

Berwickshire
BSBI
Botanical Site Register
update 2019

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and Robin Cowe

**As Vice-county Recorders for the Botanical
Society of Britain and Ireland**

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Commentary on the plant records in this update

Introduction

The circulation of this update to the 2013 County Botanical Site Register (CBSR) for the Vice-county of Berwickshire VC 81 is timed to mark the completion of fieldwork for the BSBI Atlas 2020 project. Much of the fieldwork 2014–2019 has been carried out by Robin Cowe, who is now to try his hand as vice-county recorder.

Plant records are only included where they relate to an additional species at a particular site. Records of additional colonies of species already listed for the site are excluded.

The update is designed to be used alongside the 2013 CBSR.

New species

A number of species have been discovered new to Berwickshire, together with the rediscovery of some species which had been feared extinct:

Species	Comment
<i>Epipactis helleborine</i>	Last previous record 1982
<i>Erigeron acris</i>	Recent colonist, a southern species spreading north
<i>Gymnadenia densiflora</i>	Last previous record 1960
<i>Neottia nidus-avis</i>	Last previous record 1985
<i>Ophrys apifera</i>	Recent colonist, a southern species spreading north
<i>Orobanche alba</i>	Very rare on the east coast of Britain, more frequent in the west
<i>Orobanche minor</i>	Recent colonist, a southern species often introduced with amenity sowings
<i>Salsola kali</i> subsp. <i>kali</i>	Last previous record 1960, only present as a coastal casual

Professor Richard Bateman's taxonomic work led to the reclassification of the subspecies of *Gymnadenia conopsea* as species. Many new records of this aggregate have been made in Berwickshire in the last six years and every possible care has been taken with their determination, enabled by sample determinations by Prof. Bateman. Two *Gymnadenia* species are now recognised as present in Berwickshire, as determinations of *G. conopsea* s.s. were not accepted by Prof. Bateman, but their distributions raise as many questions as they solve. There is a need to carry out more fieldwork to try to relate the distributions to associated species and soils.

Increasing species

Carex pendula was formerly confined to two localities in Berwickshire, though it was plentiful where it occurred. The localities were the coastal undercliff immediately north of the English Border and Dunglass Dean. However it is frequently grown in gardens, from which it may escape, and is sometimes planted in policy woodland, where it may naturalise. Recently *Carex pendula* has been spread along the Blackadder and Whiteadder Waters by floods, colonising woodland on the floodplain. No equivalent colonisation has been found along the River Tweed, perhaps because of the scarcity of woodland on the floodplain.

Potentially intrusive neophytes

The site accounts in the CBSR noted the presence of certain intrusive neophytes where they occurred. One of these has increased and two more have come to notice. *Glyceria maxima* is, somewhat surprisingly, technically a neophyte in Berwickshire that can dominate muddy river margins to the detriment of other species. It was thus treated as an intrusive neophyte in the CBSR. This species is continuing to spread and is now reported from the lower reaches of the Eye Water.

Acaena novae-zelandiae is a problem species on Lindisfarne, VC 68, but has yet to prove a problem in Berwickshire. However it was found in grassland near Mire Loch at St Abbs Head NNR in 2016 and, although removed by the ranger, could reappear from seed.

Allium triquetrum is a problem species in the south of England, where it is now very widespread, in much the same way as *Allium paradoxum* is in Berwickshire. It was found in 2019 in Eyemouth near a caravan park, from where it may or may not spread.

Site boundary revisions

The following sites have been provisionally extended, pending more detailed survey:

75.10 Hells Cleugh has been extended east by adding a third section for the part of the Plendernethy Burn on the open hill where base-rich flushes, similar to those in Hells Cleugh, have been found.

77.03 Dunglass Dean, near foot, has been equated to a small area of ruderal habitat between the A1 trunk road and the railway with a rich flora. It is too small to qualify for a site rating.

86.33 Westerside Dean has been extended northwest to include Oatlee Hill and Step Heugh where a number of scarce species have been found.

87.03 Siccar Point has been extended east to include Marly Brae across which a notable population of *Gymnadenia densiflora* extends from Siccar Point. Marly Brae had previously been thought to be rather acid grassland with low species diversity.

