

**EPA STRIVE Programme 2007-2013**

# **Soilscapes for Terra Cognita Ireland**

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## **ISIS Final Technical Report 3**

Prepared for the Environmental Protection Agency  
by  
Teagasc and Cranfield University

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The EPA STRIVE Programme addresses the need for research in Ireland to inform policymakers and other stakeholders on a range of questions in relation to environmental protection. These reports are intended as contributions to the necessary debate on the protection of the environment.

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## Executive Summary

The Irish Soil Information System (ISIS) project was established in 2008, following a comprehensive inventory of Irish soil data compiled by Daly and Fealy (2007) which highlighted that soil data coverage of Ireland was incomplete in both detail and extent. The ISIS project is funded under the Environmental Protection Agency STRIVE Research Programme 2007-2013 and co-funded by Teagasc. It was led by Teagasc with the participation of researchers from Cranfield University (UK) and University College Dublin. The overall objective of the ISIS project was to conduct a programme of structured research into the national distribution of soil types and construct a soil map, at 1:250,000 scale, which will identify and describe the soils according to a harmonised national legend. This map is now available in digital format and forms the basis of a new soil information system for Ireland (<http://isis.teagasc.ie>).

The ISIS project has utilised existing data and maps from the previous National Soil Survey (NSS) conducted by An Foras Talúntais (forerunner organisation to Teagasc). The NSS produced: mapping at 1:126,720 scale for 44% of the country; a General Soil Map of Ireland and a National Peatland map, both at 1:575,000 scale and other miscellaneous large scale mapping of experimental farms. In addition, more recent map products have been included such as the Indicative Soil and Subsoil mapping (Fealy and Green, 2009) with national coverage using GIS and remote sensing techniques.

Comparison of soil information at European scale has led to the requirement for the harmonisation and coordination of soil data across Europe, and, in light of the demands for soil protection on a regional basis within member states there is a growing need to support policy with a harmonised soil information system. The European Soil Bureau Network (ESBN) Technical Working Group dealing with Soil Monitoring and Harmonisation recommended a soil map of Europe at a scale of 1:250,000 as an economically feasible intermediate scale that can identify specific problems at regional scale (Montanarella and Jones, 1999).

The ISIS project adopted a combined methodology of utilising novel predicted mapping techniques in tandem with traditional soil survey applications. This unique combination at a national scale has resulted in the development of a new national soil map for Ireland. Building upon the detailed work carried out by the An Foras Talúntais (AFT) survey (known as *Terra Cognita*), the ISIS project generated soil-landscape models at a generalised scale of 1:250,000 for the counties of Carlow, Clare, Kildare, Laois, Leitrim, Limerick, Meath, Offaly, Tipperary South, Waterford, Westmeath, Wexford, West Cork, West Mayo and West Donegal. These soil-landscape models (also referred to as soilscape) were used as the baseline data for statistical models (random forests, Bayesian belief networks and neural networks) to predict soil map units in counties where there was no map available (referred to as *Terra Incognita*). To validate the methodology, this work was supported by a 2.5 year field survey, in which 11,000 locations were evaluated for soil type, using an auger bore survey approach. These data were used to check the predicted soil mapping units (associations) for counties: Cavan, Dublin, East Cork, East Donegal, East Mayo, Galway, Kerry, Kilkenny, Louth, Monaghan, Roscommon, Sligo, Tipperary South and Wicklow, where a detailed soil

survey map was not available. Where new soil information was generated, due to previously unknown combinations of soil-landscape units, profile pits were selected at representative locations across the country. These 225 pits were described and sampled in detail and were used to generate a new soil classification system for the country. The final product is a unique combination of new and traditional methodologies and soils data from both the AFT and the ISIS project. The final, soil association map of Ireland consists of 58 associations (excluding areas of alluvium, peat, urban, rock or marsh) that are made up from 213 soil series. Associated representative profile information is available in the online soil information system.

A key component of the ISIS project has been the development of a soil and land information system and associated public web site. This system has been designed to hold the complete set of information deriving both from the ISIS field programme and modelling activity, as well as the previously existing legacy soils information available for Ireland. Drawing on this information system, the web site is designed to hold and disseminate this information online both in cartographic and tabular form to stakeholders. Prior to this development, there has been no harmonised computerised system in place to hold and manipulate national Irish soils data. The information system therefore addresses the pressing need and requirement for a publicly-accessible, integrated IT framework based upon contemporary informatics standards to serve the many and varied stakeholders having an interest in soils information in Ireland.

# Technical Note on Soil Classification

Two Irish soil classification systems were developed during the ISIS project. An **Interim Soil Classification** was developed in the early stages of the project to enable the harmonisation and generalisation of the county soil maps published by An Foras Talúntais (AFT) and the rationalisation of the original AFT soil series. The **Interim Soil Classification** was used during the development of Work Packages (WP): WP1 and WP2, to produce the training data for the predictive mapping and for most of the field programme in WP3. In 2013/4, **the Interim Soil Classification** was modified following a World Reference Base style hierarchical approach that recognises Great Soil Groups and defines sub-groups by supplementary diagnostic horizons. The **Final Soil Classification** System was developed to provide a more user-friendly classification system that adopts the approach of a hierarchical key for recognition of Great Soil Groups and diagnostic horizons to define the sub-groups.

The **Final Soil Classification** System was subsequently implemented during the description of representative soil profiles, final map production and is included in the updated soil profile handbook, and national soil series list. This modified system is the **Final Soil Classification** system for Ireland that appears in the map and associated information system on the ISIS website.

This Final Technical Report was developed using the **Interim Soil Classification**, and describes a significant contribution to the production of the final New Soil Map of Ireland. Table B below details the differences between the **Interim** and the **Final Soil Classification** Systems.

The **Final Soil Classification** System for Ireland has 3 hierarchical levels:

## 1. Great Soil Groups:

The classification criteria for the Great Soil Groups (GSG) were based on recognisable features used by An Foras Talúntais (National Soil Survey of Ireland) to classify the soils of Ireland at Great Soil Group level. Table A provides an overview of the key criteria for recognizing the Great Soil Groups. The sequence follows World Reference Base (WRB) principles.

## 2. Soil Sub-groups:

The Irish Soil Classification of soil sub-groups (SSG) is based on the recognition of diagnostic horizons, properties and materials which, where possible, should be observed and measured in the field. The selection of diagnostic characteristics takes into account their relationship with soil forming processes. Diagnostic features are selected that are significant to soil management. Subgroups are named with a maximum of two diagnostic features that represent the most important processes occurring in the soil profile. Table B provides a look-up table between the interim and the modified classification systems, listing the Great Soil Groups and Sub-groups.

## 3. Soil Series

The classification of series is based on the same principles as the interim classification system. Within a sub-group a series is further defined by the nature of the soil texture and parent material.

#### 4. Soil Associations

For mapping purposes, the soil series are combined to form soil associations that are identified by the most frequently occurring soil series and combinations of ancillary series. Each association is named after the key (lead) soil series, which is the most extensive soil in the association, e.g. Kilrush series is the dominant component in the Kilrush Association. To facilitate mapping, each soil association based on the Interim Classification is assigned an alphanumeric code that comprises the soil subgroup code (numeric) concatenated with a single alphabetic character, e.g. 711b for Kilrush Association. In the Final Soil Classification, the Kilrush Association is assigned the code 0700b in accordance with Tables A and B. With respect to classification terminology, the reports (3, 4, 5, 11 & 12) describing the predictive mapping programme refer only to soil association codes that relate to the Interim Soil Classification. However, the ISIS Soil Information System contains a translation table that links the interim soil association codes to the codes that relate to the Final Soil Classification. Thus the results of the predictive mapping can be linked to the final version of the New Soil Map of Ireland.

**Table A: Sequencing of the Great Soil Groups (GSG) in the Final Irish Soil Classification**

<b>Criteria</b>	<b>GSG code</b>	<b>Great Soil Group (GSG)</b>
Soils with thick organic layers	<b>1</b>	<b>OMBROTROPHIC PEAT</b>
	<b>2</b>	<b>MINEROTROPHIC PEAT</b>
Shallow or extremely gravelly soils	<b>3</b>	<b>RENDZINAS</b>
	<b>4</b>	<b>LITHOSOLS</b>
Soils influenced by water	<b>5</b>	<b>ALLUVIAL SOILS</b>
	<b>6</b>	<b>GROUNDWATER GLEYS</b>
	<b>7</b>	<b>SURFACE-WATER GLEYS</b>
Soils affected by Fe/Al chemistry increase	<b>8</b>	<b>PODZOLS</b>
	<b>9</b>	<b>BROWN PODZOLICS</b>
Soils with clay enriched subsoil	<b>10</b>	<b>LUVISOLS</b>
Relatively young or soils with limited profile development	<b>11</b>	<b>BROWN EARTHS</b>

For more details of the finalised Irish Soil Classification System please refer to the following documents:

*ISIS Final Technical Report 10: Simo et al. (2014). The Irish Field Handbook for Soil Profile Descriptions. Available from <http://erc.epa.ie.safer/reports>*

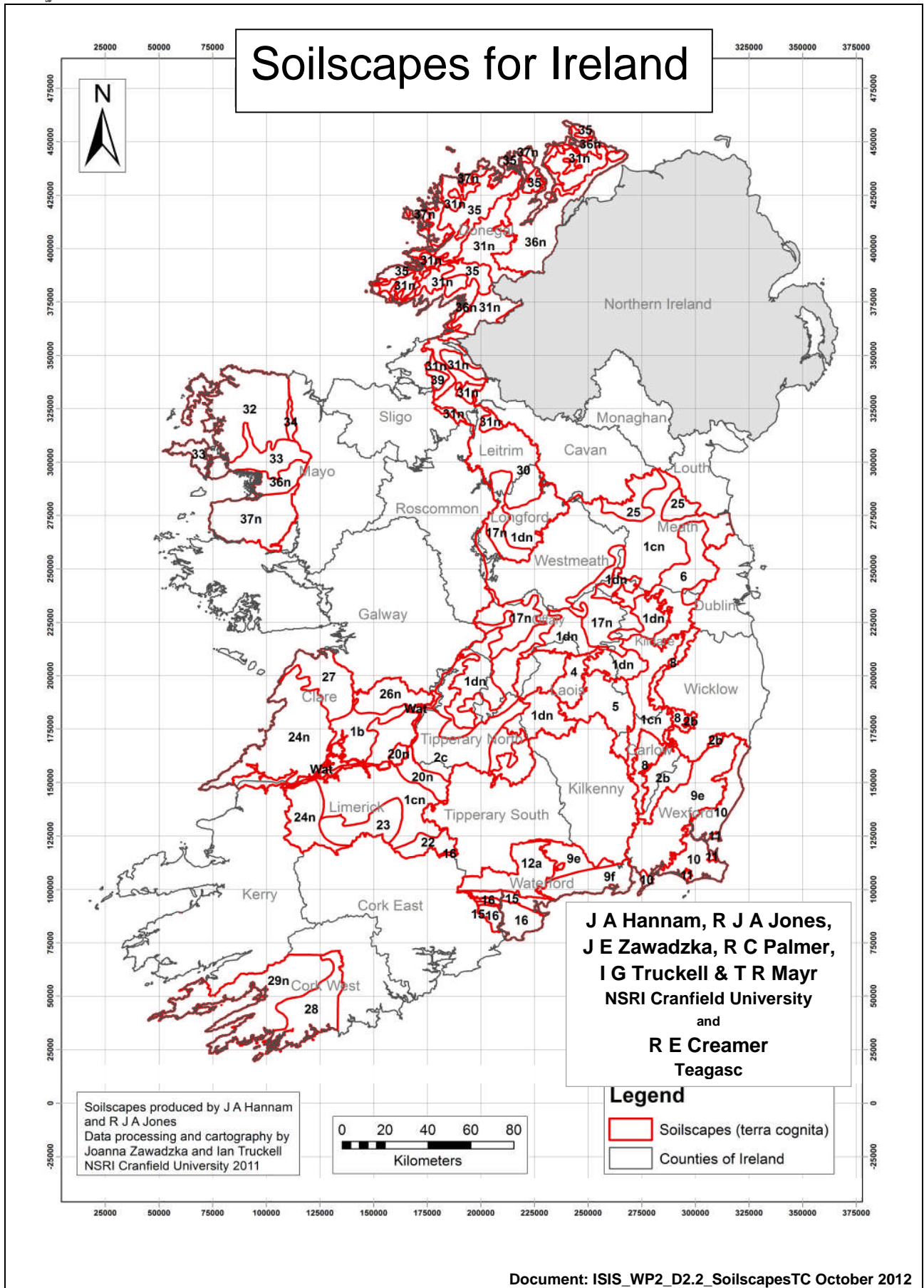
*ISIS Final Technical Report 13: Simo et al. (2014). The Irish Soil Information System Map and Legend. Available from <http://erc.epa.ie.safer/reports>*

