

REGISTER OF RARE, SCARCE AND DECLINING PLANTS IN ANGUS (VC90)

The register has been compiled to provide a guide to the currently known distribution of rare, scarce and declining higher plant species in the vice-county of Angus.

The register has been compiled using data gathered between 1995 & 1999 for the *New Atlas of the British and Irish Flora* Preston CD, Pearman DA & Dines TD (eds.) (2002), post-1999 records, *The Flora of Angus* Ingram R & Noltie HJ (1981) and *The Flora of Forfarshire* William Gardiner (1848).

A number of the Angus localities favoured by botanists in the early 1800s have changed over time and no longer support the rich and varied plant communities described in books from that era. For example, Will's Braes describes the rocky coast west of Magdalen Green, Dundee, where many interesting species were formerly recorded. The construction of the railway affected most of the original coastline between Invergowrie and Dundee. Nowadays much of the coastal vegetation in Angus is confined to cliff slopes, rocky shores and sand dunes and frequently these are reduced to relatively narrow strips of land.

Intensive arable farming impinges on the coastal vegetation. A combination of ploughing close to cliff edges and drift from agrochemicals has led to a diminished habitat and species diversity. Intensive farming is also prevalent across much of lowland Angus leaving very few uncultivated areas for wild plants to flourish. All too often remaining habitats are isolated or fragmented by built-up areas, roads and railways.

In the 1950s and 60s disused railway lines provided a new open habitat and many colonisers were recorded. By the 1990s most of the remaining, accessible lines had reached a stage where scrub and tall grasses predominated – the diversity of species had gone.

The uplands have been least influenced by development but even here commercial conifer plantations have had an impact on vegetation and patterns of grazing (sheep and red deer) have affected plant assemblages.

Recent records confirmed by field surveys for the *New Atlas of the British and Irish Flora* (1995 – 1999) and subsequent continuing recording are listed in **BLUE**

Earlier records not refound during field surveys for the *New Atlas* and continuing recording are listed in **ORANGE**

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Nationally Rare plants present in Angus

Astragalus alpinus **Locally Very Rare**
Alpine Milk-vetch

NO 239 766, NO 240 765, NO 240 766 Craig Maud, Glen Doll

Astragalus alpinus can be found on east to northeast-facing crags at the southern end of Craig Maud where it grows amongst base-rich vegetation on unstable rock ledges, in flushed species-rich grassland at the base of crags and on bare gravelly patches. The very steep slopes along the base of the crag are prone to landslips. Craig Maud appears to be the only recorded locality for this species in Angus.

Athyrium flexile **Locally Rare**

Newman's Lady-fern

NO 27

NO 17

A montane plant of block screes and gullies.

Calamagrostis purpurea **Locally Rare**

Scandinavian Small-reed

NO 515 427 Dilty Moss

NO 50 51 Alder wood by Reswallie and swamp west of Rescobie 2006

Grows in dappled shade in alder woodland and nearby in swamp.

Carex norvegica **Locally Very Rare**
Close-headed Alpine Sedge

NO 255 741 Corrie Sharroch

This species is only known to occur in one locality on steep terrain at about 750m on a wet, flushed rocky bluff and in grassland below.

Carex rariflora **Locally Scarce**

Mountain Bog-sedge

NO 172 769 Caenlochan Glen

NO 172 771, NO 173 763 Glas Maol

NO 177 777, NO 183 781 Glasallt Burn

NO 2192 7613 Canness Glen

NO 2283 7761 Canness/Meikle Kilrannoch

NO 2295 7774 Meikle Kilrannoch

NO 2204 7797 Tom Buidhe

NO 232 739 Mayar

NO 233 741 Mayar Burn

Present in acidic flush bogs above 750m.

Cicerbita alpina **Locally Very Rare**

Alpine Blue-sow-thistle

NO 175 763 Caenlochan Glen

NO 251 758 Craig Rennet, Glen Doll

The Caenlochan colony occurs on a broad, flat ledge of a steep north-facing crag with overhanging rock walls on the southern and western sides. At Craig Rennet plants are present in an obvious, long, narrow gully in an almost inaccessible stretch above a chockstone.

- Cochlearia micacea*** E. Marshall **Locally Rare**
Mountain Scurvygrass
[NO 17 Glas Maol 2003](#), [NO 27 Meikle Kilrannoch 2003](#)
 Plants are present in short turf, particularly in damp hollows with late snow lie, and on exposed serpentine rock.
- Erigeron borealis*** (Vierh.) Simmons **Locally Very Rare**
Alpine Fleabane
[NO 174 765 Caenlochan Glen 1998](#), [NO 240 766 Glen Doll 1999](#)
 Scattered plants grow on ledges and outcrops of soft, easily weathered schist, banks of earth derived from this and other rocks in association with schist. It prefers a sunny location with most direct sunlight received during the morning
- Gentiana nivalis*** L. **Locally Very Rare**
Alpine Gentian
[NO 186 769 Caenlochan Glen 2001](#), [NO 174 764 Caenlochan Glen 1999](#)
 This annual plant grows in short species-rich turf on relatively inaccessible ledges on base-rich crags.
- Gnaphalium norvegicum*** Gunnerus **Locally Very Rare**
Highland Cudweed
[NO 18 77 Caenlochan Glen 1995](#)
[NO 27 The Dounalt, Glen Doll 1916](#)
 A montane plant of wide, sparsely vegetated crag ledges.
- Homogyne alpina*** (L.) Cass. **Locally Very Rare**
Purple Colt's-foot
[NO 27 Corrie Sharroch](#)
 Plants are present on steep, boulder strewn, damp ground below crags. There is some debate as to whether or not this species was introduced in this locality.
- Lychnis alpina*** L. **Locally Very Rare**
Alpine Catchfly
[NO 27 Meikle Kilrannoch 2004](#)
 This population is restricted to an area of serpentine rock on an exposed summit plateau.

- Oxytropis campestris* (L.) DC.** **Locally Very Rare**
Yellow Oxytropis
 NO 249 756 Corrie Fee 1999
 This population is restricted to an extensive, very unstable, scree slope and the steep crags above on north wall of Corrie Fee.
- Rhinanthus angustifolius* C. Gmelin** **Locally Very Rare**
Greater Yellow-rattle
 NO 53 Easthaven 2003
 NO 53 Barry 1842, NO 63 near Arbroath 1837, NO 64
 In Angus this archaeophyte has a precarious toehold in a narrow strip of coastal grassland where it is subjected to mowing and overshadowing.
- Sagina x normaniana* Lagerh.** **Locally Rare**
(*S. saginoides* x *S. procumbens*)
Scottish Pearlwort
 NO 17, NO 27 Corrie Kilbo 1996
 A very low-growing plant found ramifying through species-rich short turf on periodically flushed slopes near the base of crags. This species is probably overlooked when not in flower and may well be under-recorded.
- Salix lanata* L.** **Locally Rare**
Woolly Willow
 NO 183 761 Caenlochan Glen 1996, NO 256 741 Corrie Sharroch
 NO 267 741 Corrie Kilbo
 NO 37
 Frequently found in association with *Salix lapponum* Downy Willow on relatively inaccessible rock ledges and near the tops of gullies with a north, north northeast or northwesterly aspect this species thrives best where late snow lie provides protection from harsh winter weather.
- Saxifraga rivularis* L.** **Locally Very Rare**
Highland Saxifrage
 NO 17
 A montane species found in flushes.
- Veronica fruticans* Jacquin** **Locally Rare**
Rock Speedwell
 NO 17 Caenlochan Glen 2001, NO 27 Glen Doll, NO 37
 This species occurs at infrequent intervals on sparsely vegetated ledges of basic outcrops and occasionally spreads onto steep grassy slopes.
- Woodsia alpina* (Bolton) S.F. Gray** **Locally Very Rare**
Alpine Woodsia
 NO 17 Caenlochan Glen 1998, NO 245 741 Corrie Fee 1999
 The typical habitat for this small fern is a damp, shaded, moss-filled crevice in basic rock.

Woodsia ilvensis (L.) R. Br.

Locally Very Rare

Oblong Woodsia

NO 246 755 Corrie Fee, Craig Rennet/Erne Crags 1999

The main colony of this fern grows in crevices on an outcrop above an obvious wide, sloping, grassy terrace on the southeast-facing wall of Corrie Fee.

Nationally Rare plants with no recent records in Angus

Lychnis viscaria L.

Sticky Catchfly

NO 25 Den of Airlie 1843

Formerly found in rocky dens (probably extinct).

Oxytropis halleri Bunge ex Koch

Purple Oxytropis

NO 75 Usan/Duninald

Grew on coastal, red sandstone cliffs and steep grassy slopes.

Polygonatum verticillatum (L.) All.

Whorled Solomon's-seal

NO 25 Den of Airlie

A plant of wooded dens (recent record in VC89).

Trichophorum alpinum (L.) Pers.

Cotton Deergrass

NO 45 Moss of Restennet

This species, known only from one site, was lost by 1804 due to digging of marl and peats.

Nationally Scarce plants present in Angus

- Alchemilla glomerulans*** Buser **Locally Rare**
Folded Lady's-mantle
NO 27 Glen Doll 1999
NO 17 Caenlochan above 950m. 1962
A plant of moderately herb-rich but base-poor grassland associated with crags.
- Alchemilla wichurae*** (Buser) Stefansson **Locally Rare**
Smooth Mountain Lady's-mantle
NO 17 Caenlochan, NO 27 Glen Doll
Grows in short, grazed grassland associated with base-rich crags and outcrops.
- Alopecurus borealis*** Trin. **Locally Rare**
Alpine Foxtail
NO 17 Caenlochan-Glas Maol 2003
NO 27 Glen Doll
NO 36 Loch Wharral 2003
NO 37
NO 47 marsh between Clova and Loch Lee
A montane plant occurring in small numbers in high altitude springs and flushes.
- Athyrium distentifolium*** Tausch ex Opiz **Locally Scarce**
Alpine Lady-fern
NO 17 Caenlochan
NO 27 Glen Doll, Glen Prosen 2005
NO 28
NO 37
A montane fern of block screes and gullies.
- Betula nana*** L. **Locally Very Rare**
Dwarf Birch
NO 27 blanket bog on plateau above Loch Esk 1999
NO 27 Burn of Fialzioch 1966
Small stands of prostrate shrubs grow in blanket bog.
- Bromopsis benekenii*** (Lange) Holub **Locally Rare**
Lesser Hairy-brome
NO 25 Den of Airlie
Grows in deciduous den woodland on calcareous soils.
- Carex atrata*** L. **Locally Rare**
Black Alpine-sedge
NO 17 Caenlochan Glen
NO 27 Glen Doll
This species is present on ungrazed ledges of base-rich crags.