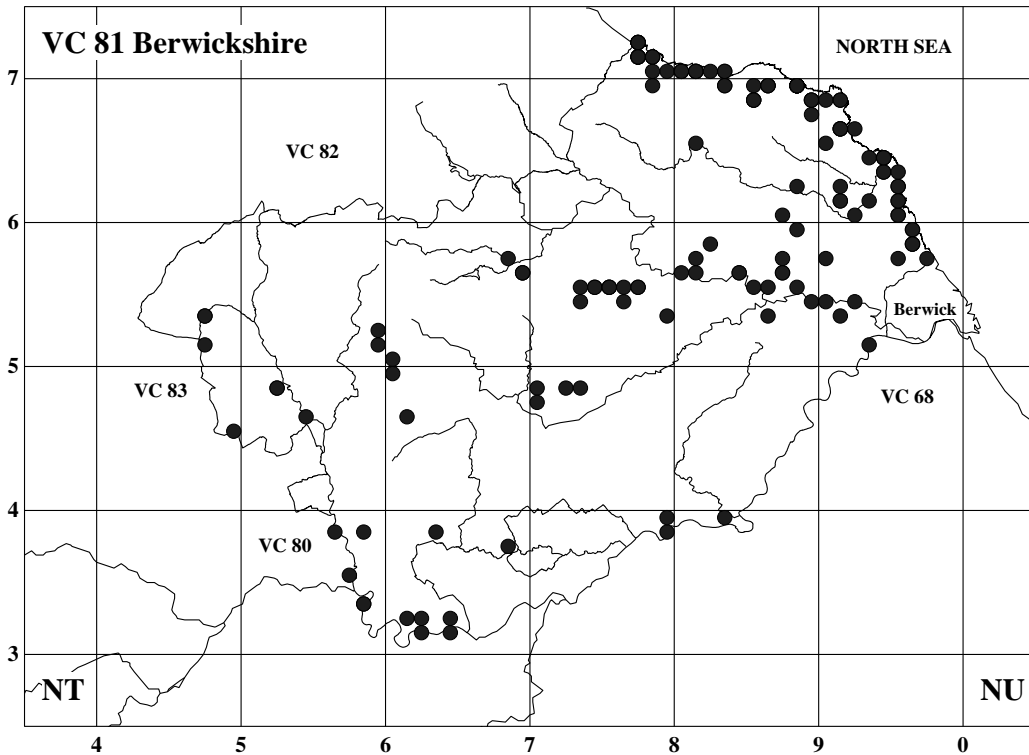
Michael Braithwaite

December 2019

Map of the plant records in this update

Coverage in the period 2014-2019 was concentrated on the coast and, inland, in hectads NT75 and NT85, though a good scatter of recording was made elsewhere in Berwickshire.

Rare or scarce species localities added 2014-2019



Explanatory notes

Site accounts contain

- Monad GRs to define the site roughly
- Site rating, based on botanical interest only
- Summary of habitats. The habitats are described informally without adhering to any prescribed classification
- Table of populations of additional rare or scarce species (see below).

Tables of populations of rare or scarce species contain

- Column ‘S’ indicates by an asterisk * where a population falls in a SSSI. As site boundaries do not necessarily coincide with SSSI boundaries this category may apply to some populations within a site but not to others. Populations in a Scottish Wildlife Trust reserve that is not also a SSSI are marked with a dagger †
- Species. Introduced and casual populations of native species and recently introduced populations of archaeophytes are shown by enclosing the species name in square brackets []. True archaeophytes are not bracketed, but are identified in the comment column where appropriate
- Population size, where known
- All 6 fig GRs are listed for each rare or scarce species to define populations at 100m scale. All grid references in Berwickshire fall within the 100km square NT, so NT is omitted
- 10m scale detail, where known, is added using a 2-digit 10m cell convention. Thus the grid reference NT63264259 is listed as 632425, cell 69. Up to three cells are listed per 6 fig GR. If there are more than three, the number of cells is given in the population column
- Year last recorded
- Recorder (see below)
- Column ‘P’ was used in the 2013 CBSR to indicate the subjective probability that a population was extant in 2013. This no longer applies and the column has been used instead to highlight casual occurrences as ‘C’
- Comment (if any).

Species selection

- Rare or scarce species are as in the CBSR with the additions noted above, which include species that are native in England and have spread north only recently. Subspecies are distinguished, but varieties only exceptionally. Hybrids are only included where they disperse vegetatively to such an extent that they behave much as species do. All nationally rare or scarce species are included together with locally rare or scarce species, defined as occurring in ten or fewer sites in Berwickshire or likely to decline to that frequency in the near future
- Some rare or scarce species are now known from many more sites than when they were classified as such. As most of the dramatic increases relate to artificial habitats, no revisions to status have been made.

Nomenclature

Vascular plants follow Stace *New Flora of the British Isles*, 3rd edition 2010, unlike the 2013 CBSR which used the 2nd edition (though with the 3rd edition names in brackets in the table of species).