*ISIS Final Technical Report 9: Creamer et al. (2014). The Irish Soil Information System National Soil Series - Description and Classification of Representative Profiles. Available from <http://erc.epa.ie.safer/reports>*

**Table B Linkage between the Interim and Final Irish Soil Classifications for Soil Subgroups**

<b>Interim SSG_code</b>	<b>Interim Soil Subgroup (SSG)</b>	<b>SSG code</b>	<b>Soil Subgroup (SSG)</b>
911	Raw Ombrotrophic Peat Soils	110	Natural Ombrotrophic Peat Soils
912	Earthy Ombrotrophic Peat Soils	170	Drained Ombrotrophic Peat Soils
913	Cut-over Ombrotrophic Peat Soils	180	Cut-over Ombrotrophic Peat Soils
914	Industrial Ombrotrophic Peat Soils	190	Industrial Ombrotrophic Peat Soils
921	Raw Minerotrophic Peat Soils	210	Natural Minerotrophic Peat Soils
922	Earthy Minerotrophic Peat Soils	270	Drained Minerotrophic Peat Soils
		280	Cut-over Minerotrophic Peat Soils
211	Typical Rendzinas	300	Typical Rendzinas
215	Histic Rendzinas	310	Histic Rendzinas
213	Humic Rendzinas	360	Humic Rendzinas
214	Stagnic Rendzinas		
212	Gleyic Rendzinas		
111	Typical Lithosols	400	Typical Lithosols
113	Histic Lithosols	410	Histic Lithosols
112	Humic Lithosols	460	Humic Lithosols
821	Typical Alluvial Gleys	500	Typical Alluvial Gley Soils
		510	Histic Alluvial Gley Soils
823	Typical Calcareous Alluvial Gleys	550	Typical Calcareous Alluvial Gley Soils
		551	Histic Calcareous Alluvial Gley Soils
824	Humic Calcareous Alluvial Gleys	556	Humic Calcareous Alluvial Gley Soils
822	Humic Alluvial Gleys	560	Humic Alluvial Gley Soils
811	Typical Brown Alluvial Soils	570	Typical Alluvial Soils
812	Gleyic Brown Alluvial Soils	572	Gleyic Alluvial Soils
813	Humic Brown Alluvial Soils	576	Humic Alluvial Soils
721	Typical Groundwater Gleys	600	Typical Groundwater Gleys
		610	Histic Groundwater Gleys
723	Calcareous Groundwater Gleys	650	Calcareous Groundwater Gleys
		651	Histic Calcareous Groundwater Gleys
724	Humic Calcareous Groundwater Gleys	656	Humic Calcareous Groundwater Gleys
722	Humic Groundwater Gleys	660	Humic Groundwater Gleys
		690	Anthropic Groundwater Gleys
711	Typical Surface-water Gleys	700	Typical Surface-water Gleys
712	Humic Surface-water Gleys	760	Humic Surface-water Gleys
		790	Anthropic Surface-water Gleys
611	Ferric Podzols	800	Typical Podzols
621	Typical Gley Podzols	820	Gleyic Podzols
622	Stagno-Gley Podzols	830	Stagnic Podzols
632	Iron-pan Stagno Podzols	843	Stagnic Iron-pan Podzols
612	HumoFerric Podzols	860	Humic Podzols
		890	Anthropic Podzols
631	Ferric Stagno Podzols		
511	Typical Brown Podzolics	900	Typical Brown Podzolics
512	Gleyic Brown Podzolics	920	Gleyic Brown Podzolics
514	Stagnic Brown Podzolics	930	Stagnic Brown Podzolics
		936	Humi-Stagnic Brown Podzolics
513	Humic Brown Podzolics	960	Humic Brown Podzolics
		990	Anthropic Brown Podzolics
411	Typical Luvisols	1000	Typical Luvisols
412	Gleyic Luvisols	1020	Gleyic Luvisols
		1026	Humi-Gleyic Luvisols
414	Stagnic Luvisols	1030	Stagnic Luvisols
		1036	Humi-Stagnic Luvisols
413	Humic Luvisols	1060	Humic Luvisols
1020	Technosols	1090	Anthropic Luvisols
311	Typical Brown Earths	1100	Typical Brown Earths
312	Gleyic Brown Earths	1120	Gleyic Brown Earths
		1126	Humi-Gleyic Brown Earths
314	Stagnic Brown Earths	1130	Stagnic Brown Earths
315	Humi-stagnic Brown Earths	1136	Humi-Stagnic Brown Earths
321	Typical Calcareous Brown Earths	1150	Typical Calcareous Brown Earths
322	Gleyic Calcareous Brown Earths	1152	Gleyic Calcareous Brown Earths
323	Stagnic Calcareous Brown Earths	1153	Stagnic Calcareous Brown Earths
		1156	Humic Calcareous Brown Earths
		1159	Anthropic Calcareous Brown Earths
313	Humic Brown Earths	1160	Humic Brown Earths
		1190	Anthropic Brown Earths
		1196	Humi-Anthropic Brown Earths





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# IRELAND SOIL INFORMATION SYSTEM (ISIS)

## Soilscales for Terra Cognita Ireland

**Version 5.0**

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## Soilscale derivation

The concept of a soilscale is a broad soil-landscape unit that encompasses a number of soil associations. It groups soils formed primarily on similar substrate types linked to large scale landscape features. However, contrasting soils are included where they are restricted in extent but juxtaposed.

Soilscales for counties Carlow, Clare, Kildare, Laois, Leitrim, Limerick, Meath, Offaly, Tipperary South, Waterford, Westmeath, Wexford, West Cork, West Mayo and West Donegal have been defined and delineated on the basis mostly of detailed soil surveys at 1:126,720 scale. These counties combined are considered as Terra Cognita. In addition, this version (Ph6v1) of the soilscales also includes interpretation of soil associations and soil groups/subgroups from reconnaissance mapping for Longford, which proved to be better quality than reconnaissance surveys for the remaining counties. Longford is therefore included within Terra Cognita.

The soilscale descriptions for Terra Cognita correspond to the following shape file:  
<soilscales\_with\_Donegal\_terra\_cognita.shp>:

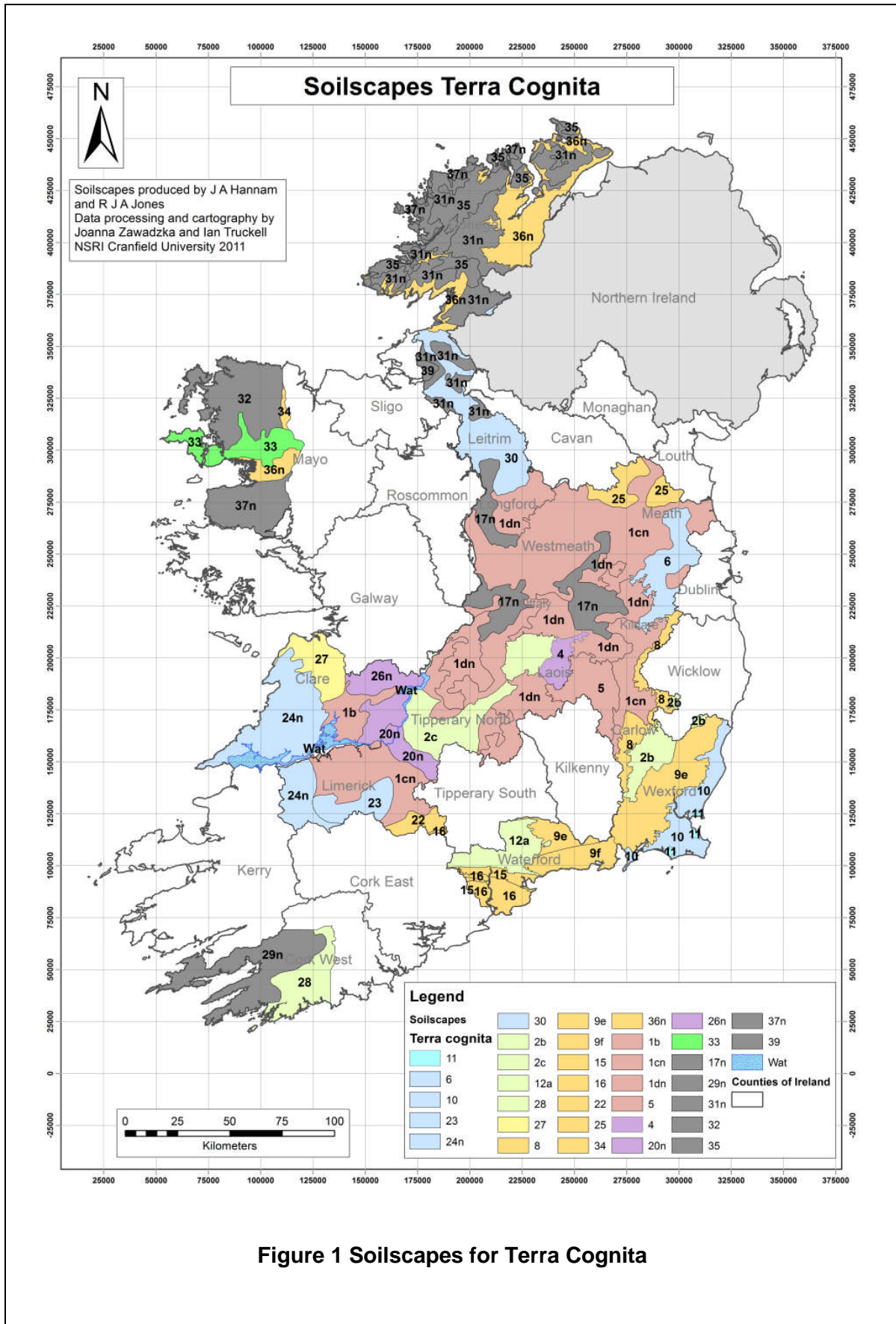
Initially training data, compiled from Terra Cognita and predictive soil mapping using digital techniques, require some stratification to develop models for soil-landscape units rather than for the area of Terra Cognita as a whole. Models developed within the soilscales result in a different ranking of importance of input environmental co-variables depending on the soil-landscape relationship. For example, in upland areas relief derivatives will have greater control over spatially differentiating soil types compared with undulating lowland drift-dominated terrain. The objective of the predictive mapping is to delineate soil associations that match the national map units, which have been constructed from a generalisation process that harmonised and rationalised the soil series mapped at 1:126,720 scale.