- Carex capillaris* L.** **Locally Rare**
Hair Sedge
 NO 16 Mount Blair 2005
 NO 17 Caenlochan Glen 2001
 NO 27 Glen Doll 1999
 A plant of base-rich, herb-rich grassland and flushes.
- Carex maritima* Gunnerus** **Locally Very Rare**
Curved Sedge
 NO 75 Mains of Usan 1999
 NO 53 between Monifieth and Buddon Burn 1956, NO 65
 Found close to the sea shore on moist sand (not refound in 2005).
- Carex rupestris* All.** **Locally**
Rare
Rock Sedge
 NO 17 Caenlochan Glen above Glasallt Burn 2001
 NO 27 Glen Doll 1999
 A montane sedge found on dry, basic crag ledges.
- Carex saxatilis* L.** **Locally Very Rare**
Russet Sedge
 NO 17
 NO 27 1979
 A montane sedge found along rivulets and in flushes.
- Carex vaginata* Tausch** **Locally Rare**
Sheathed Sedge
 NO 17 Caenlochan Glen
 NO 27 Glen Doll, Corrie Fee
 NO 48
 A species with sporadic occurrence in flushed grassland and on crag ledges.
- Cerastium alpinum* L.** **Locally Scarce**
Alpine Mouse-ear
 NO 17, NO 37, NO 38
 NO 27
 Found on grassy slopes at the base of crags and on rock ledges.
- Cicuta virosa* L.** **Locally Scarce**
Cowbane
 NO 35 Kinnordy
 NO 45 Reswallie
 NO 55 Fonah Bog and Chapel Mires by Balgavies Loch 2006
 NO 45 Forfar Loch, Restenneth
 This species grows in swamp vegetation around margins of loch and in fens.

Corallorhiza trifida Chatel. **Locally Scarce**

Coralroot Orchid

NO 35, NO 44

NO 53 Barry Links

NO 54 Dilty Moss

NO 55 Fonah bog, Balgavies

NO 65

NO 45 Restenneth 1971, Forest Muir 1978

NO 46 Glen Queich 1977

NO 64 Parkhill 1942

NO 66

At Barry Links plants occur sporadically in dune slacks below willow scrub. Inland sites comprise wet woodland with plants mostly associated with willow scrub.

Cystopteris montana (Lam.) Desv. **Locally Rare**

Mountain Bladder-fern

NO 27 (Fern Atlas)

NO185 760 - NO 182 760 Caenlochan Glen 1978, NO 174 763 Caenlochan 1957

This montane fern grows on north-facing slopes on damp rock ledges with the moss *Cratoneuron commutatum*.

Deschampsia setacea (Hudson) Hackel **Locally Very Rare**

Bog Hair-grass

NO 27 near Jock's Road beyond shelter 2003

NO 27 near Burn of Fialzioch

NO 45/55 near Forfar

Found on flushed gravel in extensive peat bog.

Dianthus deltoides L. **Locally Scarce**

Maiden Pink

NO 43

NO 53 Barry Links 1993

NO 74 Red Head 2005

NO 75 Montrose Links 1999

NO 76 Kinnaber Links (dunes immediately north of Golf Course) 2005

NO 45

NO 64 Arbroath Cliffs 1900

This species grows along the coast in moderately species-rich dune grassland and sheltered, cliff top grassland.

Dryas octopetala L. **Locally Rare**

Mountain Avens

NO 17 Caenlochan Glen 2001

NO 27 Glen Doll 1999

This species is restricted to a few relatively inaccessible base-rich rock ledges.

Equisetum pratense Ehrh. **Locally Scarce**
Shady Horsetail
NO 16
NO 17 Caenlochan Glen
NO 25, NO 26
NO 27 Corrie Fee
NO 37
NO 36, NO 45, NO 55
Found spradically on steep grassy slopes below crags and by streams.

Equisetum variegatum Schleicher **Locally Very Rare**
Variogated Horsetail
NO 27 flushes above Corrie Sharroch and Glen Doll 2003
NO 17, NO 53 Barry Links
Formerly found in coastal sites in dune slacks and currently known to occur in slightly basic, high altitude flushes.

Euphrasia frigida Pugsley **Locally Rare**
Snow Eyebright
NO 17 Caenlochan Glen
NO 27 Glen Doll, Mayar
Grows sparsely on shaded, damp rock ledges.

Festuca arenaria Osbeck **Locally Scarce**
Rush-leaved Fescue
NO 43 Monifieth1999
NO 53 Barry Links 2002
NO 65 Lunan Bay 2002
NO 76 Kinnaber Links 2005
NO 75 Montrose
The habitat for this grass is reasonably well-defined as stands only occur along the ridges of the most seaward dunes.

Fumaria densiflora DC. **Locally Rare**
Dense-flowered Fumitory
NO 53, NO 63 NO 64
NO 32, NO 43, NO 45, NO 54, NO 55, NO 75, NO 76
Mostly seen as occasional plants at the edges of cultivated ground by the coast, this species is in decline due to habitat loss (the result of increasing agricultural intensification).

Goodyera repens (L.) R.Br. **Locally Scarce**
Creeping Lady's-tresses
NO 55
NO 64 Seaton Den 2003
NO 25, NO 48
NO 53 Barry 1931
NO 54 Bowrie Wood, Letham
NO 56 wood north of Edzell Common 1970
NO 64 Parkhill 1947
NO 66 Edzell Woods 1965

Usually found in coniferous woodland, although it grows below beech at Seaton Den and Parkhill, this species may be in decline but it is possibly under-recorded.

Hammarbya paludosa (L.) Kuntze

Locally Rare

Bog Orchid

NO 16 Glen Isla near Fergus 2003, NO 47

NO 27 Glen Doll 1974, Glen Fee 1947, NO 37, NO 58

Most recently found in flushed, slightly boggy pasture amongst *Sphagnum* mosses. The Glen Doll locality was searched in 2003 but afforestation has led to loss of suitable habitat.

Juncus alpinoarticulatus Chaix

Locally Rare

Alpine Rush

NO 17

NO 27

Found in association with hummocky vegetation in base-rich flushes.

Juncus balticus Willd.

Locally Scarce

Baltic Rush

NO 53 Barry Links 2005

NO 63 between Easthaven and Elliot 2005

NO 75 Duns Dish 2004

NO 43, NO 64

Mostly found in dune slacks and marshy hollows in dune grassland.

Juncus castaneus Smith

Locally Rare

Chestnut Rush

NO 183 773 Caenlochan Glen above Glasallt Burn, NO 173 765 Caenlochan above Craigie Doubs, NO 27

NO 37

Small populations survive in high altitude, open, silty flushes and rills.

Lathyrus japonicus Willd.

Locally Rare

Sea Pea

NO 53 Carnoustie 2002

NO 63 Elliot (not found since mid-1990s)

This species seems to prefer mobile dunes where competition from other plants is minimal. The remaining colony is at risk as attempts are constantly being made to prevent coastal erosion in the vicinity. It would appear that the Elliot colony died away as the dune area became well-vegetated.

- Limosella aquatica* L.** **Locally Rare**
Mudwort
 NO 25, NO 35, NO 75
 Grows at margins of pools.
- Linnaea borealis* L.** **Locally Rare**
Twinflower
 NO 27 Glen Doll 2003
 NO 64 West Woods of Ethie 1911
 NO 65 wood at Kinnaird 1856, Montreathmont 1800s
 NO 66 near Montrose 1837
 Presently restricted to heather-covered bouldery slopes this species was formerly found in lowland woods.
- Lycopodium annotinum* L.** **Locally Scarce**
Interrupted Clubmoss
 NO 17, NO 27, NO 28, NO 38, NO 48
 NO 37, NO 47
 This clubmoss ramifies through heather moorland on remote hillsides as well as occurring in sheltered rocky places.
- Lysimachia thyrsiflora* L.** **Locally Rare**
Tufted Loosestrife
 NO 55 Rescobie & Balgavies Lochs, Chapel Mires by Milldens 2006
 NO 45 Loch Fithie, NO 65
 Mostly found in reed swamp associated with loch margins.
- Meum athamanticum* Jacq.** **Locally Frequent**
Spignel
 NO 16, NO 17, NO 25, NO 26, NO 27, NO 35, NO 36, NO 37, NO 46
 NO 47, NO 56, NO 66
 This species is most prolific in relict areas of unimproved pasture, riverbanks and verges of tracks and roads.
- Minuartia sedoides* (L.) Hiern** **Locally Rare**
Cyphel
 NO 27 Meikle Kilrannoch 2003
 NO 17
 Most frequent in short turf over thin soils.
- Phleum alpinum* L.** **Locally Rare**
Alpine Cat's-tail
 NO 17 Caenlochan
 NO 27 Glen Doll
 NO 37
 Found mostly in high altitude seepages.

- Pinus sylvestris* L.** **Locally Scarce**
Scots Pine
 NO 16, NO 26, NO 27, NO 36, NO 37, NO 46, NO 47, NO 48
 NO 17
 In upland areas there are small remnants of native pinewoods.
- Poa alpina* L.** **Locally Rare**
Alpine Meadow-grass
 NO 17 Caenlochan
 NO 27 Glen Doll
 A species restricted to ledges of base-rich crags.
- Poa glauca* Vahl.** **Locally Rare**
Glaucous Meadow-grass
 NO 17
 NO 27
 A plant of rock ledges.
- Polygonum boreale* (Lange) Small** **Locally Rare**
Northern Knotgrass
 NO 43 1999
 NO 64 2005
 NO 75 near Usan 2006
 This coastal plant of field edges and tracksides has probably been overlooked and therefore is under-recorded.
- Potamogeton filiformis* Pers.** **Locally Rare**
Slender-leaved Pondweed
 NO 16, NO 55
 NO 23, NO 45, NO 54, NO 63, NO 64
 Found in lochs & streams.
- Potentilla crantzii* (Crantz) G. Beck ex Fritsch** **Locally Rare**
Alpine Cinquefoil
 NO 17 Caenlochan
 NO 27 Glen Doll
 NO 37 Loch Brandy
 A species of base-rich, vegetated rock ledges and species-rich grassy slopes.
- Pyrola media* Sw.** **Locally Rare**
Intermediate Wintergreen
 NO 27 Glen Doll, Corrie Fee
 NO 48
 NO 58 Glen Esk
 NO 25
 NO 35 Kinnordy Woods
 NO 37
 NO 47 Tarfside
 NO 57 Hill of Wirren 1974
 Recent records are from upland areas, crag ledges and moorland, but in the past this species also grew in base-rich pockets in woodland.

