

# MIXED FARM, Kingston Deverill & Brixton Deverill sub-catchments



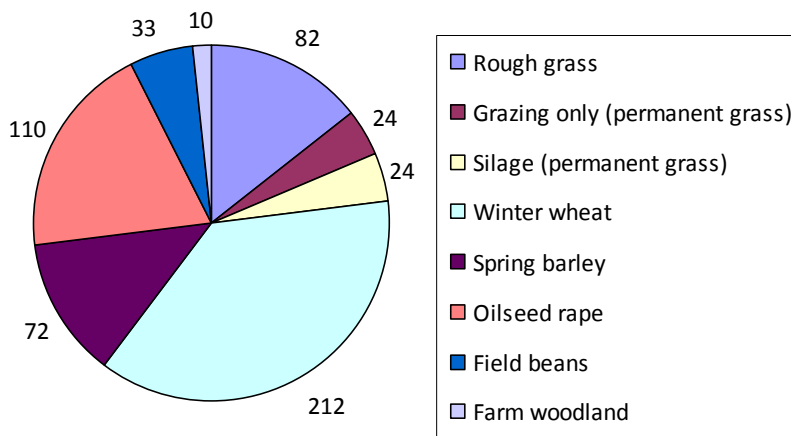
Hampshire Avon  
Denonstration Test Catchment

Farm size: 640 Ha  
 Business structure: Sole trader  
 Diversified activities: Yes, cottage lets  
 Soil types: Lower & upper chalk, greensand  
 Schemes: HLS, NVZ

## Land use (Ha):



**Average beef herd: 120**  
**Average sheep flock: 357**



## Mitigation measures:



### Land use change options:

**Present use –**  
 Establish permanent woodlands



### Soil management options:

**Present use –**  
 Early harvesting/establishment in autumn  
 Cultivate land for crops in spring rather than autumn  
 Adopt reduced cultivation systems  
 Cultivate compacted tillage soils  
 Cultivate and drill across slope  
 Leave autumn seedbed rough  
 Manage over-winter tramlines to reduce runoff  
 Maintain and enhance soil organic matter levels  
 Establish in-field grass buffer strips  
 Loosen compacted soil layers in grassland fields  
 Establish riparian buffer strips  
 Maintain field drainage systems  
 Ditch management



### Fertiliser management options:

#### Present use –

- Use plants with improved nitrogen use efficiency
- Fertiliser spreader calibration
- Use a fertiliser recommendation system
- Integrated fertiliser and manure nutrient supply
- Do not apply fertiliser to high-risk areas
- Avoid spreading fertiliser to fields at high-risk times
- Use nitrification inhibitors
- Replace urea fertiliser with another nitrogen form (e.g. ammonium)
- Incorporate a urease inhibitor with urea fertiliser
- Use clover in place of grass
- Do not apply P fertiliser to high P index soils



### Livestock management options:

#### Present use –

- Make use of improved genetic resources
- Reduce dietary N and P intakes
- Reduce field stocking rate when soils are wet
- Move feeders at regular intervals
- Construct troughs with a firm but permeable base
- Reduce overall stocking rates on livestock farms
- Additional targeted straw-bedding for cattle housing



### Manure management options:

#### Present use –

- Site solid manure heaps away from watercourses/field drains
- Change from a slurry to solid manure handling system
- Manure spreader calibration
- Do not apply manure to high-risk areas
- Do not spread slurry or poultry manure at high-risk times
- Do not spread FYM to fields at high-risk times
- Incorporate manure into the soil



### Farm infrastructure options:

#### Present use –

- Fence off rivers and streams from livestock
- Construct bridges for livestock crossing
- Re-site gateways away from high-risk areas
- Farm track management
- Establish new hedges
- Establish and maintain artificial wetlands
- Establish tree shelter belts around livestock housing and slurry storage

