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LUCAS SURVEY2015 WEB CSV Record Descriptor

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1 SCOPE AND INTRODUCTION

This document is part of a series of reference documents defining the framework of the Land Use / Cover Area frame statistical Survey (LUCAS). The LUCAS reference documents are periodically improved and adapted taking into account the experience from the implemented surveys and the requirements of the LUCAS data & information users.

LUCAS is co-ordinated by The Statistical Office of the European Commission (Eurostat).

The Commission uses the micro data collected in the LUCAS survey to produce land cover and land use aggregated statistical tables and to calculate Sustainable Development Indicators and Land take (these indicators are used in monitoring the implementation of the Europe 2020 strategy). Landscape indicators are also derived from the data collected in the survey.

LUCAS micro data is also used for Agro Environmental Indicators (AEI), LULUCF (land use, land use change and forestry) indicators, for Europe Resource Efficiency indicators.

Moreover in the context of the Copernicus programme CORINE Land Cover (CLC) and other Pan-EU land cover mapping initiatives, such as the Copernicus HRL (High Resolution Layers), LUCAS micro data and photos¹ are used for production, verification and validation processes.

More information on land cover/use statistics and on LUCAS in general can be found on the Eurostat website: <http://epp.eurostat.ec.europa.eu/portal/page/portal/lucas/introduction>.

The LUCAS sampling is based on two-phase sampling with stratification of the master sample of points.

i) First Phase (Master grid): The LUCAS master is obtained using a 4 Km² grid (2x2 km) which includes around 1.100.000 points covering the EU-28 territory. Each of these points is classified into k land cover categories (the strata) on the basis of photointerpretation of aerial photos or satellite images. In 2005 these points in the master were stratified into 7 aggregated strata.

ii) Second Phase (Sample): The final field sample is a sub-selection of the master. Samples of n points, out of N, is selected by strata and by NUTS2 and the n points are visited in order to determine the land cover and land use at a more detailed level. The final aim of this strategy is to estimate the coverage of the full list of categories included in the LUCAS land cover and land use classification over the whole study area. In this way, it is possible to combine the information resulting from the photointerpretation with the information collected during the ground inspection of a portion of the N points selected in the first phase.

The final statistical estimates are based on the weights derived both from the master and the field observations collected on the field.

This document provides record descriptor of the LUCAS CSV files on web page <http://ec.europa.eu/eurostat/web/lucas/data/primary-data>.

2 RECORD DESCRIPTOR

Each field description contains a table indicating if the field was taken in respective campaigns. This document describes fields related to the Survey 2015. Previous year Survey are accessible on [LUCAS](#) Section of RAMON - Reference And Management Of Nomenclatures on Eurostat's Metadata Server

¹ Point and landscape photos in the four cardinal directions collected during the LUCAS in-situ survey

2.1 POINT_ID

2006	2009	2012	2015
X	X	X	X

Is unique identifier. It is a 8 digits integer number. First 4 digits are X_LAEA (in km) and other 4 digits are Y_LAEA (in km)

2.2 NUTS0

2006	2009	2012	2015
X	X	X	X

Alphanumerical string 2 chars long. It indicates Nuts level 0, 1 and 2. Source official GISCO 2013

2.3 NUTS1

See point 2.2 above.

2.4 NUTS2

See point 2.2 above.

2.5 TH_LAT

2.6 TH_LONG

2006	2009	2012	2015
X	X	X	X

Number decimal. Theoretical latitude and longitude of the point in the LUCAS grid.

2.7 DATE

2006	2009	2012	2015
X	X	X	X

Date when survey was done. Format is DD/MM/YYYY

2.8 OBS_TYPE

2006	2009	2012	2015
X	X	X	X

In Survey 2015, Integer value. Range is 1 to 7

- 1- Field survey, point visible, 0-100m to pt
- 2- Field survey, point visible, >100 m to pt
- 3- Photo-interpretation, point not visible
- 4- Point not observed. PI not possible
- 5- Marine sea
- 6- Out of national territory
- 7- ExAnte photo-interpretation

See also [RAMON](#)

2.9 PI_EXTENTION

2006	2009	2012	2015
			X

Is a numeric integer value. Value range is
0 (false) point on first sample of the survey
1 (true) point on extend part of survey (Photo-Interpreted).

