

Appendix 2 Troopers Hill species lists

CONFIDENTIAL

Site Name <u>Troopers Hill</u>		Site No.		Map No(s) <u>ST 67</u>	
		Date & Source of Information <u>RH 16.8.85</u>			
Status & Date	Grid Ref. <u>628 731</u>		Accuracy		Vice County(s)
Parish WARD <u>ST GEORGE EAST</u>	District <u>Bristol</u>		County <u>AVON</u>	Region <u>SW</u>	
Type of Locality <u>Grassland</u>					
Condition of Locality <u>Disturbed Unmanaged Erosion in places.</u>					
Geology <u>Pennant Sandstone</u>			Soil: Depth & Drainage <u>Dry Acid</u>		
Topography <u>Slope - steep → vertical in places</u> <u>Hillsides</u>			Exposure <u>High</u> Aspect <u>Various</u>		
Shape	Length	Width	Height	Depth	Area
Margin <u>Unenclosed Diffuse</u>					
Access <u>No restrictions</u>					
Restrictions to Access <u>None</u>					
Major Habitats <u>Grassland acid,</u>					
Secondary Habitats <u>Heathland acid</u>					
Outstanding Interest <u>Graying (butterfly) colony. Good example of locally rare habitat. Local plants incl. Imperforate St John's Wort.</u>					
Planning Authority Status <u>Public open space</u>					
Conservation Status : Date					
Management Body <u>Bristol City Parks Dept</u>					
Owner <u>B.C.C.</u>					
Tenant / Occupier					
Development Rights Owner					
Facilities					
Land Use / Management <u>Recreational - walking.</u>					
Potential Use					

Threats to Locality

Groundwork

Adjacent Land Use

Housing, scrubland

Other References

Source & Date

Type of Information

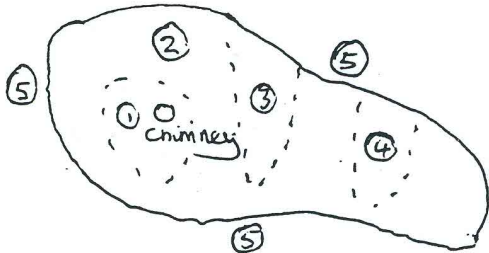
Photographs

Additional References

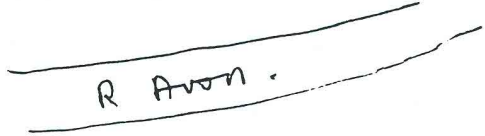
Interested People

Notes & Sketch Map

St Georges



Crew's Hole.
(see separate card)



① U trampled grassland

- *Agrostis* spp, *Plantago*
corniculata

② Less trampled - abundant
Agrostis spp, *Aira praecox*,

③ Gully with steep sides
- *Calluna*, *Solidago* etc.

④ Slope with abundant
broom

⑤ Mixture of acid
grassland & wasteland spp
on edges, with both
Deschampsia spp.

The grassland is maintained

only by trampling, which is severe in places
but light enough to allow *Calluna* in others.

Date Sheet Compiled

Recorders Initials

Achille millefol
 Acinos arvensis
 Aegopod podagr
 Agrimon eupato
 Ajuga reptans
 Alchem fil/ves
 Anagall arvens
 Anagall tenell
 Anemone nemoro
 Angelica sylve
 Anthrisc sylve
 Anthyll vulner
 Aphanes arvens
 Apium graveole
 Apium nodiflor
 Arabis hirsuta
 Arctium sp.
 Arenari leptoc
 Arenari serpyll
 Asperula cynan
 Aster tripoliu
 Ballot nig/foe
 Barbare vulgar
 Bellis perenni
 Berula erecta
 Beta vulg/mari
 Bidens cernua
 Bidens tripart
 Blackst perfol
 Calamin syl/as
 Callit ham/bru
 Callit ham/han
 Callit obtusan
 Callit platyca
 Callit stagmat
 Callit truncat
 Caltha palustr
 Campan glomer
 Campan rotund
 Campanu trache
 Cardam flexuos
 Cardam hirsut
 Cardam pratens
 Carduus acanth
 Carduus autans
 Carduus tenuif
 Carlina vulgar
 Centaure nigra
 Centaure scabi
 Centaure erythr
 Centaure pulca
 Centraut ruber
 Cerastiu diffu
 Cerastiu fonta
 Cerastiu glose
 Cerastiu pusil
 Cerastiu semid
 Cerastiu terse
 Chaeroph minus
 Chaeroph temul
 Chaerif angust
 Chrysoapl oppo
 Cirsium acaule
 Cirsium arvens
 Cirsium dissec
 Cirsium erioph
 Cirsium palust
 Cirsium vulgar
 Clinopu vulgar
 Cochlear angli
 Conium maculat
 Conopodi sajus
 Convolv arvens
 Crepis capilla
 Crepis vesicari
 Cynogloss offic
 Daucus carota
 Digital purpur
 Diplofax mural
 Dipsacu fullon
 Dipsacu pilosus
 Epilobi hirsut
 Epilobi montan
 Epilobi obovat
 Epilobi palust
 Epilobi parvif
 Erigeron acer
 Erigeron canad

