

The James Hutton Institute Publications and Services

CLIMATE, SOIL, LAND CAPABILITY FOR AGRICULTURE and LAND CAPABILITY FOR FORESTRY MAP and HANDBOOKS

CLIMATE, maps, scale 1:625 000 (coloured)

Assessment of Climatic Conditions in Scotland Series.

1. Based on Accumulated Temperature and Potential Water Deficit, (with explanatory handbook and folded maps).
2. Based on Exposure and Accumulated Frost, (with explanatory handbook and flat or folded map).

Assessment of Climatic Factors in Land Capability for Agriculture in Scotland, (flat maps only). Each map covers the whole of Scotland.

Price £28.80, post and package free.

SOIL AND LAND CAPABILITY for AGRICULTURE

handbooks and maps at 1:250 000 scale, (coloured).

This series covers the whole country in seven overlapping sheets shown on the index map overleaf. Each of the areas are presented as a package consisting of a soil map, a map showing land capability for agriculture and a fully illustrated handbook. The maps and handbooks for each area are not sold separately. The maps are normally supplied folded but flat maps are available on request. **Price £57.60, post and package free.**

NB. Packages 5 and 7 are presently out of print.

Loan copies are available on request. Loan period is usually 2 weeks but extensions can be granted on request.

Handbook 8. Organisation and methods of the 1:250 000 Soil Survey of Scotland.

Price. £18.00, post and package free.

Handbook. Land Capability Classification for Agriculture.

Price £18.00, post and package free.

LAND CAPABILITY FOR FORESTRY, handbooks and maps, scale 1:250 000, (coloured).

This series consists of five maps on the same sheet lines and with the same titles as the soil and land capability for agriculture maps above. Sheet 3 includes an insert of Sheet 1 (Orkney and Shetland) at 1:1 million scale and Sheet 4 includes an insert of Sheet 2 (Outer Hebrides) at 1:1 million scale.

Descriptive handbooks are available for each area. They have the same number and title as the maps. Maps and handbooks are available separately.

Price per map, £28.80 post free, flat or folded. Price per handbook, £4.80 post-free.

Land Capability Classification for Forestry in Britain.

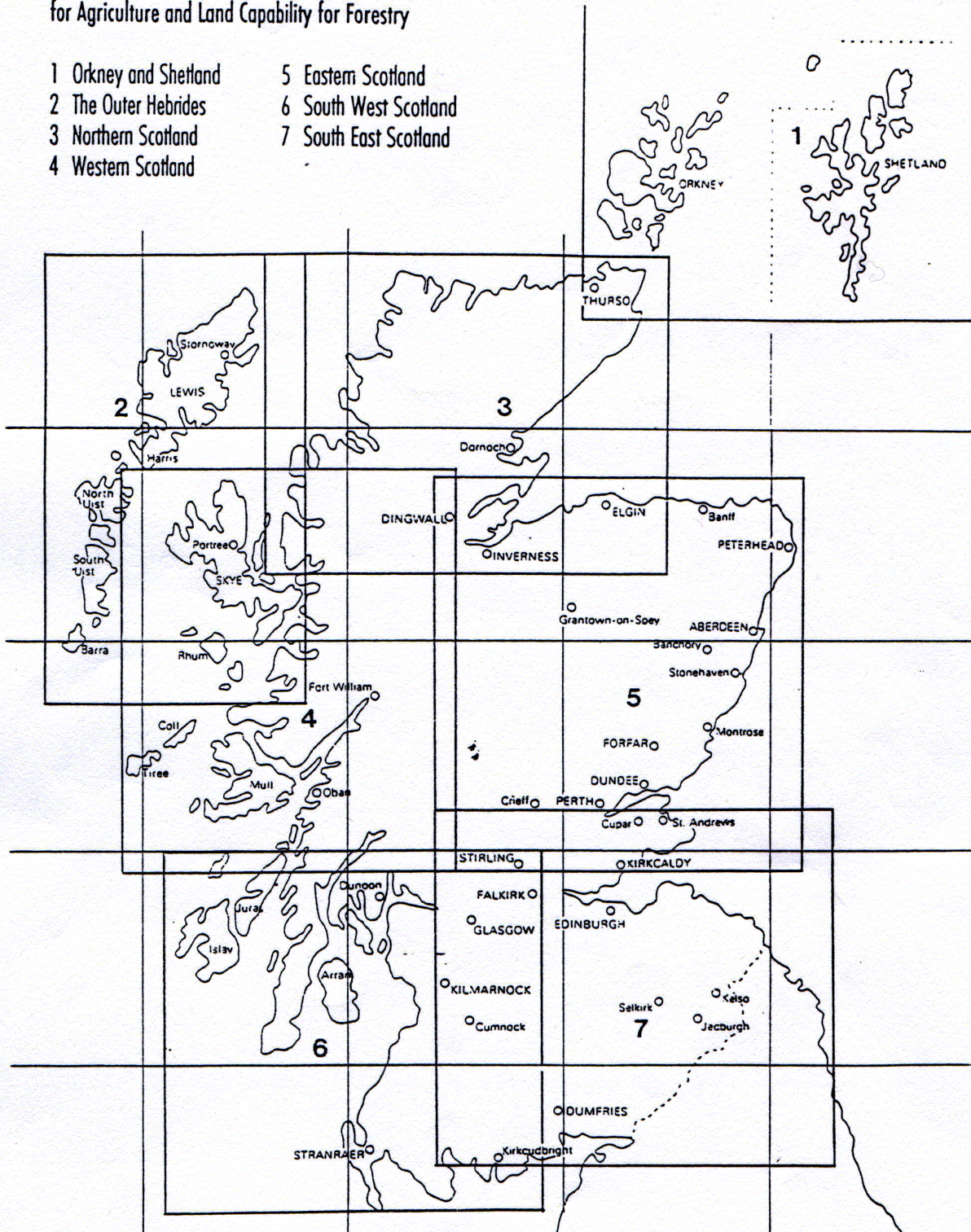
This monograph outlines the physical factors that affect forestry and provides guidelines for determining forestry capability classes.

