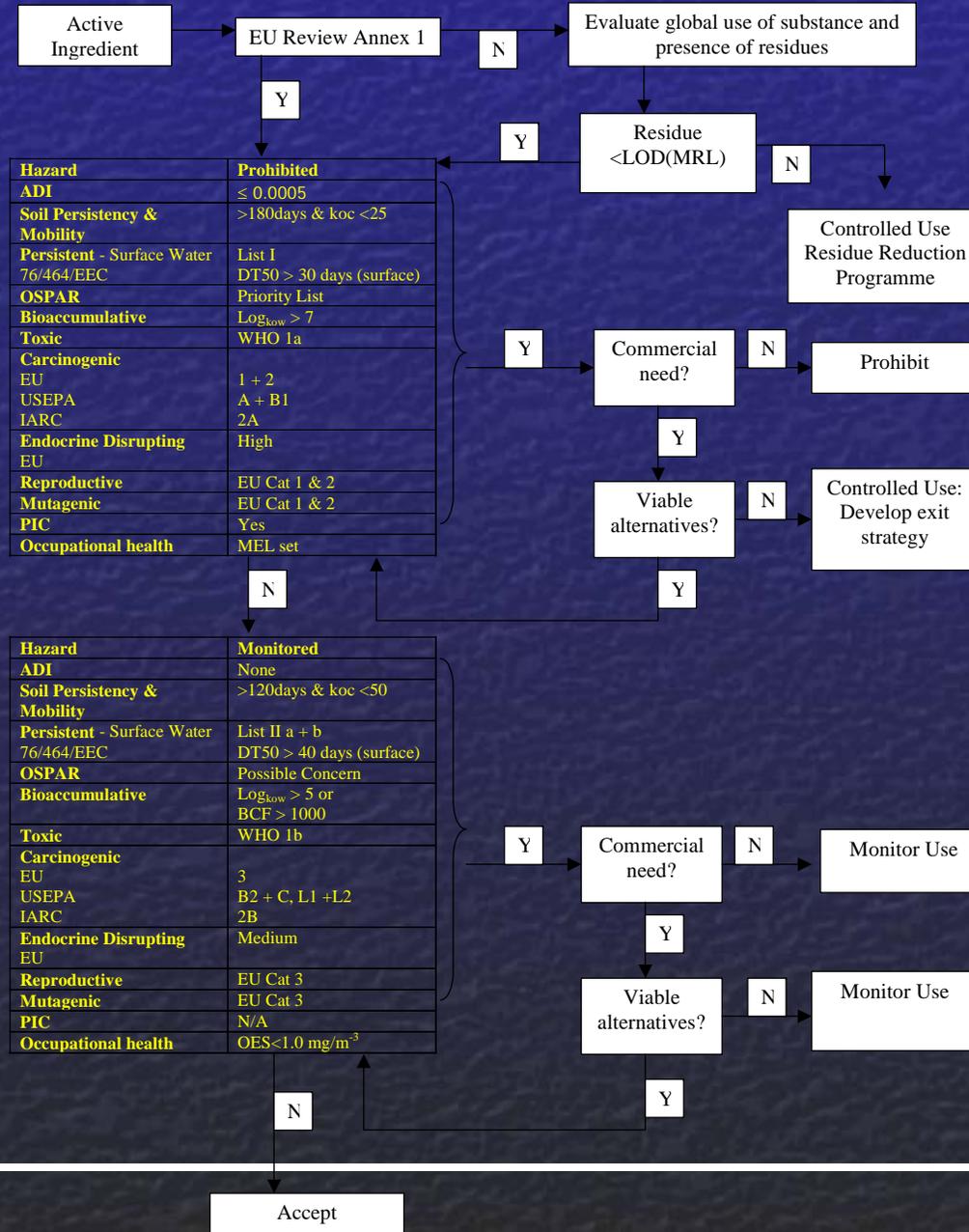


Co-operative Retail Pesticide Advisory Group

- Christopher Stopes EcoStopes
- Vyvyan Howard ACP member
- Charlie Clutterbuck ACP member
- Stephanie Williamson PAN
- Kevin Barker Co-operative retail
- Catherine Humphries Co-operative group
- David Gardner farmcare
- Liz Wright observer (FOE)
- Input from RSPB and Environment Agency