HO630	Erodium cicutar	5
HO641	Eryophila verna	6
HO648	Eupator cannab	6
HO653	Eupharb exigua	5
HO654	Eupharb helios	6
HO662	Euphras offi ag	6
HO666	Euphras confus	5
HO669	Euphras nemoro	5
HO674	Filago vulgari	4
HO675	Filipend ulsar	6
HO676	Filipend vulga	3
HO678	Fragaria vesca	6
HO687	Galeops tatrah	6
HO690	Galium albus	3
HO691	Galium aparin	6
HO692	Galium cruciat	6
HO693	Galium elongat	5
HO695	Galium mollugo	6
HO696	Galium odoratu	6
HO697	Galium palustre	6
HO700	Galium saxatil	6
HO702	Galium uligino	6
HO703	Galium verum	6
HO706	Gentiane amare	5
HO707	Geranium columb	6
HO708	Geranium dissect	6
HO709	Geranium lucidu	5
HO710	Geranium mollis	6
HO713	Geranium pratens	6
HO716	Geranium pyrena	5
HO717	Geranium robert	6
HO719	Geranium rotund	3
HO723	Geum urbanum	6
HO725	Glaux maritima	5
HO726	Glechoma heder	6
HO727	Gnaphal sylvat	5
HO728	Gnaphal uligin	6
HO733	Helianth annuu	5
HO740	Hieracium sphon	6
HO742	Hierac acuminat	5
HO748	Hierac maculat	2
HO749	Hierac pilosel	6
HO761	Hieracium sp.	6
HO762	Hippocr comosa	3
HO763	Hippuri vulgar	5
HO767	Hottonia palus	3
HO768	Hydrocot vulga	6
HO776	Hyperic humifu	6
HO779	Hyperic perfor	6
HO780	Hyperic pulchr	5
HO781	Hyperic tetrap	6
HO782	Hypochaer radi	6
HO785	Impati glandu	5
HO787	Inula conyzia	5
HO793	Knautia arvens	6
HO798	Lactium albus	6
HO803	Lapsana commun	6
HO808	Lathyr montan	6
HO811	Lathyr pratens	6
HO807	Lathyr latifol	5
HO812	Lathyr sylvest	3
HO816	Leontod autumn	6
HO817	Leontod hispid	6
HO818	Leontod taraxa	6
HO819	Lepidiu campes	5
HO826	Leucanth vulga	6
HO827	Limoniu binerv	2
HO828	Limoniu vulgar	3
HO831	Linaria repens	3
HO832	Linaria vulgar	6
HO833	Linum bienne	3
HO834	Linum catharti	6
HO836	Lithosp arvens	5
HO837	Lithosp officia	5
HO842	Lotus cornicul	5
HO843	Lotus tenuis	3
HO844	Lotus uliginos	6
HO848	Lycan floe-cuc	6
HO849	Lycopus europ	6
HO851	Lysianth nummul	6
HO853	Lysianth vulgar	5
HO855	Lythrum salica	6
HO856	Malva rosea	6
HO860	Malva sylvestr	6
HO862	Matricaria matric	6
HO863	Matricaria recuti	5
HO865	Medicag aratic	5
HO866	Medicag lupuli	6
HO870	Medicag sativa	6