Figure 1 shows the soilscales delineated for Terra Cognita. Table 1 describes the generalised soil-landscape relationship and dominant contributing soil associations for each soilscale, listed in order of areal extent.

The composition of Soilscales 35 is more uncertain than for other soilscales because delineation is based on reconnaissance soil information that is much less detailed than the 1:126,720 scale soil map data used to construct all the other soilscales. Soilscale\_39 only covers a small area of Leitrim and linework from the reconnaissance mapping in Sligo was used to guide the extent; however information on soil attributes was very limited.

However, Soil Associations have been delineated in East Donegal, using topography (Digital Elevation Model), the Mask (for peat, outcropping rock, alluvium and blown sand), and extrapolation of units delineated on the soils survey maps of Northern Ireland and West Donegal. The border with West Donegal, which has a detailed soil map (at scale 1:63360), and with Northern Ireland in the East has been harmonized.

Document ISIS\_WP1\_D1.1\_MapGen\_2\_A3\_revised-Jly2012.pdf has been updated to include the new map of East Donegal.



**Table 1 Soilscapes: Description and composition**

Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions			
1b	Limestone till lowlands with basin peat and limestone outcrops	411x	Elton_1	146705523.9	146.71	34.48		Limestone till lowlands with Luvisols, Rendzinas on outcropping limestone pavements and Peat			
		213a	Burren	79781523.46	79.78	18.75					
		411a	Patrickswell_1	43898384.14	43.90	10.32					
		822e	Shannon	41044551.34	41.04	9.65					
		922a	Banagher_1	29948488.38	29.95	7.04					
		911a	Allen	18916284.77	18.92	4.45					
		722b	Puckane_1	17536061.87	17.54	4.12					
		712a	Gortaclareen	9602297.574	9.60	2.26					
		211b	Kilcolgan	7531162.452	7.53	1.77					
		321c	Kinvarra	6659330.019	6.66	1.57					
		722c	Puckane_2	5214899.159	5.21	1.23					
		711b	Kilrush	4335512.98	4.34	1.02	96.65				
		Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2		% land	Area>1%	Soil conditions
1cn	Limestone till lowlands, predominantly luvisols	411a	Patrickswell_1	1515066273	1515.07	24.67		Limestone till lowlands with Luvisols dominant, some Surface- and Ground-water Gley soils and basin peat; small areas of Brown Earths associated with eskers; some small areas of Lithosols and Brown Earths associated with limestone bedrock (Limerick)			
		411x	Elton_1	1399179810	1399.18	22.78					
		411b	Patrickswell_2	531487666.6	531.49	8.65					
		411c	Patrickswell_3	273033495.3	273.03	4.45					
		712c	Howardstown_1	233881879.4	233.88	3.81					
		414b	Rathowen_1	208258482.3	208.26	3.39					
		414d	Fethard	182924185	182.92	2.98					
		411h	Athy	156158439.4	156.16	2.54					
		914a	Clonsast	130286515.2	130.29	2.12					
		411d	Kellistown	128110630.9	128.11	2.09					
		112a	Rineanna	126381110.9	126.38	2.06					
		922a	Banagher_1	113830245.8	113.83	1.85					
		321a	Baggotstown	106676066.3	106.68	1.74					
		911a	Allen	98129265.32	98.13	1.60					
		723a	Mylerstown	72739266.55	72.74	1.18					
		411f	Dunboyne	71329752.21	71.33	1.16					
		711b	Kilrush	67710464.63	67.71	1.10					
		821e	Boyne	63608574.32	63.61	1.04	89.21				
		Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2		% land	Area>1%	Soil conditions
		1dn	Limestone till lowlands with wet soils and basin peat	411c	Patrickswell_3	1133154668	1133.15		39.76		Limestone till lowlands with Luvisols commonly associated with Gleys and basin peat
911a	Allen			284145065.2	284.15	9.97					
414b	Rathowen_1			205553664.1	205.55	7.21					
922a	Banagher_1			196837702.3	196.84	6.91					
723a	Mylerstown			151995929	152.00	5.33					
914a	Clonsast			132013216.3	132.01	4.63					
411x	Elton_1			118672308.1	118.67	4.16					
724a	Ballyshear			84942429.6	84.94	2.98					
514a	Corriga			80392096.21	80.39	2.82					
411a	Patrickswell_1			75776811.56	75.78	2.66					
822f	Camoge			63546420.71	63.55	2.23					
711b	Kilrush			56997735.63	57.00	2.00					
913a	Turbary			40562707.7	40.56	1.42					
820	Undiff Alluvial Gley			35944963.24	35.94	1.26	93.35				
Soilscape	Description			Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions	
2b	Upland gneiss, schist, granite bedrock and igneous & metamorphic drift	511b	Kiltealy	98249803.89	98.25	20.47		Upland areas on igneous or metamorphic bedrock and drift derived from these materials (gneiss, schist and granite); some areas of shale, Brown Podzolic soils and Brown Earths predominate with altitudinal sequence of upland peat, Lithosols and Podzols.			
		311f	Ballylanders	98107871.57	98.11	20.44					
		512a	Clonegall	67522227.66	67.52	14.07					
		311h	Borris	61815818.48	61.82	12.88					
		113a	Carrigvahanagh	34864443.52	34.86	7.26					
		632b	Knockastanna	22951503.72	22.95	4.78					
		611a	Black Rock Mountain	18709045.43	18.71	3.90					
		722e	Ballywilliam	18481267.07	18.48	3.85					
		513c	Borrisoleigh	16625019.55	16.63	3.46					
		632a	Blackstairs	15808052.59	15.81	3.29					
		911b	Aughty_1	12736337.56	12.74	2.65					
		811a	Clohamon	6328348.055	6.33	1.32					
		311a	Clonroche	6308480.583	6.31	1.31	99.68				

Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
2c	Upland sandstone and shale/slate bedrock & drift with siliceous stones	513c	Borrisoleigh	230035878.5	230.04	18.51		Upland area of sandstone and shale/slate bedrock & drift derived from these materials, supporting Brown Podzolic soils with Surface and Ground-water Gleys predominant, with peat and podzols common
		711b	Kilrush	183076858.8	183.08	14.73		
		722d	Slieve Bloom	126190304.9	126.19	10.15		
		511a	Cooga_1	97323534.92	97.32	7.83		
		632b	Knockastanna	96438210.59	96.44	7.76		
		911b	Aughty_1	86004335.79	86.00	6.92		
		712a	Gortaclareen	45128940.14	45.13	3.63		
		311a	Clonroche	41076685.3	41.08	3.31		
		113b	Bantry	40348881.88	40.35	3.25		
		722b	Puckane_1	34612165.53	34.61	2.79		
		411a	Patrickswell_1	28844933.74	28.84	2.32		
		913a	Turbary	28631666.47	28.63	2.30		
		821c	Feale	25011778.26	25.01	2.01		
		513d	Knockaceol	22536614.19	22.54	1.81		
		411c	Patrickswell_3	22290606.08	22.29	1.79		
		512a	Clonegall	18979852.84	18.98	1.53		
		513a	Knockboy	18679941.97	18.68	1.50		
		722c	Puckane_2	17400784.13	17.40	1.40		
		321a	Baggotstown	15339725.58	15.34	1.23		
		311c	Clashmore_1	13574154.33	13.57	1.09		
922a	Banagher_1	13571681.54	13.57	1.09	96.97			
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
4	Wet groundwater-fed lowlands in predominantly limestone drift	723a	Mylerstown	118196979.5	118.20	43.20		Lowland wet groundwater fed system supporting Ground-water Gleys in drift with limestones, and basin peats much of which is cutover or milled
		722b	Puckane_1	66669374.04	66.67	24.36		
		913a	Turbary	46636794.68	46.64	17.04		
		914a	Clonsast	10770849.61	10.77	3.94		
		922a	Banagher_1	9442184.848	9.44	3.45		
		811a	Clohamon	5916604.881	5.92	2.16		
		911a	Allen	4468992.653	4.47	1.63		
		822f	Camoge	4097358.451	4.10	1.50		
		321a	Baggotstown	3354290.001	3.35	1.23	98.51	
		Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	
5	Plateau, drift with limestones and/or siliceous stones	411a	Patrickswell_1	236782420.2	236.78	35.67		Dissected [Castlecomer] plateau dominated by Luvisols and Surface-water Gleys, with few areas of upland peat in places, and Brown Earths on steeper slopes
		711b	Kilrush	108610721.4	108.61	16.36		
		712e	Ballinamoor	72106798.63	72.11	10.86		
		712a	Gortaclareen	42582004.94	42.58	6.41		
		411c	Patrickswell_3	42146193.86	42.15	6.35		
		311e	Kells	35268916.08	35.27	5.31		
		321a	Baggotstown	34040057.23	34.04	5.13		
		712c	Howardstown_1	26035734.22	26.04	3.92		
		313a	Ashgrove	9480007.621	9.48	1.43		
		213a	Burren	9080913.086	9.08	1.37		
		411e	Mortarstown_1	7372032.154	7.37	1.11		
		922a	Banagher_1	7275878.684	7.28	1.10		
		811a	Clohamon	7243991.027	7.24	1.09		
		911b	Aughty_1	6681680.424	6.68	1.01	97.12	
		Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	
6	Wet (surface-water) lowland limestone drift	711d	Straffan	587563871.3	587.56	77.58		Lowland with surface water Gleys and Luvisols developed in drift with limestones.
		411x	Elton_1	100365258.9	100.37	13.25		
		811a	Clohamon	35497984.51	35.50	4.69		
		411h	Athy	10360102.99	10.36	1.37	96.89	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
8	Undulating land bedrock and mixed drift deposits, outwash environments.	311h	Borris	145319316.6	145.32	28.11		Western edge of Wicklow mountains: Brown Earths on lower slopes of slate bedrock, drift with igneous and metamorphic stones or drift with limestones; Luvisols commonly associated with fluvioglacial outwash gravels and some Ground-water Gleys on granitic drift
		411d	Kellistown	93189371.66	93.19	18.03		
		722e	Ballywilliam	73127314.36	73.13	14.15		
		311l	Kennycourt	68994067.73	68.99	13.35		
		411h	Athy	50163481.68	50.16	9.70		
		722a	Newtown	42376517.81	42.38	8.20		
		311f	Ballylanders	22651914.31	22.65	4.38		
		411x	Elton_1	10718462.08	10.72	2.07		
		822b	Millquarter	5190210.778	5.19	1.00	98.99	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
9e	Undulating shale/slate hills, drift with siliceous stones	311a	Clonroche	1148329447	1148.33	74.30		Well drained soils in drift with siliceous stones (derived from shales) with some Gleys in depressions;
		721a	Kilpierce	194119583.1	194.12	12.56		
		712a	Gortaclareen	39132112.51	39.13	2.53		
		513c	Borrisoleigh	25720176.85	25.72	1.66		
		411f	Dunboyne	24224271.37	24.22	1.57		
		612a	Portlaw	16596131.74	16.60	1.07		
		822g	Coolfin	15954910.94	15.95	1.03	94.73	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
9f	Undulating shale/slate hills, drift with igneous and metamorphic stones	311m	Kill_2	212351317.2	212.35	50.34		Well drained soils on undulating land. Drift with igneous and metamorphic stones. Some Gley soils in depressions.
		711g	Tramore	63845349.85	63.85	15.13		
		311a	Clonroche	37175359.51	37.18	8.81		
		711e	Clohemagh	36839494.53	36.84	8.73		
		311i	Broomhill	30028199.04	30.03	7.12		
		712a	Gortaclareen	16139848.64	16.14	3.83		
		822g	Coolfin	15135235.42	15.14	3.59		
		911c	Knockmealdown	4627776.825	4.63	1.10	98.65	

Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
10	Clayey or loamy till, with outwash sands & gravels	711a	Macamore	214192553.1	214.19	27.27		Wexford coast: Surface-water Glays in clayey or fine loamy drift with limestones or siliceous stones with Stagnic Luvisols in association; some well drained sandy Brown Podzolics on outwash sands and gravels; undifferentiated Alluvial Glays in hollows and water courses
		711b	Kilrush	188083512.6	188.08	23.94		
		511c	Screen	120607729.6	120.61	15.35		
		311c	Clashmore_1	87150597.29	87.15	11.09		
		414a	Crosstown	30470284.46	30.47	3.88		
		311j	Randallsmill	19505356.75	19.51	2.48		
		311i	Broomhill	18809066.98	18.81	2.39		
		820	Undiff Alluvial Gley	18579617.06	18.58	2.37		
		822a	Coolalough	16885422.98	16.89	2.15		
		632c	Forth Commons	16827457.92	16.83	2.14		
		414d	Fethard	15577637.97	15.58	1.98		
		314a	Moord	11513008.19	11.51	1.47		
211a	Seafield	9645598.236	9.65	1.23	97.74			
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
11	Slob land (reclaimed coastal flats)	822d	Wexford slob	20543741.33	20.54	61.52		Reclaimed coastal flats locally known as 'slobs', found primarily in Wexford and Waterford
		823a	Kilmore Slob	12848922.42	12.85	38.48	100.00	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
12a	Upland sandstone bedrock and drift with siliceous stones	513e	Knockboy	227570373.8	227.57	37.51		Upland sandstone bedrock and derived drifts; altitudinal sequence of Brown Podzolics, Podzols and Peat, with some Surface-water Glays in lower slope positions and depressions.
		632d	Monavullagh	113315916.7	113.32	18.68		
		711f	Newport	97064301.27	97.06	16.00		
		612a	Portlaw	57462127.4	57.46	9.47		
		311c	Clashmore_1	42764462.01	42.76	7.05		
		911c	Knockmealdown	27659461.91	27.66	4.56		
		911b	Aughty_1	17667750.2	17.67	2.91		
		411f	Dunboyne	15599889.2	15.60	2.57		
		822g	Coolfin	7598624.734	7.60	1.25	100.00	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
15	Lowlying, drift with siliceous stones and alluvial soils	311n	Clashmore_2	130895315.4	130.90	75.91		Well drained lowland soils on drift derived from sandstone. Alluvial Gley soils in fluvial depressions.
		822g	Coolfin	33618775.21	33.62	19.50		
		1011a	Monatray	3795071.204	3.80	2.20		
		314a	Moord	3244243.608	3.24	1.88	99.49	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
16	Undulating lowlands, drift with siliceous stones	311c	Clashmore_1	155371860.5	155.37	41.17		Well drained lowlands with Brown Earths, and Brown Podzolics & Podzols on upper slopes; some Anthrosols close to the coast and Surface-water Glays in depressions
		513e	Knockboy	63232139.96	63.23	16.76		
		621a	Ahuan	39274945.5	39.27	10.41		
		1011a	Monatray	27064283.95	27.06	7.17		
		314a	Moord	22320790.05	22.32	5.92		
		612a	Portlaw	19289349.14	19.29	5.11		
		711f	Newport	14783117.58	14.78	3.92		
		311d	Ballyvorheen	11597203.53	11.60	3.07		
		311n	Clashmore_2	11417380.73	11.42	3.03		
		722f	Puckane3	9577237.358	9.58	2.54	99.09	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
17n	Lowland raised bog, industrial peat	914a	Clonsast	659202776.7	659.20	46.12		Lowland peat, including milled and machined areas in Midlands, with some Luvisols, Surface-water Glays in depressions and Alluvial Glays in valleys
		911a	Allen	173852604.3	173.85	12.16		
		411a	Patrickswell_1	129354443.9	129.35	9.05		
		922a	Banagher_1	102007387.2	102.01	7.14		
		411x	Elton_1	72681955.98	72.68	5.08		
		411c	Patrickswell_3	62543120.27	62.54	4.38		
		820	Undiff Alluvial Gley	60187344.12	60.19	4.21		
		711b	Kilrush	47998294.6	48.00	3.36		
		321a	Baggotstown	30550445.76	30.55	2.14		
		824a	Drombanny	19643713.24	19.64	1.37		
		411e	Mortarstown_1	18543130.18	18.54	1.30	96.30	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
20n	Wet lowlands, predominantly drift with siliceous stones	722b	Puckane_1	84882142.02	84.88	29.34		Flat lowlands with Surface-water, Ground-water & Alluvial Glays, and some basin peat; Brown Podzolics, Luvisols and Brown Earths on better drained slopes
		712b	Cluggin	61977238.63	61.98	21.42		
		511a	Cooga_1	41931683.81	41.93	14.49		
		821e	Boyne	20691731.54	20.69	7.15		
		712a	Gortaclareen	18406806.13	18.41	6.36		
		414a	Crosstown	16167107.57	16.17	5.59		
		822e	Shannon	12901901.5	12.90	4.46		
		922a	Banagher_1	11439586.56	11.44	3.95		
		311d	Ballyvorheen	9431895.64	9.43	3.26		
		411x	Elton_1	9194669.565	9.19	3.18	99.21	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
22	Upland shale bedrock and drift with siliceous stones	311f	Ballylanders	70518986.8	70.52	33.87		Brown Earths over shale bedrock on lower slopes, Blanket Peat on hill tops, Podzols on steeper slopes and Ground-water Glays in drift-filled depressions
		911b	Aughty_1	57147829.28	57.15	27.45		
		722b	Puckane_1	39684186.22	39.68	19.06		
		513d	Knockaceol	21096320.08	21.10	10.13		
		411x	Elton_1	6618890.502	6.62	3.18		
		632b	Knockastanna	6172540.443	6.17	2.96		
		821f	Lyre	4585114.263	4.59	2.20	98.85	

Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
23	Clayey lowland drift with limestones	712c	Howardstown_1	268786208.3	268.79	60.76		Surface-water Gleys on clayey drift with limestones, interspersed with Luvisols and small areas of Alluvial Gleys.
		411x	Elton_1	133146301.4	133.15	30.10		
		822f	Camoge	19291393.22	19.29	4.36		
		712b	Cluggin	6144364.776	6.14	1.39	96.62	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
24n	Wet undulating land drift with siliceous stones	711b	Kilrush	932955821	932.96	48.97		Undulating land with Surface-water Gleys and degrading Peat; Brown Podzolics and Brown Earths on shale bedrock or in drift
		911b	Aughty_1	318173227	318.17	16.70		
		513c	Borrisoleigh	199357741.8	199.36	10.46		
		913a	Turbary	130649812	130.65	6.86		
		313a	Ashgrove	106321732.2	106.32	5.58		
		314a	Moord	105419549.8	105.42	5.53		
		911a	Allen	48569757.68	48.57	2.55	96.66	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
25	Shale hills and drift with siliceous stones lowland	311e	Kells	272284949	272.28	57.83		Well drained Brown Earths on shale bedrock with Surface-water Gleys on drift in depressions (north Meath); some Luvisols and Brown Podzolics
		711b	Kilrush	146779996.7	146.78	31.18		
		513b	Rathkenny	18020354.4	18.02	3.83		
		411b	Patrickswell_2	12064372.67	12.06	2.56		
		411a	Patrickswell_1	11541064.22	11.54	2.45	97.85	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
26n	Wet upland shale hills and drift with siliceous stones lowlands	722c	Puckane_2	127568766.5	127.57	17.89		Ground-water & Surface-water Gleys on lower slopes, with Brown Earths and Brown Podzolics on better drained slopes; Upland (Blanket) Peat common with some Basin Peat and Podzols
		311f	Ballylanders	127493398.7	127.49	17.88		
		712a	Gortaclareen	124855344.8	124.86	17.51		
		911b	Aughty_1	98990136.29	98.99	13.88		
		722b	Puckane_1	51645434.43	51.65	7.24		
		511a	Cooga_1	38042058.81	38.04	5.33		
		911a	Allen	19173114.1	19.17	2.69		
		922a	Banagher_1	19090228.8	19.09	2.68		
		411x	Elton_1	17046363.02	17.05	2.39		
		632b	Knockastanna	16763138.94	16.76	2.35		
		913a	Turbary	12165663.06	12.17	1.71		
		513d	Knockaceol	11185176.85	11.19	1.57		
		822e	Shannon	7989808.793	7.99	1.12		
		513a	Knockboy	7788238.636	7.79	1.09	95.32	
		Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	
27	Limestone pavement (Burren)	213b	Burren rocky phase	310960126.6	310.96	55.81		Limestone pavement and Rendzinas, with Calcareous Brown Earths and Luvisols in drift; area locally known as 'The Burren'.
		211b	Kilcolgan	81419105.12	81.42	14.61		
		321c	Kinvarra	75947664.85	75.95	13.63		
		411a	Patrickswell_1	31278012.55	31.28	5.61		
		922a	Banagher_1	6740510.41	6.74	1.21		
		724a	Ballyshear	5555091.777	5.56	1.00	91.87	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
28	Dissected undulating land, drift with siliceous stones	511e	Ross Carbery	474873138	474.87	67.47		Brown Podzolics predominant on compact drift, with Blanket Peat on upper slopes and Lithosols on outcropping sandstone; Surface-water Gleys in lowland areas
		113b	Bantry	58656330.64	58.66	8.33		
		911d	Aughty_2	57538461.18	57.54	8.18		
		911a	Allen	36887386.24	36.89	5.24		
		712f	Driminidy	32696089.02	32.70	4.65		
		632e	Killinga	24283900.82	24.28	3.45	97.32	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
29n	Mountainous areas with peat and sandstone and sandstone and shale outcrops.	911d	Aughty_2	652601373.3	652.60	48.86		Upland Blanket Peat with extensive outcropping sandstone and shale bedrock with organic Lithosols and some Podzols; Humic Brown Earths on drift with siliceous stones on less steep slopes
		113b	Bantry	304585045.3	304.59	22.80		
		511e	Ross Carbery	179918902	179.92	13.47		
		712f	Driminidy	75517924.41	75.52	5.65		
		313c	Schull	58860020.12	58.86	4.41		
313d	Bantry Bay	54496968.14	54.50	4.08	99.27			
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
30	Drumlin areas with wet soils	711b	Kilrush	556493817.7	556.49	45.65		Surface-water Gleys predominant in drift with limestones, and in drift with siliceous stones; Basin Peat in depressions between drumlins
		711c	Drumkeeran	191401577.1	191.40	15.70		
		712e	Ballinamoore	163106975.7	163.11	13.38		
		712d	Gortaclareen	101571272.2	101.57	8.33		
		922a	Banagher_1	46991742.61	46.99	3.85		
		911a	Allen	35128355.09	35.13	2.88		
		911b	Aughty_1	30726267.08	30.73	2.52		
		411g	Mortarstown_2	26927050.24	26.93	2.21		
		514a	Corriga	21037614.44	21.04	1.73		
		712c	Howardstown_1	15225095.54	15.23	1.25		
		511a	Cooga_1	14553449	14.55	1.19	98.70	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
31n	Blanket Bog over Granite and associated acid igneous and metamorphic rocks	911b	Aughty_1	1693756651	1693.76	77.53		Deep Blanket Peat in uplands (>400m), and lowland (<400m) in West of Ireland (Donegal); some eroding and cutover Peat
		911c	Knockmealdown	237622998	237.62	10.88		
		113a	Carrigvahanagh	57054404.7	57.05	2.61		
		722e	Ballywilliam	29741785.62	29.74	1.36	92.38	
		913b	Aughty_Cutover	21007063.87	21.01	0.96		
		511b	Kiltealy	19112114.1	19.11	0.87		

Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
32	Mountainous areas with peat and podzols, Glays in lowland valleys	911b	Aughty_1	757735972.5	757.74	56.99		Blanket Peat on metamorphic, sandstone, shale & gneiss bedrock, blown sand (dunes) on the coast and some Podzols associated with the upland peat and outcropping rock
		911d	Aughty_2	387851527.3	387.85	29.17		
		211a	Seafield	62433142.45	62.43	4.70		
		632f	Drumsleed	35055213.94	35.06	2.64		
		821x	River Burren	28504950.12	28.50	2.14		
		311q	Aille	20750052.11	20.75	1.56	97.20	
		632e	Killinga	13141465.15	13.14	0.99		
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
33	Upland Blanket Peat and Stagno-Podzols	911b	Aughty_1	288855833	288.86	47.44		Upland Blanket Peat, commonly cut-over in West Mayo, interspersed with Stagno-Podzols
		632f	Drumsleed	221865496.4	221.87	36.44		
		632e	Killinga	26526845.25	26.53	4.36		
		611a	Black Rock Mountain	24605258.2	24.61	4.04		
		911d	Aughty_2	21818046.65	21.82	3.58		
		612a	Portlaw	9926823.358	9.93	1.63	97.49	
		211a	Seafield	5665719.378	5.67	0.93		
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
34	Limestone outcrops	311q	Aille	46282494.33	46.28	91.01		Brown Earths on limestone (not pavement) and Peat, some cutover
		913a	Turbary	2582699.727	2.58	5.08		
		911b	Aughty_1	1811861.196	1.81	3.56	99.65	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
35	Peat over rock	113a	Carrigvahanagh	594309070	594.31	47.02		Thin peat over rock (granite and acid metamorphic rocks) on steep exposed slopes, juxtaposed with deep Blanket Peat, some eroding and cutover in Galway and Donegal
		911b	Aughty_1	316683116	316.68	25.06		
		911c	Knockmealdown	266130116.7	266.13	21.06		
		913b	Aughty_Cutover	22093237.71	22.09	1.75		
		722e	Ballywilliam	15083794.91	15.08	1.19	96.08	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
36n	Valleys and depressions indrift from acid igneous rocks	311b	Kill_1	402996805.1	403.00	25.08		Predominantly Brown Earths and Brown Podzolic soils on acid igneous rocks (granite), with Surface- & Ground-water Glays; some Peat
		511b	Kiltealy	292214633.5	292.21	18.18		
		722e	Ballywilliam	284221415.6	284.22	17.69		
		711g	Tramore	145777214.9	145.78	9.07		
		712g	Gortaclareen_2	120790727.7	120.79	7.52		
		822a	Coolalough	94742725.9	94.74	5.90		
		911b	Aughty_1	73280148.87	73.28	4.56		
		911c	Knockmealdown	67213907.12	67.21	4.18		
		113a	Carrigvahanagh	49654747.54	49.65	3.09		
		722c	Puckane_2	39272230.23	39.27	2.44	97.71	
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
37n	Rocky outcrops in upland and lowland areas of NW Ireland with acid igneous and metamorphic rocks	911b	Aughty_1	295683341.9	295.68	26.78		Upland (>400m) and adjacent lowland (<400m) with dominantly shallow peat soils juxtaposed with Lithosols, Podzols Humic Ground-water Glays, Brown Podzolic soils, and occasionally Brown Earths where soil depth is slightly deeper; sand dunes and blown sandy soils in coastal areas
		632f	Drumsleed	159118902.1	159.12	14.41		
		113a	Carrigvahanagh	95441135.68	95.44	8.65		
		722d	Slieve Bloom	91736883.76	91.74	8.31		
		511f	Cooga_2	55354085.98	55.35	5.01		
		722b	Puckane_1	53878886.3	53.88	4.88		
		211a	Seafield	53540614.27	53.54	4.85		
		631a	Kiladoon	47784692.48	47.78	4.33		
		712g	Gortaclareen_2	35610826.4	35.61	3.23		
		722e	Ballywilliam	31922501.04	31.92	2.89		
		711g	Tramore	31597506.23	31.60	2.86		
		911c	Knockmealdown	30130708.7	30.13	2.73		
		311q	Aille	21452692.6	21.45	1.94		
		632e	Killinga	15501100.85	15.50	1.40		
		112d	Knockkeyon_2	11606045.33	11.61	1.05	93.34	
		913a	Turbary	10230690.12	10.23	0.93		
Soilscape	Description	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%	Soil conditions
39	Limestone drift and some blanket peat	712e	Ballinamoore	18983564.42	18.98	33.45		Humic Surface-water Glays, on drift with limestones and occasionally drift with siliceous stones, Rendzinas, Luvisols and Blanket Peat
		213a	Burren	13376218.96	13.38	23.57		
		911b	Aughty_1	10135570.5	10.14	17.86		
		411g	Mortarstown_2	9518481.888	9.52	16.77		
		712b	Cluggin	2705790.061	2.71	4.77		
		112b	Crumpoun	1894205.444	1.89	3.34	99.75	

## Annex I: Areal Extent and Component Associations

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
1b	411x	Elton_1	146705523.9	146.71	34.48	
1b	213a	Burren	79781523.46	79.78	18.75	
1b	411a	Patrickswell_1	43898384.14	43.90	10.32	
1b	822e	Shannon	41044551.34	41.04	9.65	
1b	922a	Banagher_1	29948488.38	29.95	7.04	
1b	911a	Allen	18916284.77	18.92	4.45	
1b	722b	Puckane_1	17536061.87	17.54	4.12	
1b	712a	Gortaclareen	9602297.574	9.60	2.26	
1b	211b	Kilcolgan	7531162.452	7.53	1.77	
1b	321c	Kinvarra	6659330.019	6.66	1.57	
1b	722c	Puckane_2	5214899.159	5.21	1.23	
1b	711b	Kilrush	4335512.98	4.34	1.02	96.65
1b	712c	Howardstown_1	2378297.367	2.38	0.56	
1b	724a	Ballyshear	2132243.86	2.13	0.50	97.71
1b	824a		2043344.032	2.04	0.48	
1b	213b		1729812.763	1.73	0.41	
1b	821d		1108446.108	1.11	0.26	
1b	321b		1093343.059	1.09	0.26	
1b	821e		933450.4786	0.93	0.22	
1b	911b		928043.4632	0.93	0.22	
1b	513a		483426.4471	0.48	0.11	
1b	513d		304818.4098	0.30	0.07	
1b	822f		296755.2157	0.30	0.07	
1b	313a		285442.3869	0.29	0.07	
1b	411c		240063.4518	0.24	0.06	
1b	913a		190302.9256	0.19	0.04	
1b	822a		70302.89544	0.07	0.02	
1b	311f		26894.85672	0.03	0.01	
1b	511a		25930.96035	0.03	0.01	
1b	Urban		4836790.264	4.84		
1b	WATER		12325452.5	12.33		

Green: Map units occupying more than 1.0% of the soilscape

Red: Map units occupying more than 0.5% but less than 1.0% of the soilscape

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
1cn	411a	Patrickswell_1	1409188735	1409.19	22.95	
1cn	411x	Elton_1	1399179810	1399.18	22.78	
1cn	411b	Patrickswell_2	531487666.6	531.49	8.65	
1cn	411c	Patrickswell_3	273033495.3	273.03	4.45	
1cn	712c	Howardstown_1	233881879.4	233.88	3.81	
1cn	414b	Rathowen_1	208258482.3	208.26	3.39	
1cn	414d	Fethard	182924185	182.92	2.98	
1cn	411h	Athy	156158439.4	156.16	2.54	
1cn	914a	Clonsast	130286515.2	130.29	2.12	
1cn	411d	Kellistown	128110630.9	128.11	2.09	
1cn	112a	Rineanna	126381110.9	126.38	2.06	
1cn	922a	Banagher_1	113830245.8	113.83	1.85	
1cn	321a	Baggotstown	106676066.3	106.68	1.74	
1cn	311g	Knocksquire	105877538.6	105.88	1.72	
1cn	911a	Allen	98129265.32	98.13	1.60	
1cn	723a	Mylerstown	72739266.55	72.74	1.18	
1cn	411f	Dunboyne	71329752.21	71.33	1.16	
1cn	711b	Kilrush	67710464.63	67.71	1.10	
1cn	821e	Boyne	63608574.32	63.61	1.04	89.21
1cn	711d	Straffan	58632242.67	58.63	0.95	
1cn	411e	Mortarstown_1	57236017.46	57.24	0.93	
1cn	822e	Shannon	54706943.18	54.71	0.89	
1cn	822f	Camoge	53231647.9	53.23	0.87	
1cn	913a	Turbary	53034193.83	53.03	0.86	
1cn	820	Undiff Alluvial Gley	42742262.03	42.74	0.70	
1cn	321b	Ballincurra	30570091.39	30.57	0.50	94.92
1cn	822a		28525953.13	28.53	0.46	
1cn	821c		27170339.38	27.17	0.44	
1cn	722a		24110426.04	24.11	0.39	
1cn	722b		22956464.35	22.96	0.37	
1cn	513d		22647990.02	22.65	0.37	
1cn	414a		21831557.28	21.83	0.36	
1cn	311e		14694722.85	14.69	0.24	
1cn	724a		14506478.99	14.51	0.24	
1cn	822b		13737584.1	13.74	0.22	
1cn	921a		13406884.92	13.41	0.22	
1cn	311b		12727652.73	12.73	0.21	
1cn	311c		11683976.51	11.68	0.19	
1cn	824a		10754604.76	10.75	0.18	
1cn	513b		10208745.53	10.21	0.17	
1cn	213a		10029739.12	10.03	0.16	
1cn	311o		8302032.198	8.30	0.14	
1cn	712a		6417578.456	6.42	0.10	
1cn	712b		5537958.749	5.54	0.09	
1cn	722c		5235809.139	5.24	0.09	
1cn	822c		5132783.644	5.13	0.08	
1cn	513c		4869341.484	4.87	0.08	
1cn	811a		4806928.103	4.81	0.08	
1cn	112c		3673961.043	3.67	0.06	
1cn	313a		3621965.044	3.62	0.06	
1cn	Isl		1631398.733	1.63	0.03	
1cn	911b		1357652.069	1.36	0.02	
1cn	311f		950457.7235	0.95	0.02	
1cn	511a		866084.4775	0.87	0.01	
1cn	414c		369840.4509	0.37	0.01	
1cn	513a		335119.247	0.34	0.01	
1cn	821f		158777.7447	0.16	0.00	
1cn	Urban		16246703.06	16.25		
1cn	WATER		148931150.9	148.93		

