SOIL ASSOCIATIONS	PARENT MATERIALS		COMPONENT SOILS	LANDFORMS	VEGETATION
ALLUVIAL SOILS	Recent riverine and lacustrine alluvial deposits	1	Alluvial soils	Flood plains, river terraces and former lake beds	Arable and permanent pastures Rush pastures and sedge mires
	Marine alluvial deposits (saltings)	2	Saline gleys	Saltings	Mud-rush and sea poa salt marsh Chestnut sedge, sea club-rush and sea rush salt marsh
ORGANIC SOILS	Organic deposits	3	Basin and valley peats	Basins and valleys	Blanket and flying bent bog. Swamp, rush pastures and sedge mires
		4	Blanket peat	Uplands and northern lowlands with gentle and strong slopes	Blanket and flying bent bog Northern and upland blanket bog
ABERLOUR	Drifts derived from acid schists and granitic rocks	5	Noncalcareous gleys, peaty gleys; some humic gleys and peat	Valley sides with concave and regular, gentle and strong slopes; non-rocky	Rush pastures and sedge mires Arable and permanent pastures. Bog heather moor and blanket bog
		6	Humus-iron podzols; some brown forest soils and gleys	Hills and valley sides with gentle and strong slopes; non-rocky	Arable and permanent pastures Dry Boreal heather moor
		9	Peaty podzols, peat, peaty gleys	Hummocky valley moraines	Moist Boreal heather moor. Heath-rush - fescue grassland. Bog heather moor and blanket bog
		10	Peaty podzols, humus-iron podzols; some peaty gleys and rankers	Hills and valley sides with strong and steep slopes; moderately rocky	Dry and moist Boreal heather moor Tussock-grass - white bent grassland
		11	Peaty gleys, peat; some peaty podzols and peaty rankers	Undulating hills with gentle and strong slopes; moderately rocky	Moist Boreal heather moor Blanket and upland blanket bog Bog heather moor
		12	Subalpine soils; some peat and rankers	Mountains with gentle to very steep slopes; non- to very rocky	Alpine lichen heath. Lichen-rich Boreal heather moor. Mountain blanket bog
		15	Rankers, lithosols; some alpine soils	Mountain summits with strong to very steep slopes; very rocky	Blaeberry and bog whortleberry heath. Alpine lichen heath. Stiff sedge - fescue grassland
ARKAIG	Drifts derived from schists, gneisses, granulites and quartzites principally of the Moine Series	19	Noncalcareous gleys, peaty gleys; some humic gleys and peat	Hills and valley sides with gentle to strong slopes; non-rocky	Rush pastures and sedge mires Arable and permanent pastures
		20	Humus-iron podzols; some brown forest soils, noncalcareous gleys and peaty gleys	Undulating lowlands and valley sides with gentle and strong slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires Bog heather moor
		21	Peaty podzols; some humus-iron podzols, peaty gleys and peat	Hills and valley sides with gentle and strong slopes; non-rocky	Dry and moist Boreal heather moor. Bog heather moor Blanket and upland blanket bog
		22	Peaty podzols, peat; some peaty gleys and humus-iron podzols	Hills and valley sides with strong slopes; non-rocky	Moist Boreal heather moor Blanket and upland blanket bog Bog heather moor
		23	Peat, peaty gleys and peaty podzols	Undulating lowlands and uplands with gentle and strong slopes; non-rocky	Blanket and northern blanket bog Bog heather, northern bog heather and Atlantic heather moor
		24	Peat, peaty gleys, peaty podzols	Hills and valley sides with steep and very steep slopes; non-rocky	Bog and northern bog heather moor Atlantic heather moor. Heath-grass - white bent grassland
		25	Brown forest soils, humus-iron podzols; some gleys and peat	Hummocky valley moraines; often bouldery	Acid bent-fescue grassland. Dry Atlantic heather moor. Rush pastures and flying bent bog
		26	Peaty podzols, peat, peaty gleys	Hummocky valley and slope moraines; often bouldery	Moist Atlantic heather moor Blanket and flying bent bog Bog and northern bog heather moor
		27	Brown forest soils, humus-iron podzols; some gleys and rankers	Hill and valley sides with steep and very steep slopes; moderately and very rocky	Oak and birchwood Acid bent-fescue grassland Rush pastures and sedge mires
		28	Peaty podzols, humus-iron podzols; some peaty gleys and rankers	Hills and undulating lowlands with gentle and strong slopes; moderately rocky	Atlantic and Boreal heather moor Bog heather moor Heath-rush - fescue grassland
		29	Peaty gleys, peat; some peaty podzols and peaty rankers	Undulating hills with gentle and strong slopes; moderately rocky	Atlantic and Boreal heather moor Blanket and flying bent bog Bog and northern bog heather moor
		30	Rankers, peaty podzols; some humus-iron podzols and peaty gleys	Rugged hills with strong and steep slopes; very rocky	Atlantic and Boreal heather moor Bog heather moor Blaeberry heath
		31	Peaty gleys, peaty podzols, peaty rankers	Hill sides with steep and very steep slopes; moderately and very rocky	Bog and northern bog heather moor Atlantic heather moor White bent grassland
		32	Peaty gleys, peaty rankers, peat	Rugged hills with gentle and strong slopes; very rocky	Atlantic and Boreal heather moor Blanket and flying bent bog Bog and northern bog heather moor
		33	Subalpine soils; some peat, rankers and alpine soils	Mountains with gentle to very steep slopes; non- to very rocky	Mountain heath communities Upland bent-fescue grassland Stiff sedge - fescue grassland
		34	Peat, subalpine soils; some alpine soils	Mountains with gentle and strong slopes; non- to moderately rocky	Mountain heath communities Mountain blanket bog Stiff sedge - fescue grassland
		35	Alpine soils	Mountain summits with gentle and strong slopes; non- and slightly rocky	Alpine lichen heath Fescue - fringe-moss heath Stiff sedge - fescue grassland