Relevant name changes are:

Stace 2

Chrysanthemum segetum
Erigeron acer
Gymnadenia conopsea
Gymnadenia conopsea subsp. *borealis*
Gymnadenia conopsea subsp. *conopsea*
Gymnadenia conopsea subsp. *densiflora*
Listera cordata
Listera ovata

Stace 3

Glebionis segetum
Erigeron acris
Gymnadenia conopsea sens. lat.
Gymnadenia borealis
Gymnadenia conopsea
Gymnadenia densiflora
Neottia cordata
Neottia ovata

Recorders

In the tables of rare or scarce species for each site there is a column for initials of the recorders. Those who have contributed large numbers of records are identified below, for all others the surnames are added in the comment column.

Initials	Recorder
DGL	Dr David Long
IC	Iain Cowe
JW	Jeff Waddell
LWG	Luke Gaskell
MEB	Michael Braithwaite
RC	Robin Cowe
RMcB	Ron McBeath

Site Register (by hectad)

Site Register NT44 Whitlaw

44.01. Lauder Common (part NT54), 4845, 4945, 4946, 5045, 5046, 5146, Habitat good in part ♥♥

Moorland and moorland edge. (1) West section, Tanwell 80.8 hectares, (2) west section, Burgess Cairn 125.3 hectares, total 207.1 hectares; (3) east section, Muircleugh 101.1 hectares, (4) east section, Staunchley Hill 62.7 hectares, total 163.8 hectares; Site total 370.9 hectares.

(1) West section, Tanwell, 4845, 4945, 4946

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Antennaria dioica</i>	Patch	490456	92	2015	MM		Moncrieff, one small patch with one flowering stem in <i>Calluna</i> with <i>Lotus corniculatus</i>

Site Register NT45 Oxton

45.07. Airhouse Wood and Quarry, 4752, 4753, Habitat good in part ♥♥

Juniper scrub, birchwood. 20.8 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Neottia ovata</i>	Three	473532	85	2018	RC		One flowering, two blind, on hard quarry floor
*	<i>Spergularia rubra</i>		474537	83	2019	RC		

45.12. Sundry NT45, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Scleranthus annuus</i>	Large	471519	61	2019	RC		The Dod, track side, exposed rocks (just in VC)

Site Register NT53 Earlston

53.04. Earlston, 5638, 5639, 5738, 5838, Habitat fragmentary

Ruderal, riverside.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Cerastium arvense</i>	Few	569389	47	2019	RC		On bare earth

53.10. Bemersyde Hill, Scott's View, 5933, 5934, Habitat moderately good in part ♥

Acid grassland, knowes. 29.7 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Dianthus deltoides</i>	Two	589336	31	2019	RC		Flowering on rock ridge
	<i>Trifolium striatum</i>	Small	589335	27	2019	RC		Large rocky knowe

53.13. Sundry arable habitats NT53, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Fumaria densiflora</i>		583389	06	2015	LWG		Town Farm, Earlston

53.14. Sundry NT53, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Hypericum humifusum</i>	One	577352	51	2016	RC		Redpath, on pathway, Kirklands

Site Register NT54 Lauder**54.04. Thirlestane Castle, 5248, 5347, 5348, Habitat fragmentary**

Riversides, policy woodland.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Epipactis helleborine</i>	Three	527486	29	2018	RC		Lauder side of track, light shade area
		Three	528486	44	2018	RC		Track side in light shade

54.17. Sundry arable habitats NT54, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Bromus secalinus</i>	Five	541461	77	2019	LWG		Lauder Barns, in winter wheat. Det confirmed MEB

Site Register NT55 Carfraemill**55.14. Brunta Burn, 5950, 5951, 5952, Habitat good in part ♥♥**

Burnsides and woodland. 60.4 hectares (see also 65.01).

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Genista anglica</i>	16	596521	93	2016	DGL		
	<i>Lycopodium clavatum</i>	Small	593516	69	2016	DGL		In <i>Calluna</i> [just outside CBSR site boundary]

Site Register NT63 Mertoun

63.03. Magalenehall, Tweedside near, 6231, 6331, Habitat fragmentary

Riverside

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Malva moschata]</i>	One	627317	71	2019	RC	C	Probable garden escape

63.04. Dalcove, Tweedside near, 6431, 6432, 6531, Habitat good in part ♥♥

Eroding banks, riverside, wooded banks. 9.6 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Trifolium striatum</i>	5m patch	644319	23	2019	RC		Track side
		Small	646320	72	2019	RC		On slippage

63.13. Mincie Moss, 6338, Habitat moderately good ♥

Carr woodland, fen. 34.4 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Trollius europaeus</i>	2 patches	632387	37, 74	2017	RC		Two clumps, the larger 3x3m

63.20. Nenthorn Bridge, Stichill Bridge, 6837, 6936, 6937, Habitat fragmentary

Grassland on knowes, burnsides

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex remota</i>		686370		2018	SEPA		

