

4.2.1 Loch Clair

Map Nos: 1:50,000, Sheet 25
1:10,000, NG95NE

Grid Reference: NG990577

Area of Loch: 65.6 ha

Altitude: 100 m

Access: 1a

Date of Survey: 8.9.86

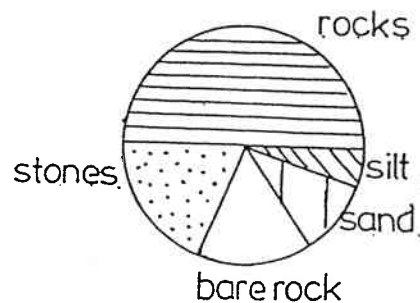
No. Submerged Species: 3

No. Potamogeton Species: 1

Only a small portion of this loch was visited, including the southern bay, part of the western shore and the north-western shore where the loch narrows.

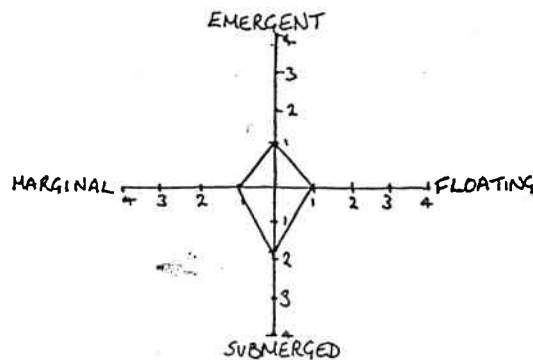
Substrate

Rocks and bedrock occur at the southern end near the fish cages. Sand, silt and stones occur at the north-western end.



Vegetation

Communities Present:



Emergent Vegetation

Generally sparse. Eleocharis palustris with some Equisetum fluviatile occurs along the western and north-western shores. Carex rostrata and Menyanthes trifoliata are also found at the north-western end. Juncus articulatus is also widely distributed in small groups.

Marginal Vegetation

Some Ranunculus flammula and Caltha palustris occur on the shores with Juncus effusus occurring further back from the water's edge.

Floating Vegetation

Sparganium angustifolium, Glyceria fluitans, Potamogeton natans and P. polygonifolius are all present.

Species of Note

Nationally

None.

Locally

Sparganium angustifolium, a species having a critical proportion of its population occurring in the NW Region.

Land Use

The southern shore is wooded with conifers including Pinus sylvestris. Rhododendron is also present.

Land to the east of the loch is wet grassland and moorland with Sphagnum spp and Juncus effusus.

A conifer plantation occurs on the north-western shore.

Pressures

Several fish cages are sited at the southern end of the loch.

Other Facets

Walkways between the shore and some of the fish cages were being constructed at the time of survey.

Several boats occur on the loch.

Previously surveyed by J Matthews (1981).

Receives drainage from Loch Coulin.