		36	Rankers, lithosols; some alpine soils	Mountain summits with strong to very steep slopes; very rocky	Blaeberry and bog whortleberry heath. Alpine lichen heath Stiff sedge - fescue grassland
BALROWNIE	Drifts derived mainly from sandstones of Lower Old Red Sandstone age, often water-modified	41	Brown forest soils with gleying; some brown forest soils and noncalcareous gleys	Undulating lowlands with gentle and strong slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires Broadleaved woodland
		42	Noncalcareous gleys; some peaty gleys and humic gleys	Undulating lowlands with gentle slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires Broadleaved woodland
		43	Brown forest soils; some brown forest soils with gleying	Undulating lowlands with gentle and strong slopes; slightly rocky	Arable and permanent pastures Broadleaved woodland
		44	Humus-iron podzols; some brown forest soils and peaty podzols	Undulating foothills and valley sides with gentle and strong slopes; non-rocky	Dry Atlantic heather moor Acid bent-fescue grassland White bent grassland
		46	Peaty gleys, peat; some peaty podzols	Undulating lowlands and uplands with gentle slopes; non-rocky	Moist Atlantic heather moor Bog heather moor Rush pastures and sedge mires
BERRIEDALE	Drifts derived from Middle Old Red Sandstone Barren Group sandstones and conglomerates	61	Peaty podzols, peaty gleys, peat	Gently undulating to hilly with gentle and strong slopes; non-rocky	Atlantic heather moor Bog and northern bog heather moor Blanket and northern blanket bog
BRAEMORE/KINSTEARY	Drifts derived from Old Red Sandstone mudstones, shales and fine sandstones	71	Brown forest soils	Valley sides with gentle and strong slopes; non-rocky	Acid bent-fescue grassland Permanent pastures
CORBY/ BOYNDIE/ DINNET	Fluvioglacial and raised beach sands and gravels derived from acid rocks	97	Humus-iron podzols; some gleys	Undulating lowlands, mounds and terraces with gentle slopes	Arable and permanent pastures Bent-fescue grassland Dry Atlantic heather moor
		98	Humus-iron podzols, alluvial soils	Valley floors, terraces and mounds with gentle and strong slopes	Arable and permanent pastures Rush pastures and sedge mires
		99	Humus-iron podzols; some humic gleys and alluvial soils	Valley floors and lowland with gentle slopes	Arable and permanent pastures Rush pastures and sedge mires Bent-fescue grassland
		100	Humus-iron podzols; some peaty gleys and humic gleys	Mounds and ridges with gentle to steep slopes	Bent-fescue grassland Arable and permanent pastures Rush pastures and sedge mires
		101	Peaty podzols; some humus-iron podzols and peat	Mounds, ridges and terraces with gentle to steep slopes	Atlantic and Boreal heather moor Blanket and flying bent bog Rush pastures and sedge mires
		102	Peaty podzols, peat, alluvial soils	Valley floors, mounds and terraces	Atlantic heather moor Blanket and northern blanket bog Permanent and rush pastures
		103	Humus-iron podzols, peaty gleys; some humic gleys, alluvial soils and peat	Terraces with gentle slopes; slightly rocky	Arable and permanent pastures Rush pastures and sedge mires Atlantic heather moor
		104	Peaty gleys, peaty podzols; some peat	Terraces with gentle slopes; slightly rocky	Atlantic and bog heather moor Rush pastures and sedge mires Blanket and flying bent bog
		105	Humus-iron podzols, peaty podzols; some peaty gleys and peat	Terraces with gentle slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires Blanket and flying bent bog
		106	Peaty gleys, peaty podzols; some peat and peat-alluvium	Terraces with gentle slopes; non-rocky	Atlantic and bog heather moor Rush pastures and sedge mires Blanket and flying bent bog
CORRIEBRECK	Drifts derived from basic and ultrabasic igneous rocks	108	Brown forest soils; some brown rankers	Hill sides with gentle to steep slopes; moderately and very rocky	Rich bent-fescue grassland Permanent pastures
		109	Peaty gleys, peaty podzols, peat	Hills with gentle and strong slopes; moderately rocky	Atlantic and bog heather moor Heath-rush - fescue grassland Blanket and flying bent bog
		110	Peaty gleys, peaty podzols; some peat and rankers	Rugged hills with gentle and strong slopes; very rocky	Atlantic and bog heather moor Heath-rush - fescue grassland Blanket and flying bent bog
		111	Peaty gleys, peat; some peaty podzols	Hummocky valley and slope moraines	Bog heather moor Blanket and flying bent bog Moist Atlantic heather moor
		112	Subalpine soils; some peat	Mountains with gentle to steep slopes; moderately and very rocky	Upland bent-fescue grassland Stiff sedge - fescue grassland Mountain blanket bog
COUNTESSWELLS/ DALBEATTIE/ PRIESTLAW	Drifts derived from granites and granitic rocks	119	Peaty gleys, peat; some peaty podzols	Undulating uplands and hills with gentle and strong slopes; non- and slightly rocky	Bog heather moor Blanket and flying bent bog Atlantic heather moor
		122	Humus-iron podzols, brown forest soils; some peaty gleys and peat	Hummocky valley moraines; often bouldery	Permanent pastures and bent-fescue grassland. Broadleaved woodland. Rush pastures
		123	Peaty podzols, peat, peaty gleys	Hummocky valley and slope moraines; often bouldery	Moist Atlantic heather moor Blanket and flying bent bog Bog heather moor
		125	Humus-iron podzols, brown forest soils; some gleys and rankers	Hill and valley sides with strong to very steep slopes; moderately rocky and bouldery	Bent-fescue grassland Rush pastures and sedge mires Broadleaved woodland
		126	Peaty podzols, humus-iron podzols; some peaty gleys and rankers	Hills and valley sides with strong to very steep slopes; moderately rocky	Dry Atlantic and Boreal heather moor