HO871	Meibom pratens	5
HO876	Melilot officia	5
HO878	Mentha aquatic	6
HO879	Mentha arvensis	6
HO886	Mercuria peren	6
HO887	Mizulus guttat	5
HO893	Moscardin triner	6
HO894	Moenchia erect	3
HO902	Myosotis mural	6
HO903	Myosotis arvensis	6
HO904	Myosotis discoide	6
HO905	Myosotis lax/cae	6
HO906	Myosotis ramosis	5
HO907	Myosotis scorpio	6
HO908	Myosotis secunda	4
HO910	Myosotis aquat	5
HO913	Myosotis spicata	5
HO916	Neasturt officia	6
HO918	Nepeta cataria	3
HO921	Nuphar lutea	6
HO922	Nymphaea alba	6
HO924	Odonites verna	6
HO926	Oenanthe crocat	5
HO927	Oenanthe fistul	5
HO929	Oenanthe lachen	3
HO930	Oenanthe pimpin	2
HO937	Onobryche viciif	3
HO938	Ononis repens	6
HO939	Ononis spinosa	5
HO941	Origanum vulga	6
HO946	Orobanch minor	3
HO960	Parist judaica	6
HO961	Pedicularis palus	6
HO962	Pedicularis sylve	6
HO963	Pentagel semper	5
HO965	Petasit hybrid	6
HO969	Picris echioid	5
HO970	Picris hieraci	5
HO972	Pimpinella saxifr	6
HO977	Plantago coron	6
HO978	Plantago lanceol	6
HO980	Plantago major	6
HO981	Plantago sarit	5
HO982	Plantago media	6
HO984	Polygala serpy	6
HO985	Polygala vulga	6
HO986	Polygonum asperr	6
HO989	Polygonum bistor	5
HO990	Polygonum hydrop	6
HO998	Potentilla anser	6
HO000	Potentilla erect	6
HO004	Potentilla repta	6
HO005	Potentilla steris	6
HO006	Potentilla taber	2
HO007	Primula veris	6
HO008	Primula v. vul	3
HO009	Primula vulgar	6
HO011	Prunella vulgar	6
HO012	Pulicaria dysent	6
HO017	Ranunculus acris	5
HO018	Ranunculus aquat	6
HO021	Ranunculus baudot	2
HO022	Ranunculus bulbos	6
HO023	Ranunculus circin	3
HO025	Ranunculus ficari	6
HO026	Ranunculus flammul	6
HO028	Ranunculus hedera	6
HO033	Ranunculus peltat	5
HO034	Ranunculus penici	5
HO036	Ranunculus repens	6
HO038	Ranunculus sceler	6
HO039	Ranunculus tricho	5
HO045	Reseda lutea	6
HO046	Reseda luteola	6
HO048	Rhinanthus minor	5
HO051	Rorippa aspinif	3
HO052	Rorippa palust	6
HO053	Rorippa sylves	5
HO054	Rumex acetosa	5
HO055	Rumex acetosell	5
HO056	Rumex conglomer	6
HO057	Rumex crispus	6
HO058	Rumex hydrolap	5
HO060	Rumex obtusifol	5
HO061	Rumex crispus	3
HO072	Salicornia sp.	5
HO075	Salvia verberna	5
HO077	Sanicula valera	3

HO084	Saxifrag trida	5
HO085	Scabiosa columb	5
HO086	Scandix pecten	3
HO088	Scrophular auric	6
HO089	Scrophular nodos	6
HO091	Scutellaria gal	6
HO093	Sedum acre	6
HO094	Sedum album	5
HO095	Sedum anglicum	3
HO102	Senecio aquatic	6
HO103	Senecio erucif	6
HO106	Senecio jacobea	6
HO107	Senecio squali	3
HO108	Senecio sylvat	6
HO109	Senecio viscos	6
HO110	Senecio vulgar	6
HO111	Serratul tinct	5
HO112	Sherard arvens	6
HO114	Silene silaus	5
HO115	Silene alba	6
HO116	Silene dioica	6
HO120	Silene maritima	4
HO122	Silene vulgar	6
HO125	Sinapis arvens	6
HO129	Sisymbrium offic	6
HO133	Solanum dulcam	6
HO137	Solidago virga	6
HO138	Sonchus arvens	6
HO139	Sonchus asper	6
HO140	Sonchus olerac	6
HO144	Stachys arvens	5
HO148	Stachys officia	6
HO149	Stachys palust	6
HO150	Stachys sylvat	6
HO151	Stellar alsine	6
HO152	Stellar gramin	6
HO153	Stellar holost	6
HO154	Stellar media	6
HO155	Stellar neglect	5
HO159	Succisa pratens	6
HO161	Symphyt officia	6
HO165	Tanacet vulgar	6
HO166	Taraxac erythr	3
HO167	Taraxac palust	5
HO169	Taraxac vulgar	6
HO172	Tauscium scorv	6
HO177	Thalassia arvens	5
HO179	Thymus praecox	6
HO180	Thymus pulgic	3
HO182	Torilis japon	6
HO185	Tragopogon pratens	6
HO186	Trifolium arvens	6
HO187	Trifolium campes	6
HO188	Trifolium dubium	6
HO192	Trifolium pratens	6
HO195	Trifolium repens	6
HO196	Trifolium repens	6
HO204	Trinia glauca	1
HO206	Tripleuro inod	6
HO209	Urtica dioica	6
HO210	Umbellif repetit	5
HO211	Urtica dioica	6
HO220	Valerian officia	6
HO224	Valerianella loc	5
HO229	Verbascum thapsu	6
HO231	Verbena officia	5
HO234	Veronica ana-anq	5
HO235	Veronica beccab	6
HO236	Veronica catena	5
HO237	Veronica chamae	6
HO242	Veronica officia	6
HO244	Veronica persica	6
HO246	Veronica scutell	5
HO247	Veronica serpyll	6
HO251	Vicia cracca	6
HO252	Vicia hirsuta	6
HO257	Vicia sativa/sat	5
HO258	Vicia sepium	6
HO261	Vicia tetrasper	6
HO265	Viola arvensis	6
HO267	Viola hirtica	3
HO270	Viola odorata	6
HO273	Viola riviniana	6
HO275	Viola tricolor	6
	Hypericum macul	