NB. This booklet is currently out of print but colour photocopies are available which include photographs and the national classification map. Price £8.00 per copy

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1:250 000 scale soil maps; Land Capability
for Agriculture and Land Capability for Forestry

- | | |
|-----------------------|-----------------------|
| 1 Orkney and Shetland | 5 Eastern Scotland |
| 2 The Outer Hebrides | 6 South West Scotland |
| 3 Northern Scotland | 7 South East Scotland |
| 4 Western Scotland | |



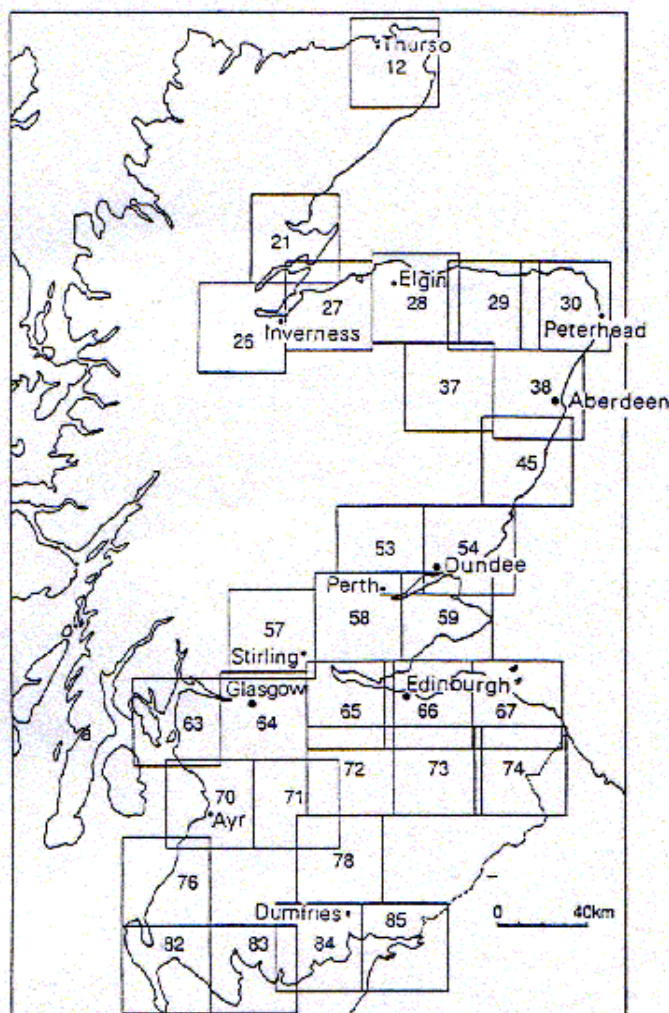
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LAND CAPABILITY FOR AGRICULTURE MAPS coloured, scale 1:50 000

These maps cover the principal agricultural areas of Scotland. The sheet lines conform to the Ordnance Survey Landranger series. Sheets are normally supplied folded, but flat maps are also available.