		127	Peaty gleys, peat; some peaty podzols and peaty rankers	Hills and undulating lowlands with gentle and strong slopes; moderately rocky	Atlantic and Boreal heather moor Blanket and flying bent bog Bog and northern bog heather moor
		129	Rankers, peaty podzols; some humus-iron podzols and peaty gleys	Rugged hills with strong and steep slopes; very rocky, some scree	Boreal heather moor, locally Atlantic. Bog heather moor Heath-rush - fescue grassland
		131	Peaty gleys, peaty podzols, peaty rankers	Hill sides with steep and very steep slopes; moderately and very rocky	Atlantic and Boreal heather moor Heath-rush - fescue grassland
		132	Peaty gleys, peat, some peaty rankers	Rugged hills with gentle to strong slopes; very rocky	Atlantic and Boreal heather moor Blanket and flying bent bog Bog and northern bog heather moor
		134	Subalpine soils; some peat and rankers	Mountains with gentle to very steep slopes; non- to very rocky	Mountain heath communities Upland bent-fescue grassland Stiff sedge - fescue grassland
		135	Peat, subalpine soils; some alpine soils	Mountains with gentle and strong slopes; non- to moderately rocky	Mountain heath communities Stiff sedge - fescue grassland Mountain blanket bog
		136	Alpine soils	Mountain or hill summits with gentle and strong slopes; non- to very rocky, bouldery	Mountain heath communities Three-leaved rush heath Stiff sedge - fescue grassland
		137	Rankers, lithosols; some alpine soils	Mountain summits with strong to very steep slopes; very rocky	Blaeberry and bog whortleberry heath. Alpine lichen heath Alpine club-moss snow-bed
DARLEITH/ KIRKTONMOOR	Drifts derived from basaltic rocks	140	Noncalcareous gleys, humic gleys; some brown forest soils and peaty gleys	Undulating lowlands with gentle and strong slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires
		155	Peaty gleys, peat; some humic gleys	Undulating hills with strong slopes; non-rocky	Moist Atlantic and bog heather moor. Flying bent grassland and bog. Rush pastures
		157	Peaty gleys, peat; some peaty gley podzols	Hummocky valley moraine; non-rocky	Bog heather moor and blanket bog Moist Atlantic heather moor Flying bent grassland and bog
		158	Brown forest soils; some brown rankers	Hills and valley sides, frequently terraced, with gentle and strong slopes; slightly rocky	Arable and permanent pastures Bent-fescue grassland Herb-rich Atlantic heather moor
		159	Peaty podzols, humus-iron podzols; some brown forest soils and peaty gleys	Strongly terraced hills with steep slopes; slightly rocky	Dry and moist Atlantic heather moor. Bog heather moor Bent-fescue grassland
		160	Peaty gleys, peat; some peaty podzols	Terraced hills with gentle and strong slopes; slightly to moderately rocky	Atlantic and bog heather moor Blanket and upland blanket bog Flying bent bog and grassland
		161	Brown forest soils	Hill sides with very steep slopes; moderately rocky, with cliffs	Rich bent-fescue grassland Herb-rich Atlantic heather moor
		162	Subalpine soils, peat	Mountains with gentle to very steep slopes; moderately rocky	Stiff sedge - fescue grassland Upland bent-fescue grassland Upland and mountain blanket bog
DEECASTLE	Drifts derived from Dalradian limestones and calc-silicate rocks	165	Brown forest soils; some brown rankers and noncalcareous gleys	Undulating lowlands and hills with gentle and strong slopes; slightly rocky to rocky	Rich bent-fescue grassland Rock-rose - fescue grassland Arable and permanent pastures
		166	Peaty podzols, brown forest soils, some peaty gleys, peat	Lowland with dry ridges and wet hollows with gentle and strong slopes; slightly rocky	Herb-rich Atlantic heather moor Rich bent-fescue grassland Blanket bog and bog heather moor
		167	Lithosols, brown forest soils, some humic gleys	Ridged lowland with gentle to steep slopes; very rocky	Herb-rich Atlantic heather moor Rich bent-fescue grassland Rush pastures and sedge mires
DURNHILL	Drifts derived from quartzites and quartzose grits	184	Peaty gleys, peat	Hill sides with gentle and strong slopes; non-rocky	Flying bent grassland and bog Moist Atlantic heather moor Blanket bog and bog heather moor
		185	Peaty podzols, peat, peaty gleys	Hummocky valley moraines, often bouldery	Atlantic and Boreal heather moor Blanket bog and bog heather moor Flying bent grassland and bog
		186	Brown forest soils, humus-iron podzols; some peaty gleys and rankers	Valley sides with steep and very steep slopes; non- to moderately rocky	Acid bent-fescue grassland Oak and birchwood Rush pastures and sedge mires
		187	Peaty podzols, rankers; some peat	Hills and valley sides with strong to very steep slopes; moderately rocky with scree	Dry Atlantic and Boreal heather moor. Blaeberry heath
		188	Peaty gleys, peat; some peaty rankers and peaty podzols	Hills and hill sides with gentle and strong slopes; moderately rocky	Flying bent grassland Atlantic and bog heather moor Blanket and flying bent bog
		190	Peaty gleys, peaty rankers; some peat and peaty podzols	Rugged hills with gentle and strong slopes; very rocky	Flying bent grassland Atlantic and bog heather moor Blanket and flying bent bog
		191	Peaty gleys, peaty podzols, peaty rankers; some peat	Hill sides, valley sides and hills with steep and very steep slopes; moderately and very rocky	Atlantic and Boreal heather moor Blaeberry heath
		192	Subalpine and alpine soils, peaty rankers; some peat	Mountain summits with gentle to steep slopes; moderately and very rocky with scree	Lichen-rich Boreal heather moor Blaeberry heath Fescue - fringe moss heath
		193	Peat, subalpine soils; some alpine soils	Hill and mountain summits with gentle and strong slopes; slightly and moderately rocky	Bog whortleberry heath Stiff sedge - fescue grassland Mountain blanket bog