entry
 means

TROOPERS HILL - PLANT SURVEY

The following additional records were made in the course of 3 additional visits in April and May 1991:

<i>Equisetum arvense</i>	Rare
<i>Anthoxanthum odoratum</i>	Rare
<i>Vulpia myuros</i>	Rare
<i>Cerastium glomeratum</i>	Occasional
<i>Cerastium semidecandrum</i>	Rare
<i>Chamaerion angustifolium</i>	Rare
<i>Hieracium</i> sp	Occasional
<i>Lathyrus montanus</i>	Rare
<i>Lathyrus pratensis</i>	Rare
<i>Lathyrus sylvestris</i>	Rare
<i>Leucanthemum vulgare</i>	Rare
<i>Ranunculus bulbosus</i>	Occasional
<i>Trifolium micranthum</i>	Rare
<i>Valerianella locusta</i>	Rare
<i>Vicia sativa</i>	Occasional
<i>Viola riviniana</i>	Rare

3 common lizards were also seen.

None of the plants recorded above are rare, but several are of some interest. *Vulpia myuros* is a scarce grass of dry, usually acidic habitats. It is more often found in artificial habitats, such as railway beds, than in semi-natural grassland. *Cerastium semidecandrum* is also a scarce plant, found on poor, free draining soils irrespective of their pH. *Lathyrus montanus* is a locally scarce plant of fairly rich acidic soils. *Valerianella locusta* is an uncommon species (ie more common than scarce) found on walls and on very thin soils, as on Troopers Hill. *Trifolium micranthum* is also uncommon locally, as it is restricted to acid soils, but it is common where these occur. The *Hieracium* may well be a good record. As a group they are quite uncommon locally and this did not look like the most widespread species in Bristol. Unfortunately they are impossible to identify.