Price, £28.80 post free



12 Thurso & Wick
21 Dornoch Firth
26 Inverness
27 Nairn
28 Elgin
29 Banff
30 Fraserburgh & Peterhead
37 Strathdon
38 Aberdeen

45 Stonehaven
53 Blairgowrie
54 Dundee
57 Stirling
58 Perth & Kinross
59 St. Andrews & Kirkcaldy
63 Firth of Clyde
64 Glasgow
65 Falkirk & West Lothian

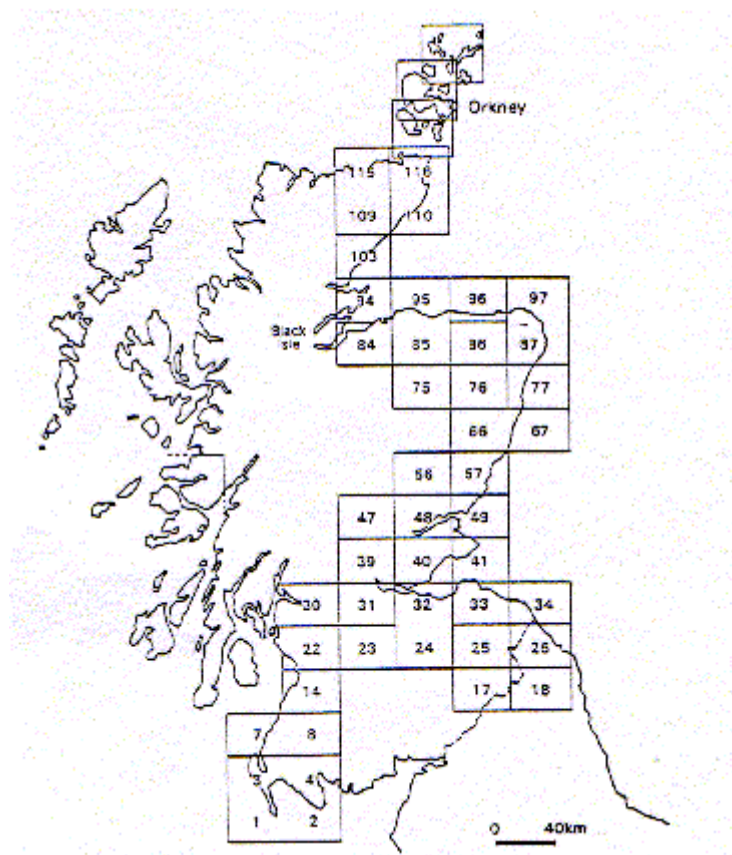
66 Edinburgh
67 Duns & Dunbar
70 Ayr & Kilmarnock
71 Lanark & Upper Nithsdale
72 Upper Clyde Valley
73 Peebles & Galashiels
74 Kelso
76 Girvan

78 Nithsdale Hills & Lowther
82 Stranraer & Glen Luce
83 Newton Stewart
84 Dumfries
85 Carlisle & Solway Firth

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SOIL MAPS coloured, various scales

Sheet titles listed in bold type are available in both flat and folded versions. The remainder are available only as flat sheets. **Price, £28.80 post free.**



Soil Series Description Sheets

These sheets provide summaries of the **soil properties and related environmental factors** for many of the more extensive soil series on the 1 : 50 000 (coloured) and 1 : 63 360 (coloured) and 1 : 25 000 (uncoloured) soils maps.

It should be noted that the sheets relate to the individual soil series and are not descriptions of the area covered by the whole soil map.

Price £1.20 each.

Scale 1:25 000

Island of Rhum

Scale 1:50 000

Orkney - Northern Isles

Orkney - Mainland

Orkney - Hoy

Ardnamurchan & Morven

Scale 1:63 360

1- 4 Stranraer, Wigtown etc.