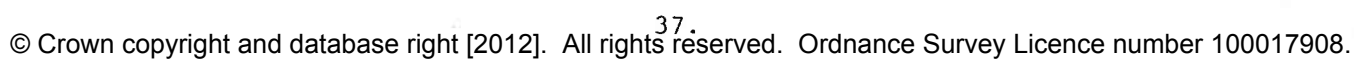


Table 4. Species Lists - Grade A and B Lochs

Species	Ussie	Coulin	Coultrie/an/Loin	Bad a' Chrotha	a' Mhuillinn	Clair	na h-Innse Gairbhe	Beannacharain	Frequency of Occurrence
Emergent Vegetation									
<i>Carex aquatilis</i>	LF								1
<i>C. demissa</i>									1
<i>C. lasiocarpa</i>	LD								3
<i>C. lepidocarpa</i>	O	O					O		7
<i>C. nigra</i>		O	O	O	F	F	O	F	2
<i>C. panicea</i>				O			O		7
<i>C. rostrata</i>	A	A	F	LF		LA	LD	F	7
<i>Eleocharis palustris</i>	O	O	LF	O	O	O		LF	8
<i>Equisetum fluviatile</i>	LF	F	F	LF	O	O	LF	LD	3
<i>E. palustris</i>	O		LF		O				8
<i>Juncus articulatus</i>	O	LF	F	O	F	O	O	O	6
<i>Menyanthes trifoliata</i>	O	A	O		O	LF	O		1
<i>Phragmites australis</i>				LA					4
<i>Scirpus lacustris</i>		LF	LD	LD			LA		
Marginal Vegetation									
<i>Caltha palustris</i>	F	O	F	O	O	O	O		7
<i>Hydrocotyle vulgaris</i>	F	O		F	LF		F		5
<i>Iris pseudacorus</i>								LD	1
<i>Juncus effusus</i>	F	F	F	F	F	O		O	7
<i>Mentha aquatica</i>	LF				O				2
<i>Mimulus guttatus</i>	O								1
<i>Myosotis caespitosa</i>	LF								1
<i>Potentilla palustris</i>	O								1
<i>Ranunculus flammula</i>	F	F	F	O	F	F	O	F	8
<i>Triglochin palustris</i>					O				1
Submerged Vegetation									
Algae	P	P	P		P	P	P	P	7
<i>Apium inundatum</i>	R								1
<i>Callitriche</i> spp.		R						O	2
<i>C. hermaphrodita</i>	LF								1
<i>C. intermedia</i>		R						R	2
<i>Chara</i> sp.	LD				A				2
<i>Elodea canadensis</i>	LA								1
<i>Fontinalis antipyretica</i>		O	O	LF	O				4
<i>Isoetes lacustris</i>			O				R	O	3
<i>Juncus bulbosus</i>	O	A	A	O	O	O	O	F	8

Table 4 (Contd)

Species	Ussie	Coulin	Coultrie/an Loin	Bad a' Chrotha	a' Mhuillinn	Clair	na h-Innse Gairbhe	Beannacharain	Frequency of Occurrence
Submerged Vegetation (Contd)									
Littorella uniflora	F	LD	F	F	O	F	O	LF	8
Lobelia dortmanna	F	A	F	F		F	F	O	7
Myriophyllum alterniflorum	O	F	O	O		O		LF	6
Potamogeton alpinus	LF								1
P. berchtoldii	O								1
P. crispus	LF								1
P. gramineus	LF		O		O				3
P. obtusifolius	A								1
P. perfoliatus	O								1
P. praelongus	O								1
P. x zizzi			F						1
Sphagnum sp.						O			1
Subularia aquatica		R	R						2
Utricularia spp.		O	R	O	O	LA			5
Floating Vegetation									
Glyceria fluitans		LF		O		F		O	4
Nymphaea alba		LF	LF	LA		O	LD		5
Potamogeton natans		A	LA	O	LD	F	LA	LF	7
P. polygonifolius	O	F	O	O		LF		O	6
Polygonum amphibium	O								1
Sparganium angustifolium		O	LF			O		O	4
S. minimum	R								1
Total No. Species (excluding algae)	35	26	25	22	19	20	17	19	

Code.. ¹²⁵ ~~NA9505~~ Name. ~~Loch~~ slav Grid Ref. NA999573
Date.. 24th July '90 Surveyors.. HA / IB Estate.. Conyn Estate
Area... 70 ha Altitude 90 m Catchment.. 5325 ha Geology. MS, TS (PR)
Water Colour. Colourless Clarity. clear Boat used. Secchi disk depth.
Loch type .. 3 Edge types(s)..... S9 / 2
Status..... Access. Yes ! ^(A896) Road 4 houses Present (underline)
Land Use % Open Water..... 3 Semi-natural..... 92 Forestry..... 5 Agriculture.....
(136.5 ha) (248.5 ha)

Substrate types (underline main type
tick others present)

- ✓Bedrock
- ✓Boulders (>30 cm max diam.)
- ✓Stones (5-30cm diam.)
- ✓Gravel (4-50mm diam.)

