# Industry Symposium on Rodenticide Regulation & Training

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#### PERMANENT BAITING



A STANDARD PART OF RODENT PEST CONTROL CONTRACTS

BAIT BOXES OFFER LIMITED PROTECTION TO WILDLIFE

IS NOT SUSTAINABLE
NEW RESTRICTIONS WILL APPLY

#### THE PROBLEM

- Widespread contamination of Non-target animals with rodenticide active substances
- Primary and Secondary poisoning
- Predatory birds and mammals
- Scavenging birds and mammals

#### THE PROBLEM

#### Contamination via multiple food chains

 Target rats and mice & non-target small mammals, taken by owls, Red Kite, Buzzard, Kestrel, and mammalian predators (Stoats, Pine Martens, Badgers & Foxes)

 Non-target slugs and snails, taken by small birds, that are then taken by Peregrine Falcons and Sparrowhawks and Mammals

#### NON-TARGET RESEARCH

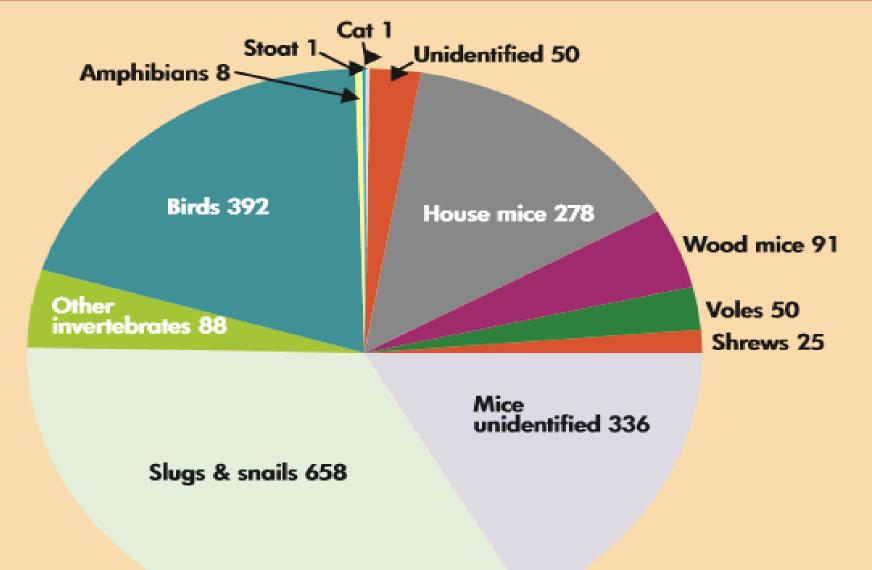
Netherlands 2014 - KAD

20 Bait stations in each of:

- 2 x residential blocks
- 2 x business areas
- 2 x agricultural areas (PIG/DAIRY)

IMAGING & TRACKING DEVICES
RECORDED ACTIVITY OVER 10 WEEKS

#### Species and numbers visiting the bait stations

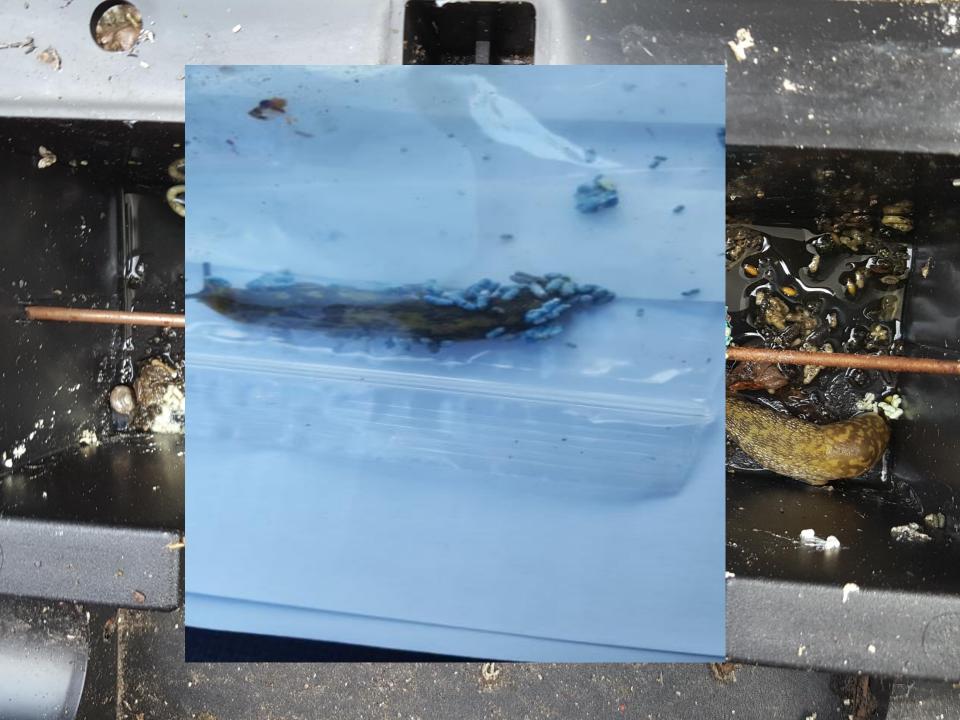


Ref: Bruce Schoelitsz & Mike Brooks Kennis - En Adviescentrum Dierplagen (KAD)