7/8 Girvan & Carrick

14 Ayr

17 Jedburgh

18 Morebattle

22 Kilmarnock

23 Hamilton

24/32 Peebles & Edinburgh

25 Kelso

26 Berwick-on-Tweed

-- The Black Isle

30 Glasgow

31 Airdrie

33/34 Haddington & Eyemouth

39 Stirling

40/41 Kinross & Elie

-- Island of Mull

47 Crieff

48/49 Perth & Arbroath

52 Ardnamurchan & Morven

56 Blairgowrie

57 Forfar

66/67 Banchory & Stonehaven

75 Tomintoul

76 Inverurie

77 Aberdeen

84 Nairn & Cromarty

85/95 Rothes and Elgin

86 Huntly

87/97 Peterhead &

Fraserburgh

94 Cromarty &

Invergordon

96 Banff

103 Golspie

109/115 Achantoul &

Reay

110/116 Latheron &

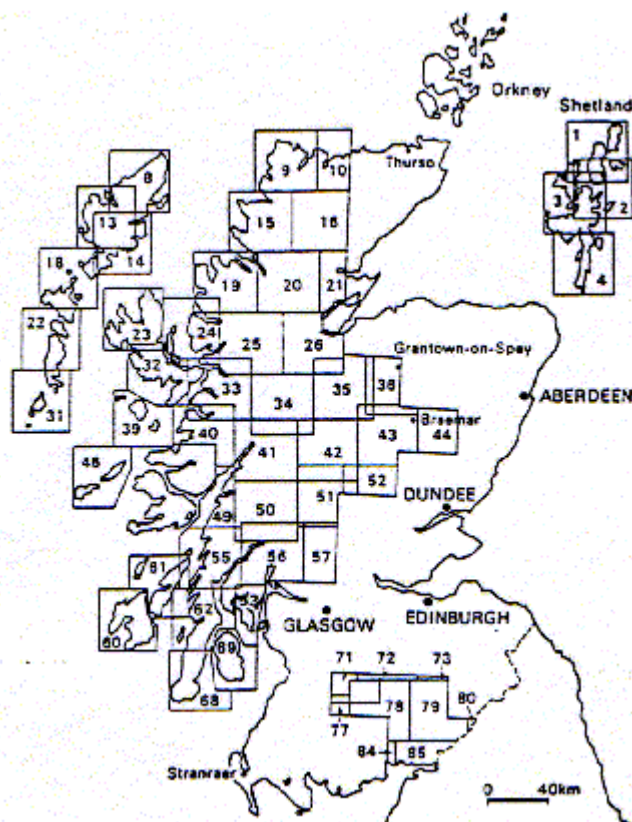
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SOIL MAPS uncoloured, provisional, scale 1:50 000

These sheets are supplied to order. They cover those parts of Scotland which have not been published as 1 inch or 1:50 000 coloured maps. VAT is charged on this service.

Price £28.80 post free including VAT.



1 Shetland - Yell & Unst
2 Shetland - Whalsay
3 Shetland - North Mainland
4 Shetland - South Mainland
8 Stornoway & North Lewis
9 Cape Wrath
10 Strathnaver*
13 West Lewis & North Harris
14 Tarbet & Loch Seaforth
15 Loch Assynt
16 Lairg & Loch Shin*
18 Sound of Harris
19 Gairloch & Ullapool
20 Beinn Dearg
21 Dornoch Firth*
22 Benbecula
23 North Skye
24 Raasay & Loch Torridon*
25 Glen Carron
26 Inverness*
31 Barra

32 South Skye
33 Loch Alsh & Glen Shiel
34 Fort Augustus
35 Kingussie
36 Grantown & Cairngorm*
39 Rhum & Eigg*
40 Loch Shiel*
41 Ben Nevis
42 Loch Rannoch
43 Braemar*
44 Ballater*
46 Coll & Tiree*
49 Oban & East Mull*
50 Glen Orchy
51 Loch Tay*
52 Aberfeldy & Glen Almond*
55 Lochgilphead
56 Loch Lomond*
57 Stirling & The Trossachs
60 Islay*
61 Jura & Colonsay*

62 North Kintyre*
63 Firth of Clyde*
68 South Kintyre*
69 Island of Arran*
71 Lanark & Upper Nithsdale
72/73 Upper Clyde Valley*/Galashiels & Ettrick Forest*
77/78 New Galloway, Glen Trool*/Nithsdale*
79/80 Hawick & Eskdale*/The Cheviot Hills*
84/85 Dumfries*/ Carlisle & Solway Firth*