FOUDLAND	Drifts derived from slates, phyllites and other weakly metamorphosed argillaceous rocks	240	Brown forest soils; some brown rankers and noncalcareous gleys	Undulating lowlands and hills with gentle to steep slopes; slightly to very rocky	Acid bent-fescue grassland Herb-rich Boreal heather moor Juniper scrub
		241	Noncalcareous gleys, humic gleys; some peaty gleys and peat	Undulating lowland with gentle to moderate slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires Flying bent grassland
		242	Noncalcareous gleys, humic gleys; some gleyed rankers and brown forest soils	Ridged lowland with gentle and strong slopes; moderately rocky	Arable and permanent pastures Rush pastures and sedge mires Acid bent-fescue grassland
		243	Humus-iron podzols; some brown forest soils, gleys and peaty podzols	Hills and valley sides with gentle to steep slopes; non-rocky	Permanent pastures Dry Boreal heather moor Acid bent-fescue grassland
		246	Peaty gleys, peat; some peaty podzols and humic gleys	Undulating lowland and lower hill slopes with gentle to strong slopes; non-rocky	Moist Atlantic heather moor Heath-rush - fescue grassland Blanket and flying bent bog
		247	Peaty gleys, peat; some peaty podzols	Ridged lowland and hills with gentle and strong slopes; slightly rocky	Moist Atlantic heather moor Heath-rush - fescue grassland Blanket and flying bent bog
		248	Humus-iron podzols, brown forest soils; some gleys and peat	Hummocky valley moraines	Permanent pastures Acid bent-fescue grassland Rush pastures and sedge mires
		249	Peaty gleys, peat; some peaty podzols	Hummocky valley and slope moraines	Moist Atlantic heather moor Flying bent bog. Sedge mires Heath-rush - fescue grassland
		250	Humus-iron podzols, brown forest soils; some humic gleys and peaty podzols	Hill and valley sides with strong to very steep slopes; moderately rocky	Acid bent-fescue grassland Rush pastures and sedge mires Oak and birchwood
		251	Humus-iron podzols, brown forest soils; some humic gleys and peaty podzols	Hill sides with steep slopes; slightly rocky	Acid bent-fescue grassland Heath-rush - fescue grassland Rush pastures and sedge mires
		252	Peaty podzols, humus-iron podzols; some peat and gleys	Hills and valley sides with strong and steep slopes; slightly and moderately rocky	Dry and moist Atlantic heather moor White bent grassland Blanket and upland blanket bog
		253	Peaty gleys, peaty podzols; some peat and rankers	Hills with gentle to steep slopes; slightly rocky	Atlantic and bog heather moor Heath-rush - fescue grassland Blanket and flying bent bog
		254	Peaty gleys, peaty podzols, some peaty rankers	Hills with steep slopes; moderately and very rocky	Heath-rush - fescue grassland Rush pastures and sedge mires Atlantic and Boreal heather moor
		255	Subalpine soils; some peaty rackers and peat	Mountains with gentle to very steep slopes; non- to very rocky	Fescue - fringe-moss heath Stiff sedge - fescue grassland Mountain blanket bog
FRASERBURGH	Shelly sands	259	Brown calcareous soils, calcareous regosols	Raised beach terraces and undulating dunes (machair) with gentle and steep slopes; non-rocky	Arable and permanent pastures Northern dunes and dune pasture
		260	Brown calcareous soils, calcareous regosols	Raised beach terraces and undulating dunes (machair) with gentle slopes; moderately rocky	Arable and permanent pastures Northern dunes and dune pasture
		261	Calcareous regosols, brown calcareous soils, calcareous gleys	Dunes and slacks with wide slope range	Northern dunes and dune pastures Silverweed pastures and sedge mires. Permanent pastures
		263	Eutrophic flushed peat and peaty gleys	Elongated depressions	Swamp, rush pastures and sedge mires Permanent pastures
GOURDIE/CALLANDER/ STRATHFINELLA	Drifts derived from acid metamorphic rocks and Lower Old Red Sandstone sediments with igneous rocks	274	Brown forest soils, brown forest soils with gleying; some humus-iron podzols and gleys	Undulating lowlands and foothills with gentle and strong slopes	Arable and permanent pastures Acid bent-fescue grassland Oak and birchwood
		275	Noncalcareous gleys, peaty gleys; some brown forest soils with gleying and peat	Undulating lowlands and foothills with gentle and strong slopes	Arable and permanent pastures Rush pastures and sedge mires
GRULINE	Raised beach and fluvioglacial sands and gravels derived from basic and acid igneous rocks	278	Humus-iron podzols, brown forest soils, some alluvium	Lowland with gently sloping terraces	Arable and permanent pastures Acid bent-fescue grassland Rush pastures and sedge mires
		279	Brown forest soils, peaty podzols, peaty gleys, peat	Lowland with gently sloping terraces	Arable and permanent pastures Rush pastures and sedge mires Blanket and flying bent bog
		280	Peaty gleys, peaty podzols, peat, some peaty alluvium	Raised beach platform, moderately rocky	Rush pastures and sedge mires Yellow flag swamp Blanket and flying bent bog
HATTON/ TOMINTOUL/ KESSOCK	Drifts derived from Middle and Lower Old Red Sandstone conglomerates	282	Humus-iron podzols; some brown forest soils and gleys	Undulating lowlands and hills with gentle to very steep slopes; non-rocky	Dry Boreal and Atlantic heather moor. Arable and permanent pastures. Juniper scrub
		285	Peaty and humus-iron podzols; some rankers and peaty gleys	Hills and valley sides with strong and steep slopes; moderately rocky	Dry and moist Atlantic heather moor Acid bent-fescue grassland
		286	Rankers, peaty podzols; some humus-iron podzols, gleys and subalpine podzols	Hills with strong to very steep slopes; very rocky	Dry and moist Atlantic heather moor. Acid bent-fescue grassland