- Pyrola rotundifolia* L.** **Locally Rare**
Round-leaved Wintergreen
 NO 17 Caenlochan
 NO 27 Glen Doll
 This plant is restricted to inaccessible crag ledges.
- Sagina saginoides* (L.) Karsten** **Locally Rare**
Alpine Pearlwort
 NO 17, NO 27
 NO 37
 A species restricted to inaccessible ledges on base-rich rocks.
- Salix arbuscula* L.** **Locally Very Rare**
Mountain Willow
 NO 17, NO 27, NO 38
 This low-growing, often prostrate, willow prefers slightly flushed slopes and ledges with some base-richness.
- Salix lapponum* L.** **Locally Scarce**
Downy Willow
 NO 16 Glen Isla
 NO 17 Caenlochan Glen
 NO 27 Corrie Sharroch, Corrie Kilbo, Craig Haig & Long Craig Glen Prosen
 NO 37
 Good-sized populations of this willow grow in sheltered situations on rock ledges, in gullies and along streamsides where snow lie protects plants from extremes of winter weather.
- Salix myrsinites* L.** **Locally Scarce**
Whortle-leaved Willow
 NO 16
 NO 17 Caenlochan Glen
 NO 26, NO 27, NO 38
 A small shrub restricted to inaccessible crag ledges.
- Salix reticulata* L.** **Locally Rare**
Net-leaved Willow
 NO 17 Caenlochan Glen
 NO 27 Glen Doll
 This low-growing shrub is restricted to inaccessible ledges on base-rich crags.

- Saxifraga nivalis* L.** **Locally Very Rare**
Alpine Saxifrage
 NO 17 Caenlochan Glen
 NO 27 Corrie Fee
 NO 37
 Small populations of this plant occur near the bases of cliffs.
- Sibbaldia procumbens* L.** **Locally Rare**
Sibbaldia
 NO 17, NO 27
 Plants mostly occur in short turf in high corries with late snow lie.
- Silene nutans* L.** **Locally Very Rare**
Nottingham Catchfly
 NO 75 two populations on cliffs west of Boddin 2006
 NO 65
 Sea cliffs and roadside verge where andesitic & basaltic rocks are exposed.
- Thlaspi caerulescens* J.S. Presl. & C. Presl.** **Locally Very Rare**
Alpine Penny-cress
 NO 17 Caenlochan
 A montane plant of sparsely vegetated base-rich rocks.
- Vaccinium microcarpum* (Turcz ex Rupr) Schmalh.** **Locally Scarce**
Small Cranberry
 NO 28, NO 37, NO 38, NO 48, NO 58
 NO 17, NO 27, NO 36 Cat Law, NO 55, NO 57
 Found scrambling over hummocks of *Sphagnum* in wet, peaty and boggy habitats.
- Veronica alpina* L.** **Locally Rare**
Alpine Speedwell
 NO 17 Caenlochan Glen 2001, NO 27 Corrie Kilbo 1996
 NO 37
 Small populations are found on flushed rocks in areas of late snow lie.
- Vicia lutea* L.** **Locally Very Rare**
Yellow Vetch
 NO 43 Monifieth 2005
 NO 64 Auchmithie 1887, NO 75
 Formerly found on south-facing sea cliffs it has recently appeared on a steep, south-facing gravelly bank above Monifieth Sands.

Zostera angustifolia (Hornem) Reichb.

Locally Rare

Narrow-leaved Eelgrass

NO 473 308 Broughty Ferry 2003

NO 65 Montrose Basin 1999

NO 75 Montrose Basin

An estuarine plant growing in the intertidal zone.

Zostera noltii Hornem.

Locally Scarce

Dwarf Eelgrass

NO 65 Montrose Basin 1999

NO 75 Montrose Basin

An estuarine plant growing in the intertidal zone.

Nationally Scarce plants with no recent records in Angus

Arabis petraea (L.) Lam.

Northern Rock-cress

NO 27 Corrie Fee 1898, on rocks in Glen Esk, near Loch Lee 1801

A montane plant of exposed rocks, screes and river shingle.

Arctostaphylos alpinus (L.) Sprengel

Alpine Bearberry

NO 27 Hill of the White Haugh (The Bassies) 1833

Occurs in acidic montane heath on dry windswept ridges.

Calamagrostis stricta (Timm) Koeler

Narrow Small-reed

NO 45 White Mire by Forfar 1807, extinct by 1830

NO 55 Rescobie Loch 1940

A wetland species often found in fens with *Carex acutiformis*, its decline was largely due to loss of habitat.

Carex divisa Hudson

Divided Sedge

NO 75 Marsh near Montrose 1902

A coastal plant of wetland, particularly grazing-marsh ditches.

Carex magellanica Lam.

Tall Bog-sedge

NO 27 Clova Mountains 1850, NO 55 Rescobie Loch 1860

Formerly found in both upland and lowland wetlands in *Sphagnum* hummocks.

Crepis mollis (Jacq.) Asch.

Northern Hawk's-beard

NO 17, 1977, NO 45 near Sheilhill 1805

A plant of base-rich, herb-rich grassland/pasture.

Euphrasia rostkoviana* subsp. *rostkoviana Hayne

Eyebright

NO 76 North Water Bridge 1916

Formerly found in riverside grassland, particularly damp, herb-rich meadows.

Fumaria purpurea Pugsley

Purple Ramping-fumitory

NO 43, NO 66 (both dubious)

A coastal plant of dry shallow soils (probably not present in Angus).

Lycopodiella inundata (L.) Holub

Marsh Clubmoss

NO 37, NO 55, NO 75

A plant of marshy ground.

Melampyrum sylvaticum L.

Small Cow-wheat

NO 25 Reekie Linn 1950, (NO 37, NO 47, NO 75 - dubious records)

Formerly abundant in wooded dens the decline of this species is probably due to over-collecting and loss of suitable habitat.

Mertensia maritima (L.) Gray

Oysterplant

NO 63 west of Arbroath, Carr Ends, NO 64 Tornshaven & Auchmithie 1806

NO 65, NO 74 north of Redhead 1907, NO 75 Links of Montrose 1824, near

Usan 1859

Formerly found on shingle beaches.

Pilularia globulifera L.

Pillwort

NO 23 Long Loch 1959, NO 24, NO 25 Loch of Lintrathen 1933, NO 44, NO 45

NO 55 marsh on Finavon Hill 1913, Guthrie 1856, NO 57

An opportunist species which colonises open habitats around pond and loch margins it is probably now extinct in Angus due to lack of suitable habitat.

Potamogeton compressus L.

Grass-wrack Pondweed

NO 45 Forfar Loch 1820s, NO 54 Ochterlonie (Balmadies) Loch 1913, NO 55

Rescobie Loch 1921, Balgavies Loch 1842

Formerly found in lochs this species has been lost due to eutrophication of these lowland waterbodies.

Potentilla neumanniana Reichb.

NO 32 Wills Braes 1845, NO 33, NO 43 Stannergate (Hare Craigs) 1952
NO 56 West Water nr Edzell Golf Course, NO 64 West Common, Arbroath
1906

A plant of open seasonally parched sandy ground and dry, base-rich grassland.

Sedum villosum L.

Hairy Stonecrop

NO 17 Caenlochan Glen 1890, NO 27 Clova 1856, NO 43 Monifeith

A species which can occur in both upland flushes and lowland marshes.

Thelypteris palustris Schott

Marsh Fern

NO 45 near Clockriggs 1948, NO 55 Reswallie 1949

A plant of reed swamp.

Zostera marina L.

Eelgrass

NO 43, NO 65, NO 75

An estuarine species growing below mean low water level.

Locally rare native plants with no significant recent decline

Agrimonia procera Wallr.

Fragrant Agrimony

NO 25 Den of Airlie 1999

NO 64 near Letham Grange

Grows in hedgerows and woodland margins.

Anacamptis pyramidalis (L.) Rich.

Pyramidal Orchid

NO 63 Easthaven - Elliot coast 2003

A small colony, first recorded by L. Tucker in 1998, is present on semi-stable dunes in grassland between Easthaven and Elliot and produces between 20 and 30 flowering spikes each year.

Anthriscus caucalis M. Bieb.

Bur Chervil

NO 53 Barry Links 2003, NO 63 Elliot 2003

NO 43 Stannergate Station 1917, NO 65 near Redcastle 1914

Found scattered in sand dunes (any decline probably due to loss of habitat).

Berula erecta (Hudson) Cov.

Lesser Water-parsnip

NO 65 The Lurgies

NO 45, NO 64 near Marywell 1947

Grows in wetlands, mainly marshes and ditches.

Bidens cernua L.

Nodding Bur-marigold

NO 35 Kinnordy Loch

NO 23, NO 34 near Powmyre 1980, NO 45 Forfar Loch & Restenneth

NO 55 Mains of Melgund, NO 66 Duns Dish

A wetland plant found in marshy ground.

Blysmus rufus (Hudson) Link

Saltmarsh Flat-sedge

NO 75 Montrose Basin and Mains of Usan

NO 53 Barry Links, NO 63 Mouth of R. Elliot 1911, NO 64, NO 65

This species grows at the edge of saltmarshes where there are freshwater seepages.

Carex riparia Curtis

Greater Pond-sedge

NO 35

NO 55 Rescobie Loch 1946

A wetland plant of fens.

Carex viridula* subsp. *viridula Michaux

Small-fruited Yellow-sedge

NO 36, NO 725 544 Fishtown of Usan

Local habitats for this species include loch margins, freshwater seepages along the coast & dune slacks.

***Carex* x *grahamii* (*C. saxatilis* x *C. vesicaria*)** Boott

Mountain Bladder-sedge

NO 27 a single locality on the steep western slopes of Corrie Sharroch 1999

Grows in flushed ground on a wide rock ledge.

Ceratocarpus claviculata (L.) Liden

Climbing Corydalis

NO 46 Glen Queich 2002

NO 36 Clachnabrain 1968, NO 57 Glen Esk, NO 65

Probably overlooked as it usually grows on bracken-covered hillsides.

Circaea lutetiana L.

Enchanter's-nightshade

NO 25 Den of Airlie

near Finavon 1813

Grows in wooded valleys.

Crithmum maritimum L.

Rock Samphire

NO 64 bay north of Auchmithie 2005

First recorded by P. Gaff in 2004 there are presently three plants in semi-stable shingle adjacent to rocks.

Eleocharis multicaulis (Smith) Desv.

Many-stalked Spike-rush

NO 53 Barry Links 1998

NO 45

Found in dune slacks and damp hollows.

Equisetum x litorale Kuhl. ex Rupr.

(*E. arvense* x *E. fluviatile*)

NO 16 Glen Isla near Forter 1999, NO 53 Barry Links 1998

NO 35 near Cairnleith Farm

Found periodically in ditches with both parent species close by.

Eriophorum latifolium Hoppe

Broad-leaved Cottongrass

NO 16 near Drumore Loch, NO 23 Lochindores, Balshando Bog

NO 25, NO 27 Glen Doll 1946, NO 37 near Clova Hotel

Grows in species-rich, base-rich flushes.