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
1dn	411c	Patrickswell_3	1133154668	1133.15	39.76	
1dn	911a	Allen	284145065.2	284.15	9.97	
1dn	414b	Rathowen_1	205553664.1	205.55	7.21	
1dn	922a	Banagher_1	196837702.3	196.84	6.91	
1dn	723a	Mylerstown	151995929	152.00	5.33	
1dn	914a	Clonsast	132013216.3	132.01	4.63	
1dn	411x	Elton_1	118672308.1	118.67	4.16	
1dn	724a	Ballyshear	84942429.6	84.94	2.98	
1dn	514a	Corriga	80392096.21	80.39	2.82	
1dn	411a	Patrickswell_1	75776811.56	75.78	2.66	
1dn	822f	Camoge	63546420.71	63.55	2.23	
1dn	711b	Kilrush	56997735.63	57.00	2.00	
1dn	913a	Turbary	40562707.7	40.56	1.42	
1dn	820	Undiff Alluvial Gley	35944963.24	35.94	1.26	93.35
1dn	824a	Drombanny	26494115.16	26.49	0.93	
1dn	821e	Boyne	25255931.36	25.26	0.89	
1dn	712c	Howardstown_1	23765488.92	23.77	0.83	
1dn	411e	Mortarstown_1	23525577.56	23.53	0.83	
1dn	411b	Patrickswell_2	14274796.22	14.27	0.50	97.32
1dn	712a		14014244.66	14.01	0.49	
1dn	722b		10787057.89	10.79	0.38	
1dn	811a		8877636.317	8.88	0.31	
1dn	311e		6242554.651	6.24	0.22	
1dn	311a		5360442.191	5.36	0.19	
1dn	311c		5328001.845	5.33	0.19	
1dn	812a		5107628.412	5.11	0.18	
1dn	721b		4404242.737	4.40	0.15	
1dn	712e		3262793.614	3.26	0.11	
1dn	921a		2596082.117	2.60	0.09	
1dn	513d		2437428.104	2.44	0.09	
1dn	821		2097906.235	2.10	0.07	
1dn	411h		1492236.063	1.49	0.05	
1dn	822a		1431096.759	1.43	0.05	
1dn	712d		1292321.017	1.29	0.05	
1dn	321a		1008675.764	1.01	0.04	
1dn	722c		250794.3224	0.25	0.01	
1dn	Isl		127257.5323	0.13	0.00	
1dn	311o		110856.6218	0.11	0.00	
1dn	513a		108127.4816	0.11	0.00	
1dn	513c		21213.9358	0.02	0.00	
1dn	821c		4371.212703	0.00	0.00	
1dn	711d		1920.525728	0.00	0.00	
1dn	NoData		1070498.785	1.07		
1dn	WATER		12738578.89	12.74		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
2b	511b	Kiltealy	98249803.89	98.25	20.47	
2b	311f	Ballylanders	98107871.57	98.11	20.44	
2b	512a	Clonegall	67522227.66	67.52	14.07	
2b	311h	Borris	61815818.48	61.82	12.88	
2b	113a	Carrigvahanagh	34864443.52	34.86	7.26	
2b	632b	Knockastanna	22951503.72	22.95	4.78	
2b	611a	Black Rock Mountain	18709045.43	18.71	3.90	
2b	722e	Ballywilliam	18481267.07	18.48	3.85	
2b	513c	Borrisoleigh	16625019.55	16.63	3.46	
2b	632a	Blackstairs	15808052.59	15.81	3.29	
2b	911b	Aughty_1	12736337.56	12.74	2.65	
2b	811a	Clohamon	6328348.055	6.33	1.32	
2b	311a	Clonroche	6308480.583	6.31	1.31	99.68
2b	411h	Athy	1555465.697	1.56	0.32	

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
2c	513c	Borrisoleigh	230035878.5	230.04	18.51	
2c	711b	Kilrush	183076858.8	183.08	14.73	
2c	722d	Slieve Bloom	126190304.9	126.19	10.15	
2c	511a	Cooga_1	97323534.92	97.32	7.83	
2c	632b	Knockastanna	96438210.59	96.44	7.76	
2c	911b	Aughty_1	86004335.79	86.00	6.92	
2c	712a	Gortaclareen	45128940.14	45.13	3.63	
2c	311a	Clonroche	41076685.3	41.08	3.31	
2c	113b	Bantry	40348881.88	40.35	3.25	
2c	722b	Puckane_1	34612165.53	34.61	2.79	
2c	411a	Patrickswell_1	28844933.74	28.84	2.32	
2c	913a	Turbary	28631666.47	28.63	2.30	
2c	821c	Feale	25011778.26	25.01	2.01	
2c	513d	Knockaceol	22536614.19	22.54	1.81	
2c	411c	Patrickswell_3	22290606.08	22.29	1.79	
2c	512a	Clonegall	18979852.84	18.98	1.53	
2c	513a	Knockboy	18679941.97	18.68	1.50	
2c	722c	Puckane_2	17400784.13	17.40	1.40	
2c	321a	Baggotstown	15339725.58	15.34	1.23	
2c	311c	Clashmore_1	13574154.33	13.57	1.09	
2c	922a	Banagher_1	13571681.54	13.57	1.09	96.97
2c	411x	Elton_1	9358974.722	9.36	0.75	
2c	311f	Ballylanders	7315451.639	7.32	0.59	
2c	632e	Killinga	6794871.593	6.79	0.55	98.86
2c	811a		5615542.66	5.62	0.45	
2c	311d		3912177.915	3.91	0.31	
2c	612a		2134707.559	2.13	0.17	
2c	820		883255.764	0.88	0.07	
2c	313c		798676.814	0.80	0.06	
2c	822f		755472.1689	0.76	0.06	
2c	822e		88133.08186	0.09	0.01	
2c	WATER		16714189.83	16.71		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
4	723a	Mylerstown	118196979.5	118.20	43.20	
4	722b	Puckane_1	66669374.04	66.67	24.36	
4	913a	Turbary	46636794.68	46.64	17.04	
4	914a	Clonsast	10770849.61	10.77	3.94	
4	922a	Banagher_1	9442184.848	9.44	3.45	
4	811a	Clohamon	5916604.881	5.92	2.16	
4	911a	Allen	4468992.653	4.47	1.63	
4	822f	Camoge	4097358.451	4.10	1.50	
4	321a	Baggotstown	3354290.001	3.35	1.23	98.51
4	821	Typical Alluvial Gley	1702125.034	1.70	0.62	
4	820	Undiff Alluvial Gley	1410413.714	1.41	0.52	99.65
4	722a		653491.9116	0.65	0.24	
4	411c		311106.0292	0.31	0.11	

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
5	411a	Patrickswell_1	236782420.2	236.78	35.67	
5	711b	Kilrush	108610721.4	108.61	16.36	
5	712e	Ballinamoor	72106798.63	72.11	10.86	
5	712a	Gortaclareen	42582004.94	42.58	6.41	
5	411c	Patrickswell_3	42146193.86	42.15	6.35	
5	311e	Kells	35268916.08	35.27	5.31	
5	321a	Baggotstown	34040057.23	34.04	5.13	
5	712c	Howardstown_1	26035734.22	26.04	3.92	
5	313a	Ashgrove	9480007.621	9.48	1.43	
5	213a	Burren	9080913.086	9.08	1.37	
5	411e	Mortarstown_1	7372032.154	7.37	1.11	
5	922a	Banagher_1	7275878.684	7.28	1.10	
5	811a	Clohamon	7243991.027	7.24	1.09	
5	911b	Aughty_1	6681680.424	6.68	1.01	97.12
5	821	Typical Alluvial Gley	4811082.91	4.81	0.72	
5	913a	Turbary	4348100.814	4.35	0.66	
5	311a	Clonroche	3863749.388	3.86	0.58	
5	911a	Allen	3675063.57	3.68	0.55	99.64
5	820		1145673.167	1.15	0.17	
5	822f		925170.6321	0.93	0.14	
5	822b		348256.4458	0.35	0.05	
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
6	711d	Straffan	587563871.3	587.56	77.58	
6	411x	Elton_1	100365258.9	100.37	13.25	
6	811a	Clohamon	35497984.51	35.50	4.69	
6	411h	Athy	10360102.99	10.36	1.37	96.89
6	411a	Patrickswell_1	6558973.461	6.56	0.87	
6	821e	Boyne	5870178.207	5.87	0.78	
6	311f	Ballylanders	5080580.607	5.08	0.67	
6	411f	Dunboyne	4032671.806	4.03	0.53	99.74
6	822f		1961804.805	1.96	0.26	
6	411c		41225.79808	0.04	0.01	
6	321a		3740.128699	0.00	0.00	
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
8	311h	Borris	145319316.6	145.32	28.11	
8	411d	Kellistown	93189371.66	93.19	18.03	
8	722e	Ballywilliam	73127314.36	73.13	14.15	
8	311l	Kennycourt	68994067.73	68.99	13.35	
8	411h	Athy	50163481.68	50.16	9.70	
8	722a	Newtown	42376517.81	42.38	8.20	
8	311f	Ballylanders	22651914.31	22.65	4.38	
8	411x	Elton_1	10718462.08	10.72	2.07	
8	822b	Millquarter	5190210.778	5.19	1.00	98.99
8	311g	Knocksquire	2990358.375	2.99	0.58	99.57
8	922a		1639915.425	1.64	0.32	
8	112e		570300.2679	0.57	0.11	

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
9e	311a	Clonroche	1148329447	1148.33	74.30	
9e	721a	Kilpierce	194119583.1	194.12	12.56	
9e	712a	Gortaclareen	39132112.51	39.13	2.53	
9e	513c	Borrisoleigh	25720176.85	25.72	1.66	
9e	411f	Dunboyne	24224271.37	24.22	1.57	
9e	612a	Portlaw	16596131.74	16.60	1.07	
9e	822g	Coolfin	15954910.94	15.95	1.03	94.73
9e	821a	Kilmannock	14110286.28	14.11	0.91	
9e	311f	Ballylanders	13145291.11	13.15	0.85	
9e	820	Undiff Alluvial Gley	12632213.87	12.63	0.82	
9e	711b	Kilrush	11945101.78	11.95	0.77	98.09
9e	513e		5732137.702	5.73	0.37	
9e	822b		5540186.444	5.54	0.36	
9e	311j		5259202.895	5.26	0.34	
9e	811a		3934916.787	3.93	0.25	
9e	711g		3210728.001	3.21	0.21	
9e	311c		2671334.767	2.67	0.17	
9e	611a		1152075.648	1.15	0.07	
9e	311m		992464.1933	0.99	0.06	
9e	721b		859096.1624	0.86	0.06	
9e	911c		219973.3421	0.22	0.01	
9e	511b		9411.847967	0.01	0.00	
9e	Urban		5896377.707	5.90		
9e	WATER		10343588.36	10.34		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
9f	311m	Kill_2	212351317.2	212.35	50.34	
9f	711g	Tramore	63845349.85	63.85	15.13	
9f	311a	Clonroche	37175359.51	37.18	8.81	
9f	711e	Clohernagh	36839494.53	36.84	8.73	
9f	311i	Broomhill	30028199.04	30.03	7.12	
9f	712a	Gortaclareen	16139848.64	16.14	3.83	
9f	822g	Coolfin	15135235.42	15.14	3.59	
9f	911c	Knockmealdown	4627776.825	4.63	1.10	98.65
9f	822d	Wexford slob	2888116.336	2.89	0.68	99.33
9f	711b		1731509.863	1.73	0.41	
9f	211a		835712.993	0.84	0.20	
9f	911b		243063.335	0.24	0.06	
9f	Urban		3525045.18	3.53		
9f	WATER		5885768.446	5.89		

