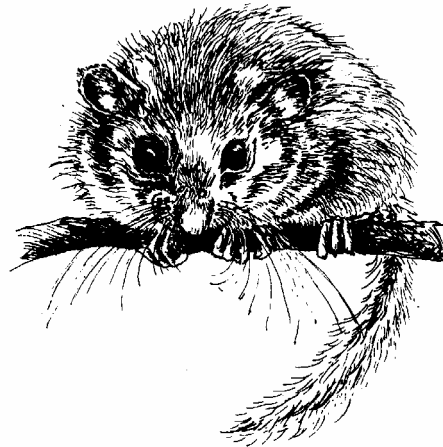




## Dormouse (*Muscardinus avellanarius*)



[This plan is awaiting review during 2009. The following text is from the 2002 plan and as such is in need of update.]

The dormouse has suffered a serious decline in distribution in the UK and until recently were thought to be extinct from Shropshire. This decline in range and probably numbers is the result of a number of factors including loss and fragmentation of habitat. Dormice are strongly associated with ancient woodlands, both deciduous and coniferous. They are also commonly found in mature hedgerows and scrub areas. With sufficient light, shrubs show an increase in flowering and fruiting, and this is beneficial to dormice.

Dormice are nocturnal animals that are only active for five months of the year. They live at low densities, are poor colonisers and have a low reproductive rate. Dormice are specialist feeders and eat a variety of flowers, fruits and insects. Within their small territories they build several nests: summer shelter and breeding nests are usually above ground in tangles of vegetation or tree holes, and winter hibernation nests are normally at ground level but have been known in tree holes.

### **1 Objectives and Targets**

#### **1.1 Objectives**

- A. Maintain existing populations and range of dormice in Shropshire, ensuring no further loss or fragmentation
- B. Enhance the status of dormice in Shropshire by re-establishing previously occupied sites and creation of appropriate new habitat.
- C. Establish and maintain a comprehensive understanding of dormice distribution, status and ecological requirements in Shropshire through research, survey and monitoring.
- D. Promote communication, education and awareness of the status and needs of the dormouse.

# Shropshire Biodiversity Action Plan

## 2 Current Status

### 2.1 Importance

The dormouse is a priority species in the UK Biodiversity Programme and a national species action plan has been written. Dormice have statutory protection nationally and in Europe. The status of the dormouse in Shropshire is not fully known but they are undoubtedly vulnerable. They are often found in woods that are isolated and not appropriately managed for the conservation of dormice.

### 2.2 Trends

Dormice have been lost from 7 counties since the turn of the century, a 50% reduction in range. In Shropshire many sites have been lost and there is also evidence of temporary losses from woodlands such as Huglith and Hope Valley where dormice were not recorded for several years. Loss is often due to inappropriate woodland management and return of dormice due to the expansion of existing populations on adjacent sites.

### 2.3 Population and Distribution

Dormice in the UK are on the northwest edge of their European range. In the UK, dormice are mainly found in southern England, with small populations in northern counties such as Cumbria and Northumberland.

In Shropshire dormice are mainly found in the southwest of the county. Records are centred on Clun, Wenlock Edge and Habberley. Large areas such as Bridgnorth to Cleobury and Mortimer and Chirbury to Church Stoke have not yet been surveyed to determine distribution in more detail.

## 3 Current Factors Affecting the Species

- Climate – Conditions such as wet, cold summers, mild winters and early frost are unfavourable for dormice. Their distribution corresponds to areas with less than 100mm annual rainfall and a mean July temperature of 16.5°C.
- Ecological requirements and characteristics – Dormice are active only 5 months each year, require a diverse, continuous shrub layer, are poor colonisers, and have low reproductive rates.
- Habitat loss – Dormice are strongly associated with ancient woodland, scrub and old hedgerow systems. Ancient woodland and old hedgerows have declined significantly during the past 50 years.
- Habitat management – Inappropriate management of woodlands and hedgerows has made these habitats less suitable for dormice. Dense, even-aged woodlands with poor or undeveloped shrub layers are sub-optimal for dormice.
- Competitors and grazing – Free-ranging stock and deer can damage the shrub layer in woodlands, eliminating valuable food such as fruits and flowers; grey squirrels often outcompete dormice for hazelnuts, a valuable pre-hibernation food source.
- Habitat fragmentation and isolation – Destruction of woodlands leads to fragmentation and loss of suitable dormouse habitat.
- Lack of site protection – There are no sites in Shropshire protected or managed primarily for dormice.

