

## **SPECIES CRITERIA**

### **S1) MAMMALS**

Those species in **bold** are afforded 'European Protected Species' status through the European Habitats Directive (1992) implemented in UK law by The Conservation (Natural Habitats & c) Regulations 1994.

#### Mammals (excluding Bats)

The following will be selected:

- Any sites supporting breeding (or probable breeding) species (other than bats), which are listed as fully or partially protected on Schedule 5 of the Wildlife & Countryside Act 1981 (as amended), together with any areas that are critical for nesting, foraging (laying up), territorial or other significant use, will be selected. These species currently comprise:

water vole (*Arvicola terrestris*)  
**otter (*Lutra lutra*)**  
pine marten (*Martes martes*)  
**dormouse (*Muscardinus avellanarius*)**  
red squirrel (*Sciurus vulgaris*)

- The presence of established breeding populations of the following species, which are nationally declining, regionally important or UK/LBAP Priority Species or statutory protected species, together with any areas that are critical for nesting, foraging, territorial or other significant use are key associated species for SINC selection. These species currently comprise:

brown hare (*Lepus europaeus*)  
harvest mouse (*Micromys minutus*)  
water shrew (*Neomys fodiens*)  
yellow-necked mouse (*Apodemus flavicollis*)  
badger (*Meles meles*)

#### Bats

The following will be selected:

- Any significant roosting sites, including vital flight and commuting routes, and important feeding areas attached to roosts. Also included should be any structures such as tunnels, icehouses, basements, gunnery emplacements, pill boxes, etc., which are used as roosts.

N.B. 'Roosts' include maternity, pre/post-maternity, hibernation, mating and male roosts. Of particular importance are roosts of multi-species occupancy and feeding sites targeted by several species.

- Any significant winter roosting sites (hibernation roosts) of any of the species found in Table 8.

<b>Table 8. Bats recorded in the Mid-Valleys Area</b>			
<b>Species</b>		<b>Priority or Section 42 Species</b>	<b>Species of Conservation Concern</b>
<b>Barbastelle</b> ( <i>Barbastella barbastellus</i> )	++	X	
<b>Bechstein's</b> ( <i>Myotis bechsteinii</i> )	++	X	
<b>Brandt's</b> ( <i>Myotis brandti</i> )	+		X
<b>Brown long-eared</b> ( <i>Plecotus auritus</i> )	+	X	
<b>Common pipistrelle</b> ( <i>Pipistrellus pipistrellus</i> )	++	X	
<b>Daubenton's</b> ( <i>Myotis daubentoni</i> )	+		X
<b>Greater horseshoe</b> ( <i>Rhinolophus ferrumequinum</i> )	++	X	
<b>Leislars</b> ( <i>Nyctalus leisleri</i> )	+		X
<b>Lesser horseshoe</b> ( <i>Rhinolophus hipposideros</i> )	++	X	
<b>Nathusius' pipistrelle</b> ( <i>Pipistrellus nathusii</i> )	+		X
<b>Natterer's</b> ( <i>Myotis nattereri</i> )	+		X
<b>Noctule</b> ( <i>Nyctalus noctula</i> )	+	X	
<b>Serotine</b> ( <i>Eptesicus serotinus</i> )	+		X
<b>Soprano pipistrelle</b> ( <i>Pipistrellus pygmaeus</i> )	++	X	
<b>Whiskered</b> ( <i>Myotis mystacinus</i> )	+		X

## S2) BIRDS

Tables 9 & 10 below set out an assessment of those bird species, which are considered to be of conservation significance in South Wales. The *South Wales Guidelines* developed two lists, the *Breeding Birds of Conservation Significance in Gwent, Glamorgan and Carmarthenshire* and the *Wintering and Passage Birds of Conservation Significance in Gwent, Glamorgan and Carmarthenshire*. Each of these has been split into two, indicating those species that are of such significance to allow the designation of a SINC (list 'A'), and those that would contribute to the designation (list 'B'). To provide a Mid-Valleys area perspective, species that are rare, local or of particular importance in the area have been added to list 'B' as contributory species and some of the species listed as contributory in the *South Wales Guidelines* have been upgraded to the 'A' list.

On this basis, the following will be selected:

- Sites supporting breeding populations, of any size, of species marked with an 'A' in Table 9
- Sites supporting wintering or regular passage refuelling populations, of any size, of species marked with an 'A' in Table 10.
- Any site with 100 or more bird species recorded in previous 5 years

In addition all species on list 'B' will be identified as contributory features within a habitat designation.

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 9. Breeding Birds of Conservation Significance in the Mid-Valleys Area**

Species <sup>1</sup>	National Status			Local Status A = Designates B = Contributes
	WCA1	Red/Amber	Section 42	
Buzzard, Honey		A		A
Cormorant		A		A
Curlew		R	X	A
Falcon, Peregrine	X	A		A
<b>Goshawk</b>	X			A
Grouse, Red		R	X	A
Harrier, Hen	X	R	X	A
Hobby	X	A		A
Kite, Red		A		A
Lapwing		R	X	A
Merlin	X	A		A
Nightjar		A	X	A
Ouzel, Ring		R	X	A
<b>Owl, Barn</b>	X	A		A
Owl, Long-eared		A		A
Owl, Short-eared		A		A
Partridge, Grey		R	X	A
Plover, Golden		R	X	A
Plover, Little-ringed	X	-		A
Plover, Ringed		R	X	A
Rail, Water		A		A
Snipe, Common		A		A
Sparrow, Tree		R	X	A
Teal, Eurasian		A		A
Tit, Marsh		R	X	A
Tit, Willow		R	X	A
Warbler, Dartford	X	A		A
<b>Warbler, Grasshopper</b>		R	X	A
Woodpecker, Lesser-spotted		R	X	A
Yellowhammer		R	X	A
Bullfinch		R	X	B
Bunting, Reed		A	X	B
<b>Coot</b>				B
Crossbill, Common	X	-		B
Cuckoo		A	X	B
<b>Dipper</b>				B
<b>Flycatcher, Pied</b>			X	B
Flycatcher, Spotted		A	X	B
<b>Goosander</b>				B
<b>Grebe, Little</b>				B
Gull, Herring		A	X	B
Gull, Lesser black-backed		A		B
<b>Heron, Grey (heronries)</b>				B
Kestrel		A	X	B
Kingfisher	X	A		B
Linnet		A	X	B
Martin, Sand		A		B

<sup>1</sup> New species added to the table are highlighted in **bold**

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 9. Breeding Birds of Conservation Significance in the Mid-Valleys Area**

Species <sup>1</sup>	National Status			Local Status A = Designates B = Contributes
	WCA1	Red/Amber	Section 42	
Owl, Little				B
Pipit, Tree			X	B
Pochard				B
Raven				B
Redpoll			X	B
Redstart		A		B
Rook (rookeries)				B
Sandpiper, Common				B
Skylark		A	X	B
Sparrow, House		R	X	B
Starling		R	X	B
Stonechat		A		B
Swan, Mute				B
Thrush, Song		A	X	B
Tufted duck				B
Warbler, Reed				B
Warbler, Sedge				B
Warbler, Wood			X	B
Wheatear				B
Whinchat				B
Whitethroat, Lesser				B
Wigeon				B
Woodcock		A		B
Woodpecker, Green		A		B

**Table 10. Wintering and Passage Birds of Conservation Significance in the Mid-Valleys Area**

Species	National Status			Local Status A = Designates B = Contributes
	WCA1	Red/Amber	Section 42	
Bittern		R	X	A
Egret, Little		A		A
Grouse, Red		R	X	A
Harrier, Marsh	X	-		A
Harrier, Hen	X	R	X	A
Owl, Barn	X	A		A
Owl, Long-eared		A		A
Owl, Short-eared		A		A
Partridge, Grey		R	X	A
Plover, Golden		R	X	A
Rail, Water		A		A
Sparrow, Tree		R	X	A
Warbler, Aquatic		-	X	A
Warbler, Dartford	X	A		A
Bullfinch		R	X	B
Bunting, Reed		A	X	B
Coot				B
Cormorant, Great (roosts)		A		B
Curlew		R	X	B

**Table 10. Wintering and Passage Birds of Conservation Significance in the Mid-Valleys Area**

Species	National Status			Local Status A = Designates B = Contributes
	WCA1	Red/Amber	Section 42	
<b>Dipper</b>				B
<b>Duck, Tufted</b>				B
Falcon, Peregrine	X	A		B
Firecrest	X	A		B
<b>Goosander</b>				B
<b>Grebe, Little</b>				B
Gull, Great Black-backed		A		B
<b>Heron (heronries)</b>				B
Kestrel		A	X	B
Kingfisher	X	A		B
Lapwing		R		B
Linnet		A	X	B
Merlin	X	A		B
<b>Owl, Little</b>				B
Plover, Ringed		R	X	B
<b>Pochard</b>				B
<b>Raven</b>				B
<b>Rook (rookeries)</b>				B
<b>Sandpiper, Common</b>				B
Skylark		A	X	B
Snipe, Common		A		B
Sparrow, House		A	X	B
Starling (roosts)		R	X	B
Stonechat		A		B
<b>Swan, Mute</b>				B
Teal, Eurasian		A		B
Thrush, Song		A	X	B
Tit, Marsh		R	X	B
Tit, Willow		R	X	B
Wagtail, Yellow		A	X	B
Wigeon		A		B
Woodcock		A		B
Woodpecker, Green		A		B
Woodpecker, Lesser-spotted		R	X	B
Yellowhammer		R	X	B

WCA1

Red/Amber

Section 42

Wildlife and Countryside Act 1981 Schedule 1

Red List (High Concern); Amber List (Medium Concern) Thorpe, R.I. & Young, A (2003)

Section 42 Natural Environment and Rural Communities Act 2006 *Species and Habitats of Principle Importance for the Conservation of Biodiversity in Wales* (WAG, 2007)

### **S3) REPTILES**

Four species of reptile occur in the Mid-Valleys area, all of which are partially protected under Schedule 5 of the Wildlife & Countryside Act 1981. These are slow worm, common lizard, adder and grass snake.

The following will be selected:

- All sites with adder or grass snake colonies

In addition the occurrence of slow worm and common lizard will be considered a supporting reason for selection of a site, which also qualifies under other criteria (i.e. on habitat grounds or for species other than reptiles).