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
10	711a	Macamore	214192553.1	214.19	27.27	
10	711b	Kilrush	188083512.6	188.08	23.94	
10	511c	Screen	120607729.6	120.61	15.35	
10	311c	Clashmore_1	87150597.29	87.15	11.09	
10	414a	Crosstown	30470284.46	30.47	3.88	
10	311j	Randallsmill	19505356.75	19.51	2.48	
10	311i	Broomhill	18809066.98	18.81	2.39	
10	820	Undiff Alluvial Gley	18579617.06	18.58	2.37	
10	822a	Coolalough	16885422.98	16.89	2.15	
10	632c	Forth Commons	16827457.92	16.83	2.14	
10	414d	Fethard	15577637.97	15.58	1.98	
10	314a	Moord	11513008.19	11.51	1.47	
10	211a	Seafield	9645598.236	9.65	1.23	97.74
10	722b	Puckane_1	7310245.822	7.31	0.93	
10	411b	Patrickswell_2	4854376.147	4.85	0.62	
10	513c	Borrisoleigh	4025447.761	4.03	0.51	99.81
10	311a		1526324.977	1.53	0.19	
10	WATER		3091394.614	3.09		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
11	822d	Wexford slob	20543741.33	20.54	61.52	
11	823a	Kilmore Slob	12848922.42	12.85	38.48	100.00
11	WATER		631004.5156	0.63		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
12a	513e	Knockboy	227570373.8	227.57	37.51	
12a	632d	Monavullagh	113315916.7	113.32	18.68	
12a	711f	Newport	97064301.27	97.06	16.00	
12a	612a	Portlaw	57462127.4	57.46	9.47	
12a	311c	Clashmore_1	42764462.01	42.76	7.05	
12a	911c	Knockmealdown	27659461.91	27.66	4.56	
12a	911b	Aughty_1	17667750.2	17.67	2.91	
12a	411f	Dunboyne	15599889.2	15.60	2.57	
12a	822g	Coolfin	7598624.734	7.60	1.25	100.00
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
15	311n	Clashmore_2	130895315.4	130.90	75.91	
15	822g	Coolfin	33618775.21	33.62	19.50	
15	1011a	Monatray	3795071.204	3.80	2.20	
15	314a	Moord	3244243.608	3.24	1.88	99.49
15	513e		541570.6037	0.54	0.31	
15	211a		342431.6531	0.34	0.20	
15	Urban		898712.7891	0.90		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
16	311c	Clashmore_1	155371860.5	155.37	41.17	
16	513e	Knockboy	63232139.96	63.23	16.76	
16	621a	Ahuan	39274945.5	39.27	10.41	
16	1011a	Monatray	27064283.95	27.06	7.17	
16	314a	Moord	22320790.05	22.32	5.92	
16	612a	Portlaw	19289349.14	19.29	5.11	
16	711f	Newport	14783117.58	14.78	3.92	
16	311d	Ballyvorheen	11597203.53	11.60	3.07	
16	311n	Clashmore_2	11417380.73	11.42	3.03	
16	722f	Puckane3	9577237.358	9.58	2.54	99.09
16	822g	Coolfin	2356380.371	2.36	0.62	99.72
16	513d		1063309.442	1.06	0.28	

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
17n	914a	Clonsast	659202776.7	659.20	46.12	
17n	911a	Allen	173852604.3	173.85	12.16	
17n	411a	Patrickswell_1	129354443.9	129.35	9.05	
17n	922a	Banagher_1	102007387.2	102.01	7.14	
17n	411x	Elton_1	72681955.98	72.68	5.08	
17n	411c	Patrickswell_3	62543120.27	62.54	4.38	
17n	820	Undiff Alluvial Gley	60187344.12	60.19	4.21	
17n	711b	Kilrush	47998294.6	48.00	3.36	
17n	321a	Baggotstown	30550445.76	30.55	2.14	
17n	824a	Drombanny	19643713.24	19.64	1.37	
17n	411e	Mortarstown_1	18543130.18	18.54	1.30	96.30
17n	414b	Rathowen_1	12132057.1	12.13	0.85	
17n	724a	Ballyshear	11322552.49	11.32	0.79	97.94
17n	723a		6519528.46	6.52	0.46	
17n	913a		6020496.525	6.02	0.42	
17n	411f		5702638.926	5.70	0.40	
17n	822f		5287992.729	5.29	0.37	
17n	712e		2878162.251	2.88	0.20	
17n	712c		1975997.57	1.98	0.14	
17n	821e		596652.7871	0.60	0.04	
17n	414d		243066.3111	0.24	0.02	
17n	411g		214242.8024	0.21	0.01	
17n	213a		2143.477333	0.00	0.00	
17n	Isl		536.79975	0.00	0.00	
17n	WATER		7420481.226	7.42		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
20n	722b	Puckane_1	84882142.02	84.88	29.34	
20n	712b	Cluggin	61977238.63	61.98	21.42	
20n	511a	Cooga_1	41931683.81	41.93	14.49	
20n	821e	Boyne	20691731.54	20.69	7.15	
20n	712a	Gortaclareen	18406806.13	18.41	6.36	
20n	414a	Crosstown	16167107.57	16.17	5.59	
20n	822e	Shannon	12901901.5	12.90	4.46	
20n	922a	Banagher_1	11439586.56	11.44	3.95	
20n	311d	Ballyvorheen	9431895.64	9.43	3.26	
20n	411x	Elton_1	9194669.565	9.19	3.18	99.21
20n	513d		941591.9833	0.94	0.33	
20n	913a		842902.1972	0.84	0.29	
20n	822a		441595.8052	0.44	0.15	
20n	112a		39910.87835	0.04	0.01	
20n	311f		13283.3253	0.01	0.00	
20n	WATER		2189232.297	2.19		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
22	311f	Ballylanders	70518986.8	70.52	33.87	
22	911b	Aughty_1	57147829.28	57.15	27.45	
22	722b	Puckane_1	39684186.22	39.68	19.06	
22	513d	Knockaceol	21096320.08	21.10	10.13	
22	411x	Elton_1	6618890.502	6.62	3.18	
22	632b	Knockastanna	6172540.443	6.17	2.96	
22	821f	Lyre	4585114.263	4.59	2.20	98.85
22	822c	Griston	1972304.062	1.97	0.95	99.80
22	311d		297546.7771	0.30	0.14	
22	321a		120084.2413	0.12	0.06	

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
23	712c	Howardstown_1	268786208.3	268.79	60.76	
23	411x	Elton_1	133146301.4	133.15	30.10	
23	822f	Camoge	19291393.22	19.29	4.36	
23	712b	Cluggin	6144364.776	6.14	1.39	96.62
23	712a	Gortaclareen	4201602.441	4.20	0.95	
23	722b	Puckane_1	3567430.285	3.57	0.81	
23	112a	Rineanna	2818210.266	2.82	0.64	99.01
23	513c		2111071.16	2.11	0.48	
23	513d		1082971.116	1.08	0.24	
23	313a		890094.9683	0.89	0.20	
23	321a		300447.8639	0.30	0.07	
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
24n	711b	Kilrush	932955821	932.96	48.97	
24n	911b	Aughty_1	318173227	318.17	16.70	
24n	513c	Borrisoleigh	199357741.8	199.36	10.46	
24n	913a	Turbary	130649812	130.65	6.86	
24n	313a	Ashgrove	106321732.2	106.32	5.58	
24n	314a	Moord	105419549.8	105.42	5.53	
24n	911a	Allen	48569757.68	48.57	2.55	96.66
24n	321c	Kinvarra	15910668.17	15.91	0.84	
24n	922a	Banagher_1	12270153.33	12.27	0.64	98.14
24n	411x		9231372.529	9.23	0.48	*
24n	632b		7147042.695	7.15	0.38	
24n	211a		4417851.459	4.42	0.23	
24n	213b		3447907.797	3.45	0.18	
24n	821e		3007793.096	3.01	0.16	
24n	411a		2208133.034	2.21	0.12	
24n	712c		1644078.53	1.64	0.09	
24n	822e		1300000.103	1.30	0.07	
24n	722b		664884.7792	0.66	0.03	
24n	513a		648340.6137	0.65	0.03	
24n	821c		637987.3045	0.64	0.03	
24n	211b		483753.6877	0.48	0.03	
24n	921a		238960.0642	0.24	0.01	
24n	821a		238532.1054	0.24	0.01	
24n	213a		127258.855	0.13	0.01	
24n	Urban		988076.6365	0.99		
24n	WATER		5995962.433	6.00		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
25	311e	Kells	272284949	272.28	57.83	
25	711b	Kilrush	146779996.7	146.78	31.18	
25	513b	Rathkenny	18020354.4	18.02	3.83	
25	411b	Patrickswell_2	12064372.67	12.06	2.56	
25	411a	Patrickswell_1	11541064.22	11.54	2.45	97.85
25	311g	Knocksquire	3657849.874	3.66	0.78	
25	821c	Feale	3399030.68	3.40	0.72	99.35
25	311b		1639440.901	1.64	0.35	
25	913a		672505.7033	0.67	0.14	
25	411x		457457.4423	0.46	0.10	
25	821e		291365.6591	0.29	0.06	