63.24. Sundry NT63, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Epipactis helleborine</i>	Four	619323	28, 89	2019	RC		Greendikes, next to path
		18	623327	00, 30, 42, 63	2019	RC		Opposite Danderhall, beside track

Site Register NT64 Gordon

64.32. Sundry arable habitats NT64, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Glebionis segetum]</i>	Huge	612461		2018	JW	C	Brownshall, sown for bird cover

64.33. Sundry NT64, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex pendula</i>		6049		2014	JM		Muscott, Spottiswoode, presumed introduction
	<i>Neottia cordata</i>	Two	602505	30	2016	DGL		Northwoode, Spottiswoode, under open tall <i>Calluna</i>

Site Register NT65 Longformacus

65.13. Longformacus, 6857, 6858, 6957, Habitat fragmentary

Burnsides, moorland edge, village and mansion house policies

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex pendula</i>		686574		2017	RC		Manse road, presumed introduction

65.20. Sundry NT65, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Neottia cordata</i>		691564	56	2016	DGL		Feuar's Moor
			695564	59	2016	DGL		Feuar's Moor
			696560	71	2016	DGL		Feuar's Moor

Site Register NT73 Birgham

73.05. Birgham, 7838, 7839, 7939, Habitat fragmentary

Ruderal

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	[<i>Echium vulgare</i>]	Few	795393	01	2019	RC	C	Sown behind bus stop

73.08. Sundry NT73, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Erodium cicutarium</i>	Few	793380	59	2019	RC		Birgham haugh, on river bank, white-flowered

Site Register NT74 Greenlaw

74.07. Greenlaw Moor, Flourishwalls Burn, Hule Moss, Kyles Hill, 7047, 7048, 7049, 7147, 7148, 7149, 7248, 7249, 7349 Habitat good in part ♥♥

Moorland, flushes, reservoir. (1) Flourishwalls Burn, Hule Moss 70.5 hectares, (2) burns 83.1 hectares, (3) Kyles Hill (excluded from site), site total 153.6 hectares (see also 64.31 and 65.14).

(1) Flourishwalls Burn, Hule Moss, 7148, 7149, 7248, 7249

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Genista anglica</i>	Five	720485	37	2016	DGL		In short <i>Calluna</i>

(2) Tributaries of Fangrist Burn, 7049, 7149

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Dactylorhiza incarnata</i> <i>subsp. pulchella</i>	Four	701488	17, 27	2018	RC		[just in wood outside CBSR site boundary]

74.28. Sundry NT74, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Pyrola minor</i>	70	733481		2014	RC		Marchmont, Greenride Strip, raised ground under beech
	<i>Spergularia rubra</i>	Small	707474	77	2014	RC		Moss Road Plantation near Greenlaw Dean, trackside

Site Register NT75 Duns

75.10. Hells Cleugh, Plendernethy Burn, 7354, 7355, 7454, 7455, 7555, Habitat fine ♥♥♥

Base-rich flushes, cleughs, burnside. (1) Hells Cleugh 125.6 hectares, (2) White Burn 82.0 hectares, part site total 207.6 hectares, (3) Plendernethy Burn – no detailed survey, but added provisionally

(1) Hells Cleugh 7354, 7355, 7454, 7455

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Dactylorhiza incarnata</i> <i>subsp. incarnata</i>	Eight	741550	43	2017	RC		In flush high on west facing side
	<i>Drosera rotundifolia</i>		741550	43, 46, 47	2017	RC		Spring flush
	<i>Sagina nodosa</i>	One	733555	83	2014	RC		Gravel by burnside
	<i>Sedum villosum</i>	100+	738549	45	2016	RC		In stony flush, top of cleugh, south side

(3) Plendernethy Burn 7555

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex dioica</i>	Small	753559	45	2014	RC		
	<i>Ranunculus auricomus</i>		753559		2018	RC		Top of flush
	<i>Selaginella selaginoides</i>	Three	753559	45	2014	RC		

75.17. Duns Castle, 7754, 7755, 7854, 7855, Habitat good in part ♥♥

Policies including artificial loch, dean woodland and forestry in small blocks with high tree species diversity. 85.6 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Centaurium erythraea</i>	Three	773552	45	2014	RC		Gravelled forestry track [two plants found here in 2013]
	<i>Polystichum setiferum</i>		777558		2016	NH		By burn

75.19. Duns, 7853, 7854, 7953, Habitat fragmentary

Roadside verges and ruderal habitats

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Echium vulgare]</i>	One	791532	72	2019	RC	C	Duns industrial estate, apparently not naturalised