SOIL ASSOCIATIONS	PARENT MATERIALS		COMPONENT SOILS	LANDFORMS	VEGETATION
INCHKENNETH	Drifts derived from Mesozoic sandstones, shales and limestones	307	Brown forest soils, humus-iron podzols, some humic gleys, rankers and alluvium	Hillocky lowland with gentle and strong slopes; moderately rocky	Arable and permanent pastures Acid bent-fescue grassland Rush pastures and sedge mires
		308	Humic gleys, noncalcareous gleys	Undulating lowlands and foothills with gentle and strong slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires
		309	Humic gleys, noncalcareous gleys	Undulating lowlands and foothills with gentle to steep slopes; moderately rocky	Permanent pastures Rush pastures and sedge mires
		311	Peaty gleys, humic gleys; some peat	Undulating foothills with gentle to steep slopes; moderately rocky	Heath-rush - fescue grassland Rush pastures and sedge mires Bog heather moor and blanket bog
		312	Peaty podzols, peaty gleys, some peat	Hill sides with gentle to steep slopes; moderately rocky	Atlantic heather moor Bog heather moor Blanket and flying bent bog
		313	Brown forest soils; some peaty gleys and peat	Hummocky moraines	Acid bent-fescue grassland Rush pastures and sedge mires Blanket and flying bent bog
INCHNADAMPH	Drifts derived from limestones of Cambrian and Ordovician age	314	Brown rendzinas, brown forest soils	Valley sides and undulating lowlands with gentle and strong slopes; moderately to very rocky	Rich bent-fescue grassland Arable and permanent pastures Hazel woodland
		315	Brown rendzinas, peaty podzols, peat	Undulating lowlands and hills with gentle and strong slopes; moderately rocky	Rich bent-fescue grassland Dry Atlantic heather moor Bog heather moor and blanket bog
INSCH	Drifts derived from gabbros and allied igneous rocks	321	Brown forest soils, humic gleys; some peaty gleys	Hummocky valley moraines; often bouldery	Acid bent-fescue grassland Heath-rush - fescue grassland Rush pastures and sedge mires
		322	Peaty podzols, peaty gleys, peat	Hummocky valley moraines; often bouldery	Atlantic heather moor Bog and northern bog heather moor Blanket and flying bent bog
		323	Brown forest soils, brown rankers; some humus-iron podzols and gleys	Hill and valley sides with strong to very steep slopes; moderately rocky	Arable and permanent pastures Acid bent-fescue grassland Atlantic heather moor
		325	Peaty gleys, peat; some peaty podzols	Hills with gentle to steep slopes; moderately rocky	Moist Atlantic heather moor Bog and northern bog heather moor Flying bent grassland and bog
		327	Peaty gleys, peat; some peaty rankers and peaty podzols	Hills with gentle to steep slopes; moderately to very rocky	Moist Atlantic heather moor Bog and northern bog heather moor Flying bent grassland and bog
KINTYRE	Drifts derived from Dalradian schists and red sandstones, often water-modified	335	Noncalcareous gleys, humic gleys; some brown forest soils and peaty gleys	Undulating lowlands with gentle slopes; slightly rocky	Arable and permanent pastures Rush pastures and sedge mires
KNOCKSKAE	Drifts derived from felsites and allied igneous rocks	357	Peaty gleys, peaty podzols, peat	Hills with gentle to steep slopes; moderately rocky	Atlantic and Boreal heather moor Blanket bog Bog heather moor
		358	Peaty gleys, peaty rankers; some peat	Hills with gentle to steep slopes; very rocky with boulders	Moist Atlantic heather moor Bog heather moor Blanket and flying bent bog
LAURENCEKIRK	Drifts derived from Lower Old Red Sandstone marls and mudstones	368	Brown forest soils with gleying; some brown forest soils and noncalcareous gleys	Undulating lowlands with gentle and strong slopes	Arable and permanent pastures Broadleaved woodland
LINKS	Windblown sands	381	Humus-iron podzols, humic gleys; some peat and alluvial soils	Stabilized dunes and undulating raised beaches	Arable and permanent pastures Acid bent-fescue grassland Rush pastures and sedge mires
		384	Peaty gleys, peaty podzols, some peat	Dune slacks and undulating raised beaches	Atlantic and bog heather moor Rush pastures and sedge mires Blanket and flying bent bog
LOCHINVER	Drifts derived from Lewisian gneisses	386	Brown forest soils, humus-iron podzols; some noncalcareous gleys, peaty gleys and rankers	Valley sides and undulating lowlands with gentle and strong slopes; slightly rocky	Arable and permanent pastures Rush pastures and sedge mires
		387	Brown forest soils, brown rankers; some humus-iron podzols and peaty gleys	Hillocky lowlands with gentle and strong slopes; slightly rocky	Acid bent-fescue grassland Arable and permanent pastures Rush pastures and sedge mires
		389	Brown forest soils, humus-iron podzols; some rankers and gleys	Valley sides with steep and very steep slopes; moderately and very rocky	Dry birchwood Acid bent-fescue grassland Dry Atlantic heather moor
		391	Peaty podzols, peat; some peaty gleys	Hummocky valley moraines; slightly to very bouldery	Bog and northern bog heather moor Blanket and northern blanket bog Moist Atlantic heather moor
		392	Peat, peaty gleys; some peaty podzols and humic gleys	Hill sides and undulating land with gentle and strong slopes; non-rocky	Blanket and northern blanket bog Bog and northern bog heather moor Moist Atlantic heather moor
		393	Brown forest soils, humic gleys; some noncalcareous gleys and rankers	Hill sides with steep and very steep regular slopes; moderately rocky	Acid bent-fescue grassland Rush pastures and sedge mires
		394	Peaty gleys, peat; some peaty podzols and peaty rankers	Dissected lowlands and hills with gentle and strong slopes; moderately rocky	Bog and northern bog heather moor Blanket and northern blanket bog Moist Atlantic heather moor
		395	Peaty gleys, peat, peaty rankers; some peaty podzols	Rugged dissected lowlands and hills with gentle and strong slopes; very rocky	Bog and northern bog heather moor Blanket and northern blanket bog Flying bent bog
		396	Peaty gleys, peaty podzols, peaty rankers	Hill sides with steep and very steep slopes; slightly to very rocky	Bog and northern bog heather moor Moist and Northern Atlantic heather moor
		397	Subalpine podzols, peat	Mountains with gentle and strong slopes; slightly and moderately rocky	Mountain heath communities Northern, Upland and mountain blanket bog