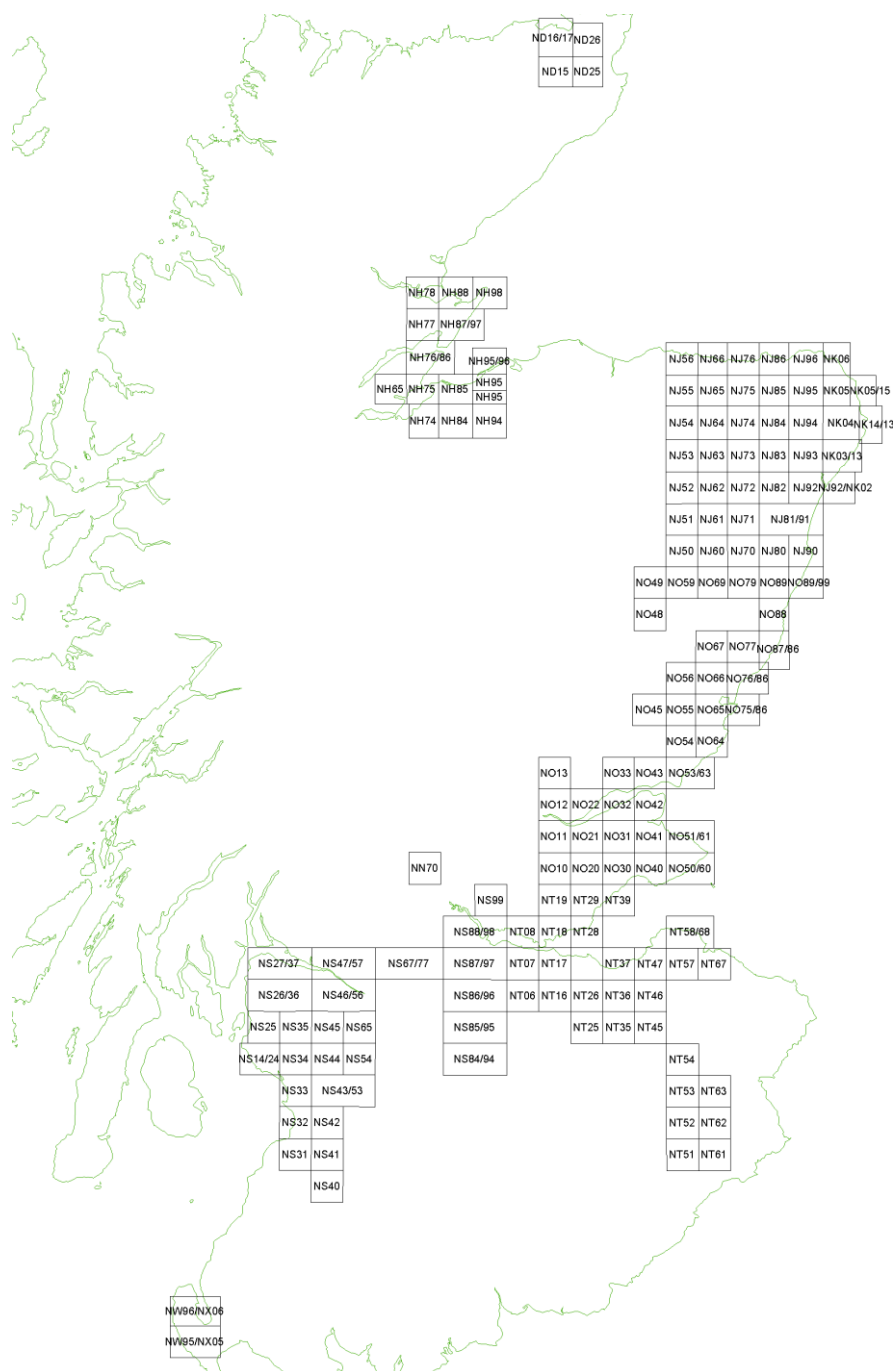
* indicates part sheet

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SOIL MAPS uncoloured, scale 1:25 000

Most of these soil maps have been reproduced on Ordnance Survey First Series 10km x 10km format base maps. These sheets are supplied to order and VAT is charged on this service.

**Price £21.60 post free including VAT for a 10 x 10 km map,
£43.20 post free including VAT for a 20 x 10 km map.**



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SOIL MAPS uncoloured, scale 1:25 000 Sheet Titles.