Sites with significant populations of 1 or more reptile species will also be considered for selection.

Reptile surveys should be carried out in accordance with best practice guidelines and the most appropriate for the habitat type present on site.

## **S4) AMPHIBIANS**

Five species of amphibian occur in the Mid-Valleys area. These are common frog, common toad, smooth newt, palmate newt and great crested newt. Of these, only the great crested newt is listed as fully protected under Schedule 5 of the Wildlife & Countryside Act 1981 (as amended) and is also protected by the Conservation (Natural Habitats, etc) Regulations 1994 (as amended).

Amphibians rely on both terrestrial and aquatic habitats; therefore site designations will include both types. This is particularly applicable to the great crested newt, which occurs in metapopulations that use clusters of ponds. Groups of ponds may be selected as single sites where these all lie reasonably close to each other and there is a good probability that migration of amphibians occurs between the ponds, together with an appropriate surrounding area of terrestrial habitat.

The following will be selected:

- Sites supporting 4 or more species of amphibian
- All great crested newt sites

In addition the occurrence of any amphibian will be considered a supporting reason for selection of a site, which also qualifies under other criteria (i.e. on habitat grounds or for species other than amphibians).

Sites with significant populations of 1 or more amphibian species will also be considered for selection.



## S5) FISH

The following should be considered for selection:

- Water bodies supporting resident populations of any species listed in Table 11 below
- Watercourses regularly used as migratory routes by anadromous species listed in Table 11 below

Of the naturally occurring species, Table 11 contains those that are of direct conservation concern in the Mid-Valleys area.

Other rare or regionally uncommon species may also occur, but will most probably be the result of introductions. These will require individual consideration by an appropriate specialist. National rarities that could be found, include arctic charr, brook charr and species of whitefish (*Coregonus* sp.). Species that could be regionally significant if found as a naturally occurring population include barbel, silver bream, ruffe and 10-spined stickleback.

<b>Table 11. Freshwater fish of conservation significance in the Mid-Valleys Area</b>					
<b>Species</b>	<b>Type</b>	<b>S42</b>	<b>Berne</b>	<b>EC</b>	<b>LBAP</b>
<i><b>Nationally/Internationally Significant</b></i>					
River Lamprey	Ea	X	X	X	X
Brook Lamprey	E		X	X	X
Atlantic Salmon	Ea	X	X	X	X
Grayling	S		X		
Common Goby	E				
Bullhead	S			X	X
<i><b>Regionally Significant</b></i>					
Bleak	S				
Smelt	Ea				
Brown Trout	S	X			X
Sea Trout (Sewin)	Ea	X			X
<i><b>Locally Significant</b></i>					
Gudgeon					
European (common) eel	S	X			X

Type E = Euryhaline (lives in both salt and freshwater)

S = Stenohaline (freshwater only)

a = Anadromous (matures in sea, migrates into freshwater to spawn)

S42 Section 42 Natural Environment and Rural Communities Act 2006 *Species and Habitats of Principle Importance for the Conservation of Biodiversity in Wales* (WAG, 2007)

WCA5 Wildlife & Countryside Act Schedule 5 (fully protected)

Berne Berne Convention Schedule III; Migratory species requiring conservation

EC European Habitats Directive (1992) Annex II or IV; species requiring conservation

LBAP Local Biodiversity Action Plan species

## S6) INVERTEBRATES

### General Invertebrate Criteria

The following will be selected:

- Any site which supports a species that is listed in the UK Red Data Book or the Natural Environment and Rural Communities Act 2006 Section 42 list (WAG, 2007) (unless refinements have been made below for certain taxa groups).

Refinements to the above criterion have been made for Lepidoptera (as detailed below) to exclude some butterflies and those moth species listed for research purposes only.

In addition, the occurrence of the following will be supporting reasons for selection of a site, which also qualifies under other criteria (i.e. on habitat grounds):

- Any site which supports an important assemblage or population(s) of ‘Nationally Scarce’ species (to be determined in consultation with the appropriate experts).
- Any site that supports a species, recorded from 10 or fewer 10km grid squares in Wales (where the distribution is well known).
- Any site that supports a species that breeds in 4 or fewer sites in the Mid-Valleys area (where the distribution is well known).
- Any site that support a significant population or assemblage of LBAP priority species.

### **Additional Invertebrate Criteria**

#### Lepidoptera (Butterflies and Moths)

#### ***Butterflies***

The following will be selected:

- Any site that supports a Natural Environment and Rural Communities Act 2006 Section 42 species (WAG, 2007) and/or a species that fulfils the criteria for a Wales Action Plan Priority Species (Butterfly Conservation, in prep), as shown in list ‘A’ in Table 12a below.

Sites will also be considered for selection with 2 or more species from list ‘B’ in Table 12a, other LBAP species not already included or where 10 or more species of any butterfly occur (including common species).

The determination of site boundaries should reflect all elements necessary to support the qualifying species or communities, including presently unoccupied sites, which form part of the metapopulation habitat resource (i.e. habitat requirements, larval food plants and nectar sources).

‘Significance’ has been determined by the LBAP partnerships in consultation with Butterfly Conservation and the Vice-County recorders.

**Table 12a. Butterflies of conservation significance (Section 42 species and priority species in the *Butterfly Conservation Wales Action Plan*, in prep.)**

<b>List 'A'</b>	<b>List 'B'</b>
Grizzled Skipper ( <i>Pyrgus malvae</i> )	Dingy Skipper ( <i>Erynnis tages</i> )
Brown Hairstreak ( <i>Thecla betulae</i> )	Wood White ( <i>Lepidea sinapsis</i> )
Silver-studded Blue ( <i>Plebius argus</i> )	White-letter Hairstreak ( <i>Satyrium w-album</i> )
Small Blue ( <i>Cupido minimus</i> )	Small Pearl-bordered Fritillary ( <i>Bolaria selene</i> )
High Brown Fritillary ( <i>Argynnis adippe</i> )	Grayling ( <i>Hipparchia semele</i> )
Marsh Fritillary ( <i>Euphydryas aurinia</i> )	Small heath ( <i>Coenonympha pamphilus</i> )
Pearl-bordered Fritillary ( <i>Bolaria euphrosyne</i> )	Large heath ( <i>Coenonympha tullia</i> )
	White admiral ( <i>Limenitis camilla</i> )
	Wall ( <i>Lasiommata megera</i> )
	Silver-washed Fritillary ( <i>Argynnis paphia</i> )*
	Dark Green Fritillary ( <i>Argynnis aglaja</i> )*
	Marbled white ( <i>Melanargia galathea</i> )*

### ***Moths***

The following will be selected:

- Any site that supports a Natural Environment and Rural Communities Act 2006 Section 42 species (WAG, 2007) and/or a species that fulfils the criteria for a Wales Action Plan Priority Species (Butterfly Conservation, in prep), as listed in Table 12b below.

Sites that support significant populations or assemblages of species that fulfil the criteria for priority species listed in the Wales Action Plan (Butterfly Conservation, in prep.), which are not already listed in Table 12b will be considered for selection. 'Significance' has been determined by the LBAP partnerships in consultation with Butterfly Conservation and the Vice-County recorders. Section 42 Addendum 4 species (those that have been removed from the UK Priority List) are still included in these criteria.

**Table 12b. Moths of conservation significance**

<b>Macro Moths</b>
Welsh Clearwing <i>Synanthedon scoliaeformis</i>
Scarce hook-tip <i>Sabra harpagula</i>
Weaver's wave <i>Idaea contiguaria</i>
The Silurian <i>Eriopygodes imbecilla</i>
Silky Wave <i>Idaea dilutaria</i>
Belted Beauty <i>Lycia zonaria</i>
White-spotted Pinion <i>Cosmia diffinis</i>
Orange Upperwing <i>Jodia croceago</i>
Swordgrass <i>Xylena exsoleta</i>
Double line <i>Mythimna turca</i>
Waved carpet <i>Hydrelia sylvata</i>
Goat moth <i>Cossus cossus</i>
Forester <i>Adscita statices</i>
Dingy Mocha <i>Cyclophora pendularia</i>
Silky Wave <i>Idaea dilutaria</i>
Netted Carpet <i>Eustroma reticulata</i>
Argent and sable <i>Rheumaptera hastata</i>
Drab looper <i>Minoa murinata</i>
Narrow-bordered Bee Hawk-moth <i>Hemaris tityus</i>

Lunar Yellow Underwing <i>Noctua orbona</i>
Ashworth's Rustic <i>Xestia ashworthii</i>
Pale Shining Brown <i>Polia bombycina</i>
Bordered Gothic <i>Heliophobus reticulata</i>
<b>Micro Moths</b>
Currant-shoot Borer <i>Lampronia capitella</i>
Scarce Long-horn Moth <i>Nematopogon magna</i>
Pied Tineid Moth <i>Nemapogon picarella</i>
Scarce Aspen Midget Moth <i>Phyllonorycter sagitella</i>
Greenweed Flat-body Moth <i>Agonopterix atomella</i>
Scarce Crimson And Gold <i>Pyrausta sanguinalis</i>
White-spotted Sable Moth <i>Anania funebris</i>

### ***Odonata (Dragonflies and Damselflies)***

The following will be selected:

- Any site which supports a species from list 'A' in Table 13.

In addition sites, which support significant populations or assemblages of species in, list 'B' of Table 13 will contribute towards the designation of sites that qualify under other criteria. The determination of site boundaries should include foraging areas for adults as well as breeding water-bodies.

<b>Table 13. Dragonflies and Damselflies of conservation significance</b>	
<b>List 'A'</b>	<b>List 'B'</b>
Small Red Damselfly ( <i>Ceriagrion tenellum</i> )	Beautiful Demoiselle ( <i>Calopteryx virgo</i> )
Southern Damselfly ( <i>Coenagrion mercuriale</i> )	Banded Demoiselle ( <i>Calopteryx splendens</i> )
Hairy Dragonfly ( <i>Brachytron pratense</i> )	Emerald Damselfly ( <i>Lestes sponsa</i> )
Club-tailed Dragonfly ( <i>Gomphus vulgatissimus</i> )	Scarce Blue-tailed Damselfly ( <i>Ischnura pumilio</i> )
Downy Emerald ( <i>Cordulia aenea</i> )	Brown Hawker ( <i>Aeshna grandis</i> )
Keeled Skimmer ( <i>Orthetrum coerulescens</i> )	Golden-ringed Dragonfly ( <i>Cordulegaster boltonii</i> )
	Black-tailed Skimmer ( <i>Orthetrum cancellatum</i> )
	Black Darter ( <i>Sympetrum danae</i> )
	<u>Common hawker (<i>Aeshna juncea</i>)</u>

### ***Orthoptera (Grasshoppers and allied insects)***

The following will be selected:

- Any site which supports a species, which is 'Nationally Scarce'.
- Any site which supports a species from list 'A' in Table 14 below.
- Any site which supports 3 or more species from list 'B' in Table 14.