		398	Subalpine and alpine soils, lithosols and regosols	Mountains with gentle to very steep slopes; slightly to very rocky	Mountain heath communities Stiff sedge - fescue grassland Blaeberry heath
NIGG/PRESTON	Undifferentiated raised beach deposits	420	Humus iron podzols, regosols; some gleys	Raised beach terraces with gentle slopes	Arable and permanent pastures Rush pastures and sedge mires
NORTH MORMOND/ ORTON	Drifts derived from Old Red Sandstone sediments and acid metamorphic rocks	424	Noncalcareous gleys; some peaty and humic gleys	Undulating lowlands and foothills with gentle slopes	Arable and permanent pastures Rush pastures and sedge mires Bog heather moor
		425	Humus-iron podzols; some peaty podzols and gleys	Undulating lowlands and foothills with strong slopes	Arable and permanent pastures Boreal and Atlantic heather moor Rush pastures and sedge mires
ROY	Interbedded glacio-lacustrine gravels, sands and silts	452	Humus-iron podzols, humic gleys, some alluvium	Lower valley sides and floors with gentle to steep slopes; often with landslips	Permanent pastures Rush pastures and sedge mires Acid bent-fescue grassland
		453	Peaty podzols, peaty gleys, some peat	Valley sides and floors with gentle to steep slopes; often with landslips	Heath-rush - fescue grassland Atlantic and bog heather moor Rush pastures and sedge mires
SABHAIL/ MOUNTEAGLE	Drifts derived from Lower and Middle Old Red Sandstone sandstones	457	Humus-iron podzols, peaty podzols; some rankers and gleys	Hills with gentle to steep slopes; non- and slightly rocky	Dry and moist Atlantic heather moor Bog heather moor Permanent pastures
SOURHOPE	Drifts derived from Old Red Sandstone intermediate lavas	479	Brown forest soils; some brown rankers, humus-iron podzols and humic gleys	Lowlands and hill sides with gentle to very steep slopes; moderately rocky	Acid bent-fescue grassland Dry Atlantic heather moor Broadleaved woodland
		480	Peaty gleys, peat, peaty podzols	Terraced hills with gentle and strong slopes; moderately rocky	Bog and northern bog heather moor Blanket and flying bent bog Atlantic and Boreal heather moor
STAFFIN	Drifts derived from Jurassic limestones and shales	483	Noncalcareous gleys, humic gleys	Undulating lowlands with gentle slopes; non-rocky	Arable and permanent pastures Rush pastures and sedge mires
		484	Noncalcareous gleys, humic gleys	Undulating lowlands with gentle slopes; moderately rocky	Arable and permanent pastures Swamp, rush pastures and sedge mires
		485	Peaty gleys, peat	Undulating lowlands with gentle slopes; non-rocky	Bog and northern bog heather moor Blanket and flying bent bog Moist Atlantic heather moor
		486	Peaty gleys, peat	Undulating lowlands with gentle slopes; moderately rocky	Bog and northern bog heather moor Blanket and flying bent bog Moist Atlantic heather moor
STIRLING/DUFFUS/ POW/CARBROOK	Estuarine and lacustrine raised beach silts and clays	488	Noncalcareous gleys; some peaty gleys and peat	Raised beach terraces with gentle slopes	Arable and permanent pastures Rush pastures and sedge mires Blanket bog
STONEHAVEN	Drifts derived from Lower Old Red Sandstone conglomerates and lavas	490	Brown forest soils; some humus-iron podzols and noncalcareous gleys	Undulating lowlands and foothills with gentle and strong slopes; non-rocky	Arable and permanent pastures Acid bent-fescue grassland Broadleaved woodland
		493	Humus-iron podzols; some peaty podzols and gleys	Undulating lowlands and foothills with gentle and strong slopes; non-rocky	Dry Atlantic heather moor Acid bent-fescue grassland White bent grassland
		495	Brown forest soils; some humus-iron podzols, brown rankers and gleys	Hill and valley sides with strong and steep slopes; moderately rocky	Acid bent-fescue grassland Broadleaved woodland Rush pastures and sedge mires
		496	Humus-iron podzols; some brown forest soils, rankers and gleys	Hills and valley sides with strong and steep slopes; moderately rocky	Dry Atlantic heather moor Acid bent-fescue grassland White bent grassland
STRICHEN	Drifts derived from arenaceous schists and strongly metamorphosed argillaceous schists of the Dalradian Series	497	Noncalcareous gleys, humic gleys; some peaty gleys and humus-iron podzols	Undulating lowlands and valley sides with gentle and strong slopes; non-rocky	Rush pastures and sedge mires Arable and permanent pastures Acid bent-fescue grassland
		498	Humus-iron podzols; some brown forest soils and gleys	Undulating lowlands and hills with strong and steep slopes; non-rocky	Arable and permanent pastures Boreal and Atlantic heather moor Acid bent-fescue grassland
		499	Peaty podzols, humus-iron podzols; some gleys	Hills and valley sides with strong and steep slopes; non-rocky	Boreal and Atlantic heather moor Bog heather moor
		500	Peaty podzols, peat; some peaty gleys	Hills and valley sides with gentle to steep slopes; non-rocky	Boreal and Atlantic heather moor Blanket and upland blanket bog Bog heather moor
		501	Peat, peaty gleys, some peaty podzols	Undulating lowlands and hills with gentle and strong slopes; non-rocky	Blanket and upland blanket bog Bog heather moor Boreal and Atlantic heather moor
		502	Peaty gleys, peat; some peaty podzols	Hill sides with steep slopes; non-rocky	Boreal and Atlantic heather moor Blanket and upland blanket bog Bog heather moor
		503	Humus-iron podzols and brown forest soils; some gleys and peat	Hummocky valley moraines	Acid bent-fescue grassland Permanent pastures Rush pastures and sedge mires
		504	Peaty podzols, peaty gleys and peat	Hummocky valley and slope moraines	Atlantic and Boreal heather moor Heath-rush - fescue grassland Rush pastures. Blanket bog
		505	Brown forest soils, humus-iron podzols, humic gleys	Hill and valley sides with strong to very steep slopes; slightly and moderately rocky	Bent-fescue grassland Hazel, oak and birchwood Rush pastures and sedge mires
		506	Peaty podzols, humus-iron podzols; some peaty gleys and rankers	Hills and valley sides with strong to very steep slopes; moderately rocky	Atlantic and Boreal heather moor Heath-rush - fescue grassland Bent-fescue grassland