2.10 GPS_PROJ

2006	2009	2012	2015
X	X	X	X

Integer value. GPS projection system
1 – WGS84
2 – GPS not working
8 – Not relevant

2.11 GPS_PREC

2006	2009	2012	2015
X	X	X	X

Integer. Indicates precision in meters of GPS during the survey. 8888 = Not Relevant

2.12 GPS_LAT

2006	2009	2012	2015
X	X	X	X

Number decimal. Is the GPS latitude and longitude of reached point 88.88888 = Not Relevant

2.13 GPS_LONG

See point 2.12 above.

2.14 GPS_ALTITUDE

2006	2009	2012	2015
	X	X	X

Integer. GPS altitude of reached point in meters. 8888 = Not Relevant

2.15 OBS_DIST

2006	2009	2012	2015
	X	X	X

Integer. Distance between theoretical and reached point in meters. 8888 = Not Relevant

2.16 OBS_DIR

2006	2009	2012	2015
	X	X	X

Integer. Direction of observation in case of linear feature.

- 1 – On the point
- 2 – North
- 3 – East
- 8 – Not Relevant

2.17 LC1

2006	2009	2012	2015
X	X	X	X

Alphanumeric string 3 chars length. Land Cover 1. See table 1 – Land cover classification and [RAMON](#)

2.18 LC1_SPECIES

2006	2009	2012	2015
	X	X	X

Alphanumeric string 4 chars length. Land Cover 1 Species. See table 2 – Land cover species classification and [RAMON](#)

2.19 LC1_PCT

2006	2009	2012	2015
	X	X	X

Integer. Percentage of land cover 1 coverage.

- 1 - %LC < 5
- 2 - $5 \leq \%LC < 10$
- 3 - $10 \leq \%LC < 25$
- 4 - $25 \leq \%LC < 50$
- 5 - $50 \leq \%LC < 75$
- 6 - $75 \leq \%LC < 90$
- 7 - %LC ≥ 90
- 8 – Not Relevant

2.20 LC2

2006	2009	2012	2015
X	X	X	X

Alphanumeric string 3 chars length. Land Cover 2 See table 1 – Land cover classification and [RAMON](#)

2.21 LC2_SPECIES

2006	2009	2012	2015
	X	X	X

Alphanumeric string 4 chars length. Land Cover 2 Species. See table 2 – Land cover species classification and [RAMON](#)

2.22 LC2_PCT

2006	2009	2012	2015
	X	X	X

Integer. Percentage of land cover 2 coverage.

1 - $\%LC < 5$

2 - $5 \leq \%LC < 10$

3 - $10 \leq \%LC < 25$

4 - $25 \leq \%LC < 50$

5 - $50 \leq \%LC < 75$

6 - $75 \leq \%LC < 90$

7 - $\%LC \geq 90$

8 - Not Relevant

2.23 OBS_RADIUS

2006	2009	2012	2015
X	X	X	X

Integer. Radius of observation circle.

1 - 3 meters

2 - 20 meters

8 - Not Relevant

2.24 LU1

2006	2009	2012	2015
X	X	X	X

Alphanumerical string 4 chars length. Land Use 1. See table 3 – Land use classification and [RAMON](#)

2.25 LU1_TYPE

2006	2009	2012	2015
			X

Alphanumerical string 5 chars length. Land Use 1 Type. See table 4 – Land use type classification

2.26 LU1_PCT

2006	2009	2012	2015
			X

Integer. Percentage of land use 1 coverage.

1 - $\%LU < 5$

2 - $5 \leq \%LU < 10$

3 - $10 \leq \%LU < 25$

4 - $25 \leq \%LU < 50$

5 - $50 \leq \%LU < 75$

6 - $75 \leq \%LU < 90$

7 - $\%LU \geq 90$

8 - Not Relevant

2.27 LU2

2006	2009	2012	2015
X	X	X	X

Alphanumerical string 4 chars length. Land Use 2. See table 3 – Land use classification and [RAMON](#)

2.28 LU2_TYPE

2006	2009	2012	2015
			X

Alphanumerical string 5 chars length. Land Use 2 Type. See table 4 – Land use type classification

2.29 LU2_PCT

2006	2009	2012	2015
			X

Integer. Percentage of land use 1 coverage.