Active Ingredient Decision Tree



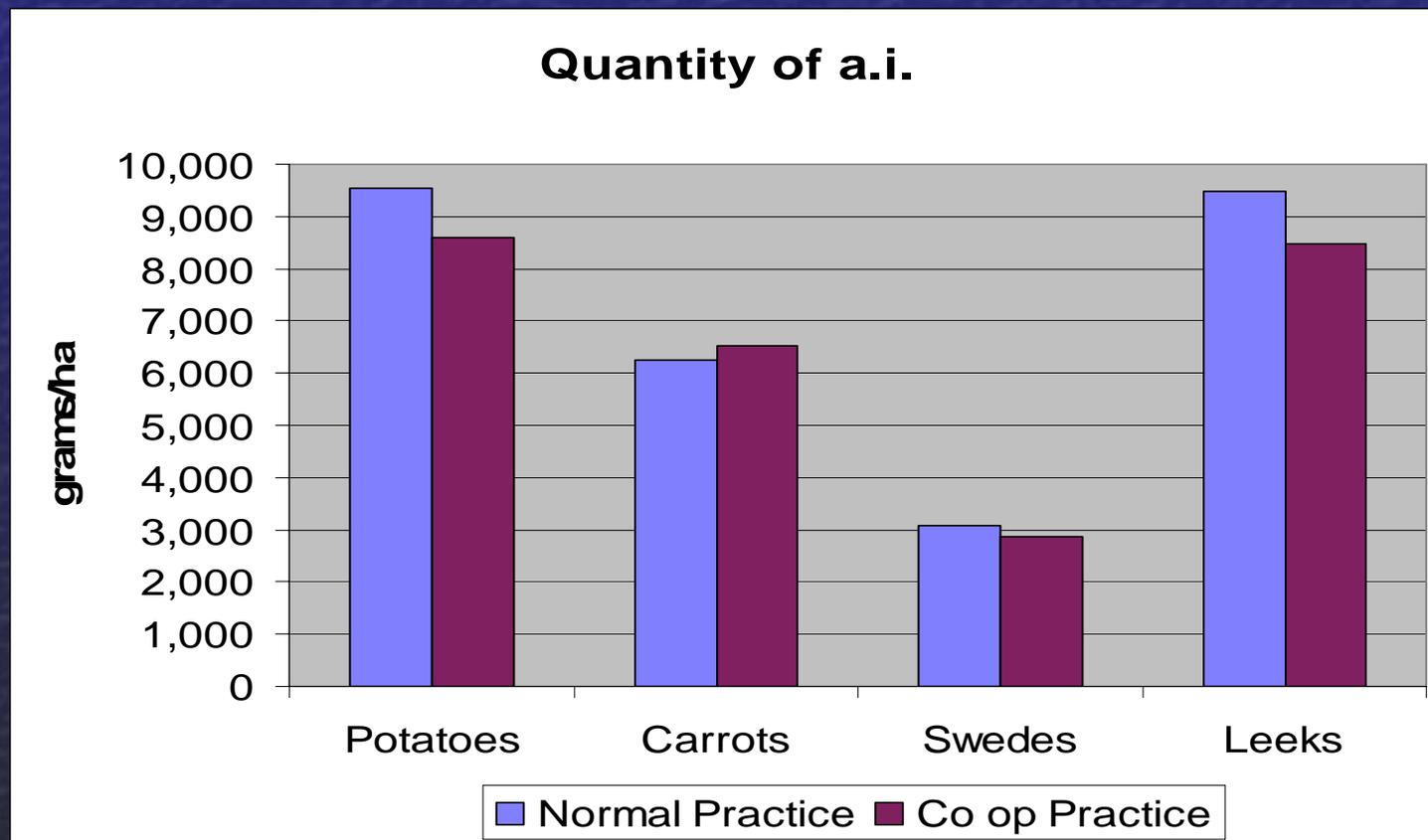
Hazard Triggers - Prohibited

Hazard	Prohibited
ADI	≤ 0.0005
Persistent (Soil) & Mobility	>60 days & $koc < 50$
OSPAR	Priority List
Persistent - Surface Water -70/464/EEC	List I - DT50 > 30 days (surface)
Bioaccumulative	$\text{Log}_{\text{Kow}} > 7$
Toxic	WHO 1a
Carcinogenic - EU USEPA IARC	1 + 2 A + B1 A + B1
Endocrine Disrupting - EU	High
Reproductive	EU Category 1 and 2
Mutagenic	EU Category 1 and 2
PIC	Yes
Occupational health	MEL set