		507	Peaty gleys, peat; some peaty podzols and peaty rankers	Hill sides with gentle and strong slopes; moderately rocky	Atlantic and bog heather moor Blanket and flying bent bog Heath-rush - fescue grassland
		508	Brown rankers, brown forest soils; some humus-iron podzols and gleys	Hills and valley sides with steep and very steep slopes; very rocky	Hazel, oak and birchwood Bent-fescue grassland Rush pastures and sedge mires
		509	Rankers, peaty podzols; some humus-iron podzols and peaty gleys	Rugged hills with strong and steep slopes; very rocky	Dry Atlantic and Boreal heather moor. White bent grassland Blaeberry heath
		510	Peaty gleys, peaty podzols, peaty rankers	Hill sides with strong to very steep slopes; moderately to very rocky	Heath-rush - fescue grassland Atlantic and Boreal heather moor
		511	Peaty gleys, peaty rankers, peat, some peaty podzols	Rugged hills with gentle to strong slopes; very rocky	Atlantic, Boreal and bog heather moor. Blanket and flying bent bog Heath-rush - fescue grassland
		512	Subalpine soils; some rankers and peat	Mountains with gentle to very steep slopes; non- to very rocky	Upland bent-fescue grassland Stiff sedge - fescue grassland Mountain heath communities
		513	Peat, subalpine soils; some alpine soils	Mountains with gentle and strong slopes; non- to moderately rocky	Mountain blanket bog Mountain heath communities Stiff sedge - fescue grassland
		514	Alpine soils	Mountain summits with gentle and strong slopes; non- and slightly rocky	Alpine lichen heath Fescue - fringe-moss heath Stiff sedge - fescue grassland
		515	Rankers, lithosols; some alpine soils	Mountain summits with strong to very steep slopes; very rocky	Blaeberry and bog whortleberry heath. Alpine lichen heath Stiff sedge - fescue grassland
TARVES	Drifts derived from intermediate rocks or mixed acid and basic rocks, both metamorphic and igneous	519	Humic gleys, brown forest soils; some peaty podzols and peaty gleys	Ridged low hills with strong slopes; moderately rocky	Bent-fescue grassland Rush pastures and sedge mires Permanent pastures
		525	Brown forest soils, humus-iron podzols, some humic gleys	Hill and valley sides with steep slopes; slightly to moderately rocky	Acid bent-fescue grassland Heath-rush - fescue grassland Rush pastures and sedge mires
		526	Brown forest soils, humic gleys; some peaty gleys and peaty podzols	Ridged low hills with gentle to very steep slopes; very rocky	Bent-fescue grassland Rush pastures and sedge mires Atlantic heather moor
		528	Peaty gleys, peat; some peaty podzols	Ridged hills with gentle to strong slopes; moderately rocky	Atlantic heather moor Bog heather moor Blanket and flying bent bog
		531	Peaty gleys, peaty rankers, some peat	Ridged hills with gentle to strong slopes; very rocky	Atlantic heather moor Bog heather moor Blanket and flying bent bog
		533	Peat, alpine and subalpine soils	Mountains with gentle and strong slopes; non-rocky	Stiff sedge - fescue grassland Mountain blanket bog
TOROSAY	Drifts derived from Tertiary acid, intermediate and basic igneous rocks	546	Brown forest soils, brown rankers; some humic gleys and peaty gleys	Hillocky and weakly terraced land with gentle to strong slopes; moderately rocky	Acid bent-fescue grassland Arable and permanent pastures Rush pastures and sedge mires
		547	Peaty gleys, peat, some peaty podzols and peat alluvium	Hummocky valley and slope moraines; slightly rocky, often bouldery	Bog heather moor Flying bent grassland and bog Moist Atlantic heather moor
		548	Peaty gleys, peat, some peaty rankers and peaty podzols	Weakly terraced hill sides with gentle to steep slopes; moderately rocky	Bog heather moor Flying bent grassland and bog Moist Atlantic heather moor
		549	Peaty podzols, humus-iron podzols, some peaty gleys and peaty rankers	Weakly terraced hill sides with steep and very steep slopes; moderately rocky	Heath-rush - fescue grassland Acid bent-fescue grassland Atlantic heather moor
		550	Peaty gleys, peaty rankers, peat, some peaty podzols	Weakly terraced hill sides with steep and very steep slopes; very rocky	Bog heather moor Blanket and upland blanket bog Moist Atlantic heather moor
		551	Subalpine soils, peat	Mountains with gentle to very steep slopes; slightly to very rocky	Fescue - fringe-moss heath Stiff sedge - fescue grassland Mountain blanket bog
TORRIDON	Drifts derived from Torridonian sandstones and grits	553	Humus-iron podzols, humic gleys	Lowlands with gentle and strong slopes; non- and slightly rocky	Arable and permanent pastures Rush pastures and sedge mires
		554	Peaty podzols, peat, peaty gleys	Hummocky valley and slope moraine; often bouldery	Bog and northern bog heather moor Blanket and northern blanket bog Moist Atlantic heather moor
		555	Brown forest soils, brown rankers; some humic gleys and peaty podzols	Valley sides with strong to very steep slopes; moderately rocky	Acid bent-fescue grassland Hazel, oak and birchwood Rush pastures and sedge mires
		556	Peaty gleys, peat, some peaty podzols	Undulating lowlands and hill sides with gentle and strong slopes; non-rocky	Bog and northern bog heather moor Blanket and northern blanket bog Moist Atlantic heather moor
		557	Peaty gleys, peat, some peaty podzols and peaty rankers	Undulating hills with gentle and strong slopes; moderately rocky	Bog and northern bog heather moor Blanket and northern blanket bog Moist Atlantic heather moor
		558	Peaty gleys, peat, peaty rankers; some peaty podzols	Rugged hills with gentle and strong slopes; very rocky	Bog and northern bog heather moor Blanket and northern blanket bog Moist Atlantic heather moor
		559	Peaty gleys, peaty podzols, some peaty rankers	Hill sides with steep and very steep slopes; moderately and very rocky	Bog and northern bog heather moor Moist and northern Atlantic heather moor
		560	Subalpine soils, deep peat	Mountains with gentle and strong slopes; non- to very rocky	Alpine lichen heath Northern, Upland and mountain blanket bog
		561	Subalpine and alpine soils lithosols; regosols	Mountains with gentle to very steep slopes; slightly to very rocky	Mountain heath communities Stiff sedge - fescue grassland Lichen-rich Boreal heather moor