In addition the occurrence of species in List 'B' will be a supporting reason for selection of a site, as a species assemblage, which also qualifies under other criteria.

<b>Table 14. Grasshoppers and allied insects of conservation significance</b>	
<b>List 'A'</b>	<b>List 'B'</b>
Bog Bush cricket ( <i>Metrioptera brachyptera</i> )	Oak Bush cricket ( <i>Meconema thalassinum</i> )
Roesel's Bushcricket ( <i>Metrioptera roeseli</i> )	Short-winged Conehead ( <i>Conocephalus dorsalis</i> )
Long-winged Conehead ( <i>Conocephalus discolor</i> )	Speckled Bush cricket ( <i>Leptophyes punctatissima</i> )
House Cricket ( <i>Acheta domesticus</i> )	Slender Groundhopper ( <i>Tetrix subulata</i> )
Lesne's Earwig ( <i>Forficula lesnei</i> )	Lesser Marsh Grasshopper ( <i>Chorthippus albomarginatus</i> )
	Mottled Grasshopper ( <i>Myrmeleotettix maculatus</i> )
	Lesser earwig ( <i>Labia minor</i> )

Other species are not included at this time, but sites with assemblages of 7 or more species will be considered for selection; including the following:

- Dark bush cricket (*Pholidoptera griseoptera*)
- Common groundhopper (*Tetrix undulata*)
- Common green grasshopper (*Omocestus viridulus*)
- Field grasshopper (*Chorthippus brunneus*)
- Meadow grasshopper (*Chorthippus parallelus*)
- Common earwig (*Forficula auricularia*)

### ***Other Invertebrate Taxa Groups***

Other invertebrate taxa will be included in these criteria as more records and other information comes to light, e.g. *Arachnidae*, *Coleoptera*, etc.

## S7) VASCULAR PLANTS

The following will be selected:

- Any site with one or more primary species present (list 'A' species in Table 15)

In addition the occurrence of a contributory species from list 'B' in Table 15 will be a supporting reason for selection of a site, which also qualifies under other criteria.

The lists in Table 15 have been reproduced in these criteria for the Mid-Valleys area unaltered from the *South Wales Guidelines* and will therefore contain some species that do not occur or have not been recorded in the area, in particular coastal and marine species.

<b>Table 15. Rare, scarce &amp; declining species</b>				
<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Aconitum napellus sens. lat.</i> (monk's hood)	1987-1999	Native	15	A
<i>Adiantum capillus-veneris</i> (maidenhair fern)	1987-1999	Native	5	A
<i>Agrostemma githago</i> (corncockle)	1987-1999	Alien	1	A
<i>Agrostis curtisii</i> (bristle bent)	1987-1999	Native	13	A
<i>Alchemilla filicaulis subsp. filicaulis</i> (Ladies mantle)	1987-1999	Native	5	A
<i>Alisma lanceolatum</i> (narrow-leaved water-plantain)	1987-1999	Native	13	A
<i>Allium ampeloprasum</i> (wild leek)	1987-1999	Alien	1	A
<i>Allium schoenoprasum</i> (chives)	1987-1999	Native	1	A
<i>Alopecurus aequalis</i> (orange foxtail)	1987-1999	Native	5	A
<i>Alopecurus bulbosus</i> (bulbous foxtail)	1987-1999	Native	14	A
<i>Althaea hirsuta</i> (rough marsh mallow)	1987-1999	Alien	1	A
<i>Anagallis arvensis subsp. foemina</i> (blue pimpernel)	1987-1999	Alien	2	A
<i>Anagallis minima</i> (chaffweed)	1987-1999	Native	2	A
<i>Andromeda polifolia</i> (bog rosemary)	1987-1999	Native	4	A
<i>Antennaria dioica</i> (mountain everlasting)	1987-1999	Native	6	A
<i>Anthemis arvensis</i> (corn chamomile)	1987-1999	Alien	2	A
<i>Anthriscus caucalis</i> (bur-chervil)	1987-1999	Native	3	A
<i>Arabis glabra</i> (Tower mustard)	Pre-1970	Native	1	A
<i>Artemisia campestris</i> (Field wormwood)	1987-1999	Alien	1	A
<i>Arum italicum subsp. neglectum</i> (Italian cuckoopint)	1987-1999	Native	1	A
<i>Asparagus officinalis subsp. prostratus</i>	1987-1999	Native	2	A
<i>Asperula cynanchica</i> (squinancywort)	1987-1999	Native	13	A
<i>Asplenium obovatum</i> (lanceolate spleewort)	1987-1999	Native	2	A
<i>Asplenium viride</i> (green spleenwort)	1987-1999	Native	12	A
<i>Aster linosyris</i> (goldilocks aster)	1987-1999	Native	1	A
<i>Astragalus glycyphyllos</i> (wild liquorice)	1987-1999	Native	5	A
<i>Atriplex longipes</i> (long-stalked orache)	1987-1999	Native	6	A
<i>Atropa belladonna</i> (deadly nightshade)	1987-1999	Native	2	A
<i>Baldellia ranunculoides</i> (lesser water-plantain)	1987-1999	Native	8	A
<i>Blysmus compressus</i> (flat sedge)	1987-1999	Native	1	A
<i>Blysmus rufus</i> (saltmarsh flat sedge)	1987-1999	Native	1	A
<i>Brachypodium pinnatum</i> (tor-grass)	1987-1999	Native	6	A
<i>Brassica oleracea</i> (wild cabbage)	1987-1999	Native	8	A
<i>Bromus hordeaceus subsp. ferronii</i> (soft brome)	1987-1999	Native	7	A

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Bromus hordeaceus subsp. thominei</i> (soft brome)	1987-1999	Native	5	A
<i>Bromus hordeaceus x B. lepidus</i> (soft brome)	1987-1999	Alien	9	A
<i>Bromus secalinus</i> (rye brome)	1987-1999	Alien	3	A
<i>Bupleurum tenuissimum</i> (slender hare's-ear)	1987-1999	Native	5	A
<i>Butomus umbellatus</i> (flowering rush)	1987-1999	Native	9	A
<i>Callitriche brutia</i> (pedunculate water-starwort)	1987-1999	Native	11	A
<i>Campanula glomerata</i> (clustered bellflower)	1987-1999	Native	3	A
<i>Campanula latifolia</i> (giant bellflower)	1987-1999	Native	12	A
<i>Campanula patula</i> (spreading bellflower)	1987-1999	Native	7	A
<i>Campanula trachelium</i> (nettle-leaved bellflower)	1987-1999	Native	11	A
<i>Carex acuta</i> (slender tufted-sedge)	1987-1999	Native	7	A
<i>Carex aquatilis</i> (water sedge)	1987-1999	Native	6	A
<i>Carex diandra</i> (lesser tussock sedge)	Pre-1970	Native	2	A
<i>Carex digitata</i> (fingered sedge)	1987-1999	Native	3	A
<i>Carex dioica</i> (dioecious sedge)	1987-1999	Native	7	A
<i>Carex distans</i> (distant sedge)	1987-1999	Native	11	A
<i>Carex divisa</i> (divided sedge)	1987-1999	Native	1	A
<i>Carex divulsa subsp. leersii</i> (grey sedge)	1987-1999	Native	3	A
<i>Carex elata</i> (tufted sedge)	1987-1999	Native	3	A
<i>Carex elongata</i> (elongated sedge)	1987-1999	Native	1	A
<i>Carex humilis</i> (dwarf sedge)	1987-1999	Native	1	A
<i>Carex lasiocarpa</i> (slender sedge)	1987-1999	Native	1	A
<i>Carex limosa</i> (bog sedge)	1987-1999	Native	2	A
<i>Carex punctata</i> (dotted sedge)	1987-1999	Native	3	A
<i>Carex rostrata x C. vesicaria</i> (bottle sedge)	1987-1999	Native	2	A
<i>Carex viridula subsp. viridula</i> (small fruited yellow sedge)	1987-1999	Native	8	A
<i>Catabrosa aquatica</i> (whorl-grass)	1987-1999	Native	9	A
<i>Centaureum littorale</i> (seaside centaury)	1987-1999	Native	4	A
<i>Cephalanthera damasonium</i> (white helleborine)	1987-1999	Native	2	A
<i>Cephalanthera longifolia</i> (narrow-leaved helleborine)	1987-1999	Native	1	A
<i>Ceratophyllum submersum</i> (soft hornwort)	1987-1999	Native	8	A
<i>Chamaemelum nobile</i> (chamomile)	1987-1999	Native	3	A
<i>Chenopodium glaucum</i> (oak-leaved goosefoot)	1987-1999	Alien	1	A
<i>Chenopodium hybridum</i> (maple-leaved goosefoot)	1987-1999	Alien	3	A
<i>Chenopodium murale</i> (nettle-leaved goosefoot)	1987-1999	Alien	3	A
<i>Circaea alpina</i> (alpine enchanters-nightshade)	1987-1999	Native	1	A
<i>Cirsium tuberosum</i> (tuberous thistle)	1987-1999	Native	3	A
<i>Cladium mariscus</i> (great fen-sedge)	1987-1999	Native	3	A
<i>Clinopodium acinos</i> (basil thyme)	1987-1999	Native	6	A
<i>Clinopodium ascendens</i> (common calamint)	1987-1999	Native	12	A
<i>Clinopodium calamintha</i> (lesser calamint)	1987-1999	Native	3	A
<i>Coeloglossum viride</i> (frog orchid)	1987-1999	Native	6	A
<i>Coincya monensis subsp. monensis</i> (Isle of Man cabbage)	1987-1999	Native	2	A
<i>Colchicum autumnale</i> (meadow saffron)	1987-1999	Native	12	A
<i>Convallaria majalis</i> (lily-of-the-valley)	1987-1999	Native	9	A
<i>Crataegus laevigata</i> (Midland hawthorn)	1987-1999	Native	1	A
<i>Crepis biennis</i> (rough hawk's-bit)	1987-1999	Native	1	A
<i>Crepis paludosa</i> (marsh hawk's-beard)	1987-1999	Native	4	A
<i>Cryptogramma crispa</i> (parsley fern)	1987-1999	Native	7	A