# Shropshire Biodiversity Action Plan

## 4 Current Action

### 4.1 Policy and Protection

- The dormouse is protected by the Bonn Convention and EC Habitats Directive.
- The dormouse is fully protected under Schedule 5 of the Wildlife and Countryside Act 1981 and Schedule 2 of The Habitat Regulations 1994. However dormice sites can still be damaged through inappropriate management unless designated as Sites of Special Scientific Interest or as candidate Special Areas for Conservation.
- The Hedgerow Regulations 1997 protect some hedgerows from damaging operations and therefore benefit dormice.

### 4.2 Management, Research and Survey

- Grant-aid for habitat management from Environmentally Sensitive Areas (ESAs) and Woodland Grant schemes can improve the value of woodlands and hedgerows for dormice.
- A pilot management plan by Shropshire County Council at Polesgate Farm in the Shropshire Hills ESA promotes favourable land management for dormice and other species.
- The National Dormouse Monitoring Scheme funded by English Nature includes a Shropshire woodland.
- The Forestry Commission is undertaking a national study into the value of conifer woodlands for dormice. One study site is in Shropshire.
- Recent survey work in Shropshire has uncovered new sites for dormice: some on common land adjacent to ancient woodlands and some in small woods less than 10 hectares.

## 5 Key Habitats

- Ancient coppice woodland with standards
- High forest woodland
- Ancient woodland replanted with conifers
- Hedgerows, scrub and overgrown gardens

## 6 Complementary Plans

UK Dormouse SAP

Shropshire Hedgerow HAP

Shropshire Semi-Natural Broadleaved Woodland HAP

Shropshire Otter SAP

## Shropshire Biodiversity Action Plan

### TARGETS

Habitat /species name	Target Type	Target Code	Target Text	Units	2005 Base line	2010 Target	2015 Target	Target description	Monitoring	Comments
Dormouse	Pop. Size	SHR DOR T01	Increase appropriate management at 2 sites by 2010	Sites	0	2	4	Three sites with existing interest should be selected.	Boxes should be used at both sites for monitoring.	This target has been achieved
Dormouse	Range	SHR DOR T02	Maintain existing range.	10km <sup>2</sup>	20	20	20	Ensure no loss of existing range of this species.	Survey work will be fed to Shropshire Mammal Group for reporting current distribution. 20 year cut off period for old records.	10km <sup>2</sup> used to fit with UKBAP targets.
Dormouse	Range	SHR DOR T03	Maintain existing range.	1km <sup>2</sup>	153	153	153	Ensure no loss of range of this species.	Survey work will be fed to Shropshire Mammal Group for reporting current distribution. 20 year cut off period for old records.	1km <sup>2</sup> used on a local level to provide a more sensitive assessment of range.

## Shropshire Biodiversity Action Plan

### ACTIONS

Habitat / Species	Action code	Action text	Location of action	Start date	End date	Lead	Assisting
Dormouse	SHR DOR CA 01	Ensure a high level of communication between the Shropshire Mammal Group and the Forestry Commission with regard to PAWS management.	Shropshire	2006	-	FC	SMG, SBP
Dormouse	SHR DOR HC 01	Reversion of 0.5ha of coniferous woodland to broadleaved woodland per annum at Hope Coppice	Hope Coppice – Hope Valley Nature Reserve	2006	2010	SWT	
Dormouse	SHR DOR HC 02	Reversion of at least 1ha of coniferous woodland to broadleaved woodland per annum at Wenlock Edge	Wenlock Edge	2006	2010	NT	
Dormouse	SHR DOR HS 01	Establish scalloping on 0.5km of rides per annum at Eastridge	Eastridge Wood (SJ385032)	2006	2010	FC	
Dormouse	SHR DOR SU 01	Survey 5 sites per annum for presence / absence of Dormice until 2015	Shropshire	2006	2015	SWT	NE, SMG, NT
Dormouse	SHR DOR SU 02	Carry out Dormouse survey work at Edge Wood annually until 2011.	Shropshire	2009	2011	SWA	

#### Key to organisation

SMG Shropshire Mammal Group  
 FC Forestry Commission  
 NE Natural England  
 NT National Trust  
 SWT Shropshire Wildlife Trust  
 SBP Shropshire Biodiversity Partnership

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**Pdf correct on 17.03.200**

# Shropshire Biodiversity Action Plan