10 Bird species were identified visiting Stations including:

ROBIN, DUNNOCK, MAGPIE, JACKDAW, GREAT TIT, MOORHEN, BLACKBIRD







#### Barn Owl Food Cache - Tipperary





## HOW DO WE KNOW RAPTORS ARE CONTAMINATED?

#### The RAPTOR Protocol

**Carcass Collection** 

**NPWS Rangers & Others** 

Designated Veterinarian

**X-Ray examination (shooting)** 

**Regional Veterinary Lab** 

**Post-mortem examination** 

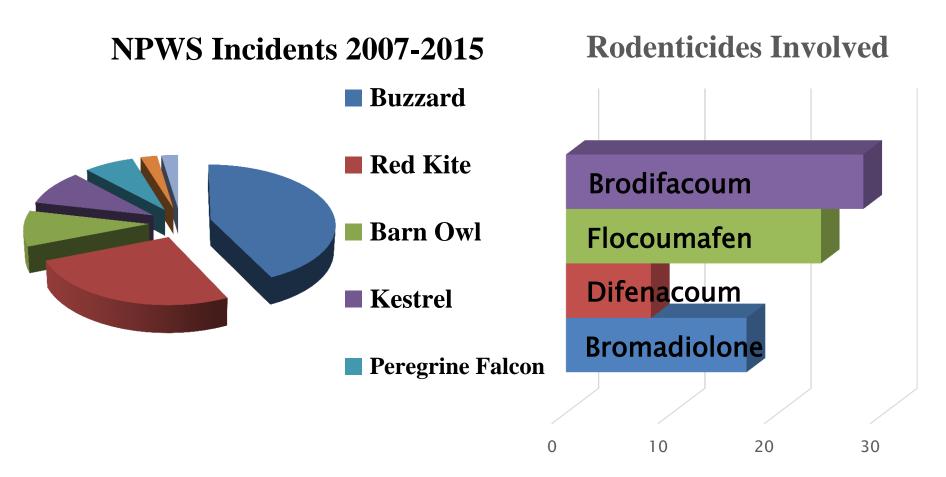
**State Laboratory** 

**Chemical Analysis** 

Annual RAPTOR Report

Prepared by NPWS

# The Irish Situation: Incidents 2007-2015 species & rodenticides involved



These 42 incidents reflect poor rodenticide practice *i.e.* failure to abide by Best Practice

Image: CRRU Ireland

#### WHERE DO WE GO FROM HERE?

#### INTEGRATED APPROACH REQUIRED

**IPM** WILL REDUCE DEPENDENCE ON RODENTICIDE

AND REDUCE WILDLIFE EXPOSURE

CONSIDER "THE RISK HIERARCHY"

## IPM – INTEGRATED PEST MANAGEMENT & THE RISK HIERARCHY

- HABITAT MODIFICATION
   Make site unattractive to Rodents
- BIOLOGICAL CONTROL (domestic cat, dog if feasible)
- PHYSICAL CONTROL Exclusion/Proofing
- MECHANICAL CONTROL
   Trapping
- CHEMICAL CONTROL

   1st generation anti-coagulant
   2nd generation anti-coagulant



1. ELIMINATE Restrict Food/Water

**SEARCH & REMOVE** 

CARCASSES

#### 2. CLEAN UP









3. PROOF/Exclude





#### **Confirm Target Rodent Activity**

- PRIOR TO USING RODENTICIDES OR LETHAL TRAPS TARGET RODENT ACTIVITY SHOULD BE CONFIRMED
- CAN BE DIFFICULT!
- IF INCORRECTLY ASSUMED THAT A TARGET RODENT HAS TAKEN NON-TOXIC BAIT SUBSTITUTING RODENTICIDE WOULD BE IRRESPONSIBLE

#### **Confirm Target Rodent Activity**

- TRAPPING NON-TARGETS IS NOT DESIRABLE BUT CAREFUL USE CAN:
- MAKE CLEAR WHICH SPECIES AND NUMBERS ARE PRESENT AFTER NON-TOXIC BAIT TAKE
- FACILITATE RAPID REVIEW / ADJUSTMENT
- FFFECTS ARE LOCAL & POPULATION LOSSES ARE QUICKLY COMPENSATED
- ▶ FACILITATES IMMEDIATE CARCASS REMOVAL

#### IPM - RESPONSIBILITIES

- Responsible rodent control not achievable without partnership approach
- Client responsibilities are critical and will minimise need for Rodenticide use
- Clients of PCOs are partners in IPM

# FUTURE USE OF PERMANENT BAITING

- Programmes involving <u>Continuous Use of Toxic Bait</u> May only be undertaken by Trained Professionals
- Only difenacoum & bromadiolone products
- •Limited to sites with <u>high potential for re-invasion</u>
- •Limited to sites where <u>other methods of control</u> <u>proved insufficient and are documented</u>

Revisit sites every 4 weeks (minimum)

Review continually to justify this approach — having regard to IPM & re-infestation assessment as parameters can change

Follow any additional instructions provided by the CRRU code of best practice".

#### RECORDS REQUIRED

- ASSESSMENT OF RISKS FOR WORKERS & BYSTANDERS
- ENVIRONMENTAL RISK ASSESSMENT FOR RODENTICIDE USE
- FULL RECORDS OF DEPLOYMENT OF RODENTICIDE OR TRAPS
- SITE SURVEY / MAPPING / PROOFING REQUIRED & COMPLETED / HARBOURAGE, FOOD, WATER REMOVAL / ACTIVE SUBSTANCES / BRAND NAMES / CARCASS REMOVAL / DATES & QUANTITIES APPLIED/REMOVED /TRAP CHECKS / REMOVAL

#### RECORDS REQUIRED

#### **Rodent Pest Management Records**

**Planning and Implementation** 

Revision 11.2, 1st November 2017





### CRRU IRELAND BEST PRACTICE REQUIREMENTS

Best Practice Requirements for Rodent Control and Safe Use of Rodenticides