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Cuscuta epithymum</i> (dodder)	Pre-1970	Native	5	A
<i>Cynoglossum germanicum</i> (green hound's-tongue)	Pre-1970	Native	2	A
<i>Cynoglossum officinale</i> (hound's tongue)	1987-1999	Native	13	A
<i>Cyperus longus</i> (galingale)	1987-1999	Native	1	A
<i>Daphne mezereum</i> (mezeoreon)	1987-1999	Native	2	A
<i>Descurainia sophia</i> (flixweed)	1987-1999	Alien	3	A
<i>Dianthus armeria</i> (Deptford pink)	1987-1999	Native	3	A
<i>Diphasiastrum alpinum</i> (alpine club-moss)	1987-1999	Native	2	A
<i>Dipsacus pilosus</i> (small teasel)	1987-1999	Native	8	A
<i>Draba aizoides</i> (yellow whitlowgrass)	1987-1999	Native	2	A
<i>Drosera anglica</i> (great sundew)	Pre-1970	Native	1	A
<i>Drosera intermedia</i> (oblong-leaved sundew)	1987-1999	Native	6	A
<i>Dryopteris aemula</i> (hay-scented buckler-fern)	1987-1999	Native	12	A
<i>Dryopteris expansa</i> (northern buckler-fern)	1970-1986	Native	1	A
<i>Dryopteris oreades</i> (mountain male-fern)	1987-1999	Native	5	A
<i>Dryopteris submontana</i> (rigid buckler-fern)	1970-1986	Native	1	A
<i>Elatine hexandra</i> (six-stamened waterwort)	1987-1999	Native	4	A
<i>Eleocharis acicularis</i> (needle spike rush)	1970-1986	Native	1	A
<i>Eleocharis uniglumis</i> (slender spike-rush)	1987-1999	Native	16	A
<i>Epilobium montanum</i> x <i>E. obscurum</i>	1987-1999	Native	1	A
<i>Epilobium montanum</i> x <i>E. parviflorum</i>	1987-1999	Native	1	A
<i>Epipactis leptochila</i> (narrow-lipped helleborine)	1987-1999	Native	2	A
<i>Epipactis phyllanthes</i> (green-flowered helleborine)	1987-1999	Native	3	A
<i>Equisetum arvense</i> x <i>E. fluviatile</i>	1987-1999	Native	9	A
<i>Equisetum hyemale</i> (rough horsetail)	1987-1999	Native	7	A
<i>Eriophorum gracile</i> (slender cotton-sedge)	1987-1999	Native	2	A
<i>Eriophorum latifolium</i> (broad-leaved cotton-sedge)	1987-1999	Native	14	A
<i>Erodium lebelii</i> (sticky stork's bill)	1987-1999	Native	4	A
<i>Erodium moschatum</i> (musk stork's-bill)	1987-1999	Alien	7	A
<i>Erophila glabrescens</i> (whitlow grass)	1987-1999	Native	6	A
<i>Erophila majuscula</i> (hairy whitlow grass)	1987-1999	Native	2	A
<i>Erysimum cheiranthoides</i> (treacle mustard)	1987-1999	Alien	11	A
<i>Euphorbia platyphyllos</i> (broad-leaved spurge)	1970-1986	Alien	2	A
<i>Euphorbia serrulata</i> (upright spurge)	1987-1999	Native	6	A
<i>Euphrasia arctica</i> x <i>E. confusa</i>	1987-1999	Native	2	A
<i>Euphrasia confusa</i> x <i>E. nemorosa</i>	1987-1999	Native	12	A
<i>Euphrasia confusa</i> x <i>E. scottica</i>	1987-1999	Native	5	A
<i>Euphrasia micrantha</i> (an eyebright)	1987-1999	Native	5	A
<i>Euphrasia pseudokernerii</i> (an eyebright)	1987-1999	Native	1	A
<i>Euphrasia rostkoviana</i> subsp. <i>Montana</i> (an eyebright)	1987-1999	Native	2	A
<i>Euphrasia scottica</i> (an eyebright)	1987-1999	Native	5	A
<i>Euphrasia tetraquetra</i> (an eyebright)	1987-1999	Native	11	A
<i>Festuca altissima</i> (wood fescue)	1987-1999	Native	6	A
<i>Festuca arenaria</i> (rush-leaved fescue)	1987-1999	Native	3	A
<i>Festuca filiformis</i> (fine-leaved sheep's-fescue)	1987-1999	Native	3	A
<i>Festuca lemarii</i> (confused fescue)	1987-1999	Native	1	A
<i>Festuca vivipara</i> (viviparous sheep's-fescue)	1987-1999	Native	1	A
<i>Filago vulgaris</i> (common cudweed)	1987-1999	Native	9	A
<i>Filipendula vulgaris</i> (dropwort)	1987-1999	Native	3	A



**Criteria for the Selection of SINCs in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Frankenia laevis</i> (sea-heath)	1987-1999	Alien	2	A
<i>Fumaria purpurea</i> (purple ramping-fumitory)	1987-1999	Native	1	A
<i>Fumaria vaillantii</i> (few flowered fumitory)	1987-1999	Alien	1	A
<i>Gagea lutea</i> (yellow star-of-Bethlehem)	1987-1999	Native	1	A
<i>Galeopsis angustifolia</i> (narrow-leaved hemp-nettle)	1987-1999	Alien	2	A
<i>Galium mollugo</i> x <i>G. verum</i>	1987-1999	Native	1	A
<i>Galium parisiense</i> (wall bedstraw)	Pre-1970	Native	1	A
<i>Galium sternerii</i> (limestone bedstraw)	1987-1999	Native	6	A
<i>Gastridium ventricosum</i> (nit-grass)	1987-1999	Native	3	A
<i>Gaudinia fragilis</i> (French oat-grass)	1987-1999	Native	1	A
<i>Genista pilosa</i> (hairy greenweed)	1987-1999	Native	1	A
<i>Gentianella anglica</i> (early gentian)	Pre-1970	Native	1	A
<i>Gentianella campestris</i> (field gentian)	1970-1986	Native	1	A
<i>Gentianella uliginosa</i> (dune gentian)	1987-1999	Native	4	A
<i>Geranium purpureum</i> (little robin)	Pre-1970	Native	2	A
<i>Geranium sanguineum</i> (bloody crane's-bill)	1987-1999	Native	11	A
<i>Geranium sylvaticum</i> (wood crane's-bill)	1987-1999	Alien	2	A
<i>Geum rivale</i> x <i>G. urbanum</i>	1987-1999	Native	14	A
<i>Gnaphalium sylvaticum</i> (heath cudweed)	1987-1999	Native	2	A
<i>Groenlandia densa</i> (opposite-leaved pondweed)	1970-1986?	Native	2	A
<i>Gymnocarpium robertianum</i> (limestone fern)	1987-1999	Native	8	A
<i>Hammarbya paludosa</i> (bog orchid)	1987-1999	Native	2	A
<i>Helianthemum oelandicum</i> (hoary rock-rose)	1987-1999	Native	4	A
<i>Helictotrichon pratense</i> (meadow oat-grass)	1987-1999	Native	7	A
<i>Herminium monorchis</i> (musk orchid)	Pre-1970	Native	2	A
<i>Hieracium radycense</i> (Radyr hawkweed)	1987-1999	Native	1	A
<i>Hippocrepis comosa</i> (horseshoe vetch)	1987-1999	Native	7	A
<i>Hordelymus europaeus</i> (wood barley)	1987-1999	Native	4	A
<i>Hordeum marinum</i> (sea barley)	1987-1999	Native	6	A
<i>Hornungia petraea</i> (hutchinsia)	1987-1999	Native	11	A
<i>Hottonia palustris</i> (water violet)	1987-1999	Native	1	A
<i>Huperzia selago</i> (fir clubmoss)	1987-1999	Native	12	A
<i>Hydrocharis morsus-ranae</i> (frogbit)	1987-1999	Native	8	A
<i>Hymenophyllum tunbrigense</i> (Tonbridge filmy-fern)	1987-1999	Native	5	A
<i>Hymenophyllum wilsonii</i> (Wilson's filmy-fern)	1987-1999	Native	11	A
<i>Hyoscyamus niger</i> (henbane)	1987-1999	Alien	8	A
<i>Hypericum montanum</i> (pale St John's-wort)	1987-1999	Native	8	A
<i>Hypochoeris glabra</i> (smooth cat's-ear)	1987-1999	Native	3	A
<i>Isoetes lacustris</i> (quillwort)	1987-1999	Native	2	A
<i>Juncus ambiguus</i> (frog rush)	1987-1999	Native	6	A
<i>Juncus compressus</i> (round-fruited rush)	1987-1999	Native	2	A
<i>Juniperus communis</i> (common juniper)	1987-1999	Native	3	A
<i>Kickxia spuria</i> (round-leaved fluellen)	1987-1999	Alien	5	A
<i>Lactuca virosa</i> (great lettuce)	1987-1999	Native	9	A
<i>Lathyrus aphaca</i> (yellow vetchling)	Pre-1970	Native	1	A
<i>Lathyrus japonicus</i> (sea pea)	Pre-1970	Native	1	A
<i>Lathyrus palustris</i> (marsh pea)	1987-1999	Native	2	A
<i>Lepidium latifolium</i> (dittander)	1987-1999	Native	1	A
<i>Limonium humile</i> (lax-flowered sea lavender)	1987-1999	Native	1	A
<i>Limonium procerum</i> subsp. <i>Procerum</i> (rock sea lavender)	1987-1999	Native	1	A