SITE: T.V.O. Pers Hill G.R.: ST 628.731

BUTTERFLY LIST

<u>SITE STATUS</u>	<u>SPECIES</u>	<u>COUNTY STATUS*</u>
	Essex Skipper	<u>Thymelicus lineola</u> LR
C ✓	Small Skipper	<u>T. sylvestris</u> C
C ✓	Large Skipper	<u>Ochlodes venata</u> C
	Dingy Skipper	<u>Erynnis tages</u> LC
	Grizzled Skipper	<u>Pyrgus malvae</u> LC
	Wood White	<u>Leptidae sinapis</u> LR
	Clouded Yellow	<u>Colias crocea</u> MO
	Pale Clouded Yellow	<u>C. hyale</u> V
	Brimstone	<u>Gonepteryx rhamni</u> C
C ✓	Large White	<u>Pieris brassicae</u> C
C ✓	Small White	<u>P. rapae</u> C
	Green-veined White	<u>P. napi</u> C
	Orange Tip	<u>Anthocharis cardamines</u> C
	Green Hairstreak	<u>Callophrys rubi</u> LC
	Brown Hairstreak	<u>Thecla betulae</u> LVR
	Purple Hairstreak	<u>Ouercasia quercus</u> LC
	White-letter Hairstreak	<u>Strymonidia w-album</u> LC
O ✓	Small Copper	<u>Lycaena phlaeas</u> C
	Small Blue	<u>Cupido minimus</u> LF
	Silver-studded Blue	<u>Plebeius argus</u> LR
	Brown Argus	<u>Aricia agestis</u> LC
O ✓	Common Blue	<u>Polyommatus icarus</u> C
	Chalkhill Blue	<u>Lysandra coridon</u> LC
	Adonis Blue	<u>L. bellargus</u> LVR
	Holly Blue	<u>Celastrina argiolus</u> F
	White Admiral	<u>Limenitis camilla</u> LF
	Purple Emperor	<u>Apatura iris</u> LVR
	Red Admiral	<u>Vanessa atalanta</u> MC
C ✓	Painted Lady	<u>V. cardui</u> MF
	Small Tortoiseshell	<u>Aglais urticae</u> C
O ✓	Camberwell Beauty	<u>Nymphalis antiopa</u> V
	Peacock	<u>Inachis io</u> C
	Comma	<u>Polygonia c-album</u> F
	Pearl-bordered Fritillary	<u>Boloria selene</u> LF
	Small Pearl-b. Fritillary	<u>B. euphrosyne</u> LC
	High Brown Fritillary	<u>Argynnis adippe</u> LR
	Dark Green Fritillary	<u>A. aglaia</u> LC
	Silver-washed Fritillary	<u>A. paphia</u> LC
	Marsh Fritillary	<u>Euphydryas aurinia</u> LO
	Duke of Burgundy Fritillary	<u>Hamearis lucina</u> LVR
	Speckled Wood	<u>Pararge aegeria</u> C
	Wall Brown	<u>Lasionmata megera</u> F
	Marbled White	<u>Melanargis galathea</u> LC
O ✓	Grayling	<u>Hipparchia semele</u> LC
O ✓	Gatekeeper	<u>Pyronia tithonus</u> C
O ✓	Meadow Brown	<u>Maniola jurtina</u> C
O ✓	Small Heath	<u>Coenonympha pamphilus</u> C
	Ringlet	<u>Aphantopus hyperantus</u> LC

Status key: L= local; M= migrant; C= common; F= frequent; O= occasional;
R= rare; VR= very rare; V= vagrant.

COMPILER: R Higgins Coverage(dates): Nov '85 '86

Comments:

Appendix: 3 Guidelines for monitoring

Objective 1a - Map and survey heath and grassland communities

In year one of the management plan it will be necessary to collect base-line information about the extent and quality of the grass and heath communities. Using an experienced surveyor, the extent of the communities should be recorded and the species complement of each compartment recorded. The National Vegetation Classification (NVC) should be used to describe the plant communities present.

Objective 1b and 1d - Monitor trends in plant communities.

It is recommended that photographic recording be used to monitor trends in the plant communities on Troopers Hill in subsequent years. The advantages of photographic monitoring are:

- a. if used properly, there is little scope for subjectivity;
- b. it is a quick and easy form of recording;
- c. it can be undertaken by volunteers; and
- d. it is a useful method in generating broad indications of change.

A system recommended by the Nature Conservancy Council (now English Nature) is given below.

- a. install a series of pairs of low markers (metal or wooden pegs are suitable), each pair representing a transect through a defined plant community.
- b. set up a camera on a tripod, centre over a marker with the lens a standard height above the ground.
- c. measure a standard distance from the marker towards the next marker and plant a ranging pole upright at that point.
- d. aim the camera upon the mid point of the ranging pole, take two photographs. Repeat using different markers and transects.

Further information is given in a Nature Conservancy Council publication, *Photographic Monitoring*, (undated).

R HIGGINS NOTES

TROOPERS HILL DRAFT MANAGEMENT PLAN

A REPORT TO

BRISTOL DEVELOPMENT CORPORATION

MARCH 1992

Community Action Group

Guided Walk run by rangers

CS did litter pick

LNR designated 1995

Re-write leaflet

John Cornwell - expert on E Bristol

Educational activities mines
in 1998 - could do
historical research

Chase Ray Barnett

Rangers - could help
out with group +
practical projects

RING BIND

B+W Maps

Paths washed out

Fire '95

Scrub clearance '98/
+ with BTCV



The Old Police Station
32 Jacobs Wells Road
Bristol BS8 1DR
Tel: 0272 230455
Fax: 0272 253702

Consider LNR extension
to Crewes Hole

Badgers by road

Area in NE corner
cut for hay.

Paths require maint.
Chimney - regular checks
for H+S