- ✓Sand (0.1 - 4 mm diam.)
- ✓Silt (< 0.1mm diam.)
- Organic mud
- Peat
- Artificial embankment

USE	AREA AFFECTED	DAMAGE
Water abstraction		
Sewage inflow		
Agricultural pollution		
Edge trampling		
Adjacent forestry		
Fishing (Edge/boat)	✓ Boats	
	Fish Farms; 10 cages	2 Jetties
	Shooting; cartridges found	
	Litter	

<u>Fauna</u>	<u>Mammals</u>
<u>Birds</u>	
Common Sand piper	
4 Mallards	
Pied wagtail	
1 pair of black-throated Divers	

Reptiles
Amphibians
Tocod.

Dragonflies Fish
and other
Invertebrates

Cyrtosoma hypnula
Enallagma cyathigerum
Aeshna caerulea
" *juncea*
Cordulegaster boltoni

Species diversity

Edge:	15
Open Water.....	18
Total.....	31

Rare Species Sub
National

Alkalinity.....

Conductivity.....42 ~~μs~~.....

pH 6.36

Rare in River Purification Board

1995

Site name... born. 1995. Gr. N. 9. 99. 573 No. N. 9. 5. 5. 5.

EMERGENT AND EDGE SPECIES:

Map code	DAFOR	Map code	DAFOR
39 Ags	Agrostis stolonifera	1319 Myl	Myosotis laxa
137 Apr	Apium nodiflorum	1323 Hsc	Myosotis secunda
510 Csp	Calthe palustris	1322 Hsc	Myosotis scorpioides
163 Czar	Carex aquatilis	1348 Mas	Nasturtium officinale
186 Cxl	Carex lasiocarpa	1363 Oc	Oenanthe crocata
188 Cxl	Carex limosa	1366 Ol	Oenanthe lachenalii
193 Cxn	Carex nigra	1454 Pa	Phalaris arundinacea
114 Cxo	Carex rostrata	1465 Pha	Phragmites australis
124 Cxv	Carex vesicaria	1321 Pm	Polygonum amphibium
110 Clv	Cirsium virosa	1392 Pop	Potentilla palustris
123 Clm	Cladium mariscus	1651 Rfl	Ranunculus flammula
129 Des	Deschampsia setacea	1653 Rh	Ranunculus hederaceus
174 Elm	Eleocharis multicaulis	1655 Rl	Ranunculus lingua
175 Elp	Eleocharis palustris	1851 Sl	Scirpus lacustris
177 Elq	Eleocharis quinqueflora	1860 Sm	Scirpus maritimus
178 Elu	Eleocharis uniglumis	1852 St	Scirpus tabernaemontanae
140 Era	Eriophorum angustifolium	1981 Spm	Sparganium erectum
133 Glf	Glyceria fluitans	1983 Spm	Sparganium angustum
181 Hlp	Hippuris vulgaris	2111 Tl	Typha latifolia
189 Hyd	Hydrocotyle vulgaris	2163 Vaa	Veronica anagallis-aquatica
148 Ip	Iris pseudacorus		
130 Jac	Juncus acutiflorus	2166 Vb	Veronica beccabunga
131 Je	Juncus articulatus	2179 Vs	Veronica scutellata
138 Jb	Juncus bulbosus	713 Ef	Equisetum fluviatile
193 Jc	Juncus conglomeratus	717 Ep	Equisetum palustre
187 Je	Juncus effusus		Species total
175 Lit	Littorella uniflora		Other edge species
176 Lyc	Lycopodiella inundata	361 Cxd	Carex demissa
144 Lyp	Lythrum portula	370 Cxe	Carex echinata
127 Lys	Lythrum salicaria	400 Cxcp	Carex panicea
172 Ma	Mantha aquatica	401 Cxpa	Carex paniculata
189 Mt	Menyanthes trifoliata	882 Gp	Galium palustre
128 Mg	Mianulus guttatus	1891 Sa	Senecio aquaticus
189 Ml	Mianulus luteus	2102 Tp	Triglochin palustris
190 Ms	Mianulus noschatus	2215 Vp	Viola palustris
178	Mianulus sp.		
192 Mon	Montia fontana		

