

SCHEDULE 1

Materials and Datasets.

List of Materials and Datasets pertaining to LandIS, with IPR ownership identified in square parenthesis []. Physical materials such as soil samples, publications and paper products are identified as MATERIALS.

Key to Owners:

- Crown – data originating from the Soil Survey of England and Wales (SSEW) pre 1987 or paid for by subsequent Defra projects.
 - CU – Cranfield University, including data originating from SSEW pre 1987.
 - MO – Meteorological Office
 - ADAS – Agricultural Development and Advisory Service
 - CEH – Centre for Ecology and Hydrology
 - JHI – James Hutton Institute
1. The National Soil Map
 - 1.1. MATERIALS - Published over 6 sheets each with an accompanying bulletin [Crown + CU].
 - 1.2. NATMAPvector is the re-digitised version including expansion of soil polygons into previously unsurveyed/urban areas [CU].
 - 1.3. NATMAP1000, NATMAP2000, NATMAP5000 – gridded summaries of NATMAPvector [CU]
 - 1.4. National Soil Map Legend and Associations [Crown + CU]
 - 1.5. Soilscales – reclassification of the National Soil Map [Crown + CU]
 2. The National Soil Inventory
 - ~6000 sites on a 5km grid.
 - 2.1. Field record cards (all digitised) – Site and Profile data [Crown + CU]
 - 2.2. Laboratory Analysis – Original analyses (Total P, K, Mg, Al, Ba, Ca, Fe, Na, Sr, Cd, Cr, Cu, Pb, Ni, Zn, Organic Carbon) [Crown + CU]
 - 2.3. Laboratory Analysis – Original analyses (Extractable Cd, Co, Cu, Pb, Ni, Zn, Mn) [Crown + CU]
 - 2.4. Laboratory Analysis – Original analyses (Extractable P, Mg, K, soil pH) [Crown]
 - 2.5. Laboratory Analysis – Additional Elements (As, Hg, Se, V, F) [Crown + CU]
 - 2.6. Laboratory Analysis – Texture [Crown + CU]
 - 2.7. Resurvey of selected sites (1997- 2003) + analyses [CU]
 - 2.8. Magnetic analyses [CU performed by Coventry University]
 - 2.9. MATERIALS - Physical Soil Samples (topsoil only) [Crown + CU]
 3. Soil Classification
 - 3.1. Soil series Definition (TM 14/17) [Crown + CU]
 - 3.2. Soil series hydrological and agronomic properties [Crown + CU]
 - 3.3. Soil series HOST (CU, CEH and JHI)
 - 3.4. Standardised soil series fundamental and hydraulic properties (HORIZON) [Crown + CU]
 - 3.5. Soil series risk properties (pesticide, shrink/swell, Nitrogen) [CU]
 - 3.6. World Reference Base classification [CU]
 4. Agroclimatic Data
 - 4.1. 5km Climatology data for Agricultural Land Classification [Crown + CU + MO]

- 4.2. 1 km and 5 km agroclimatic data (Rain, FC, MD) [Crown + CU + MO]
- 4.3. Field Capacity Zone map (vectorised from 1km gridded data) [CU]
- 4.4. 5km UKCP09 climate data [Crown + ADAS + MO, created for SP1104 held by CU]
- 4.5. T200 Climate Station and Temperature data [Crown]
- 5. Soil Profiles
 - 5.1. MATERIALS - Physical soil samples from soilpits [Crown + CU]
 - 5.2. MATERIALS – Profile descriptions (paper based) [Crown + CU]
 - 5.3. Laboratory Analysis (texture, organic carbon, pH plus others) [Crown + CU]
 - 5.4. Analyses of Hydrological properties [Crown + CU]
- 6. Auger bores and field records
 - 6.1. MATERIALS - Auger bore cards (not all digitised) [Crown + CU]
 - 6.2. Digitised auger bore records [Crown + CU]
 - 6.3. Digitised auger bore records collected for specific MAFF projects (including Lowland Peat Survey) [Crown]
 - 6.4. MATERIALS - Older record formats and field notebooks (paper based) [Crown + CU]
- 7. Soil Publications (Monographs, Bulletins and Records)
 - 7.1. MATERIALS - Store of books for sale, Bulletins, Monographs and Records (CU)
 - 7.2. Scanned copies of selected technical monographs (CU)
 - 7.3. E-books (CU)
- 8. Regional Soil Mapping
 - 8.1. MATERIALS - Store of published maps in folded and flat format (CU)
 - 8.2. Scanned and digitised copies of detailed map sheets (still requiring some validation) (CU)
- 9. Farm Surveys
 - 9.1. MATERIALS - Unpublished farm and local area reports (CU)
 - 9.2. Scanned farm maps (CU)
- 10. Interpreted maps
 - 10.1. Topsoil and Subsoil Texture (based on NATMAPvector and HORIZONfundamentals) [Crown + CU]
 - 10.2. Carbon Stock (based on NATMAPvector and HORIZONfundamentals) [Crown + CU]
 - 10.3. Available Water (based on NATMAPvector and SOILSERIESagronomy) [Crown + CU]
 - 10.4. Wetness class (based on NATMAPvector and Field Capacity Zone map) [Crown + CU]
 - 10.5. World Reference Base (reclassification of NATMAPvector) [CU]
 - 10.6. NATMAPhost (based on NATMAPvector and SOILSERIEShydrology) [CU]