Euphrasia tetraquetra (Breb.) Arrond.

NO 75

NO 53 Barry Links 1955

Grows in dune grassland.

Festuca altissima All.

Wood Fescue

NO 57

NO 25 (post 1930), NO 35 (pre 1930)

Found occasionally in gorge woodlands.

Fumaria capreolata L.

White Ramping-fumitory

NO 75

NO 43 Hare Craigs 1970

This species has a coastal distribution in Angus.

Galium sternerii Ehrend.

Limestone Bedstraw

NO 17 Caenlochan Glen 2001, NO 27 Glen Doll 1999

NO 37

A montane plant found on base-rich crags.

Gentianella amarella subsp. septentrionalis (Druce) N. Pritch.

NO 16 limestone exposure near Drumore Loch

Occasional plants occur on sparsely vegetated limestone outcrops.

Glyceria x pedicellata (G. fluitans x G. notata) F. Towns.

Hybrid Sweet-grass

NO 35, NO 63

NO 64 Arbroath, Cairniehill Pond

A plant of shallow pools, streams, ditches and swampy depressions in pastures.

Juncus ambiguus Guss.

Frog Rush

NO 75 (D. Pearman, 1999)

A coastal plant of mud and sand flats.

Ligusticum scoticum L.

Scots Lovage

NO 63 Elliot, NO 64 Arbroath cliffs 2005, Rumness 2005, NO 75 Usan 2005

NO 43

A coastal species found on cliffs, amongst boulders and in shingle.

Lycopus europaeus L.

Gipsywort

NO 53 Barry Links 2003

NO 64

In Angus this species has a coastal distribution and is found in swamps and dune slacks.

Neottia nidus-avis (L.) Rich.

Bird's-nest Orchid

NO 23 under roadside beech near Kettins, NO 25 under beech by Den of Airlie

NO 35 near Meglam Water

Small populations appear in beech woodland.

Ophioglossum vulgatum L.

Adder's-tongue

NO 53 Barry Links 2005

This species grows in dune slacks.

Orthilia secunda (L.) House

Serrated Wintergreen

NO 17, NO 27, NO 53

NO 75 near Montrose possibly Duninald Den 1902

The two habitats for this species are vegetated crag ledges in the uplands and woodland in the lowlands.

Paris quadrifolia L.

Herb-Paris

NO 25 Den of Airlie 1998

A very rare plant of den woodland.

Pseudorchis albida (L.) A. Löve & D. Löve

Small-white Orchid

NO 17 Caenlochan, NO 45 R. South Esk near Tannadice

NO 27 Glen Doll 1947, NO 48 Glen Mark 1980

An upland species of grass-heath vegetation.

Ranunculus fluitans Lam.

River Water-crowfoot

NO 33, NO 34

Recorded recently in moderately fast-flowing rivers and streams and possibly on the increase.

Salicornia dolichostachya Moss

Long-spiked Glasswort

NO 65, NO 75 Montrose Basin

A plant of intertidal mudflats.

***Salicornia europaea* L.**

Common Glasswort

NO 65, NO 75 Montrose Basin

A plant of intertidal mudflats

***Saxifraga tridactylites* L.**

Rue-leaved Saxifrage

NO 53 Barry 1999, NO 64 Arbirlot 1999

NO 34, NO 63

In Angus this plant grows on Carmyllie slate roofs.

***Sparganium angustifolium* Michx.**

Floating Bur-reed

NO 17, NO 37 Loch Brandy

NO 25 Loch of Lintrathen 1930, NO 45

Distribution now restricted to upland lochans.

***Suaeda maritima* (L.) Dumort**

Annual Sea-blite

NO 65, NO 75 Montrose Basin

A very uncommon plant found on salt marsh and tidal mud flats.

***Vaccinium oxycoccos* L.**

Cranberry

NO 33/NO 34 one site on Auchterhouse Hill 2005

Plants ramify across hummocky *Sphagnum* moss at the edge of a small bog.

Locally rare and declining native plants

***Allium oleraceum* L.**

Field Garlic

NO 23 Lundie Craigs 2006, NO 64 Seaton Cliffs, NO 65 R. South Esk & Boddin Point 2006

NO 45, NO 53, NO 55, NO 76

near Montrose, Den of Fullerton

Scattered plants grow in dry calcareous grassland above cliffs and along sunny riverbanks.

***Allium scorodoprasum* L.**

Sand Leek

NO 45, NO 64 Seaton Cliffs 2003

NO 35, NO 43, NO 55

This species grows in dry sandy soils of coastal grassland, scrub and open woodland.

***Anagallis arvensis* L.**

Scarlet Pimpernel

NO 32, NO 65, NO 75

NO 33, NO 43, NO 63, NO 64

This species occurs sporadically in open habitats such as gardens and arable fields but has declined as a result of loss of habitat due to intensive farming and use of herbicides.

***Apium inundatum* (L.) Reichb. f.**

Lesser Marshwort

NO 25

NO 16, NO 23 Long Loch, NO 32 Ninewells, NO 33 near Lawhill, pre 1860

NO 44 Kincaldrum, Barnhill Dub 1859, NO 54 Carmyllie Moor

NO 55 Finavon Hill, NO 64 Parkhill 1956, NO 65 Rossie Moor 1947, NO 66 Sands of Barrie (marshy pool), Guthrie, Monromon Moor (pools and ditches)

Formerly much more widely distributed this plant of shallow water, streams, loch margins, pools and ditches has declined as a result of habitat loss due to drainage and eutrophication.

***Astragalus glycyphyllos* L.**

Wild Liquorice

NO 64, Carlingheugh Bay, un-named bay north of Auchmithie 2006, Castlesea Bay 2004, NO 75 Boddin Point 2006

NO 25 Reekie Linn, NO 32 Wills Braes 1845, NO 56, NO 66,

Den of Balruddery, Banks of Meglum, River Isla by Mill of Quiech

Presently known only at coastal sites where it grows on steep slopes in moderately base-rich grassland whilst formerly it was also found on rocky banks and in wooded dens. The decline of this species can be attributed to loss of suitable habitat.

***Bromopsis ramosa* (Hudson) Holub**

Hairy-brome

NO 25 Den of Airlie, NO 57

NO 24 R. Isla at Ruthven Bridge, NO 56, NO 66 Edzell 1944

NO 76 island near North Water Bridge 1980

A plant of deciduous den woodland.

***Carex extensa* Gooden.**

Long-bracted Sedge

NO 43, NO 75 Mains of Usan

NO 53 Barry Links 1956, NO 64, NO 65 The Lurgies 1968

A plant of saltmarsh.

***Carex pauciflora* Light.**

Few-flowered Sedge

NO 27 moorland above Bachnagairn 1999

NO 17, NO 37, NO 38, NO 48, NO 57, NO 58

Possibly overlooked this small montane sedge grows in wet moorland.

***Carex vesicaria* L.**

Bladder-sedge

NO 54, NO 36 R. South Esk at Crossbog 2003

NO 25 Den of Airlie 1966, NO 36 Glen Prosen 1957, NO 37 Inchdowie, Clova 1914, NO 45 R. South Esk near Justinhaugh, NO 55

Possibly under-recorded this sedge grows along the margins of lochs, rivers & streams.

***Centaureum erythraea* Rafn**

Common Centaury

NO 32 Ninewells, NO 43, NO 66

NO 53 near mouth of Buddon Burn, NO 64

In Angus this species has a mainly coastal distribution and favours dune grassland.

***Chaerophyllum temulum* L.**

Rough Chervil

NO 25, NO 65

NO 23, NO 35, NO 45, NO 53, NO 64

A species of roadside verges and ditches.

***Clinopodium vulgare* L.**

Wild Basil

NO 53 Barry Links, NO 56

NO 24 R. Isla at Ruthven Bridge 1970, NO 25 Den of Airlie 1956, NO 27 Glen Fee 1869, NO 45 R. South Esk, Justinhaugh, NO 55 Noran Water, NO 65 Bridge of Dun 1912

A plant of scrubby, base-rich grassland on light soils and dunes.

***Dryopteris oreades* Fomin**

Mountain Male-fern

NO 17, NO 27, NO 37

NO 16, NO 36, NO 38, NO 45

This montane fern of boulder fields and screes may be under-recorded.

***Eleocharis uniglumis* (Link) Schultes**

Slender Spike-rush

NO 75 Mains of Usan

NO 23 Long Loch, NO 32, NO 53 Barry Links, NO 76 near Fisherhills

Found in dune slacks and damp places.

***Equisetum hyemale* L.**

Rough Horsetail

NO 16 Auchintaple Loch

NO 25 Den of Airlie 1839, Reekie Linn 1846, NO 27 Craig Rennet 1961, Fee Burn 1961, NO 36, NO 66

Grows in base-rich flushes and by upland streams.

***Filago minima* (Smith) Pers.**

Small Cudweed

NO 34, NO 45 Murton 2004, NO 53 Barry Links on ranges

NO 65, NO 75, NO 76

A plant of dry, sandy soil, pasture, dunes, waste ground.

***Filago vulgaris* Lam.**

Common Cudweed

NO 65, NO 66

NO 33 Auchterhouse 1956, NO 45 near Clocksbriggs, near Loch Fithie, NO 53 Pitairlie Quarry, NO 55 quarry, Turin Hill, NO 56, NO 63 Carmyllie Platform, Elliot 1907, NO 64 near Inverkeillor 1947, Leysmill Quarry 1980, NO 75 dunes at Montrose, NO 76

A plant of sandy fields, dunes and waste ground this species has declined due to loss of suitable habitat.

***Gentianella amarella* (L.) Boerner**

Autumn Gentian

NO 16 limestone exposures on Mount Blair, NO 33

NO 53 Barry Links 1947, NO 63 Elliot Golf Course 1953, NO 64, NO 75

This species grows in short, species-rich turf on base-rich substrates in dune grassland and in upland sites.

***Lobelia dortmanna* L.**

Water Lobelia

NO 37 Loch Brandy 2005

NO 23 Long Loch 1905, NO 25 Lintrathen, NO 37 Carlochy, Glen Lee 1979

Scattered populations grow round stony margins of oligotrophic lochs.

***Lythrum salicaria* L.**

Purple-loosestrife

NO 23 near Kettins

NO 53 Barry Links

NO 35, NO 45 Forfar Loch 1931, NO 54 Lunan Water, Friokheim 1980, NO 55 R. South Esk, Kintrochat 1980, NO 65 Lunan Water 1948

Found in marshy ground and along riverbanks, ditches and loch margins this is possibly an introduced species in Angus.

Melica uniflora Retz.

Wood Melick

NO 25 Den of Airlie 2003

NO 34 near Glamis 1977, NO 57 Mooran Ravine 1974

An infrequent plant of wooded dens on base-rich soils.