75.27. Sundry NT75, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Centaurium erythraea</i>	30+	768544	10	2017	RC		Borthwick Quarry, by side of track

Site Register NT76 Abbey St Bathans**76.36. Sundry NT76, Habitat fragmentary**

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Galium album</i>		782698	19	2019	RC		Tower Bridge, probably naturalised from nearby sowings

Site Register NT77 Cockburnspath

77.02. Cockburnspath, 7670, 7770, 7771, Habitat fragmentary

Ruderal habitats

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Aethusa cynapium</i>		773711		2015	MEB		Lane to school
	<i>Centaurium erythraea</i>	Two	773719	76	2017	RC		Beside road
			778711	29	2017	RC		
	<i>Cynoglossum officinale</i>	Modest	776716	48	2016	RC		Colony along edge of road
	<i>Filago vulgaris</i>	One	773719	76	2017	RC		Beside road

77.03. Dunglass Dean, near foot, 7772, Habitat fragmentary

Former coastal grassland

There is a small area of ruderal habitat between the A1 trunk road and the railway with a rich flora

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Catapodium rigidum</i>	Modest	771721		2016	RC		Scattered on thin soils
	<i>Centaurium erythraea</i>		772721		2014	RMcB		In field, also on old bridge
	<i>Erigeron acris</i>	Eight	771721	54	2019	RC		Flowering
	<i>Filago vulgaris</i>	Large	772721		2014	RMcB		
	<i>Hypericum humifusum</i>	Two	771721	93	2016	RC		
	<i>Myosotis ramosissima</i>	Eight	771721	09	2018	RC		North side of rail bridge over lane
	<i>Ophrys apifera</i>	Seven	772720	66, 77, 88	2017	RMcB		With DGL and S Clarke
		Six	772721	50	2017	RMcB		With DGL and S Clarke

77.05. Cove, Cove Harbour, 7871, Habitat good in part ♥♥

Sea braes, cliffs, sandy beach, hamlet and harbour. 18.7 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Erodium cicutarium</i>		788714	47	2019	RC		Tarmac edge
*	<i>Filago vulgaris</i>	One	780713	06	2018	RC		Side of track in wheat field
*	<i>Glaucium flavum</i>	One	784717	10	2016	RC		

77.06. Pease Dean, lower section, Tower Dean, lower section, 7870, 7970, Habitat fine in part ♥♥♥

Dean woodland. 43.5 hectares (see also 76.33, 76.34).

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
†	<i>Clinopodium vulgare</i>		788704		2015	IM, VK, GW		Muir, Krivtsov, Wilson, Tower Dean

77.07. Pease Bay, Ewelairs, 7871, 7970, 7971, Habitat good in part ♥♥

Sandy beach, sea braes. 24.6 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Salsola kali subsp. kali</i>	One	792709	54	2018	RC		With <i>Atriplex</i> on high tide line, coastal casual

77.09. Sundry NT77, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Filago vulgaris</i>	Few	774718	46	2019	RC		Castle Dykes, at road side

Site Register NT83 Coldstream

83.05. The Lees, 8339, 8439, Habitat fragmentary

Policies, riverside

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Lactuca virosa</i>	One	836391		2018	RC		

Site Register NT85 Chirnside

85.03. Marden, 8056, 8156, Habitat fragmentary

Riversides

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex pendula</i>	One	808567		2017	RC		
			813567		2017	RC		

85.10. Chirnsidebridge, 8456, 8556, Habitat fragmentary

Riversides, ruderal

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex pendula</i>		848563	59	2019	RC		

85.11. Ninewells, 8555, 8655, Habitat moderately good ♥

Riversides, woodland. 18.2 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carex pendula</i>	One	856556	20	2019	RC		
		One	865555	16	2019	RC		

85.18. Chirnside, 8656, 8756, Habitat fragmentary

Ruderal

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Centaurea cyanus]</i>	One	874561		2016	RC	C	At roadside sown with grass mix, Ford Road
	<i>[Daucus carota subsp. carota]</i>		871571	66	2018	RC	C	Spoil heap
	<i>Spergularia rubra</i>	Medium	870560		2014	RC		By roadside past school, north side

85.23. Edington Mill, Pear Bank 8855, 8954, 8955, Habitat moderately good in part ♥

Ruderal, riversides, woodland. 33.3 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Neottia ovata</i>	Eleven	898547	68	2017	RC		In mossy ground under <i>Crataegus</i>

85.25. Sundry arable habitats NT85, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Centaurea cyanus</i>	Twelve	882595		2016	RC		Ferneycastle, south of, with field weeds on stony knowe
	<i>Glebionis segetum</i>	One	886551		2013	IC		Bluestoneford, near, newly excavated track by river's edge
		Seven	825580	90	2019	RC		Lintlaw, in wheat, field name Big Crook

