



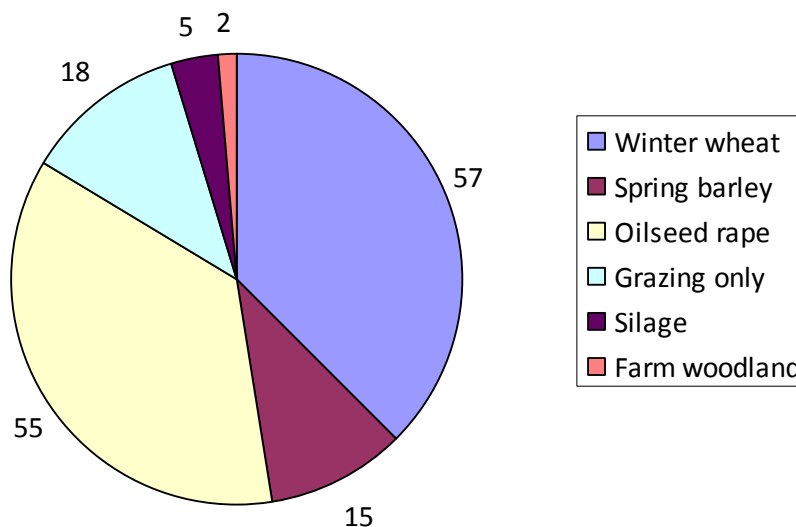
## ARABLE FARM, Kingston Deverill sub-catchment



Hampshire Avon  
Demonstration Test Catchment

Farm size: 152 Ha  
 Business structure: Sole trader  
 Diversified activities: None  
 Soil types: Heavy clay and greensand  
 Schemes: CSF

### Land use (Ha):



### Mitigation measures:



#### **Soil management options:**

##### **Present use –**

- Cultivate land for crops in spring rather than autumn
- Adopt reduced cultivation systems
- Cultivate compacted tillage soils
- Cultivate and drill across slope
- Leave autumn seed bed rough
- Establish riparian buffer strips
- Allow field drainage systems to deteriorate
- Ditch management

##### **Future use –**

- Very likely:
  - Maintain and enhance soil organic matter levels
  - Maintain field drainage systems
- Likely:
  - Early harvesting/establishment in autumn
  - Loosen compacted soil layers in grassland fields
- Unlikely:
  - Manage overwinter tramlines
  - Establish in-field grass buffer strips



**Fertiliser management options:**

**Present use –**

- Fertiliser spreader calibration
- Use a fertiliser recommendation system
- Replace urea fertiliser with another nitrogen form (e.g. ammonium)
- Do not apply P fertiliser to high P index soils

**Future use –**

- Likely:            Use plants with improved nitrogen use efficiency
- Reduce fertiliser application rates
- Unlikely:        Use nitrogen inhibitors
- Use clover in place of grass



**Farm infrastructure options:**

**Present use –**

- Farm track management
- Establish new hedges

**Future use –**

- Unlikely:        Fence off rivers and streams from livestock
- Re-site gateways away from high-risk areas
- Irrigate crops to achieve maximum yield
- Never:            Establish and maintain artificial wetlands

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The Hampshire Avon DTC is being led by Professor Adrian Collins from ADAS. The first phase of the project runs until 31st March 2014. For further details please contact:

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If you would like to join the Hampshire Avon DTC and be part of this project, please get in touch. Your local knowledge, experience, expertise and advice will be invaluable in helping to develop the right catchment and farm management solutions for reducing pollution in the Hampshire Avon catchment.