Milium effusum L.

Wood Millet

NO 25 Den of Airlie 1998, NO 33 by Swallow Hotel 2002, NO 43 Tealing 1998

NO 24, NO 35 Loups of Kenny 1971, NO 57 Mouran Ravine 1974

Sparse in broad-leaved woodland.

Phleum arenarium L.

Sand Cat's-tail

NO 53, NO 65

NO 43, NO 63, NO 64, NO 75, NO 76

Possibly over-looked, this species is found on sand dunes.

Platanthera chlorantha (Custer) Reichb.

Greater Butterfly-orchid

NO 25

NO 27 by R. South Esk, Braedownie, NO 46 Glenqueich, NO 56, NO 57

NO 66

Formerly more frequent, this species has been found in woodland and damp pastures.

Polygonum oxyspermum C. Meyer & Bunge ex Ledeb.

Ray's Knotgrass

NO 63 Elliot

NO 43 near Monifieth 1845, NO 53 Carnoustie 1846, NO 75

A species of sandy shores.

Polypodium x mantoniae Rothm. & U. Schneider

(*P. interjectum* x *P. vulgare*)

NO16

NO 25 Reekie Linn 1964, NO 64 Elliot Water near Arbirlot 1964

This fern grows on shaded walls and banks.

Potamogeton gramineus L.

Various-leaved Pondweed

NO 27, NO 54

NO 16, NO 23, NO 25, NO 26, NO 37, NO 45, NO 53, NO 55, NO 66, NO 75

Formerly much more frequent, this species prefers oligotrophic lochs.

Potamogeton pectinatus L.

Fennel Pondweed

NO 53, NO 55, NO 63

NO 34 Dean Water, Bridgend 1971, NO 44, NO 45 Forfar Loch 1966

A lowland species found in base-rich water.

Potentilla argentea L.

Hoary Cinquefoil

NO 34 site of Eassie Station

NO 25, NO 43 east of Dundee 1916, NO 53 Carnoustie Links 1901, NO 63

Elliot Golf Course 1885

A casual plant of sandy and waste ground.

Ranunculus penicillatus (Dumort.) Bab.

Stream Water-crowfoot

NO 66

NO 33, NO 35, NO 43, NO 64, NO 65

A plant of rivers and streams.

Ranunculus trichophyllus Chaix.

Thread-leaved Water-crowfoot

NO 35, NO 53

NO 16, NO 26, NO 33, NO 45, NO 54, NO 63, NO 64

A plant of lochs and ditches.

Reseda lutea L.

Wild Mignonette

NO 32, NO 63

NO 33, NO 34, NO 43, NO 75

This species occurs infrequently on waste ground.

Rorippa palustris (L.) Besser

Marsh Yellow-cress

NO 25, NO 35, NO 45, NO 55

NO 43, NO 44, NO 53, NO 56, NO 65, NO 66, NO 76

This species grows in a variety of habitats including marshes and streamsides, open damp hollows. Its decline is probably due to loss of wetland habitat.

Rumex hydrolapathum Hudson

Water Dock

NO 34, NO 53 Barry, NO 55 Balgavies 2006, NO 63 Elliot Links

NO 33 Invergowrie 1956, NO 64

Currently restricted to pools and marshes near the coast.

Sagina maritima G. Don

Sea Pearlwort

NO 63, NO 64, NO 75

NO 43, NO 53, NO 65, NO 76

Found on dunes, saltmarsh and rocky places along the coast.

Scabiosa columbaria L.

Small Scabious

NO 25, NO 63 Easthaven – Elliot coast 2005, NO 74

NO 53, NO 64, NO 75

Localised populations occur in calcareous grassland, usually coastal.

Schoenoplectus lacustris (L.) Palla

Common Club-rush

NO 16, NO 55, NO 63

NO 34, NO 35, NO 43, NO 45, NO 65

A plant of marshes and loch margins.

Schoenoplectus tabernaemontani (C.Gmelin) Palla

Grey Club-rush

NO 65

NO 33, NO 53, NO 55

A plant of saltmarsh and estuarine reed swamps.

Scirpus sylvaticus L.

Wood Club-rush

NO 36 R. South Esk at Crossbog 2003, NO 65 R. S. Esk nr Powmouth 2006

NO 66

NO 34 Glamis 1956, NO 45 R. South Esk, Tannadice 1966, NO 54 Lunan Water, Guthrie 1958, NO 65 Arrat's Mill, Brechin 1960

Small populations are still present in marshes and along river banks.

Scleranthus annuus L.

Annual Knawel

NO 33, NO 34, NO 45, NO 55

NO 43, NO 54, NO 57, NO 64, NO 65, NO 75

Small numbers appear occasionally on dry, stony or sandy ground mostly along tracksides.

Seriphidium maritimum (L.) Polj.

Sea Wormwood

NO 43, NO 75 west and north of Boddin Point 2006

NO 65,

Found rarely on sea cliffs, rocky shores and sandy ground along the coast.

***Sherardia arvensis* L.**

Field Madder

NO 33, NO 46

NO 24, NO 43, NO 45, NO 48, NO 53, NO 54, NO 55, NO 64, NO 75

Formerly more abundant, this species is now seen mostly in amenity grassland and by tracks through improved pasture.

***Sparganium emersum* Rehm.**

Unbranched Bur-reed

NO 37, NO 54

NO 25, NO 36, NO 45, NO 55, NO 64, NO 65

This plant grows in lochs, in shallow water over silty substrate.

***Sparganium natans* L.**

Least Bur-reed

NO 35, NO 36

NO 37, NO 46, NO 55

A plant of lochs and pools.

***Subularia aquatica* L.**

Awlwort

NO 37 Loch Brandy 2005

NO 23 Long Loch 1905

Found in shallow water on stony substrate at the edge of of oligotrophic lochs.

***Teesdalia nudicaulis* (L.) R. Br.**

Shepherd's Cress

NO 43 Hare Craigs, NO 54 Crombie

NO 33, NO 34, NO 35, NO 53, NO 75, NO 76

Small populations are still present in dry, bare, stony ground and on stonework by reservoir. Decline may be due to loss of former habitats or lack of suitable open ground.

***Trifolium scabrum* L.**

Rough Clover

NO 74 and NO 75 between Prail Castle and Red Head

NO 64 Carlingheugh Bay 1926, Castlesea Bay 1933, NO 75 Usan and Ferryden

A coastal plant of dry, gravelly ground.

***Trifolium striatum* L.**

Knotted Clover

NO 43, NO 53, NO 64

NO 32, NO 33, NO 63, NO 75

A coastal plant of sandy grassland that has probably declined due to fragmentation and loss of suitable habitat.

Trisetum flavescens (L.) Beauv.

Yellow Oat-grass

NO 53, NO 64, NO 65

NO 33, NO 43, NO 55, NO 56, NO 63

A plant of base-rich grassland, now mostly near to the coast. Its decline is probably due to fragmentation and loss of habitat.

Utricularia australis R.Br.

Bladderwort

NO 35, NO 55 Chapel Mires by Milldens 2006

NO 55 Rescobie Loch 1892

A rarely seen plant of pools and lochs.

Utricularia minor L.

Lesser Bladderwort

NO 65

NO 16, NO 37 Inchdowrie, Clova, NO 45 Restenneth 1947, NO 48 Carloch
Glen Mark 1971, NO 55 Milldens 1958

A plant of moorland pools and lochs which grows in stagnant water.

Utricularia vulgaris L.

Greater Bladderwort

NO 35

NO 23 Ardgarth Loch, NO 25 Balintore, NO 34 Auchterhouse Hill 1980, NO 36,
NO 45, NO 55 Milldens 1966, NO 75

A plant of pools and lochs.

Veronica serpyllifolia subsp. ***humifusa*** (Dickson) Syme

NO 17, NO 27

NO 37, NO 47

A montane sub-species found in flushed grassland.

Viburnum opulus L.

Guelder-rose

NO 25, NO 45, NO 55

NO 24, NO 34 Dean Water 1974, NO 35 Den of Pearsie 1973, No 54 Idvies
1915

A small tree found in deciduous woodland, its actual (fairly restricted) distribution and abundance have been augmented by amenity planting of native species. Its decline is probably due to fragmentation and loss of habitat.

Vicia orobus DC.

Wood Bitter Vetch

NO 25 Reekie Linn above waterfall 2003

NO 34 Glamis 1836, NO 54 Kirkden 1840

Formerly much more abundant in the rocky gorge at Reekie Linn this species is now reduced to a single clump on an inaccessible rock face. Collecting by botanists in the 1800s probably contributed significantly to its decline.

***Viola hirta* L.**

Hairy Violet

NO 23 Lundie Craigs 2006, NO 75 Duninald Den 2006

NO 32 Wills Braes 1846, NO 64 Castlesea Bay 1940, NO 65 Buckie Den 1944

NO 75 Boddin Point 1967

Mostly restricted to inaccessible clefts in base-rich crags this species has probably declined due to loss of suitable habitat.

Locally scarce native plants with no significant recent decline

***Carex distans* L.**

Distant Sedge

NO 33, NO 43 Hare Craigs, NO 53 Buddon Burn, NO 75 Mains of Usan, Montrose

NO 64 Arbroath cliffs 1966

A coastal plant found in small numbers in fresh water seepages.

***Carex remota* L.**

Remote Sedge

NO 25 Den of Airlie, NO 36 R. South Esk by Crossbog 2003, NO 65 R. South Esk by Bridge of Dun, NO 66

NO 45 R. South Esk by Tannadice, NO 46

Small populations occur in damp wooded areas.

***Carex paniculata* L.**

Greater Tussock-sedge

NO 35 Kinnordy, NO 45 Restenneth Moss, NO 53 Barry Links, NO 54, NO 55 Balgavies (Fonah Bog) and Chapel Mires 2006

NO 34, NO 56, NO 64

A plant of reedswamps restricted by availability of suitable habitat.

***Carlina vulgaris* L.**

Carlina Thistle

NO 64, NO 65, NO 74, NO 75

Present in a few pockets of sparsely-vegetated, base-rich grassland on steep and rocky slopes along the coast.

***Draba incana* L.**

Hoary Whitlowgrass

NO 17, NO 27, NO 37

NO 38

A montane plant found scattered on ledges of basic crags and outcrops.

Dryopteris expansa (C. Presl.) Fraser-Jenkins & Jermy

Northern Buckler-fern

NO 196 681, NO 196 685, NO 17 Caenlochan Glen 1998, NO 27, NO 28

A montane fern of boulder fields and crags.

Gnaphalium supinum L.

Dwarf Cudweed

NO 17, NO 27 Corrie Kilbo 1996, NO 28

NO 37, NO 38

A montane plant found in high corries and other pockets of mountainside on sparsely-vegetated ground with late snow-lie.