- 1 - $\%LU < 5$
- 2 - $5 \leq \%LU < 10$
- 3 - $10 \leq \%LU < 25$
- 4 - $25 \leq \%LU < 50$
- 5 - $50 \leq \%LU < 75$
- 6 - $75 \leq \%LU < 90$
- 7 - $\%LU \geq 90$
- 8 – Not Relevant

2.30 AREA_SIZE

2006	2009	2012	2015
	X	X	X

Integer. Plot area in (ha):

- 1 - $area < 0.5$
- 2 - $0.5 \leq area < 1$
- 3 - $1 \leq area < 10$
- 4 - $area \geq 10$
- 8 – Not Relevant

2.31 TREE_HEIGHT_MATURITY

2006	2009	2012	2015
		X	X

Integer. Height of trees at maturity:

- 1 - < 5 m
- 2 - ≥ 5 m
- 8 – Not Relevant

2.32 TREE_HEIGHT_SURVEY

2006	2009	2012	2015
	X	X	X

Integer. Height of trees at moment of survey:

- 1 - < 5 m
- 2 - ≥ 5 m
- 8 - Not Relevant

2.33 FEATURE_WIDTH

2006	2009	2012	2015
	X	X	X

Integer. Width of feature:

- 1 - < 20 m
- 2 - ≥ 20 m
- 8 - Not Relevant

2.34 LAND_MNGT

2006	2009	2012	2015
	X	X	X

Integer. Land management

- 1 - Visible signs of grazing
- 2 - No signs of grazing
- 8 - Not Relevant

2.35 LC_LU_SPECIAL_REMARK

2006	2009	2012	2015
		X	X

Integer. Special remark of LC/LU:

- 1 - Tilled and/or sowed
- 2 - Harvested field
- 3 - Clear cut
- 4 - Burnt area
- 5 - Fire break
- 6 - Nursey
- 7 - No remark
- 8 - Not Relevant
- 9 - Temporarily dry (river bed / lake)
- 10 - Temporarily flooded

See [RAMON](#)

2.36 PROTECTED_AREA

2006	2009	2012	2015
		X	X

Integer. Special status:

- 1 – Protected
- 2 – Hunting
- 3 – Protected and hunting
- 4 – No Special Status
- 8 – Not Relevant

2.37 WM

2006	2009	2012	2015
	X	X	X

Integer. Presence of Water management:

- 1 – Irrigation
- 2 – Potential irrigation
- 3 – Drainage
- 4 – Irrigation and drainage
- 5 – No visible water management
- 8 – Not Relevant

2.38 WM_SOURCE

2006	2009	2012	2015
	X	X	X

Integer. Water management – Source of irrigation

- 1 – Well
- 2 – Pond/Lake/Reservoir
- 3 – Stream/Canal/Ditch
- 4 – Lagoon/Wastewater
- 5 – Other/not identifiable
- 8 – Not Relevant

2.39 WM_TYPE

2006	2009	2012	2015
	X	X	X

Integer. Water Management – Type of irrigation

- 1 – Gravity
- 2 – Pressure: Sprinkler irrigation
- 3 – Pressure: Micro-irrigation
- 4 – Gravity/Pressure
- 5 – Other/not identifiable
- 8 – Not Relevant

2.40 WM_DELIVERY

2006	2009	2012	2015
	X	X	X

Integer. Water Management – Delivery system

- 1 – Canal
- 2 – Ditch
- 3 – Pipeline
- 5 – Other/not identifiable
- 8 – Not Relevant

2.41 SOIL_TAKEN

2006	2009	2012	2015
	X	X	X

Integer. Soil is taken?