* species requiring special protection within the HRPB area (Palmer & Newbold 1977)

** species occurring in less than 100 10 x 10 km squares in Great Britain.

SUBMERGED AND FLOATING SPECIES

Map code	DAFOR	Map code	DAFOR
303 Cah	Callitriche hamulata	1579 Pps	Potamogeton pectinatus
307.13Cpl	Callitriche platycarpa	1582 Pxz	Potamogeton x tizzii
307 Cas	Callitriche stagnalis	1653 Rh	Ranunculus hederaceus
671 Ela	Elatine hexandra	679 Sf	Scirpus fluitans
681 Ec	Elodea canadensis	1980 Spa	Sparganium angustifolium
Fon	Fontinalis antipyretica	1983 Spm	Sparganium angustum
981 Hlp	Hippuris vulgaris	1982 Spm	Sparganium angustum
999 Hyd	Hydrocotyle vulgaris	2020 Sub	Subularia aquatica
1043 Iso	Isoetes echinospora	2129 Uti	Utricularia intermedia
1045 Ist	Isoetes lacustris	2130 Um	Utricularia minor
1058 Jb	Juncus bulbosus var fluitans	4335 Us	Utricularia stygia
1126 Le	Leana minor	2131 Une	Utricularia neglecta
1175 Lit	Littorella uniflora	4334 Uo	Utricularia ochroleuca
1177 Lob	Lobelia Dortmanna	2132 Uva	Utricularia vulgaris/australis
1330 Mal	Myriophyllum alterniflorum	2237 Zan	Zannichellia palustris
1331 Msp	Myriophyllum spicatum	Cha	Chara sp
1356 Nul	Najas lutea	Kit	Mitella sp
1358 Na	Najas alba		Species total
1357 Nup	Najas pumila		18
1474 Pil	Pilularia globulifera		
1521 Pam	Polygonum amphibium		
Ph	Polygonum hydropiper		
1558 Pal	Potamogeton alpinus		
1559 Pbe	Potamogeton bercholdii		
1568 Pgr	Potamogeton gramineus		
1570 Pn	Potamogeton natans		
1571 Pxn	Potamogeton x nitens		
1573 Pob	Potamogeton obtusifolius		
1574 Ppec	Potamogeton pectinatus		
1575 Pper	Potamogeton perfoliatus		
1576 Ppol	Potamogeton polygonifolius		
1577 Ppra	Potamogeton praelongus		
1578 Ppu	Potamogeton pusillus		

Uva + Uo identified by P. Taylor

No un specimen identified

NH 05

Site name... low. show Gr NS 999 573 No. NS 995 955

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199 Mo	Mimulus moschatius		
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1358 Na	Nymphaea alba	Nit Nitella sp	
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1574 Ppec*	Potamogeton pectinatus		
1575 Pper	Potamogeton perfoliatus		
1576 Ppol	Potamogeton polygonifolius		
1577 Ppra**	Potamogeton praelongus		
1578 Ppu*	Potamogeton pusillus		

Do identified by P. Taylor.

Um - no specimen identified

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** species occurring in less than 100 10 x 10 km squares in Great Britain.



24/07/90 Local class

Tanger Notes

- ① Lit, Jb, Ep, Cero, Ckn, Sp, Loh
- ② Md, Jb, Lit, Loh, RFI, Gen, Elm,
- ③ Cero, RFI, Jb, Jb, Loh, Lit, Md
- ④ Id, Jb, RFI, Lit, Loh, Md, Ckn
- ⑤ RFI, Jb, Ckn, Md, Jb, Lit, Loh, Cap
- ⑥ Md, Loh, Pn, RFI, Gen
- ⑦ Loh, Loh, Md, Jb
- ⑧ Lit, GIF, Cero, Elm, Spa
- ⑨ Cero, Loh, Lit, Pn, Jb, Mt,
- ⑩ Cero, Spa, Loh, Jb, RFI, Elm, Ckn