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
26n	722c	Puckane_2	127568766.5	127.57	17.89	
26n	311f	Ballylanders	127493398.7	127.49	17.88	
26n	712a	Gortaclareen	124855344.8	124.86	17.51	
26n	911b	Aughty_1	98990136.29	98.99	13.88	
26n	722b	Puckane_1	51645434.43	51.65	7.24	
26n	511a	Cooga_1	38042058.81	38.04	5.33	
26n	911a	Allen	19173114.1	19.17	2.69	
26n	922a	Banagher_1	19090228.8	19.09	2.68	
26n	411x	Elton_1	17046363.02	17.05	2.39	
26n	632b	Knockastanna	16763138.94	16.76	2.35	
26n	913a	Turbary	12165663.06	12.17	1.71	
26n	513d	Knockaceol	11185176.85	11.19	1.57	
26n	822e	Shannon	7989808.793	7.99	1.12	
26n	513a	Knockboy	7788238.636	7.79	1.09	95.32
26n	411c	Patrickswell_3	6269118.081	6.27	0.88	
26n	821f	Lyre	6078791.265	6.08	0.85	
26n	724a	Ballyshear	3923629.231	3.92	0.55	
26n	411a	Patrickswell_1	3824605.746	3.82	0.54	
26n	612a	Portlaw	3710243.391	3.71	0.52	98.66
26n	821c		2742288.328	2.74	0.38	
26n	822a		1430807.441	1.43	0.20	
26n	213a		1171529.068	1.17	0.16	
26n	632c		1097282.319	1.10	0.15	
26n	321c		929720.7658	0.93	0.13	
26n	824a		862035.0913	0.86	0.12	
26n	821d		846574.5297	0.85	0.12	
26n	211b		409767.3076	0.41	0.06	
26n	213b		81134.87409	0.08	0.01	
26n	WATER		9228479.641	9.23		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
27	213b	Burren rocky phase	310960126.6	310.96	55.81	
27	211b	Kilcolgan	81419105.12	81.42	14.61	
27	321c	Kinvarra	75947664.85	75.95	13.63	
27	411a	Patrickswell_1	31278012.55	31.28	5.61	
27	922a	Banagher_1	6740510.41	6.74	1.21	
27	724a	Ballyshear	5555091.777	5.56	1.00	91.87
27	824a	Drombanny	5413969.827	5.41	0.97	
27	911b	Aughty_1	4741632.619	4.74	0.85	
27	411x	Elton_1	4536498.559	4.54	0.81	
27	712c	Howardstown_1	4503691.094	4.50	0.81	
27	711b	Kilrush	4008963.599	4.01	0.72	
27	911a	Allen	3829087.523	3.83	0.69	
27	821e	Boyne	3186431.309	3.19	0.57	97.29
27	213a		2142834.83	2.14	0.38	
27	722c		787181.7563	0.79	0.14	
27	211a		669392.2025	0.67	0.12	
27	821a		538196.2045	0.54	0.10	
27	822f		429078.0276	0.43	0.08	
27	722b		342412.5109	0.34	0.06	
27	313a		27482.40869	0.03	0.00	
27	WATER		10160415.34	10.16		

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
28	511e	Ross Carbery	474873138	474.87	67.47	
28	113b	Bantry	58656330.64	58.66	8.33	
28	911d	Aughty_2	57538461.18	57.54	8.18	
28	911a	Allen	36887386.24	36.89	5.24	
28	712f	Driminidy	32696089.02	32.70	4.65	
28	632e	Killinga	24283900.82	24.28	3.45	97.32
28	722b	Puckane_1	6913850.889	6.91	0.98	
28	313c	Schull	4748248.42	4.75	0.67	
28	820	Undiff Alluvial Gley	4544654.963	4.54	0.65	99.62
28	1011a		1914754.008	1.91	0.27	
28	Rock		478369.393	0.48	0.07	
28	911c		271346.9924	0.27	0.04	
28	WATER		4112845.138	4.11		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
29n	911d	Aughty_2	652601373.3	652.60	48.86	
29n	113b	Bantry	304585045.3	304.59	22.80	
29n	511e	Ross Carbery	179918902	179.92	13.47	
29n	712f	Driminidy	75517924.41	75.52	5.65	
29n	313c	Schull	58860020.12	58.86	4.41	
29n	313d	Bantry Bay	54496968.14	54.50	4.08	99.27
29n	911a	Allen	8117113.768	8.12	0.61	99.88
29n	1011a		720157.3746	0.72	0.05	
29n	632e		564451.1249	0.56	0.04	
29n	Rock		315725.7821	0.32	0.02	
29n	722b		26.366102	0.00	0.00	
29n	WATER		2541119.489	2.54		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
30	711b	Kilrush	556493817.7	556.49	45.65	
30	711c	Drumkeeran	191401577.1	191.40	15.70	
30	712e	Ballinamoor	163106975.7	163.11	13.38	
30	712d	Gortaclareen	101571272.2	101.57	8.33	
30	922a	Banagher_1	46991742.61	46.99	3.85	
30	911a	Allen	35128355.09	35.13	2.88	
30	911b	Aughty_1	30726267.08	30.73	2.52	
30	411g	Mortarstown_2	26927050.24	26.93	2.21	
30	514a	Corriga	21037614.44	21.04	1.73	
30	712c	Howardstown_1	15225095.54	15.23	1.25	
30	511a	Cooga_1	14553449	14.55	1.19	98.70
30	511b		5050390.103	5.05	0.41	
30	513e		3383592.27	3.38	0.28	
30	112b		2136098.098	2.14	0.18	
30	213a		1683033.387	1.68	0.14	
30	513c		1503781.841	1.50	0.12	
30	712b		778672.0249	0.78	0.06	
30	414b		722198.8449	0.72	0.06	
30	822a		382871.3865	0.38	0.03	
30	Isl		165369.1911	0.17	0.01	
30	711g		29082.33745	0.03	0.00	
30	911c		26323.64219	0.03	0.00	
30	Urban		718439.6478	0.72		
30	WATER		65662345.95	65.66		

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
31n	911b	Aughty_1	1693756651	1693.76	77.53	
31n	911c	Knockmealdown	237622998	237.62	10.88	
31n	113a	Carrigvahanagh	57054404.7	57.05	2.61	
31n	722e	Ballywilliam	29741785.62	29.74	1.36	92.38
31n	913b	Aughty_Cutover	21007063.87	21.01	0.96	
31n	511b	Kiltealy	19112114.1	19.11	0.87	
31n	712e	Ballinamoor	14598446.4	14.60	0.67	
31n	822a	Coolalough	13562423.18	13.56	0.62	
31n	922a	Banagher_1	13553798.08	13.55	0.62	
31n	711c	Drumkeeran	12730524.42	12.73	0.58	
31n	411g	Mortarstown_2	12510988.22	12.51	0.57	
31n	911d	Aughty_2	11514401.7	11.51	0.53	97.80
31n	311b		9169988.354	9.17	0.42	
31n	711b		8587415.864	8.59	0.39	
31n	611a		7221048.331	7.22	0.33	
31n	711g		7075166.525	7.08	0.32	
31n	112b		6872333.3	6.87	0.31	
31n	712b		3843374.019	3.84	0.18	
31n	922b		1298389.886	1.30	0.06	
31n	821f		1280088.789	1.28	0.06	
31n	511a		1190166.904	1.19	0.05	
31n	211a		675325.2108	0.68	0.03	
31n	712c		240967.4349	0.24	0.01	
31n	513c		183392.8329	0.18	0.01	
31n	911a		148411.8474	0.15	0.01	
31n	213a		117830.833	0.12	0.01	
31n	311h		46048.68403	0.05	0.00	
31n	1011a		10116.82725	0.01	0.00	
31n	722a		8788.88467	0.01	0.00	
31n	Urban		1640213.281	1.64		
31n	WATER		26068450.84	26.07		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
32	911b	Aughty_1	757735972.5	757.74	56.99	
32	911d	Aughty_2	387851527.3	387.85	29.17	
32	211a	Seafield	62433142.45	62.43	4.70	
32	632f	Drumsleed	35055213.94	35.06	2.64	
32	821x	River Burren	28504950.12	28.50	2.14	
32	311q	Aille	20750052.11	20.75	1.56	97.20
32	632e	Killinga	13141465.15	13.14	0.99	
32	411f	Dunboyne	8394927.614	8.39	0.63	98.82
32	612a		6418152.145	6.42	0.48	
32	611a		5078064.805	5.08	0.38	
32	722b		3203517.538	3.20	0.24	
32	821a		643251.3063	0.64	0.05	
32	913a		192359.624	0.19	0.01	
32	Isl		161555.0239	0.16	0.01	
32	WATER		13896590.64	13.90		

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
33	911b	Aughty_1	288855833	288.86	47.44	
33	632f	Drumslead	221865496.4	221.87	36.44	
33	632e	Killinga	26526845.25	26.53	4.36	
33	611a	Black Rock Mountain	24605258.2	24.61	4.04	
33	911d	Aughty_2	21818046.65	21.82	3.58	
33	612a	Portlaw	9926823.358	9.93	1.63	97.49
33	211a	Seafield	5665719.378	5.67	0.93	
33	722b	Puckane_1	3662844.328	3.66	0.60	99.02
33	821x		2881522.983	2.88	0.47	
33	722c		2135400.686	2.14	0.35	
33	712g		543995.1484	0.54	0.09	
33	311q		208640.9765	0.21	0.03	
33	Isl		208021.6216	0.21	0.03	
33	WATER		14096087.15	14.10		
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
34	311q	Aille	46282494.33	46.28	91.01	
34	913a	Turbary	2582699.727	2.58	5.08	
34	911b	Aughty_1	1811861.196	1.81	3.56	99.65
34	722b		176551.2288	0.18	0.35	
Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
35	113a	Carrigvahanagh	594309070	594.31	47.02	
35	911b	Aughty_1	316683116	316.68	25.06	
35	911c	Knockmealdown	266130116.7	266.13	21.06	
35	913b	Aughty_Cutover	22093237.71	22.09	1.75	
35	722e	Ballywilliam	15083794.91	15.08	1.19	96.08
35	922a	Banagher_1	9561699.037	9.56	0.76	
35	511b		5984150.589	5.98	0.47	
35	711g		5489433.46	5.49	0.43	
35	822a		2416687.622	2.42	0.19	
35	Rock		2183441.572	2.18	0.17	
35	611a		2112352.183	2.11	0.17	
35	311b		1983291.746	1.98	0.16	
35	922b		1701610.953	1.70	0.13	
35	311h		1537385.413	1.54	0.12	
35	211a		1289394.905	1.29	0.10	
35	821f		1050473.359	1.05	0.08	
35	911d		673833.555	0.67	0.05	
35	823a		331968.394	0.33	0.03	
35	Urban		314808.7806	0.31		
35	WATER		12940117.66	12.94		

Soilscape	Map_Unit	Map_Unit Name	Area m2	Area km2	% land	Area>1%
36n	311b	Kill_1	402996805.1	403.00	25.08	
36n	511b	Kiltealy	292214633.5	292.21	18.18	
36n	722e	Ballywilliam	284221415.6	284.22	17.69	
36n	711g	Tramore	145777214.9	145.78	9.07	
36n	712g	Gortaclareen_2	120790727.7	120.79	7.52	
36n	822a	Coolalough	94742725.9	94.74	5.90	
36n	911b	Aughty_1	73280148.87	73.28	4.56	
36n	911c	Knockmealdown	67213907.12	67.21	4.18	
36n	113a	Carrigvahanagh	49654747.54	49.65	3.09	
36n	722c	Puckane_2	39272230.23	39.27	2.44	97.71
36n	722b		7838145.641	7.84	0.49	
36n	823a		6711006.667	6.71	0.42	
36n	611a		6424778.273	6.42	0.40	
36n	632f		3562763.051	3.56	0.22	
36n	821f		2804802.338	2.80	0.17	
36n	922a		1964670.432	1.96	0.12	
36n	311h		1799823.905	1.80	0.11	
36n	311q		1325669.412	1.33	0.08	
36n	722d		1202745.143	1.20	0.07	
36n	632e		1105039.931	1.11	0.07	
36n	913a		869364.8807	0.87	0.05	
36n	922b		653379.1357	0.65	0.04	
36n	Isl		221883.1249	0.22	0.01	
36n	411x		147297.8759	0.15	0.01	
36n	722a		105441.754	0.11	0.01	
36n	511f		101194.7446	0.10	0.01	
36n	631a		20499.39327	0.02	0.00	
36n	Urban		23328042.4	23.33		
36n	WATER		12934687.93	12.93		