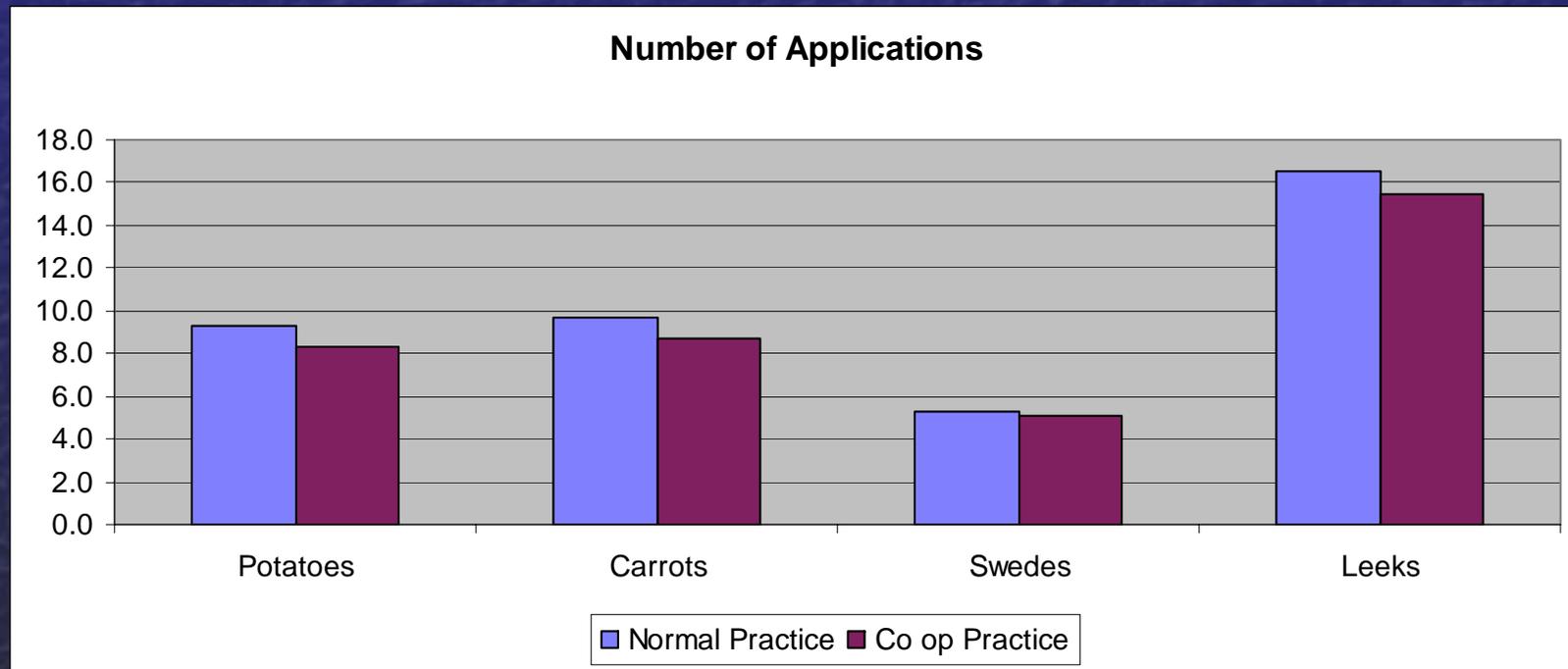
Hazard Triggers - Monitored

Hazard	Restricted
ADI	N/A
Persistent (Soil) & Mobility	>60 days or $k_{oc} < 50$
OSPAR	Possible Concern
Persistent - Surface Water -70/464/EEC	List II a + b - DT50 > 40 days (surface)
Bioaccumulative	$\text{Log}_{k_{ow}} > 5$ or BCF > 1000
Toxic	WHO 1b
Carcinogenic - EU USEPA IARC	3 B2 + C, L1 + L2 B2
Endocrine Disrupting - EU	Medium
Reproductive	EU Category 3
Mutagenic	EU Category 3
PIC	N/A
Occupational health	OES < 1.0 mg/m ³

Policy Impact (1)



Policy Impact (2)



Next Steps

- Industry Liaison – Complete
- Supplier Liaison – End August 2005
- Revised Lists Issued (Prohibited, Controlled and Monitored - September 2005
- Develop crop/country specific reduction plans to remove controlled pesticides
- Develop alternatives for those pesticides causing concern
- Ongoing review and development