Juncus trifidus L.

Three-leaved Rush

NO 17, NO 27, NO 37

A montane plant mostly found on summit plateaux but also present on crags.

Juncus triglumis L.

Three-flowered Rush

NO 17, NO 27, NO 37

NO 16, NO 48

A montane plant of base-rich, stony flushes.

Lemna trisulca L.

Ivy-leaved Duckweed

NO 23, NO 35, NO 55

NO 45, NO 76

A plant of pools and ditches.

Luzula spicata (L.) DC

Spiked Wood-rush

NO 17, NO 27, NO 37

A montane plant growing at high altitude on crag ledges and on stony summits.

Oxyria digyna (L.) Hill

Mountain Sorrel

NO 17, NO 27, NO 28, NO 37

A montane species present in stony flushes and damp gullies.

Potamogeton pusillus L.

Lesser Pondweed

NO 53, NO 55, NO 63, NO 66

NO 23, NO 45

A plant found in lochs with muddy substrates.

Puccinellia distans* subsp. *borealis (O. Holmb.) W.E. Hughes

Northern Saltmarsh-grass

NO 53, NO 75, NO 76

A coastal plant found on rocky and stony shores and sea walls.

***Ranunculus lingua* L.**

Greater Spearwort

NO 23 Balshando Bog, Ardgath, Lundie, NO 35 Kinnordy, NO 54 west of Rescobie, NO 55 Rescobie, Balgavies

NO 34 Captains Loch, Glamis 1970

Small numbers of this plant grow in marshes and by loch margins.

***Salix herbacea* L.**

Dwarf Willow

NO 17, NO 27, NO 37

NO 16

A prostrate montane shrub found on rock ledges and summit plateaux.

***Saussurea alpina* (L.) DC.**

Alpine Saw-wort

NO 17, NO 27, NO 37

This montane species prefers damp rock ledges and streamsides.

***Saxifraga hypnoides* L.**

Mossy Saxifrage

NO 17, NO 27, NO 37

NO 23, NO 25, NO 55

A montane plant found infrequently on damp ledges and in grassland.

***Saxifraga oppositifolia* L.**

Purple Saxifrage

NO 17, NO 27, NO 37, NO 38, NO 48

A montane plant of streamsides and damp ledges on crags and outcrops.

***Scrophularia umbrosa* Dumort.**

Green Figwort

NO 53, NO 54, NO 64

NO 43

This species grows along the banks of rivers and streams.

***Scutellaria galericulata* L.**

Skullcap

NO 45, NO 53, NO 55, NO 66

NO 34, NO 35, NO 54

Small populations occur in damp woodland and by loch margins.

Sedum anglicum Hudson
English Stonecrop
NO 43, NO 64, NO 75, NO 76
A plant of maritime rocks.

Sedum rosea (L.) Scop.
Roseroot
NO 17, NO 27, NO 28, NO 37, NO 38, NO 48
NO 47
A montane plant mostly restricted to inaccessible ledges of crags and steep gullies.

Silene acaulis (L.) Jacq.
Moss Campion
NO 17, NO 27, NO 28, NO 37, NO 38
A montane plant normally associated with basic rocks.

Thalictrum alpinum L.
Alpine Meadow-rue
NO 17, NO 27, NO 37, NO 48
NO 16
A montane plant of flushed grassland.

Tofieldia pusilla (Michaux) Pers.
Scottish Asphodel
NO 16, NO 17, NO 27
NO 37
Small populations of this montane plant occur sporadically in flushed grassland.

Viola tricolor subsp. ***curtisii*** (E. Forst.) Syme
NO 33, NO 34, NO 65
NO 44
This subspecies occurs occasionally in grassland on moorland.

Locally scarce and declining native plants

Adoxa moschatellina L.
Moschatel
NO 25 Den of Airlie, NO 34 Glamis, NO 45, NO 36
NO 17, NO 24, NO 35, NO 43, NO 46, NO 55, NO 57, NO 65, NO 66
Den of Mains, Den of Laurieston, Den of Fullerton, Kinnaird Mill Woods
Found in damp, shady niches ranging from riverside woodland to below boulders in the uplands, this species appears to have declined due to fragmentation, degradation and loss of suitable habitat.

Carex laevigata Smith

Smooth-stalked Sedge

NO 47 Tarfside, NO 36, NO 53, NO 58

NO 25 Den of Airlie 1959, NO 46, NO 56 West Water ravine, NO 64 West Woods of Ethie 1934

This species tends to occur in damp hollows in woodland.

Carex limosa L.

Bog-sedge

NO 280 375 Ardgath 2002

NO 27, NO 55 between Rescobie & Balgavies Lochs

A wetland species occurring in fens.

Ceratophyllum demersum L.

Rigid Hornwort

NO 55 Balgavies Loch

NO 23 Long Loch 1946, NO 25, NO 65 near Inverkeillor

Found growing in areas of open water.

Sanicula europaea L.

Sanicle

NO 25, NO 33, NO 48, NO 56, NO 57, NO 67

NO 26, NO 27, NO 35, NO 45, NO 64

Small populations are found in long established woodland.

Vulpia bromoides (L.) S.F. Gray

Squirreltail Fescue

NO 33, NO 43, NO 64, NO 65

NO 32, NO 34, NO 53, NO 66

Small populations are present on thin soil by tracks. This species has probably declined as suitable habitats have become degraded.

Notable native plants with no recent records

Alisma lanceolatum With.

Narrow-leaved Water-plantain

NO 66 Dun's Dish 1935

A plant of loch margins.

Anagallis minima (L.) E.H. Krause

Chaffweed

NO 65 Rossie Moor 1948, NO 75 Montrose Links 1848

A plant of damp sandy sites or bare, wet tracks on moorland, it is a poor competitor and has suffered as a result of loss of habitat.

Baldellia ranunculoides (L.) Parl.

Lesser Water-plantain

NO 45 Forfar Loch, NO 55 Balgavies 1848, Rescobie 1908

NO 66 Duns Dish 1917, Sands of Barrie

A plant of loch margins and moist places.

Bromus hordeaceus subsp. ***ferronii*** (Mabille) P.M. Smith

NO 63 Elliot Links 1943, NO 75 Fishtown of Usan 1944

A coastal species found on cliffs and dunes.

Bromus hordeaceus subsp. ***thominei*** (Hardouin) Braun-Blanquet

NO 53 Carnoustie 1924, NO 65 Lunan Bay 1944, NO 74 Red Head 1944

A coastal species found on sand dunes.

Calamagrostis epigejos (L.) Roth

Wood Small-reed

NO 27 Corrie Fee 1896, NO 35

A plant of damp woodland and rough grassland.

Callitriche platycarpa Kuetz.

Various-leaved Water-starwort

NO 25 Pond at Balintore near Lintrathen, NO 54 Auchterlonie, Vinney Water by Friockheim 1970, NO 55 Montreathmont Moor, NO 65 R. South Esk near Powmouth

A wetland species of streams and ditches.

Carduus tenuiflorus Curtis

Slender Thistle

NO 65 Lunan Bay 1973, NO 75 Montrose Links 1955

A coastal plant of sand dunes, waste ground and dry fields.

Carex spicata Hudson

Spiked Sedge

NO 27, NO 43 (1955), NO 74 Red Head 1940

A plant of dry, base-rich grassland.

Catabrosa aquatica (L.) P. Beauv.

Whorl-grass

NO 45 Restenneth 1889, NO 53 Battie's Well, Panmure Gardens 1914, NO 55 Wiel Staves, Rescobie 1912, NO 65 Old Montrose 1836, NO 75 St. Skaes 1914

A plant of marshy habitats.

Catapodium rigidum (L.) C.E. Hubb.

Fern-grass

NO 32 Ninewells, NO 63 south of Arbroath

A coastal species found on sandy banks.

Cladium mariscus (L.) Pohl

Great Fen-sedge

NO 45 Restenneth Moss 1813

Found in marshy ground, this species is known to be extinct due to habitat loss (drainage of site for marl extraction).

Clinopodium acinos (L.) Kuntze

Basil Thyme

NO 35, NO 43, NO 64

A plant of bare or rocky ground, arable fields, dry calcareous soils.

Cynoglossum officinale L.

Hound's-tongue

NO33, NO 55 Balgavies 1860, NO 63 Elliot 1887

A plant of dry grassland (possibly extinct).

Drosera anglica Hudson

Great Sundew

NO 17 Glas Maol, bog near summit

A montane species of boggy ground.

Eleogiton fluitans (L.) Link

Floating Club-rush

NO 37 Loch Brandy, NO 55 Finavon Hill 1972, Montreathmont Moor 1836, NO 65

A plant of peaty pools.

Erophila glabrescens Jordan

Glabrous Whitlowgrass

NO 43, NO 45, NO 53

A plant of shallow, basic soils such as sandy grassland.

Erophila majuscula Jordan

Hairy Whitlowgrass

NO 53, NO 75

A plant of calcareous soils, open dry ground and sand dunes.

Eryngium maritimum L.

Sea-holly

NO 53 lighthouse near Broughty Castle 1722, Barry, NO 63 Elliot 1891, NO 64, NO 75 near Montrose 1871

A coastal species found on sandy links (probably extinct).

Euphrasia nemorosa (Pers.) Wallr.

NO 53 Barry Links, NO 75

A coastal species found on sand dunes is possibly overlooked.

Filipendula vulgaris Moench

Dropwort

NO 32, NO 34, NO 43, NO 75

A coastal species of base-rich grassland. Whilst native colonies are probably extinct, having declined as a result of habitat loss, it grows well in gardens.

Hymenophyllum wilsonii Hook.

Wilson's Filmy Fern

NO 25 Reekie Linn 1842, Den of Airlie 1849, NO 27 Falls of Fee 1956, Bachnagairn 1960, NO 37 Carlowie 1914, NO 47 Glen Saughs 1912, Glen Effock 1916, NO 57 ravine by Edzell 1914

Probably under-recorded, this species grows on damp, shady rocks by waterfalls.

Isoetes lacustris L.

Quillwort

NO 27, NO 37 Loch Brandy 1953, Loch Wharral 1918

A montane species of loch margins.

Jasione montana L.

Sheep's-bit

NO 34, NO 43 Affleck, Monikie 1885

Formerly recorded in old quarries.

Juncus subnodulosus Schrank

Blunt-flowered Rush

NO 53 Barry 1838, Buddon 1948

A plant of marshes.

Oenanthe fistulosa L.

Tubular Water-dropwort

NO 33 marsh by Bullion Burn, Invergowrie 1908, NO 53 Buddon Burn 1957

A plant of marshy ground.

Ornithopus perpusillus L.

Bird's-foot

NO 24, NO 25, NO 34, NO 35, NO 44, NO 45, NO 53, NO 75, NO 76

A plant of open ground along field margins on light sandy soils, it has declined due to loss of suitable habitat.