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Limosella aquatica</i> (mudwort)	Pre-1970	Native	4	A
<i>Limosella australis</i> (Welsh mudwort)	Pre-1970	Native	1	A
<i>Liparis loeselii</i> (fen orchid)	1987-1999	Native	4	A
<i>Lithospermum arvense</i> (field gromwell)	1987-1999	Alien	2	A
<i>Lithospermum purpureocaeruleum</i> (purple gromwell)	1987-1999	Native	3	A
<i>Lobelia dortmanna</i> (water lobelia)	1987-1999	Native	1	A
<i>Lobelia urens</i> (heath lobelia)	Pre-1970	Native	1	A
<i>Lolium temulentum</i> (darnel)	1987-1999	Alien	3	A
<i>Lotus glaber</i> (narrow-leaved bird's-foot trefoil)	1987-1999	Native	5	A
<i>Luronium natans</i> (floating water-plantain)	1970-1986	Native	1	A
<i>Luzula forsteri</i> (southern wood rush)	1987-1999	Native	9	A
<i>Luzula forsteri</i> x <i>L. pilosa</i>	1987-1999	Native	1	A
<i>Lycopodium clavatum</i> (stag's-horn club-moss)	1987-1999	Native	6	A
<i>Lysimachia thryssifolia</i> (tufted loosestrife)	1987-1999	Native?	1	A
<i>Lythrum hyssopifolia</i> (grass-poly)	1987-1999	Alien	1	A
<i>Marrubium vulgare</i> (white horehound)	1987-1999	Native	6	A
<i>Matthiola sinuata</i> (sea stock)	1987-1999	Native	6	A
<i>Mecanopsis cambrica</i> (Welsh poppy)	1987-1999	Native	7	A
<i>Medicago polymorpha</i> (toothed medick)	1987-1999	Native	1	A
<i>Melica nutans</i> (mountain melic)	1987-1999	Native	6	A
<i>Melittis melissophyllum</i> (bastard balm)	1987-1999	Native	2	A
<i>Mentha pulegium</i> (pennyroyal)	1987-1999	Alien	3	A
<i>Mibora minima</i> (early sand-grass)	1987-1999	Native	1	A
<i>Minuartia hybrida</i> (fine-leaved sandwort)	1987-1999	Native	1	A
<i>Misopates orontium</i> (weasel's-snout)	1987-1999	Alien	8	A
<i>Moenchia erecta</i> (upright chickweed)	1987-1999	Native	7	A
<i>Monotropa hypopitys</i> (yellow bird's-nest)	1987-1999	Native	8	A
<i>Myrica gale</i> (bog myrtle)	1987-1999	Native	12	A
<i>Myriophyllum verticillatum</i> (whorled water-milfoil)	1987-1999	Native	1	A
<i>Oenanthe aquatica</i> (fine-leaved water-dropwort)	1987-1999	Native	9	A
<i>Oenanthe pimpinelloides</i> (corky-fruited water-dropwort)	1987-1999	Native	1	A
<i>Ononis reclinata</i> (small restharrow)	1987-1999	Native	2	A
<i>Ophrys insectifera</i> (fly orchid)	1987-1999	Native	1	A
<i>Orchis ustulata</i> (burnt orchid)	1987-1999	Native	1	A
<i>Ornithogalum pyrenaicum</i> (spiked star-of-Bethlehem)	1987-1999	Alien	1	A
<i>Orobanche elatior</i> (knapweed broomrape)	Pre-1970	Native	5	A
<i>Orobanche purpurea</i> (yarrow broomrape)	Pre-1970	Native	1	A
<i>Orobanche rapum-genistae</i> (greater broomrape)	1987-1999	Native	9	A
<i>Orthilia secunda</i> (serrated wintergreen)	Pre-1970	Native	2	A
<i>Paeonia mascula</i> (peony)	1987-1999	Alien	1	A
<i>Papaver argemone</i> (prickly poppy)	1987-1999	Alien	2	A
<i>Papaver hybridum</i> (rough poppy)	1987-1999	Alien	1	A
<i>Parapholis incurva</i> (curved hard-grass)	1987-1999	Native	1	A
<i>Parentucellia viscosa</i> (yellow bartsia)	1987-1999	Native	4	A
<i>Parnassia palustris</i> (grass of Parnassus)	Pre-1970	Native	2	A
<i>Persicaria minor</i> (small water-pepper)	1987-1999	Native	3	A
<i>Persicaria mitis</i> (tasteless water-pepper)	1987-1999	Native	1	A
<i>Petrorhagia nanteuillii</i> (childing pink)	1987-1999	Alien	1	A
<i>Pilularia globulifera</i> (pillwort)	1987-1999	Native	1	A

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

<b>Table 15. Rare, scarce &amp; declining species</b>				
<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Pimpinella major</i> (greater burnet-saxifrage)	1970-1986	Native	1	A
<i>Platanthera bifolia</i> (lesser butterfly-orchid)	1987-1999	Native	16	A
<i>Poa angustifolia</i> (narrow-leaved meadow-grass)	1987-1999	Native	8	A
<i>Poa bulbosa</i> (bulbous meadow-grass)	1987-1999	Native	2	A
<i>Polygonatum multiflorum</i> (Solomon's-seal)	1987-1999	Native	12	A
<i>Polygonatum odoratum</i> (angular Solomon's-seal)	1987-1999	Native	2	A
<i>Polygonum oxyspermum</i> (Ray's knotgrass)	1987-1999	Native	6	A
<i>Potamogeton alpinus</i> (red pondweed)	1987-1999	Native	1	A
<i>Potamogeton coloratus</i> (fen pondweed)	1987-1999	Native	1	A
<i>Potamogeton gramineus</i> (various leaved pondweed)	1987-1999	Native	1	A
<i>Potamogeton gramineus x P. lucens</i>	1987-1999	Native	1	A
<i>Potamogeton gramineus x P. perfoliatus</i>	1987-1999	Native	1	A
<i>Potamogeton lucens</i> (shining pondweed)	1987-1999	Native	2	A
<i>Potamogeton lucens x P. perfoliatus</i>	Pre-1970	Native	1	A
<i>Potamogeton obtusifolius</i> (blunt-leaved pondweed)	1987-1999	Native	6	A
<i>Potamogeton perfoliatus</i> (perfoliate pondweed)	1987-1999	Native	8	A
<i>Potamogeton trichoides</i> (hairlike pondweed)	1987-1999	Native	6	A
<i>Potentilla argentea</i> (hoary cinquefoil)	1987-1999	Native	1	A
<i>Potentilla neumanniana</i> (spring cinquefoil)	1987-1999	Native	3	A
<i>Pseudorchis albida</i> (small white orchid)	1987-1999	Native	1	A
<i>Puccinellia fasciculata</i> (Borrer's saltmarsh-grass)	Pre-1970	Native	2	A
<i>Puccinellia rupestris</i> (stiff saltmarsh-grass)	1987-1999	Native	6	A
<i>Pulicaria vulgaris</i> (small fleabane)	Pre-1970	Native	1	A
<i>Pyrola minor</i> (common winter green)	1987-1999	Native	4	A
<i>Pyrus cordata</i> (Plymouth pear)	Pre-1970	Native	1	A
<i>Radiola linoidea</i> (allseed)	1987-1999	Native	1	A
<i>Ranunculus arvensis</i> (corn buttercup)	1987-1999	Alien	1	A
<i>Ranunculus baudotii</i> (brackish water crowfoot)	1987-1999	Native	13	A
<i>Ranunculus circinatus</i> (fan leaved water crowfoot)	1987-1999	Native	6	A
<i>Ranunculus fluitans</i> (river water crowfoot)	1987-1999	Native	8	A
<i>Ranunculus lingua</i> (greater spearwort)	1987-1999	Native	6	A
<i>Ranunculus parviflorus</i> (small-flowered buttercup)	1987-1999	Native	10	A
<i>Ranunculus penicillatus subsp.pseudofl.</i>	1987-1999	Native	8	A
<i>Ranunculus tripartitus</i> (three-lobed water-crowfoot)	1987-1999	Native	2	A
<i>Rhynchospora alba</i> (white beak-sedge)	1987-1999	Native	12	A
<i>Rhynchospora fusca</i> (brown beak-sedge)	Pre-1970	Native	1	A
<i>Rorippa amphibia</i> (great yellow-cress)	1987-1999	Native	6	A
<i>Rorippa amphibia x R. sylvestris</i>	1987-1999	Native	1	A
<i>Rorippa islandica</i> (Northern yellow-cress)	1987-1999	Native	13	A
<i>Rosa arvensis x R. canina</i>	1987-1999	Native	5	A
<i>Rosa caesia subsp. Caesia</i> (hairy dog-rose)	1970-1986	Native	2	A
<i>Rosa canina x R. obtusifolia</i>	1987-1999	Native	3	A
<i>Rosa canina x R. rubiginosa</i>	1987-1999	Native	1	A
<i>Rosa canina x R. sherardii</i>	1987-1999	Native	5	A
<i>Rosa canina x R. tomentosa</i>	1987-1999	Native	4	A
<i>Rosa micrantha</i> (small-flowered sweet-briar)	1987-1999	Native	11	A