ND	NK	33 Troon
15 Halkirk	92/02 Newburgh	34 Kilwinning
16/17 Thurso	03/13 Cruden Bay	35 Kilbirnie
25 Watten	04 Longside	40 Dalmellington
26 Loch Heilen	05 Lonmay	41 Drongan
NH	05/15 Rattray Head	42 Tarbolton
65 Munlochy	06 Inverallochy	43 Kilmarnock & Darvel
74 Culloden Moor	14/13 Peterhead	44 Stewarton
75 Fortrose	NN	45 Neilston
77 Ballchraggan	70 Dunblane	46/56 Glasgow (west)
78 Tain	NO	47/57 Milngavie
84 Cawdor	10 Kinross	54 Dunwan Dam
85 Nairn	11 Bridge of Earn	55 Newton Mearns
87/97 Hill of Fearn	12 Perth (east)	67/77 Cumbernauld & Kirkintilloch
88 Inver	13 Stanley	84/94 Lanark
94 Ferness	20 Glenrothes	85/95 Carluke & Forth
95 Auldearn	21 Newburgh (Fife)	86/96 Bathgate
95/96 Auldearn & Culbin	22 Errol	87/97 Falkirk (south)
98 Tarbat Ness	30 Leven (Kirkcaldy)	88/98 Falkirk (north)
NJ	31 Cupar	99 Dollar
50 Lumphanan	32 Tay Bridge	NT
51 Alford	33 Dundee (west)	06 The Calders
52 Rhynie	40 Largo	07 Linlithgow (east)
53 Huntly (south)	41 Guard Bridge	08 Dunfermline (west)
54 Huntly (north)	42 Newport-on-Tay	16 Balerno
55 Glen Barry	43 Dundee (east)	17 Queensferry
56 Portsoy	45 Forfar	18 Dunfermline (west)
60 Torphins	48 Glen Tannet	19 Cowdenbeath
61 Tillyfourie	49 Glentannar	25 Leadburn
62 Inch	50/60 Anstruther/Craik	26 Loanhead
63 Culsalmond	51/61 St Andrews	28 Burntisland
64 Inverkeithny	53 Carnoustie	29 Kirkcaldy
65 Aberchirder	54 Letham	35 Middleton
66 Banff	55 Aberlemno	36 Dalkeith
70 Dunecht	56 Brechin (north-west)	37 Edinburgh (east)
71 Kintore	59 Aboyne	39 Methil
72 Inverurie	64 Arbroath	45 Oxton
73 Fyvie	65 Montrose Basin	46 Ormiston
74 Turriff (south)	65/75 Montrose	47 Longniddry
75 Turriff (north)	66 Marykirk	51 Hawick (east)
76 Macduff	67 Fettercairn	52 Lilliesleaf
80 Aberdeen (west)	69 Banchory (west)	53 Melrose
81 Dyce	76/86 Johnshaven	54 Lauder
82 Oldmeldrum	79 Banchory (east)	57 Haddington
83 Methlick	87/86 Inverbervie	58/68 North Berwick
84 New Deer	88 Stonehaven	61 Oxnam
85 New Pitsligo	89 Netherley	62 Jedburgh
86 Gardenstown	89/99 Newtonhill	63 Smailholm
90 Aberdeen (east)	NS	67 Dunbar
91 Dyce	14/24 Saltcoats	NW/NX
92 Logierieve	25 Largs	95/05 Portpatrick
93 Ellon	26/36 Bridge of Weir	96/06 Kirkcolum
94 Maud	27/37 Greenock & Port Glasgow	
95 Strichen	31 Dalrymple	
96 Fraserburgh	32 Ayr	

Soil Series Description Sheets. Price £1.20 each

These sheets provide summaries of the soil properties and related environmental factors for many of the more extensive soil series on the 1:50 000 (coloured) and 1:63 360 (coloured) and 1:25 000 (uncoloured) soils maps.

LAND COVER OF SCOTLAND DIGITAL DATASET (LCS88)

For up to date information or queries on publications please contact
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This dataset is the first ever national census of land cover in Scotland . It was produced at The Macaulay Institute on behalf of SEERAD (then The Scottish Office) to assist in developing and monitoring the effectiveness of policies affecting the state of the countryside in Scotland. Baseline scale is 1:25 000. The classification system allows for 126 land cover types to be identified as point, line or area features. Area features are delineated where they are > 10 ha for semi-natural ground vegetation, > 5 ha for built-up land or > 2 ha for woodland. An important aspect of the classification system is that it allows for mosaics of the single land cover features to be identified. Mosaics are defined as mixtures of 2 land cover features where the patches of both are below the minimum mapping area criterion for separate identification. The recognition of mosaics expands the number of land cover classes from 126 to 1323.

From 1st April 2001 SEERAD and Ordnance Survey will no longer collect leasing fees for this dataset. The James Hutton Institute will act as agent for the delivery of LCS88 data. Leasing Agreements will continue to be set up for each data lease and there will be a charge for delivery of £350 + VAT for a study area or for the Scotland dataset. The setting up of leasing agreements and delivery of data is mainly carried out by email.

Note on LCS88

The Land Cover of Scotland Dataset is Crown Copyright 1992. It shall not be reproduced in any form whatever without the permission of The Controller of Her Majesty's Stationery Office. It is reproduced from OS Pathfinder Series with the permission of the Controller of HMSO.