Persicaria minor (Hudson) Opiz

Small Water-pepper

NO 25, NO 45

Formerly found in wet fields, this species is probably extinct.

Polypodium interjectum Shivas

Intermediate Polypody

NO 25

A plant of shaded banks, walls, rocks and tree trunks.

Potamogeton friesii Rupr.

Flat-stalked Pondweed

NO 45 Forfar Loch 1820, NO 55 Balgavies Loch 1950, Rescobie Loch 1908

Formerly found in lochs with muddy substrates, it is possibly extinct.

Potamogeton lucens L.

Shining Pondweed

NO 55 Balgavies Loch 1967, Rescobie Loch 1908

Formerly found in lochs over inorganic, base-rich substrates, it is possibly extinct.

Potamogeton praelongus Wulfen

Long-stalked Pondweed

NO 16 Blacklunans Loch 1970, NO 23 Long Loch, Lundie 1946, NO 55 Rescobie Loch 1908, NO 65 Lunan 1835

Formerly found in lochs over substrates with little organic matter.

Ranunculus baudotii Godron

Brackish Water-crowfoot

NO 32/33 Invergowrie 1914, NO 43, NO 45, NO 53, NO 63 Elliot Links 1975

A plant of brackish pools.

Ranunculus circinatus Sibth.

Fan-leaved Water-crowfoot

NO 23 Loch Long 1980, NO 45 Loch Fithie, NO 55 Rescobie Loch 1908, Balgavies Loch

Found in lochs.

Rhynchospora alba (L.) Vahl

White Beak-sedge

NO 55 marsh near Rescobie 1835

A plant of marshy ground.

Ruppia maritima L.

Beaked Tasselweed

NO 65 The Lurgies 1968

A plant of brackish pools and ditches.

Salicornia ramosissima J. Woods

Purple Glasswort

NO 65, NO 75 Montrose Basin 1914

A plant of intertidal mudflats.

***Thymus pulegioides* L.**

Large Thyme

NO 53 Barry Links

A plant of dry, sandy grassland.

***Utricularia intermedia* Hayne**

Intermediate Bladderwort

NO 23 Ardgarth 1947, NO 45 Restenneth 1914, NO 55 Rescobie 1912

Found in shallow, peaty pools.

***Vulpia fasciculata* (Forsskaol) Fritsch**

Dune Fescue

NO 43 Monifeith 1955

A coastal species found in sand dunes.

Additional records of interest received after completion of register

***Utricularia ochroleuca* R.W. Hartm.**

Pale Bladderwort

NO 281 374 Ardgarth 2002

Possible past confusion between this species and *Utricularia intermedia*, this species was recorded by Martin Robinson in 2002.

Index	Page No.
<i>Adoxa moschatellina</i>	34
<i>Agrimonia procera</i>	18
<i>Alchemilla glomerulans</i>	6
<i>Alchemilla wichurae</i>	6
<i>Alisma lanceolatum</i>	35
<i>Allium oleraceum</i>	22
<i>Allium scorodoprasum</i>	22
<i>Alopecurus borealis</i>	6
<i>Anacamptis pyramidalis</i>	18
<i>Anagallis arvensis</i>	23
<i>Anagallis minima</i>	35
<i>Anthriscus caucalis</i>	18
<i>Apium inundatum</i>	23
<i>Arabis petraea</i>	15
<i>Arctostaphylos alpinus</i>	15
<i>Astragalus alpinus</i>	2
<i>Astragalus glycyphyllos</i>	23
<i>Athyrium distentifolium</i>	6
<i>Athyrium flexile</i>	2
<i>Baldellia ranunculoides</i>	36
<i>Berula erecta</i>	18
<i>Betula nana</i>	6
<i>Bidens cernua</i>	18
<i>Blysmus rufus</i>	18
<i>Bromopsis benekenii</i>	6
<i>Bromopsis ramosa</i>	23
<i>Bromus hordeaceus</i> subsp. <i>ferronii</i>	36
<i>Bromus hordeaceus</i> subsp. <i>thominei</i>	36
<i>Calamagrostis epigejos</i>	36
<i>Calamagrostis purpurea</i>	2
<i>Calamagrostis stricta</i>	15
<i>Callitriche platycarpa</i>	36
<i>Carduus tenuiflorus</i>	36
<i>Carex atrata</i>	6
<i>Carex capillaris</i>	7
<i>Carex distans</i>	31
<i>Carex divisa</i>	15
<i>Carex extensa</i>	23
<i>Carex laevigata</i>	35
<i>Carex limosa</i>	35
<i>Carex magellanica</i>	15
<i>Carex maritima</i>	7
<i>Carex norvegica</i>	2
<i>Carex paniculata</i>	31
<i>Carex pauciflora</i>	23
<i>Carex rariflora</i>	2
<i>Carex remota</i>	31
<i>Carex riparia</i>	18
<i>Carex rupestris</i>	7
<i>Carex saxatilis</i>	7
<i>Carex spicata</i>	36
<i>Carex vaginata</i>	7
<i>Carex vesicaria</i>	24
<i>Carex viridula</i> subsp. <i>viridula</i>	19
<i>Carex x grahamii</i>	19
<i>Carlina vulgaris</i>	31
<i>Catabrosa aquatica</i>	36
<i>Catapodium rigidum</i>	36
<i>Centaurium erythraea</i>	24
<i>Cerastium alpinum</i>	7
<i>Ceratocarpus claviculata</i>	19
<i>Ceratophyllum demersum</i>	35
<i>Chaerophyllum temulum</i>	24
<i>Cicerbita alpina</i>	2
<i>Cicuta virosa</i>	7
<i>Circaea lutetiana</i>	19
<i>Cladium mariscus</i>	37
<i>Clinopodium acinos</i>	37
<i>Clinopodium vulgare</i>	24
<i>Cochlearia micacea</i>	3
<i>Corallorhiza trifida</i>	8
<i>Crepis mollis</i>	16
<i>Crithmum maritimum</i>	19
<i>Cynoglossum officinale</i>	37
<i>Cystopteris montana</i>	8
<i>Deschampsia setacea</i>	8
Moschatel	34
Fragrant Agrimony	18
Folded Lady's-mantle	6
Smooth Mountain Lady's-mantle	6
Narrow-leaved Water-plantain	35
Field Garlic	22
Sand Leek	22
Alpine Foxtail	6
Pyramidal Orchid	18
Scarlet Pimpernel	23
Chaffweed	35
Bur Chervil	18
Lesser Marshwort	23
Northern Rock-cress	15
Alpine Bearberry	15
Alpine Milk-vetch	2
Wild Liquorice	23
Alpine Lady-fern	6
Newman's Lady-fern	2
Lesser Water-plantain	36
Lesser Water-parsnip	18
Dwarf Birch	6
Nodding Bur-marigold	18
Saltmarsh Flat-sedge	18
Lesser Hairy-brome	6
Hairy-brome	23
Wood Small-reed	36
Scandinavian Small-reed	2
Narrow Small-reed	15
Various-leaved Water-starwort	36
Slender Thistle	36
Black Alpine-sedge	6
Hair Sedge	7
Distant Sedge	31
Divided Sedge	15
Long-bracted Sedge	23
Smooth-stalked Sedge	35
Bog-sedge	35
Tall Bog-sedge	15
Curved Sedge	7
Close-headed Alpine Sedge	2
Greater Tussock-sedge	31
Few-flowered Sedge	23
Mountain Bog-sedge	2
Remote Sedge	31
Greater Pond-sedge	18
Rock Sedge	7
Russet Sedge	7
Spiked Sedge	36
Sheathed Sedge	7
Bladder-sedge	24
Small-fruited Yellow-sedge	19
Mountain Bladder-sedge	19
Carlina Thistle	31
Whorl-grass	36
Fern-grass	36
Common Centaury	24
Alpine Mouse-ear	7
Climbing Corydalis	19
Rigid Hornwort	35
Rough Chervil	24
Alpine Blue-sow-thistle	2
Cowbane	7
Enchanter's-nightshade	19
Great Fen-sedge	37
Basil Thyme	37
Wild Basil	24
Mountain Scurvygrass	3
Coralroot Orchid	8
Northern Hawk's-beard	16
Rock Sapphire	19
Hound's-tongue	37
Mountain Bladder-fern	8
Bog Hair-grass	8