85.26. Sundry NT85, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Carduus nutans</i>	Two	811577		2016	RC		Cruxfield, at field edge
	<i>Geranium pusillum</i>		848567	68	2019	RC		Billieburn Bridge, track, river side of the field
	<i>Pyrola minor</i>	1m patch	866539	34	2015	RMcb		Allanton, south of

Site Register NT86 Grantshouse**86.05. Grantshuse Quarry, Brockholes Wood, 8165, 8265, Habitat moderately good ♥**

Former oakwood. old quarry, ruderal, 18.6 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Malva moschata]</i>	Two	810651	86	2018	RC	C	Presumed garden origin

86.19. Long Moss, Coldingham Common, 8468, 8567, 8568, Habitat excellent ♥♥♥♥

Valley mire, flushes, moorland. 142.1 hectares (see also 86.15, 86.20).

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Corallorhiza trifida</i> var.	49	855684	5 cells	2016	RC		Including four at cell 48 lacking any chlorophyll, as confirmed by R Bateman, flowers with reddish spots so not an albino

86.20. Lumsdaine Dean, 8569, 8669, Habitat excellent ♥♥♥♥

Grassland, rock outcrops, burnsidcs. 30.4 hectares (see also 86.15, 86.19).

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Orobanche alba</i>	Nine	861694	90	2014	RC		On south-facing scree with <i>Thymus</i> , <i>Sedum acre</i> and <i>Helianthemum</i>
		35	862694	02 to 62	2014	IC		Some in full flower, some in bud, with RC, DGL and S Clarke [2015, 3 spikes]
	<i>Sherardia arvensis</i>	Small	855692	40	2019	RC		In fenced off area
	<i>Trifolium arvense</i>		862694	43	2019	RC		

86.24. Lumsdaine Moor, 8667, 8668, 8767, 8768, Habitat fragmentary

Former moorland, forestry

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Dactylorhiza incarnata</i> subsp. <i>pulchella</i>	25	859688	66	2017	RC		In flush at back of wood, extending to pond, subsp. <i>incarnata</i> nearby
	<i>Selaginella selaginoides</i>	Few	859688	70	2017	RC		In flush at back of wood

86.25. Reston, 8762, 8861, 8862, Habitat fragmentary

Riverside, ruderal

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	[<i>Echium vulgare</i>]	Three	883620	75	2018	RC	C	At road side

86.32. Westerside, Westloch. 8867, 8868, 8967, 8968, Habitat fragmentary

Grassland

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Filago vulgaris</i>	Few	895678	16	2019	RC		East side of the road

86.33. Westerside Dean, Oatlee Hill, Step Heugh, 8869, Habitat good ♥♥

Westerside Dean, coastal ravine, cliff tops. 18.7 hectares. Oatlee Hill and Step Heugh – no detailed survey, but added provisionally

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Antennaria dioica</i>	13	881696	63	2016	RC		
		Patch	881697	70	2017	RC		Patch 50x50cm
		2 patches	882696	52, 62	2016	RC		
	<i>Botrychium lunaria</i>	One	881698	95	2016	RC		
		Three	882696	31	2016	RC		
		One	882696	07, 62	2018	RC		One in each of two years
	<i>Filago minima</i>	Large	880697	41	2016	RC		At edge of field by collapsed dyke
	<i>Filago vulgaris</i>	Few	886693	82	2019	RC		Top of crest on path
	<i>Gymnadenia borealis</i>	Six	881696	92	2016	RC		Det 2018 R Bateman
		100	882696	07	2016	RC		Det 2018 R Bateman

86.41. Sundry arable habitats NT86, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Centaurea cyanus</i>	One	873604		2016	RC		Ferneycastle, west of

86.42. Sundry NT86, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Astragalus danicus</i>	2m patch	898686	75	2019	RC		Craig Biter, near Coldingham Loch, second ring between gorse
	<i>Cerastium arvense</i>	Small	896683		2018	RC		Near Coldingham Loch, at fence line, rocky knowe
	<i>Filago minima</i>	14	898687	90	2019	RC		Craig Biter, near Coldingham Loch, very top of old fort
	<i>Sherardia arvensis</i>	Small	837695	86	2019	RC		Harly Darlies

Site Register NT87 Dowlaw**87.01. Old Cambus Quarry and fields near, 8070, Habitat moderately good in part ♥**

Rocky grassland, pond. 13.5 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Sherardia arvensis</i>	Two	804706	24	2019	RC		On rocky outcrop
		Large	805706	85	2017	RC		On south-facing slope