▨	Bare rock, scree and cliffs
⬠	Built - up areas

THE LITTLE MINCH
SKYE
Portree
Lochcarron
3
HIGHLAND
2
SEA OF THE HEBRIDES
RHUM
Mallaig
Eigg
Invergarry
5
COLL
TIREE
Fort William
MULL
Oban
Firth of Lorn
STRATHCLYDE
CENTRAL
TAYSIDE
Colonsay
Jura
6
7

Location of area showing the numbers of overlapping sheets and those areas covered by published maps on 1:63 360 or 1:50 000 scales —

10
5
0
Kilometres
5
10
15
5
0
Miles
5
10

4 centimetres to 10 kilometres (one grid square)

1 kilometre = 0·6214 mile

1 mile = 1·61 kilometres

Scale 1:250 000

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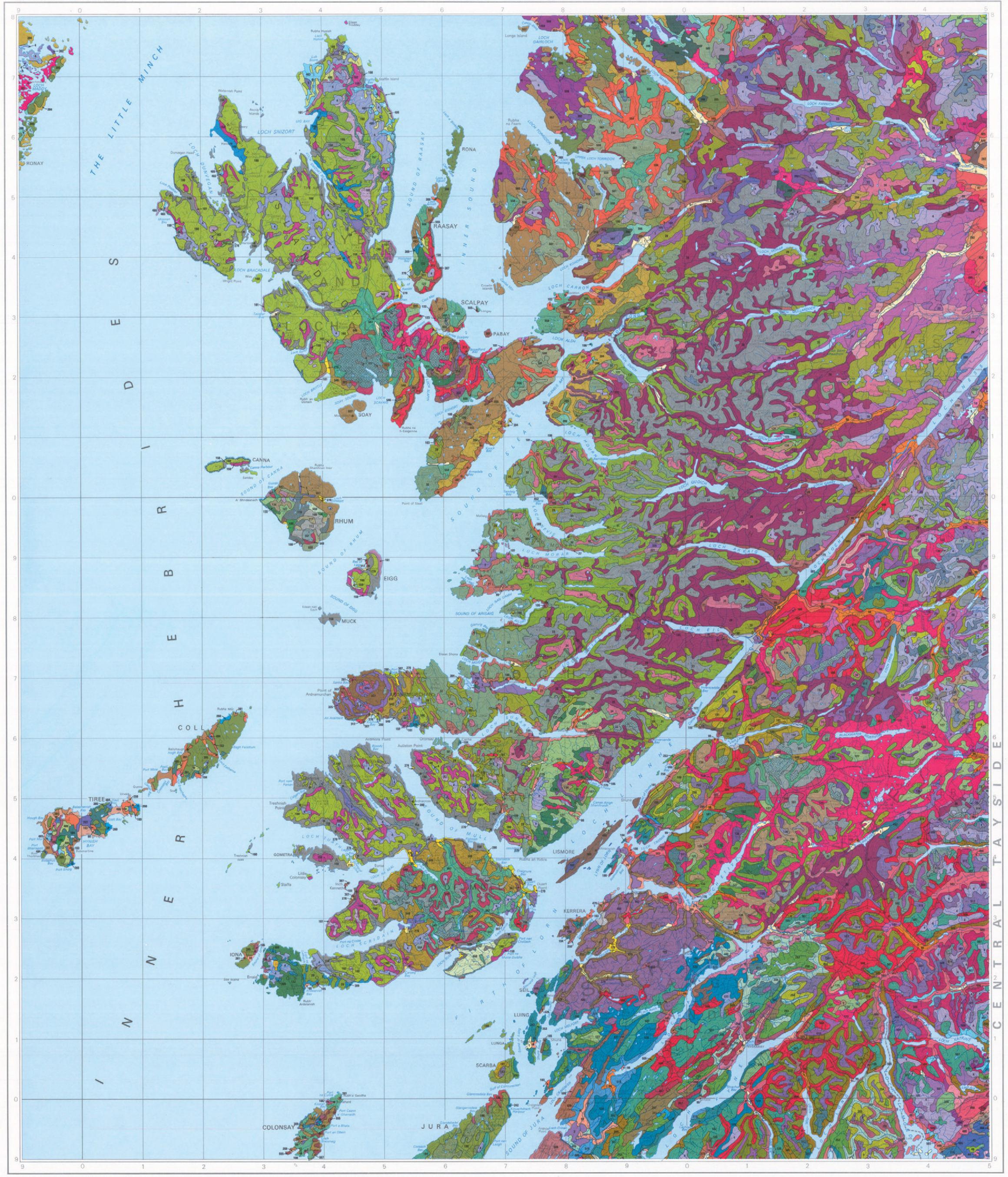
Head of Soil Survey, R. Grant

THE MACAULAY INSTITUTE FOR SOIL RESEARCH, ABERDEEN 1981

SOIL SURVEY OF SCOTLAND

WESTERN SCOTLAND

SHEET 4 (SOIL)



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