- 1 – Yes
- 2 – Not possible
- 3 – No, already taken
- 4 – No sample required
- 8 – Not Relevant

2.42 SOIL_PLOUGH

2006	2009	2012	2015
	X	X	X

Integer. Sign of ploughing

- 1 – Yes
- 2 – No
- 8 – Not Relevant

2.43 SOIL_CROP

2006	2009	2012	2015
	X	X	X

Integer. Percentage of residual crop:

- 1 – %RC < 10
- 2 - $10 \leq \%RC < 25$
- 3 - $10 \leq \%RC < 25$
- 4 - %RC ≥ 50
- 8 – Not Relevant

2.44 SOIL_STONES

2006	2009	2012	2015
	X	X	X

Integer. Percentage of stones:

- 1 - %S < 10
- 2 - $10 \leq \%S < 25$
- 3 - $10 \leq \%S < 25$
- 4 - %S ≥ 50
- 8 - Not Relevant

2.45 PHOTO_P

2006	2009	2012	2015
X	X	X	X

Integer. Photo Point, North, East, South and West

- 1 - Taken
- 2 - Not taken
- 8 - Not Relevant

2.46 PHOTO_N

See point 2.45 above.

2.47 PHOTO_E

See point 2.45 above.

2.48 PHOTO_S

See point 2.45 above.

2.49 PHOTO_W

See point 2.45 above.

2.50 INSPIRE_PLCC1

2006	2009	2012	2015
			X

Integer. Percentage of

- Coniferous forest trees
- Percentage of Broadleaved forest trees
- Shrubs
- Herbaceous plants
- Lichens and mosses
- Consolidated (bare) surface
- Unconsolidated (bare) surface
- Other.

Range 0 to 100 step 5%

2.51 INSPIRE_PLCC2

See point 2.50 above.

2.52 INSPIRE_PLCC3

See point 2.50 above.

2.53 INSPIRE_PLCC4

See point 2.50 above.

2.54 INSPIRE_PLCC5

See point 2.50 above.

2.55 INSPIRE_PLCC6

See point 2.50 above.

2.56 INSPIRE_PLCC7

See point 2.50 above.

2.57 INSPIRE_PLCC8

See point 2.50 above.

2.58 TRANSECT

2006	2009	2012	2015
X	X	X	X

String. Length variable from 1 to 269 chars. Transect sequence. Codes separated by semicolon. See Table 1 – Land Cover classification and Table 5 – Linear features codes and [RAMON](#)

3 ANNEXES

3.1 Table 1 – Land cover classification

A11	Buildings with one to three floors
A12	Buildings with more than three floors
A13	Greenhouses
A21	Non built-up area features
A22	Non built-up linear features
A30	Other artificial areas
B11	Common wheat
B12	Durum wheat
B13	Barley
B14	Rye
B15	Oats
B16	Maize
B17	Rice
B18	Triticale
B19	Other cereals
B21	Potatoes
B22	Sugar beet
B23	Other root crops
B31	Sunflower
B32	Rape and turnip rape
B33	Soya
B34	Cotton
B35	Other fibre and oleaginous crops
B36	Tobacco
B37	Other non-permanent industrial crops
B41	Dry pulses
B42	Tomatoes
B43	Other fresh vegetables
B44	Floriculture and ornamental plants
B45	Strawberries
B51	Clovers
B52	Lucerne
B53	Other leguminous and mixtures for fodder
B54	Mixed cereals for fodder

B55	Temporary grasslands
B71	Apple fruit
B72	Pear fruit
B73	Cherry fruit
B74	Nuts trees
B75	Other fruit trees and berries
B76	Oranges
B77	Other citrus fruit
B81	Olive groves
B82	Vineyards
B83	Nurseries
B84	Permanent industrial crops
Bx1	Temporary crops photointerpreted
Bx2	Permanent crops photointerpreted
C10	Broadleaved woodland
C21	Spruce dominated coniferous woodland
C22	Pine dominated coniferous woodland
C23	Other coniferous woodland
C31	Spruce dominated mixed woodland
C32	Pine dominated mixed woodland
C33	Other mixed woodland
D10	Shrubland with sparse tree cover
D20	Shrubland without tree cover
E10	Grassland with sparse tree/shrub cover
E20	Grassland without tree/shrub cover
E30	Spontaneously re-vegetated surfaces
F10	Rocks and stones
F20	Sand
F30	Lichens and moss
F40	Other bare soil
G11	Inland fresh water bodies
G12	Inland salty water bodies
G21	Inland fresh running water
G22	Inland salty running water
G30	Transitional water bodies
G50	Glaciers, permanent snow