Please contact products@hutton.ac.uk

LCS88 Executive Summary Report

Covers the aims and the production methods of the survey, the land cover classification scheme (and comparisons with other schemes), and a guide to using the statistical data. National and regional statistical summary reports are included as is a 1 : 2.5 million scale colour map of Scotland showing them the land cover classes. 40 pages. **£15.60**

LCS88 Main Report and Statistical Tables

Covers the aims, background, the LCS88 land cover classification system, the creation of the dataset the validation of its accuracy and conclusions and recommendations. There are chapters on the links between LCS88 and other source of land cover and ecological information in Scotland. Full statistical reports and commentaries by region are also included. The appendices include feature coding and mosaic codes, technical descriptions, validation details and national, regional and district statistical tables. 600 pages. **Price £96.00**

The Measurement and Analysis of Land Cover Changes in part of the Central Valley of Scotland

This report, prepared for the Scottish Office in 1991, analyses changes with respect to interactions between agriculture, forestry, conservation and the impact of development using 3 time periods - 1946, 1964 and 1988. The area studied comprises 950 sq km of the Central Valley of Scotland and extends westwards from Livingston to Airdrie and southwards from Falkirk to Carluke. **Report Price £30.00**

Digital data are also available products@hutton.ac.uk

The Measurement and Analysis of Land Cover change in the Cairngorms

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The James Hutton Institute Publications and Services

This report, prepared for the Scottish Office in 1992, analyses changes with respect to interactions between agriculture, forestry, conservation and the impact of development using 3 time periods - 1946, 1970 and 1988. The area studied comprises 1000 sq km within the Cairngorm mountains and covers the bulk of the high mountain area, enclosing the National Nature Reserve, most of the National Scenic Area and part of the River Spey valley in the west.

Report Price £30.00

Digital data are also available products@hutton.ac.uk
SOIL MEMOIRS

All prices are post-free.

These books contain introductory chapters on physical features, climate and parent materials. The soils are described in associations, series and complexes. Succeeding chapters contain information on vegetation, agriculture, forestry and analytical data. The appendices contain sections on the definition of terms and tables of analytical data and plant communities.

Please note that the maps referred to in each memoirs are not included in the price but if bought with the memoir will cost £18.00 each.

The Soils of the Country round Stranraer and Wigtown. (Sheets 1 - 4 and part 7)	£36.00
The Soils of Carrick and the Country around Girvan (Sheets 7 & 8)	£36.00
The Soils of the Country round Jedburgh and Morebattle (Sheets 17 & 18)	£30.00
The Soils of the Country round Kilmarnock (Sheets 22 & part 21)	£30.00
The Soils of the Country round Kelso and Lauder (Sheets 25 & 26)	£30.00
The Soils of the Country Haddington and Eyemouth (Sheets 33, 34 & part 41)	£30.00
The Soils of the Country round Perth, Arbroath & Dundee (Sheets 48 & 49)	£36.00
The Soils of the Country round Aberdeen, Inverurie & Fraserburgh (Sheets 77, 76 87 & 97)	£36.00
The Soils of the Country round Banff, Huntly and Turriff (Sheets 86 & 96)	£30.00
The Soils of the Black Isle (Parts of Sheets 83, 84, 93 & 94)	£36.00
The Soils of the Country round Wick (Sheets 110 & 116)	£36.00
Report No.1 Soils in Easter Ross	£9.00
Report No. 2 The Soils of Orkney	£9.00
Report No. 3 Soils of the Blairgowrie District	£9.00
Report No. 4 The Soils of Caithness	£9.00
Report No. 5 Soils around Glasgow and the Firth of Clyde	£9.00

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OTHER PUBLICATIONS

Bulletin No. 1 The Soils of Candacraig and Glenbuchat (with coloured map) £12.00

Bulletin No. 3 The Natural and Semi-natural Vegetation of the Nairn and Cawdor District £30.00

Bulletin No. 4 The Plant Communities of Scotland: A Preliminary Phytocoenia £30.00

Bulletin No. 5 The Phytocoenia of Scotland: Additions and Revisions £24.00

Technical Monograph No. 3. The Classification of some British Soils According to the Comprehensive System of the United States. £12.00

Plant Communities & Soils of the Lowland and Southern Upland Regions of Scotland £24.00

Land Capability Classification for Agriculture - a description of the classification system £18.00

Land Capability Classification for Forestry - a description of the classification system. This publication is now out of print but photocopies are available including colour copies of photographs and national classification map. £6.00