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Rosa mollis</i> (soft downy-rose)	1987-1999	Native	7	A
<i>Rosa obtusifolia</i> (round-leaved dog-rose)	1987-1999	Native	1	A
<i>Rosa pimpinellifolia</i> x <i>R. sherardii</i>	1987-1999	Native	1	A
<i>Rosa rubiginosa</i> (sweet briar)	1987-1999	Native	7	A
<i>Rosa tomentosa</i> (harsh downy rose)	1987-1999	Native	12	A
<i>Rubus saxatilis</i> (stone bramble)	1987-1999	Native	8	A
<i>Rumex maritimus</i> (golden dock)	1987-1999	Native	2	A
<i>Rumex palustris</i> (marsh dock)	1987-1999	Native	3	A
<i>Rumex pulcher</i> (fiddle dock)	1987-1999	Native	3	A
<i>Rumex rupestris</i> (shore dock)	1987-1999	Native	1	A
<i>Ruppia cirrhosa</i> (spiral tasselweed)	Pre-1970	Native	1	A
<i>Ruppia maritima</i> (beaked tasselweed)	1987-1999	Native	4	A
<i>Ruscus aculeatus</i> (butcher's-broom)	1987-1999	Native	2	A
<i>Sagina subulata</i> (heath pearlwort)	1987-1999	Native	5	A
<i>Sagittaria sagittifolia</i> (arrowhead)	1987-1999	Native	5	A
<i>Salicornia europaea</i> (common glasswort)	1987-1999	Native	7	A
<i>Salicornia fragilis</i> (yellow glasswort)	1987-1999	Native	5	A
<i>Salicornia nitens</i> (shiny glasswort)	Pre-1970	Native	1	A
<i>Salicornia obscura</i> (glaucous glasswort)	1987-1999	Native	1	A
<i>Salicornia pusilla</i> (one-flowered glasswort)	1987-1999	Native	8	A
<i>Salix aurita</i> x <i>S. repens</i>	1987-1999	Native	1	A
<i>Salix cinerea</i> subsp. <i>cinerea</i> (grey willow)	1987-1999	Native	3	A
<i>Salix cinerea</i> x <i>S. purpurea</i> x <i>S. viminalis</i>	1987-1999	Native	1	A
<i>Salix herbacea</i> (dwarf willow)	1970-1986	Native	3	A
<i>Salix pentandra</i> (bay willow)	1987-1999	Native	3	A
<i>Salix purpurea</i> x <i>S. viminalis</i>	1987-1999	Native	1	A
<i>Salvia pratensis</i> (meadow clary)	1987-1999	Native	1	A
<i>Saxifraga hypnoides</i> (mossy saxifrage)	1987-1999	Native	11	A
<i>Saxifraga oppositifolia</i> (purple saxifrage)	1970-1986	Native	1	A
<i>Scandix pecten-veneris</i> (shepherd's-needle)	1987-1999	Alien	1	A
<i>Schoenus nigricans</i> (black bog rush)	1987-1999	Native	3	A
<i>Scilla autumnalis</i> (Autumn squill)	Pre-1970	Native	1	A
<i>Scirpoides holoschoenus</i> (round-headed club-rush)	1987-1999	Alien	5	A
<i>Scleranthus annuus</i> (annual knawel)	1987-1999	Native	5	A
<i>Scorzonera humilis</i> (viper's-grass)	1987-1999	Native	2	A
<i>Scrophularia umbrosa</i> (green figwort)	Pre-1970	Native	1	A
<i>Sedum forsterianum</i> (rock stonecrop)	1987-1999	Native	5	A
<i>Sedum roseum</i> (roseroot)	1987-1999	Native	3	A
<i>Selaginella selaginoides</i> (lesser club-moss)	1987-1999	Native	1	A
<i>Sibthorpia europea</i> (Cornish moneywort)	1987-1999	Native	13	A
<i>Silene conica</i> (sand catchfly)	1987-1999	Native	2	A
<i>Silene gallica</i> (small-flowered catchfly)	1987-1999	Alien	5	A
<i>Silene noctiflora</i> (night-flowering catchfly)	1987-1999	Alien	1	A
<i>Silene nutans</i> (Nottingham catchfly)	1987-1999	Native	1	A
<i>Sium latifolium</i> (greater water-parsnip)	Pre-1970	Native	1	A
<i>Sorbus anglica</i> (a whitebeam)	1987-1999	Native	4	A
<i>Sorbus domestica</i> (true service tree)	1987-1999	Native	2	A
<i>Sorbus eminens</i> (a whitebeam)	1987-1999	Native	2	A
<i>Sorbus leptophylla</i> (a whitebeam)	1987-1999	Native	2	A
<i>Sorbus leyana</i> (a whitebeam)	1987-1999	Native	2	A
<i>Sorbus minima</i> (a whitebeam)	1987-1999	Native	1	A
<i>Sorbus porrigentifformis</i> (green-leaved)	1987-1999	Native	14	A

**Criteria for the Selection of SINCs in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
whitebeam)				
<i>Sorbus rupicola</i> (rock whitebeam)	1987-1999	Native	5	A
<i>Sparganium angustifolium</i> (floating bur-reed)	1987-1999	Native	4	A
<i>Sparganium natans</i> (least bur-reed)	1987-1999	Native	1	A
<i>Spartina alterniflora</i> x <i>S. maritima</i>	1987-1999	Native	1	A
<i>Spergularia rupicola</i> (rock sea-spurrey)	1987-1999	Native	9	A
<i>Stellaria nemorum</i> (incl. ssp <i>nemorum</i> ) (wood-stitchwort)	1987-1999	Native	7	A
<i>Stellaria pallida</i> (lesser chickweed)	1987-1999	Native	11	A
<i>Stellaria palustris</i> (marshy stichwort)	Pre-1970	Native	1	A
<i>Subularia aquatica</i> (awlwort)	Pre-1970	Native	1	A
<i>Thalictrum flavum</i> (meadow rue)	1987-1999	Native	8	A
<i>Thalictrum minus</i> (lesser meadow-rue)	1987-1999	Native	11	A
<i>Thelypteris palustris</i> (marsh fern)	1987-1999	Native	3	A
<i>Thymus pulegioides</i> (large thyme)	1987-1999	Native	8	A
<i>Tilia platyphyllos</i> (large-leaved lime)	1987-1999	Native	7	A
<i>Trichomanes speciosum</i> (gametophyte) (Killarney fern)	1987-1999	Native	9	A
<i>Trichomanes speciosum</i> (sporophyte)	1987-1999	Native	1	A
<i>Trifolium glomeratum</i> (clustered clover)	Pre-1970	Native	2	A
<i>Trifolium ornithopodioides</i> (bird's-foot clover)	1987-1999	Native	10	A
<i>Trifolium squamosum</i> (sea clover)	1987-1999	Native	8	A
<i>Trifolium subterraneum</i> (subterranean clover)	1987-1999	Native	6	A
<i>Trollius europaeus</i> (globe-flower)	1987-1999	Native	12	A
<i>Typha angustifolia</i> (lesser bulrush)	1987-1999	Native	8	A
<i>Typha angustifolia</i> x <i>T. latifolia</i>	1987-1999	Native	1	A
<i>Ulmus plotii</i> (plot's elm)	Pre-1970	Native	1	A
<i>Utricularia australis</i> (bladderwort)	1987-1999	Native	6	A
<i>Utricularia minor</i> (lesser bladderwort)	1987-1999	Native	7	A
<i>Utricularia vulgaris sens. str.</i> (greater bladderwort)	1987-1999	Native	1	A
<i>Vaccinium vitis-idaea</i> (cowberry)	1987-1999	Native	9	A
<i>Valerianella dentata</i> (narrow-fruited corn-salad)	1987-1999	Alien	2	A
<i>Valerianella rimosa</i> (broad-fruited cornsalad)	Pre-1970	Alien	2	A
<i>Verbascum lychnitis</i> (white mullein)	1987-1999	Alien	3	A
<i>Verbascum nigrum</i> (black mullein)	1987-1999	Native	4	A
<i>Verbascum virgatum</i> (twiggy mullein)	1987-1999	Alien	12	A
<i>Veronica spicata</i> (spiked speedwell)	1987-1999	Native	2	A
<i>Vicia lathyroides</i> (spring vetch)	1987-1999	Native	8	A
<i>Vicia orobus</i> (wood bitter-vetch)	1987-1999	Native	20	A
<i>Vicia sylvatica</i> (wood vetch)	1987-1999	Native	9	A
<i>Viola lactea</i> (pale dog-violet)	1987-1999	Native	6	A
<i>Viola lutea</i> (mountain pansy)	1987-1999	Native	10	A
<i>Vulpia ciliata</i> (bearded fescue)	1987-1999	Native	1	A
<i>Wolffia arhiza</i> (rootless duckweed)	1987-1999	Native	1	A
<i>Zostera angustifolia</i> (narrow-leaved eelgrass)	1987-1999	Native	1	A
<i>Zostera marina</i> (eelgrass)	1987-1999	Native	2	A
<i>Zostera noltii</i> (dwarf eelgrass)	1987-1999	Native	1	A
<i>Agrimonia procera</i> (fragrant agrimony)	1987-1999	Native	34	B
<i>Alchemilla glabra</i> (a lady's-mantle)	1987-1999	Native	34	B
<i>Alchemilla xanthochlora</i> (a lady's-mantle)	1987-1999	Native	27	B

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

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<i>Althea officinalis</i> (marsh-mallow)	1987-1999	Native	15	B
<i>Anacamptis pyramidalis</i> (pyramidal orchid)	1987-1999	Native	27	B
<i>Anchusa arvensis</i> (bugloss)	1987-1999	Alien	18	B
<i>Anthemis cotula</i> (stinking chamomile)	1987-1999	Alien	20	B
<i>Apium graveolens</i> (wild celery)	1987-1999	Native	23	B
<i>Apium inundatum</i> (lesser marshwort)	1987-1999	Native	16	B
<i>Arenaria serpyllifolia subsp.leptoclad.</i> (thymelvd sandwort)	1987-1999	Native	36	B
<i>Asplenium marinum</i> (sea spleenwort)	1987-1999	Native	11	B
<i>Asplenium trichomanes subsp.trichomanes</i> (mdnhair splnwr)	1987-1999	Native	17	B
<i>Atriplex glabriuscula</i> (Babington's orache)	1987-1999	Native	15	B
<i>Atriplex laciniata</i> (frosted orache)	1987-1999	Native	11	B
<i>Atriplex littoralis</i> (grass-leaved orache)	1987-1999	Native	12	B
<i>Atriplex portulacoides</i> (sea-purslane)	1987-1999	Native	18	B
<i>Ballota nigra</i> (black horehound)	1987-1999	Alien	32	B
<i>Berberis vulgaris</i> (barberry)	1987-1999	Native	17	B
<i>Bidens cernua</i> (nodding bur-marigold)	1987-1999	Native	25	B
<i>Blackstonia perfoliata</i> (yellow-wort)	1987-1999	Native	32	B
<i>Botrichium lunaria</i> (moonwort)	1987-1999	Native	25	B
<i>Bromopsis erecta</i> (upright brome)	1987-1999	Native	24	B
<i>Bromus commutatus</i> (meadow brome)	1987-1999	Native	17	B
<i>Bromus racemosus</i> (smooth brome)	1987-1999	Native	27	B
<i>Bryonia dioica</i> (white bryony)	1987-1999	Native	23	B
<i>Cakile maritima</i> (sea rocket)	1987-1999	Native	14	B
<i>Callitriche obtusangula</i> (blunt-fruited water-satwort)	1987-1999	Native	22	B
<i>Callitriche platycarpa</i> (various-leaved water-starwort)	1987-1999	Native	25	B
<i>Calystegia soldanella</i> (sea bindweed)	1987-1999	Native	13	B
<i>Carduus tenuiflorus</i> (slender thistle)	1987-1999	Native	17	B
<i>Carex disticha</i> (brown sedge)	1987-1999	Native	22	B
<i>Carex extensa</i> (long-bracted sedge)	1987-1999	Native	15	B
<i>Carex montana</i> (soft-leaved sedge)	1987-1999	Native	18	B
<i>Carex pseudocyperus</i> (cyperus sedge)	1987-1999	Native	14	B
<i>Carex strigosa</i> (thin-spiked sedge)	1987-1999	Native	21	B
<i>Carex vesicaria</i> (bladder sedge)	1987-1999	Native	26	B
<i>Carex viridula subsp. brachyrrhyncha</i>	1987-1999	Native	19	B
<i>Centaurea scabiosa</i> (greater knapweed)	1987-1999	Native	38	B
<i>Centaureum pulchellum</i> (lesser centaury)	1987-1999	Native	14	B
<i>Ceratocapnos claviculata</i> (climbing corydalis)	1987-1999	Native	37	B
<i>Ceratophyllum demersum</i> (rigid hornwort)	1987-1999	Native	21	B
<i>Chenopodium bonus-henricus</i> (good-king-Henry)	1987-1999	Alien	22	B
<i>Chrysanthemum segetum</i> (corn marigold)	1987-1999	Alien	36	B
<i>Chrysosplenium alternifolium</i> (alt.-leaved golden-saxifrage)	1987-1999	Native	24	B
<i>Circaea alpina x C. lutetiana</i>	1987-1999	Native	15	B
<i>Cirsium acaule</i> (dwarf thistle)	1987-1999	Native	18	B
<i>Cirsium eriophorum</i> (woolly thistle)	1987-1999	Native	16	B
<i>Crambe maritima</i> (sea-kale)	Pre-1970	Native	9	B
<i>Cystopteris fragilis</i> (brittle bladder-fern)	1987-1999	Native	25	B