87.02. St Helen's Church, below, 8070, Habitat good ♥♥

Sea braes, cliffs, boulder beach. 21.4 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Cakile maritima</i>	Two	801707	19	2018	RC		

87.03. Siccar Point, Marly Brae, 8170, Habitat good ♥♥

Sea braes, cliffs. 5.7 hectares. Marly Brae – no detailed survey, but added provisionally

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Centaureum erythraea</i>		812708	01	2017	RC		
	<i>Gymnadenia densiflora</i>	150	817706		2017	RC		In small numbers from here to NT811707, 50 in all, 300 on revisit, det 2018 R Bateman from photos. Synchronous flowering suggests one taxon
		150	811707		2017	RC		See previous record
	<i>Honckenya peploides</i>		817706	49	2017	RC		

87.04. Redheugh, 8270, Habitat fine ♥♥♥Dean, sea braes, cliffs. 30.5 hectares. **41.4 hectare**

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Gymnadenia densiflora</i>	Four	824705	40	2012	RMcB		Det 2019 R Bateman from later photo

87.05. Lansey Bank, Midden Craig, 8370, Habitat fine ♥♥♥

Sea braes, cliffs. 21.0 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Astragalus danicus</i>	Small	832699	19	2019	RC		On knowe
*		Small	832701	02, 44	2018	RC		Top of slope
*	<i>Trifolium arvense</i>	Few	832701	62	2019	RC		Eroding slope

Site Register NT95 Paxton**95.04. Edington Hill Covert, 9057, Habitat moderately good in part ♥**

Birchwood, former moorland. 18.9 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	[<i>Malva moschata</i>]		904579	10	2019	RC	C	Presumed garden origin

95.08. Union Bridge, 9250, 9350, 9351, Habitat good in part ♥♥

Riverside, wooded cliff. 15.4 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Lythrum salicaria</i>	One	933510	41	2018	RC		Riverside under bridge, presumed recent colonist

95.10. Clarabad Wood, 9254, 9354, Habitat good ♥♥

Woodland. 3.7 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Ophioglossum vulgatum</i>	23 fronds	924543	37	2019	RC		Wood pasture

95.18. Lamberton Moor, 9557, 9558, Habitat fine in part ♥♥♥

Moorland, dry grassland, wet grassland, flushes, pond. 60.5 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Botrychium lunaria</i>	Three	954578	41	2015	RMcb		On dry grassy hillock, with DGL, IC and RC

95.21. Lamberton Shiels, shore below, Hilton Bay, Catcairn Bushes, 9658, 9659, Habitat outstanding in part ♥♥♥♥♥

Sea braes, cliffs. 25.5 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Gymnadenia densiflora</i>	114	968588		2015	IC		
*		100	968589	60, 70	2014	IC		About 100 spikes around here with 3 more near bracken at foot of slope. 50 had been found with RC. Det 2019 R Bateman from later photo
*	<i>Gymnadenia borealis</i>		968589		2017	RC		Det 2019 R Bateman
*	<i>Sherardia arvensis</i>		966593	59	2019	RC		
*		One	966594	41	2014	RC		By coastal path

95.23. Sundry arable habitats NT95, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Glebionis segetum</i>		972579	99	2018	RC		Near Tods Loup, by bridge

95.24. Sundry NT95, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Daucus carota subsp. carota]</i>		912537	55	2019	RC	C	Hutton, near Royal Terrace, sown in field border
	<i>Echium vulgare</i>	Three	901545		2018	RC		Patie's Cove, high on cliff, possible archaeophyte
	<i>[Geranium sanguineum]</i>		967581	39	2019	RC	C	Lamberton Shiels, in garden rubbish
	<i>Montia fontana subsp. chondrosperma</i>		928609		2016	RC		Ayton Church, gravel pathway [recorded as species, take as this from habitat, MEB]

Site Register NT96 Eyemouth

96.04. Millar's Moss, 9067, 9068, Habitat moderately good ♥

Grassland on rocky knowes, reservoir. 31.6 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Sherardia arvensis</i>	Few	904683	12	2019	RC		Near gate

96.06. Coldingham Bay, 9166, Habitat good ♥♥

Sandy beach, dunes, cliffs. 17.4 hectares

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Astragalus danicus</i>	Few	918663	64	2015	RC		Between molehills near path
	[<i>Daucus carota</i> subsp. <i>carota</i>]	Few	915662		2016	RC	C	Garden escapes after wildflower seed sown
	<i>Erodium cicutarium</i>	Six	918661		2018	RC		Edge of field with <i>Lotus corniculatus</i> and <i>Onions repens</i>
	[<i>Malva moschata</i>]		916662	04	2019	RC	C	Garden escape from house over track, white flowered
	<i>Valerianella locusta</i>		903659		2018	RC		Path side and walls

96.08. St Abbs Head NNR, Starney Bay, 9167, St Abbs Head, 9168, 9169, Petticowick, 9068, 9069, Habitat outstanding ♥♥♥♥♥

Grassland on rocky knowes, sea braes, cliff tops, cliffs, gullies, reservoir on site of former mire, rocky beach. (1) Starney Bay 4.4 hectares, (2) St Abbs Head 52.8 hectares, (3) Petticowick 13.6 hectares, site total 70.8 hectares.