A Key to the Common Plant Communities of Scotland - Loose leaf on water proof paper in a ring binder £24.00

South American Camelids. Proceedings of the First Conference of the British Camelid Owners' and Breeders' Association. Chapters on camelid feeding, breeding, health, fibre production and fibre processing. £6.00

Regenerating Heather Moorland. A study of methods to encourage regeneration of heather from seed. Work carried out with the aid of funding from the Joseph Nickerson Heather Improvement Foundation. This Publication is now out of print but photocopies, including colour copies of photographs, is available. £6.00

Economic and Policy Series No. 1

Evaluation of the Farm Woodland Premium Scheme. Ed. Bob Crabtree £12.00

- Characteristics of planting under the scheme
- Costs to farmers associated with planting
- Biodiversity, landscape and other environmental benefits from planting
- Advice, delivery and administration of the scheme
- Analysis of policy measures for fauna woodlands

Economic and Policy Series No. 2

Valuation of the Conservation Benefits of Environmentally Sensitive Areas Ed. Douglas MacMillan.

This publication quantifies, in monetary terms, the conservation benefits of two ESA's, Breadalbane in Highland Perthshire and the Machair Lands of the Western Isles. Benefits measured were to visitors, to local residents and to the general (UK) public using the Contingent Valuation Method. £12.00

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Sewage Sludge Utilisation on Agricultural Land in Scotland - Trends in the physical Constraints and their Implications Price £12.00

The Potential for Native Woodland in Scotland.

Available as digital data or as a 60 page book with data CD ROM, published jointly with Scottish Natural Heritage. Price £27.00

Please contact products@hutton.ac.uk to order the digital data, or the book.

EUROPEAN FINE FIBRE NETWORK PUBLICATIONS

Occasional Publications No. 3 - The Nutrition and Grazing Ecology of Speciality Fibre producing animals

Ed. J. P. Laker & A. J. F. Russel

Reviews knowledge on the influences of nutrition on fibre growth and production in sheep, angora and cashmere goats and the South American Camelids. Free of charge but £5.00 postage

Occasional publications No. 4 - Metrology and Identification of Speciality Animal Fibres

Ed. J.P. Laker & F. J. Worthman

This book is the proceedings of a conference jointly organised by the European Fine Fibre Network and the German wool Research Institute which reviewed recent technological advances in the identification, measurement and characterisation of speciality fibres. Free of charge but £5.00 postage.

INTERNATIONAL FEED RESOURCE UNIT PUBLICATIONS.

For more information and ordering please contact IFRU directly by telephone at the number below and asking for Anne Marsden, or by email anne.marsden@hutton.ac.uk

Protein Nutrition in Ruminants

The book, which is now in the second edition, was written in response to many changes in the concept of protein nutrition in ruminants and many of the changes were a result of the work carried out at the Rowett Institute. The book discusses the science and practical implications of the new concepts of protein nutrition in ruminants.

£18.00

Energy Nutrition in Ruminants

This book is written with objective of bringing together recent knowledge in the sciences of microbiology, physiology, metabolism and feed evaluation pertaining to the energy nutrition of ruminants.

A new feed evaluation system is suggested: it is based on the dynamics of feed degradation, and also predicts feed consumption. It is argued that present feed evaluation systems have little relevance in production systems based on poor-quality roughages, in which voluntary intake is of paramount importance

£12.00



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The Feeding of Ruminants - Principles and Practice

The principles and practice of the feeding of ruminant livestock are described in a way that is understood by all. The guide explains clearly what is involved in feeding the new-born animal, the fermentation in the rumen and how to optimise it, the preservation and processing of feeds for best use by both the rumen microbes and the animal itself and how to meet the requirements of productive ruminants for energy, protein and minerals.

£18.00

Reality in Rural Development Aid - with emphasis on livestock

In this book Dr. Ørskov shares some of his experience and thoughts from his vast experience in identifying, evaluating and executing projects in many developing countries. Dr. Ørskov uses examples of livestock projects to demonstrate how apparently well-intentioned aid can hinder and often have negative effects on the receiving country. The problems are often the result of 'perceived normality' and secondary interests. Dr. Ørskov explains how well meaning experts from developed countries fail to understand different cultures and thus are unable to perceive that what is normal in their own country is not appropriate, or even helpful, as a goal for other countries to aspire towards.

£12.00

Estimation of Microbial Protein Supply to Sheep and Cattle based on Urinary Excretion of Purine Derivatives:

An overview of the technical details X.B. Chen and M.J. Gomes (1992)

£2.40