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<i>Dactylorhiza incarnata</i> (early marsh-orchid)	1987-1999	Native	27	B
<i>Dactylorhiza purpurella</i> (northern marsh-orchid)	1987-1999	Native	17	B
<i>Daphne laureola</i> (spurge laurel)	1987-1999	Native	16	B
<i>Daucus carota</i> subsp. <i>gummifer</i> (sea carrot)	1987-1999	Native	8	B
<i>Diplotaxis tenuifolia</i> (perennial wall-rocket)	1987-1999	Alien	24	B
<i>Echium vulgare</i> (viper's bugloss)	1987-1999	Native	36	B
<i>Eleocharis multicaulis</i> (many-stalked spike-rush)	1987-1999	Native	29	B
<i>Eleocharis quinqueflora</i> (few-flowered spike-rush)	1987-1999	Native	26	B
<i>Eleogiton fluitans</i> (floating club-rush)	1987-1999	Native	19	B
<i>Elytrigia juncea</i> (sand couch)	1987-1999	Native	18	B
<i>Elytrigia juncea</i> x <i>E. repens</i>	1987-1999	Native	2	B
<i>Empetrum nigrum</i> (crowberry)	1987-1999	Native	26	B
<i>Epipactis palustris</i> (marsh helleborine)	1987-1999	Native	23	B
<i>Equisetum variegatum</i> (variegated horsetail)	1987-1999	Native	12	B
<i>Erodium maritimum</i> (sea stork's-bill)	1987-1999	Native	13	B
<i>Eryngium maritimum</i> (sea-holly)	1987-1999	Native	13	B
<i>Euphorbia amygdaloides</i> (wood spurge)	1987-1999	Native	31	B
<i>Euphorbia exigua</i> (dwarf spurge)	1987-1999	Alien	13	B
<i>Euphorbia paralias</i> (sea spurge)	1987-1999	Native	14	B
<i>Euphorbia portlandica</i> (portland spurge)	1987-1999	Native	14	B
<i>Euphrasia anglica</i> (an eyebright)	1987-1999	Native	19	B
<i>Euphrasia arctica</i> subsp. <i>borealis</i> (an eyebright)	1987-1999	Native	20	B
<i>Euphrasia confusa</i> (an eyebright)	1987-1999	Native	22	B
<i>Euphrasia rostkoviana</i> subsp. <i>rostkoviana</i> (tall eyebright)	1987-1999	Native	26	B
<i>Filago minima</i> (small cudweed)	1987-1999	Native	30	B
<i>Frangula alnus</i> (alder buckthorn)	1987-1999	Native	31	B
<i>Fumaria bastardii</i> (tall ramping-fumitory)	1987-1999	Native	17	B
<i>Fumaria capreolata</i> <i>babingtonii</i> (white ramping-fumitory)	1987-1999	Native	15	B
<i>Galium uliginosum</i> (fen bedstraw)	1987-1999	Native	31	B
<i>Gentianella amarella</i> (autumn gentian)	1987-1999	Native	23	B
<i>Geranium pratense</i> (meadow crane's-bill)	1987-1999	Native	30	B
<i>Geranium pusillum</i> (small-flowered crane's-bill)	1987-1999	Native	23	B
<i>Geranium rotundifolium</i> (round-leaved crane's-bill)	1987-1999	Native	11	B
<i>Geum rivale</i> (water avens)	1987-1999	Native	31	B
<i>Glaucium flavum</i> (yellow horned-poppy)	1987-1999	Native	9	B
<i>Gymnadenia conopsea</i> (fragrant orchid)	1987-1999	Native	20	B
<i>Gymnocarpium dryopteris</i> (oak fern)	1987-1999	Native	14	B
<i>Helianthemum nummularium</i> (rock-rose)	1987-1999	Native	23	B
<i>Helleborus foetidus</i> (stinking hellebore)	1987-1999	Native	9	B
<i>Helleborus viridis</i> (green hellebore)	1987-1999	Native	8	B
<i>Hippuris vulgaris</i> (mare's-tail)	1987-1999	Native	14	B
<i>Honkenya peploides</i> (sea sandwort)	1987-1999	Native	16	B
<i>Hordeum secalinum</i> (meadow barley)	1987-1999	Native	31	B
<i>Hypericum hirsutum</i> (hairy st John's-wort)	1987-1999	Native	26	B
<i>Inula crithmoides</i> (golden samphire)	1987-1999	Native	13	B
<i>Inula helenium</i> (elecampane)	1987-1999	Native	21	B
<i>Iris foetidissima</i> (stinking iris)	1987-1999	Native	27	B
<i>Isoetes echinospora</i> (spring quillwort)	1987-1999	Native	2	B

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<i>Isolepis cernua</i> (slender club-rush)	1987-1999	Native	14	B
<i>Juncus acutus</i> (sharp rush)	1987-1999	Native	11	B
<i>Juncus foliosus</i> (leafy rush)	1987-1999	Native	9	B
<i>Juncus subnodulosus</i> (blunt-flowered rush)	1987-1999	Native	22	B
<i>Kickxia elatine</i> (sharp-leaved fluellen)	1987-1999	Alien	26	B
<i>Koeleria macrantha</i> (crested hair-grass)	1987-1999	Native	20	B
<i>Lamium amplexicaule</i> (henbit dead-nettle)	1987-1999	Alien	13	B
<i>Lamium hybridum</i> (cut-leaved dead-nettle)	1987-1999	Alien	12	B
<i>Lathraea squamaria</i> (toothwort)	1987-1999	Native	24	B
<i>Lathyrus nissolia</i> (grass vetchling)	1987-1999	Native	15	B
<i>Lathyrus sylvestris</i> (narrow-leaved everlasting-pea)	1987-1999	Native	20	B
<i>Lavatera arborea</i> (tree-mallow)	1987-1999	Native	11	B
<i>Lemna gibba</i> (fat duckweed)	1987-1999	Native	11	B
<i>Lemna trisulca</i> (ivy-leaved duckweed)	1987-1999	Native	18	B
<i>Lepidium heterophyllum</i> (Smith's pepperwort)	1987-1999	Native	36	B
<i>Leymus arenarius</i> (lyme-grass)	1987-1999	Native	9	B
<i>Limonium binervosum</i> agg. (rock sea-lavender)	1987-1999	Native	19	B
<i>Limonium vulgare</i> (common sea-lavender)	1987-1999	Native	14	B
<i>Linum bienne</i> (pale flax)	1987-1999	Native	18	B
<i>Lithospermum officinalis</i> (gromwell)	1987-1999	Native	15	B
<i>Littorella uniflora</i> (shoreweed)	1987-1999	Native	17	B
<i>Malva neglecta</i> (dwarf mallow)	1987-1999	Alien	20	B
<i>Medicago arabica</i> (spotted medick)	1987-1999	Native	23	B
<i>Mentha suaveolens</i> (round-leaved mint)	1987-1999	Native	7	B
<i>Mercurialis annua</i> (annual mercury)	1987-1999	Alien	19	B
<i>Myosotis ramosissima</i> (changing forget-me-not)	1987-1999	Native	31	B
<i>Myosoton aquaticum</i> (water chickweed)	1987-1999	Native	24	B
<i>Myriophyllum alternifolium</i> (alternate water-milfoil)	1987-1999	Native	28	B
<i>Myriophyllum spicatum</i> (spiked water-milfoil)	1987-1999	Native	28	B
<i>Narcissus pseudonarcissus</i> subsp. <i>pseud.</i> (wild daffodil)	1987-1999	Native	21	B
<i>Neottia nidus-avis</i> (bird's-nest orchid)	1987-1999	Native	17	B
<i>Nuphar lutea</i> (yellow water-lily)	1987-1999	Native	15	B
<i>Nymphaea alba</i> (white waterlily)	1987-1999	Native	31	B
<i>Oenanthe fistulosa</i> (tubular water-dropwort)	1987-1999	Native	18	B
<i>Oenanthe lachenallii</i> (parsley water-dropwort)	1987-1999	Native	25	B
<i>Ononis spinosa</i> (prickly restharrow)	1987-1999	Native	12	B
<i>Ophrys apifera</i> (bee orchid)	1987-1999	Native	28	B
<i>Orchis morio</i> (green-winged orchid)	1987-1999	Native	27	B
<i>Ornithopus purpusillus</i> (bird's-foot)	1987-1999	Native	29	B
<i>Orobanche hederæ</i> (ivy broomrape)	1987-1999	Native	16	B
<i>Orobanche minor</i> (carrot broomrape)	1987-1999	Native	30	B
<i>Osmunda regalis</i> (royal fern)	1987-1999	Native	37	B
<i>Papaver dubium</i> subsp. <i>lecoqii</i> (long-headed poppy)	1987-1999	Alien	11	B
<i>Parapholis strigosa</i> (hard-grass)	1987-1999	Native	18	B
<i>Paris quadrifolia</i> (herb paris)	1987-1999	Native	26	B
<i>Pedicularis sylvatica</i> subsp. <i>hibernica</i> (lousewort)	1987-1999	Native	15	B
<i>Petroselinum segetum</i> (corn parsley)	1987-1999	Native	10	B