(1) Starney Bay, NT9167

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Sagina subulata</i>		918683	20	2019	RC		Bell Hill

(2) St Abbs Head, 9168, 9169

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Crambe maritima</i>	Eight	919683		2014	IC		Burnmouth Harbour on shoreline, a mixed bunch of maturing seedlings, first seen 2009, R Manning

96.13. Eyemouth, 9363, 9364, 9463, 9464, Habitat fragmentary

Harbour, sandy beach, sea braes, dean woodland, ruderal

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Cakile maritima</i>	Six	942647		2014	RC		On sand to the north of beach under cliff
	[<i>Daucus carota</i> subsp. <i>carota</i>]		947631	43	2017	RC	C	Sown in grass borders near new High School
	[<i>Geranium sanguineum</i>]	One	940644	72	2019	RC	C	Likely a garden escape
	<i>Orobancha minor</i>	Twelve	948643	08	2017	IC		Gunsgreen, on <i>Trifolium pratense</i> , in various stages from bud to dead heads, height very variable from 15cm to 30cm +
	<i>Valerianella locusta</i>		944641	72	2018	RC		Corner of car park

96.15. Killiedraught Bay, 9364, 9465, Habitat fine ♥♥♥

Sea braes. 11.5 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Gymnadenia borealis</i>	One	935647	53	2015	IC		Det as this from photo, det agreed MEB. Habitat would seem to favour <i>G. conopsea</i> , so an element of uncertainty remains

96.17. Linkim Shore, Yellow Craig, 9265, 9266, Habitat fine in part ♥♥♥

Sandy beach and grassland, base-rich flushes, rocky foreshore. 15.3 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Trifolium arvense</i>	Large	921660	67	2016	RC		On rock outcrop at tide edge

96.19. Burnmouth, south, 9560, 9660, Habitat good in part ♥♥

Cliffs, sea braes, ruderal. 21.3 hectares (see also 96.20).

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Gymnadenia conopsea</i> sens. lat.	Few	956609	38	2015	RC		High up on banking on main road to harbour
	<i>Hordeum murinum</i>	Small	955609	08	2015	RC		Behind garage

96.20. Burnmouth, north, 9561, Habitat excellent in part ♥♥♥♥

Base-rich crumbling cliffs, sea braes. 15.1 hectares (see also 96.19).

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
*	<i>Centaurium erythraea</i>	Three	957615	74	2016	RC		High on sea braes, Kings Gardens
*	<i>Hypericum humifusum</i>		956611	08	2018	RC		

96.22. Gunsreen, 9464, 9563, 9564, Habitat excellent in part ♥♥♥♥

Cliff tops, sea braes, base-rich flushes, harbour wall, ruderal. 24.5 hectares.

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Geranium pusillum</i>	One	945635	49	2019	RC		At side of path
	<i>[Scabiosa columbaria]</i>	One	953636	92	2016	RC	C	Beside path, with IC, presumed escape from sowings

96.23. Sundry arable habitats NT96, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>Glebionis segetum</i>	40+	950621	74	2019	RC		Fairnieside, flowering by track from road
		Huge	951623		2014	IC		In wheat near Blakie Heugh, solid yellow strip across field, especially on a ridge. Ridge marks a former field boundary recently ploughed up, disturbing seed bank. MEB herb specimen found from July 1983 when abundant

96.24. Sundry NT96, Habitat fragmentary

S	Rare or scarce species	Popul ⁿ	GR-NT	10m	Date	Rec ^{der}	P	Comment
	<i>[Echium vulgare]</i>	One	917614	85	2019	RC	C	Near Ayton Law, on road verge
	<i>Neottia nidus-avis</i>	Five	918618	65	2016	RMcB		Greenmoor Plantation, under Scots pine and beech, no old trees, five plants hereabouts with 8 spikes, 16 dead heads from previous years nearby, visited twice, first with N Picton, then RC and IC [NP had known for ten years]
		Two	918624	43	2016	RMcB		Little Dean, one plant with three spikes, one with one, visited twice, with N Picton and then RC and IC
	<i>Neottia ovata</i>	One	939611		2015	RMcB		Hillburn, Ayton, at roadside