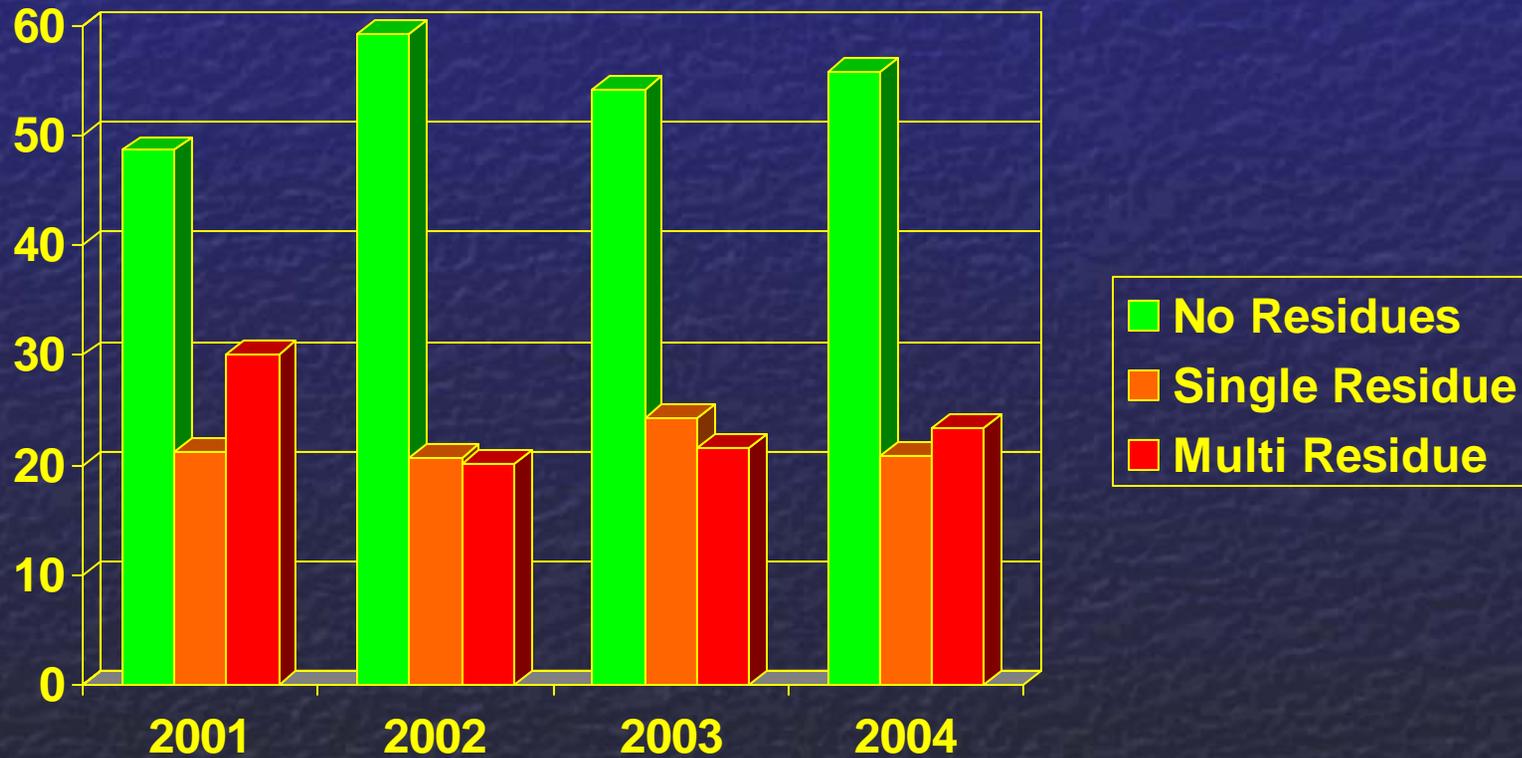


Pesticide Residue Reduction Plan

- Thorough analysis programme in place for 5 years.
- Historical data utilised to identify key areas of concern.
- Work with suppliers and growers to identify opportunities to minimise residues.
- Internal and external projects and schemes.



Pesticide Analysis Results



Pesticide Residue Minimisation – Key Crops & A.I.'S

- Top Fruit
- Soft Fruit
- Lettuce
- Citrus
- Grapes
- Potatoes
- Carbendazim
- Dithiocarbamates
- Captan
- Vinclozolin
- Chlorpyrifos
- Iprodione
- Imazalil

Key Issues

- Too many industry/government projects on minimisation
- Duplication of residue analysis
- Multi residue screens – false sense of security
- Delay in results – Eu and National
- Lack of industry support
- Consumer and farmer lack of knowledge