**Criteria for the Selection of SINCs in the Mid-Valleys Area**

<b>Table 15. Rare, scarce &amp; declining species</b>				
<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Phegopteris connectilis</i> (beech fern)	1987-1999	Native	22	B
<i>Phleum arenarium</i> (sand cat's-tail)	1987-1999	Native	16	B
<i>Picris hieracioides</i> (hawkweed oxtongue)	1987-1999	Native	38	B
<i>Pinguicula vulgaris</i> (butterwort)	1987-1999	Native	31	B
<i>Plantago media</i> (hoary plantain)	1987-1999	Native	25	B
<i>Platanthera chlorantha</i> (greater butterfly-orchid)	1987-1999	Native	32	B
<i>Polypodium cambricum</i> (southern polypody)	1987-1999	Native	25	B
<i>Populus nigra subsp. betulifolia</i>	1987-1999	Native	22	B
<i>Potamogeton pectinatus</i> (fennel pondweed)	1987-1999	Native	17	B
<i>Potamogeton pusillus</i> (lesser pondweed)	1987-1999	Native	13	B
<i>Potentilla erecta subsp. strictissima</i> (tormentil)	1987-1999	Native	7	B
<i>Prunus padus</i> (bird cherry)	1987-1999	Native	26	B
<i>Puccinellia distans</i> (reflexed saltmarsh-grass)	1987-1999	Native	12	B
<i>Pyrola rotundifolia subsp. maritima</i>	1987-1999	Native	8	B
<i>Ranunculus auricomus</i> (goldilocks buttercup)	1987-1999	Native	20	B
<i>Ranunculus sardous</i> (hairy buttercup)	1987-1999	Native	14	B
<i>Ranunculus trichophyllos</i> (thread-leaved water-crowfoot)	1987-1999	Native	16	B
<i>Reseda lutea</i> (wild mignonette)	1987-1999	Native	34	B
<i>Rhamnus catharticus</i> (buckthorn)	1987-1999	Native	19	B
<i>Rhinanthus minor subsp. stenophyllus</i> (yellow rattle)	1987-1999	Native	7	B
<i>Rorippa microphylla</i> (narrow-fruited watercress)	1987-1999	Native	14	B
<i>Rorippa microphylla x R. nasturtium-aq.</i>	1987-1999	Native	18	B
<i>Rosa caesia subsp. glauca</i> (glaucous dog-rose)	1987-1999	Native	14	B
<i>Rosa caesia x R. canina (R. x dumalis)</i>	1987-1999	Native	21	B
<i>Rosa canina x R. stylosa</i>	1987-1999	Native	11	B
<i>Rosa pimpinellifolia</i> (burnet rose)	1987-1999	Native	19	B
<i>Rosa stylosa</i> (short-styled field-rose)	1987-1999	Native	17	B
<i>Rubia peregrina</i> (madder)	1987-1999	Native	23	B
<i>Rumex hydralopathum</i> (water dock)	1987-1999	Native	29	B
<i>Sagina maritima</i> (sea pearlwort)	1987-1999	Native	13	B
<i>Sagina nodosa</i> (knotted pearlwort)	1987-1999	Native	21	B
<i>Salicornia dolichostachya</i> (long-spiked glasswort)	1987-1999	Native	10	B
<i>Salicornia ramosissima</i> (purple glasswort)	1987-1999	Native	13	B
<i>Salix purpurea</i> (purple willow)	1987-1999	Native	16	B
<i>Salix trandra</i> (almond willow)	1987-1999	Native	17	B
<i>Salsola kali subsp. kali</i> (prickle saltwort)	1987-1999	Native	12	B
<i>Salvia verbenaca</i> (wild clary)	1987-1999	Native	8	B
<i>Sambucus ebulus</i> (dwarf elder)	1987-1999	Alien	24	B
<i>Samolus valerandi</i> (brookweed)	1987-1999	Native	24	B
<i>Saxifraga granulata</i> (meadow saxifrage)	1987-1999	Native	22	B
<i>Scabiosa columbaria</i> (small scabious)	1987-1999	Native	14	B
<i>Schoenoplectus lacustris</i> (common club-rush)	1987-1999	Native	11	B
<i>Schoenoplectus tabernaemontani</i> (grey club-rush)	1987-1999	Native	17	B
<i>Scilla verna</i> (Spring squill)	1987-1999	Native	10	B
<i>Scirpus sylvaticus</i> (wood club-rush)	1987-1999	Native	25	B
<i>Senecio aquaticus x S. jacobaea</i>	1987-1999	Native	4	B
<i>Seriphidium maritimum</i> (sea wormwood)	1987-1999	Native	15	B
<i>Silaum silaus</i> (pepper-saxifrage)	1987-1999	Native	21	B

**Criteria for the Selection of SINC's in the Mid-Valleys Area**

**Table 15. Rare, scarce & declining species**

<b>Species</b>	<b>Date class</b>	<b>Status</b>	<b>Total 10km Squares</b>	<b>List</b> A = Designates B = Contributes
<i>Silene uniflora</i> (sea campion)	1987-1999	Native	20	B
<i>Sison anomum</i> (stone parsley)	1987-1999	Native	19	B
<i>Sorbus torminalis</i> (wild service)	1987-1999	Native	22	B
<i>Sparganium emersum</i> (unbranched bur-reed)	1987-1999	Native	29	B
<i>Spergularia marina</i> (lesser sea-spurrey)	1987-1999	Native	19	B
<i>Spergularia media</i> (greater sea-spurrey)	1987-1999	Native	22	B
<i>Spiranthes spiralis</i> (autumn lady's-tresses)	1987-1999	Native	17	B
<i>Spirodela polyrhiza</i> (greater duckweed)	1987-1999	Native	16	B
<i>Stachys palustris</i> x <i>S. sylvatica</i>	1987-1999	Native	16	B
<i>Torilis nodosa</i> (knotted hedge-parsley)	1987-1999	Native	14	B
<i>Trifolium fragiferum</i> (strawberry clover)	1987-1999	Native	20	B
<i>Trifolium scabrum</i> (rough clover)	1987-1999	Native	24	B
<i>Trifolium striatum</i> (knotted clover)	1987-1999	Native	25	B
<i>Ulex europaeus</i> x <i>U. gallii</i>	1987-1999	Native	1	B
<i>Ulmus minor</i> (small-leaved elm)	1987-1999	Native	19	B
<i>Urtica urens</i> (small nettle)	1987-1999	Alien	26	B
<i>Vaccinium oxycoccus</i> (cranberry)	1987-1999	Native	28	B
<i>Valerianella carinata</i> (keel-fruited corn-salad)	1987-1999	Alien	24	B
<i>Veronica agrestis</i> (green field-speedwell)	1987-1999	Alien	50	B
<i>Veronica anagallis-aquatica</i> (blue water-speedwell)	1987-1999	Native	16	B
<i>Veronica catenata</i> (pink water speedwell)	1987-1999	Native	22	B
<i>Veronica polita</i> (grey field-speedwell)	1987-1999	Alien	45	B
<i>Viburnum lantana</i> (wayfaring tree)	1987-1999	Native	24	B
<i>Viola canina</i> (heath dog-violet)	1987-1999	Native	15	B
<i>Viola hirta</i> (hairy dog-violet)	1987-1999	Native	24	B
<i>Viola palustris</i> subsp. <i>juressi</i> (marsh violet)	1987-1999	Native	10	B
<i>Viola tricolor</i> (wild pansy)	1987-1999	Native	27	B
<i>Viola tricolor</i> subsp. <i>curtisii</i> (wild pansy)	1987-1999	Native	10	B
<i>Viscum album</i> (mistletoe)	1987-1999	Native	27	B
<i>Vulpia fasciculata</i> (dune fescue)	1987-1999	Native	14	B
<i>Zannichellia palustris</i> (horned pondweed)	1987-1999	Native	21	B

## S8) FUNGI

The following will be selected:

- All grassland sites supporting 9 or more species of waxcap (*Hygrocybe* spp.)

This threshold has been set using the conservation value for regional importance of 9 – 16 *Hygrocybe* species (6 – 10 during a single visit) per site (ref. Boertmann, David (1995) *The genus Hygrocybe. Fungi of Northern Europe 1.*)

- Any site which supports a species, which is listed in the UK Red Data Book (NCC, 1987) or in the Natural Environment and Rural Communities Act 2006 Section 42 List (WAG, 2007).
- Any site that supports a species recorded from 10 or fewer 10km grid squares in Wales (where the distribution is well known).
- Any site that supports a species recorded from 3 or fewer sites within Vice Counties VC41 and VC35 (where the distribution is well known).
- In addition the presence of UK or LBAP Priority Species or nationally scarce or uncommon species will be a contributory feature.

## S9) MOSSES AND LIVERWORTS

The following will be selected:

- Any site which supports a species that is listed in the *Red Data Book for Mosses and Liverworts* (Church *et al*, 2001) or the Natural Environment and Rural Communities Act 2006 Section 42 list (WAG, 2007).

In addition, any site that supports a species recorded from 3 or fewer sites within the Mid-Valleys area (where the distribution is well known), which supports a significant population of a National or LBAP Priority Species, or which is scarce or local in the area will contribute to a SINC designation.

## S10) LICHENS

The following will be selected:

- Any site that supports a species that is listed in the *Red Data Book for Lichens* (Church *et al*, 1996) or the “Section 42 List” (WAG, 2007).

In addition any site which supports a species which is recorded from 3 or fewer sites within the Mid-Valleys area (where the distribution is well known), which supports a significant population of a National or LBAP Priority Species, or which is scarce or local in the area will contribute to a SINC designation.