<i>Dianthus deltoides</i>	Maiden Pink	8
<i>Draba incana</i>	Hoary Whitlowgrass	31
<i>Drosera anglica</i>	Great Sundew	37
<i>Dryas octopetala</i>	Mountain Avens	8
<i>Dryopteris expansa</i>	Northern Buckler-fern	32
<i>Dryopteris oreades</i>	Mountain Male-fern	24
<i>Eleocharis multicaulis</i>	Many-stalked Spike-rush	19
<i>Eleocharis uniglumis</i>	Slender Spike-rush	24
<i>Eleogiton fluitans</i>	Floating Club-rush	37
<i>Equisetum hyemale</i>	Rough Horsetail	25
<i>Equisetum pratense</i>	Shady Horsetail	9
<i>Equisetum variegatum</i>	Variegated Horsetail	9
<i>Equisetum x litorale</i>		19
<i>Erigeron borealis</i>	Alpine Fleabane	3
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	19
<i>Erophila glabrescens</i>	Glabrous Whitlowgrass	37
<i>Erophila majuscula</i>	Hairy Whitlowgrass	37
<i>Eryngium maritimum</i>	Sea-holly	37
<i>Euphrasia frigida</i>	Snow Eyebright	9
<i>Euphrasia nemorosa</i>		37
<i>Euphrasia rostkoviana</i> subsp. <i>rostkoviana</i>		16
<i>Euphrasia tetraquetra</i>		20
<i>Festuca altissima</i>	Wood Fescue	20
<i>Festuca arenaria</i>	Rush-leaved Fescue	9
<i>Filago minima</i>	Small Cudweed	25
<i>Filago vulgaris</i>	Common Cudweed	25
<i>Filipendula vulgaris</i>	Dropwort	38
<i>Fumaria capreolata</i>	White Ramping-fumitory	20
<i>Fumaria densiflora</i>	Dense-flowered Fumitory	9
<i>Fumaria purpurea</i>	Purple Ramping-fumitory	16
<i>Galium sternerii</i>	Limestone Bedstraw	20
<i>Gentiana nivalis</i>	Alpine Gentian	3
<i>Gentianella amarella</i>	Autumn Gentian	25
<i>Gentianella amarella</i> subsp. <i>septentrionalis</i>		20
<i>Glyceria x pedicellata</i>	Hybrid Sweet-grass	20
<i>Gnaphalium norvegicum</i>	Highland Cudweed	3
<i>Gnaphalium supinum</i>	Dwarf Cudweed	32
<i>Goodyera repens</i>	Creeping Lady's-tresses	9
<i>Hammarbya paludosa</i>	Bog Orchid	10
<i>Homogyne alpina</i>	Purple Colt's-foot	3
<i>Hymenophyllum wilsonii</i>	Wilson's Filmy Fern	38
<i>Isoetes lacustris</i>	Quillwort	38
<i>Jasione montana</i>	Sheep's-bit	38
<i>Juncus alpinoarticulatus</i>	Alpine Rush	10
<i>Juncus ambiguus</i>	Frog Rush	20
<i>Juncus balticus</i>	Baltic Rush	10
<i>Juncus castaneus</i>	Chestnut Rush	10
<i>Juncus subnodulosus</i>	Blunt-flowered Rush	38
<i>Juncus trifidus</i>	Three-leaved Rush	32
<i>Juncus triglumis</i>	Three-flowered Rush	32
<i>Lathyrus japonicus</i>	Sea Pea	10
<i>Lemna trisulca</i>	Ivy-leaved Duckweed	32
<i>Ligusticum scoticum</i>	Scots Lovage	20
<i>Limosella aquatica</i>	Mudwort	11
<i>Linnaea borealis</i>	Twinflower	11
<i>Lobelia dortmanna</i>	Water Lobelia	25
<i>Luzula spicata</i>	Spiked Wood-rush	32
<i>Lychnis alpina</i>	Alpine Catchfly	3
<i>Lychnis viscaria</i>	Sticky Catchfly	5
<i>Lycopodiella inundata</i>	Marsh Clubmoss	16
<i>Lycopodium annotinum</i>	Interrupted Clubmoss	11
<i>Lycopus europaeus</i>	Gipsywort	21
<i>Lysimachia thyrsiflora</i>	Tufted Loosestrife	11
<i>Lythrum salicaria</i>	Purple-loosestrife	25
<i>Melampyrum sylvaticum</i>	Small Cow-wheat	16
<i>Melica uniflora</i>	Wood Melick	26
<i>Mertensia maritima</i>	Oysterplant	16
<i>Meum athamanticum</i>	Spignel	11
<i>Milium effusum</i>	Wood Millet	26
<i>Minuartia sedoides</i>	Cyphel	11
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	21
<i>Oenanthe fistulosa</i>	Tubular Water-dropwort	38
<i>Ophioglossum vulgatum</i>	Adder's-tongue	21
<i>Ornithopus perpusillus</i>	Bird's-foot	38
<i>Orthilia secunda</i>	Serrated Wintergreen	21
<i>Oxyria digyna</i>	Mountain Sorrel	32
<i>Oxytropis campestris</i>	Yellow Oxytropis	4

<i>Oxytropis halleri</i>	Purple Oxytropis	5
<i>Paris quadrifolia</i>	Herb-Paris	21
<i>Persicaria minor</i>	Small Water-pepper	38
<i>Phleum alpinum</i>	Alpine Cat's-tail	11
<i>Phleum arenarium</i>	Sand Cat's-tail	26
<i>Pilularia globulifera</i>	Pillwort	16
<i>Pinus sylvestris</i>	Scots Pine	12
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	26
<i>Poa alpina</i>	Alpine Meadow-grass	12
<i>Poa glauca</i>	Glaucous Meadow-grass	12
<i>Polygonatum verticillatum</i>	Whorled Solomon's-seal	5
<i>Polygonum boreale</i>	Northern Knotgrass	12
<i>Polygonum oxyspermum</i>	Ray's Knotgrass	26
<i>Polypodium interjectum</i>	Intermediate Polypody	39
<i>Polypodium x mantoniae</i>		26
<i>Potamogeton compressus</i>	Grass-wrack Pondweed	16
<i>Potamogeton filiformis</i>	Slender-leaved Pondweed	12
<i>Potamogeton friesii</i>	Flat-stalked Pondweed	39
<i>Potamogeton gramineus</i>	Various-leaved Pondweed	26
<i>Potamogeton lucens</i>	Shining Pondweed	39
<i>Potamogeton pectinatus</i>	Fennel Pondweed	27
<i>Potamogeton praelongus</i>	Long-stalked Pondweed	39
<i>Potamogeton pusillus</i>	Lesser Pondweed	32
<i>Potentilla argentea</i>	Hoary Cinquefoil	27
<i>Potentilla crantzii</i>	Alpine Cinquefoil	12
<i>Potentilla neummanniana</i>	Spring Cinquefoil	17
<i>Pseudorchis albida</i>	Small-white Orchid	21
<i>Puccinellia distans</i> subsp. <i>borealis</i>	Northern Saltmarsh-grass	33
<i>Pyrola media</i>	Intermediate Wintergreen	12
<i>Pyrola rotundifolia</i>	Round-leaved Wintergreen	13
<i>Ranunculus baudotii</i>	Brackish Water-crowfoot	39
<i>Ranunculus circinatus</i>	Fan-leaved Water-crowfoot	39
<i>Ranunculus fluitans</i>	River Water-crowfoot	21
<i>Ranunculus lingua</i>	Greater Spearwort	33
<i>Ranunculus penicillatus</i>	Stream Water-crowfoot	27
<i>Ranunculus trichophyllum</i>	Thread-leaved Water-crowfoot	27
<i>Reseda lutea</i>	Wild Mignonette	27
<i>Rhinanthus angustifolius</i>	Greater Yellow-rattle	4
<i>Rhynchospora alba</i>	White Beak-sedge	39
<i>Rorippa palustris</i>	Marsh Yellow-cress	27
<i>Rumex hydrolapathum</i>	Water Dock	27
<i>Ruppia maritima</i>	Beaked Tasselweed	39
<i>Sagina maritima</i>	Sea Pearlwort	28
<i>Sagina saginoides</i>	Alpine Pearlwort	12
<i>Sagina x normaniana</i>	Scottish Pearlwort	4
<i>Salicornia dolichostachya</i>	Long-spiked Glasswort	21
<i>Salicornia europaea</i>	Common Glasswort	22
<i>Salicornia ramosissima</i>	Purple Glasswort	39
<i>Salix arbuscula</i>	Mountain Willow	13
<i>Salix herbacea</i>	Dwarf Willow	33
<i>Salix lanata</i>	Woolly Willow	4
<i>Salix lapponum</i>	Downy Willow	13
<i>Salix myrsinites</i>	Whortle-leaved Willow	13
<i>Salix reticulata</i>	Net-leaved Willow	13
<i>Sanicula europaea</i>	Sanicle	35
<i>Saussurea alpina</i>	Alpine Saw-wort	33
<i>Saxifraga hypnoides</i>	Mossy Saxifrage	33
<i>Saxifraga nivalis</i>	Alpine Saxifrage	13
<i>Saxifraga oppositifolia</i>	Purple Saxifrage	33
<i>Saxifraga rivularis</i>	Highland Saxifrage	4
<i>Saxifraga tridactylites</i>	Rue-leaved Saxifrage	22
<i>Scabiosa columbaria</i>	Small Scabious	28
<i>Schoenoplectus lacustris</i>	Common Club-rush	28
<i>Schoenoplectus tabernaemontani</i>	Grey Club-rush	28
<i>Scirpus sylvaticus</i>	Wood Club-rush	28
<i>Scleranthus annuus</i>	Annual Knawel	28
<i>Scrophularia umbrosa</i>	Green Figwort	33
<i>Scutellaria galericulata</i>	Skullcap	33
<i>Sedum anglicum</i>	English Stonecrop	34
<i>Sedum rosea</i>	Roseroot	34
<i>Sedum villosum</i>	Hairy Stonecrop	17
<i>Seriphidium maritimum</i>	Sea Wormwood	28
<i>Sherardia arvensis</i>	Field Madder	29
<i>Sibbaldia procumbens</i>	Sibbaldia	14
<i>Silene acaulis</i>	Moss Campion	34
<i>Silene nutans</i>	Nottingham Catchfly	14
<i>Sparganium angustifolium</i>	Floating Bur-reed	22
<i>Sparganium emersum</i>	Unbranched Bur-reed	29

<i>Sparganium natans</i>	Least Bur-reed	29
<i>Suaeda maritima</i>	Annual Sea-blite	22
<i>Subularia aquatica</i>	Awlwort	29
<i>Teesdalia nudicaulis</i>	Shepherd's Cress	29
<i>Thalictrum alpinum</i>	Alpine Meadow-rue	34
<i>Thelypteris palustris</i>	Marsh Fern	17
<i>Thlaspi caerulescens</i>	Alpine Penny-cress	14
<i>Thymus pulegioides</i>	Large Thyme	40
<i>Tofieldia pusilla</i>	Scottish Asphodel	34
<i>Trichophorum alpinum</i>	Cotton Deergrass	5
<i>Trifolium scabrum</i>	Rough Clover	29
<i>Trifolium striatum</i>	Knotted Clover	29
<i>Trisetum flavescens</i>	Yellow Oat-grass	30
<i>Utricularia australis</i>	Bladderwort	30
<i>Utricularia intermedia</i>	Intermediate Bladderwort	40
<i>Utricularia minor</i>	Lesser Bladderwort	30
<i>Utricularia ochroleuca</i>	Pale Bladderwort	40
<i>Utricularia vulgaris</i>	Greater Bladderwort	30
<i>Vaccinium microcarpum</i>	Small Cranberry	14
<i>Vaccinium oxycoccos</i>	Cranberry	22
<i>Veronica alpina</i>	Alpine Speedwell	14
<i>Veronica fruticans</i>	Rock Speedwell	4
<i>Veronica serpyllifolia</i> subsp. <i>humifusa</i>		30
<i>Viburnum opulus</i>	Guelder-rose	30
<i>Vicia lutea</i>	Yellow Vetch	14
<i>Vicia orobus</i>	Wood Bitter Vetch	30
<i>Viola hirta</i>	Hairy Violet	31
<i>Viola tricolor</i> subsp. <i>curtisii</i>		34
<i>Vulpia bromoides</i>	Squirreltail Fescue	35
<i>Vulpia fasciculata</i>	Dune Fescue	40
<i>Woodsia alpina</i>	Alpine Woodsia	4
<i>Woodsia ilvensis</i>	Oblong Woodsia	5
<i>Zostera angustifolia</i>	Narrow-leaved Eelgrass	15
<i>Zostera marina</i>	Eelgrass	17
<i>Zostera noltii</i>	Dwarf Eelgrass	15

Nationally Rare plants	pages 2 – 5
Nationally Scarce plants	pages 6 – 17
Locally rare plants	pages 18 – 22
Locally rare and declining plants	pages 22 – 31
Locally scarce plants	pages 31 – 34
Locally scarce and declining plants	pages 34 – 35
Notable plants with no recent records	pages 35 – 40