H11	Inland marshes
H12	Peatbogs
H21	Salt marshes
H22	Salines and other chemical deposits
H23	Intertidal flats

3.2 Table 2 – Land cover species classification

B19a	Sorghum
B19b	Buckwheat
B19c	Common, golden or proso millet
B19d	Canary grass
B19f	Quinoa
B19g	Fonio
B19h	Other cereals not specified elsewhere
B23a	Fodder beet
B23b	Fodder kale
B23c	Swedes
B23d	Carrots
B23e	Turnips
B23f	Jerusalem artichoke
B23g	Sweet potatoes
B23h	Fodder parsnips
B23i	Yam
B23j	Manioc, Cassava
B23k	Horseradish
B23l	Tuberous chervil
B23m	Other tropical tubers
B23n	Other root or tuber crops not specified elsewhere
B35a	Flax
B35b	Hemp
B35c	Poppy seeds
B35d	Mustard seeds
B35e	Safflower
B35f	Earth almond
B35g	Sesame
B35h	Jute

B35i	Ramie
B35j	Sisal
B35k	Kenaf
B35l	Bird rape
B35m	Castor beans
B35n	Other fibre and oleaginous crops not elsewhere specified
B37a	Chicory roots
B37b	Hops
B37c	Medicinal plants
B37d	Spices and aromatic plants
B37e	Sugar cane
B37f	Other non-permanent industrial crops not specified elsewhere
B43a	Brassicas
B43b	Leaf and stalked vegetables other than brassicas
B43c	Leguminous vegetables, including production for tins
B43e	Vegetables cultivated for fruit other than tomatoes
B43f	Cultivated mushrooms
B43g	Wild products
B43h	Other fresh vegetables not specified elsewhere
B53a	Sainfoin
B53b	Sweet clover or Trefoil
B53c	Chickling vetch
B53d	Black medick
B53e	Melilot
B53f	Serradella
B53g	Fenugreek
B53h	Sulla
B53i	Sweet lupins
B53j	California bluebell
B53k	Other leguminous and mixtures for fodder not specified elsewhere
B75a	Apricot
B75b	Cornel
B75c	Figs
B75d	Juneberry
B75e	Kiwi
B75f	Loquat

B75g	Medlar
B75h	Mirabella
B75i	Peach, nectarine, platerine
B75j	Persimons
B75k	Plums
B75l	Pomegranates
B75m	Oleaster
B75n	Quinces
B75o	Sloes
B75p	Small fruits and berries
B75q	Tropical fruits
B75r	Other fruit trees and berries not specified elsewhere
B77a	Bergamot
B77b	Citron
B77c	Grapefruit and pomelo
B77d	Lemons
B77e	Limes
B77f	Satsumas
B77g	Mandarines
B77h	Clementines
B77i	Kumquats
B77j	Citrus orchards
B77k	Other citrus fruit not specified elsewhere
B83a	Horticultural nurseries
B83b	Vine and root-stock nurseries
B83c	Fruit trees nurseries
B83d	Ornamental plants nurseries
B83e	Trees and bushes nurseries
B83f	Forest tree nurseries
B83g	Other, non-specialized nurseries
B84a	Reeds, canary grass when cultivated and not natural
B84c	Coffee
B84d	Tea
B84e	Other industrial plants for beverages
B84f	Industrial plants for oil
B84g	Permanent aromatic plants

B84h	Permanent textile plants
B84i	Plants for rubber and tannin
B84j	Rose trees cultivated for rose-oil production (not as ornamental plants)
B84k	Other permanent industrial crops
B84l	Miscanthu
B84m	Willow
Cxx1	Boreal forest
Cxx2	Hemiboreal forest and nemoral coniferous forest and mixed broadleaved coniferous forest
Cxx3	Alpine coniferous forest
Cxx4	Acidophilous oak and oak-birch forest
Cxx5	Mesophytic deciduous forest
Cxx6	Beech forest
Cxx7	Mountainous beech forest
Cxx8	Thermophilous deciduous forest
Cxx9	Broadleaved evergreen forest
CxxA	Coniferous forest of the Mediterranean region
CxxB	Mire and swamp forests
CxxC	Floodplain forest
CxxD	Non-riverine alder, birch or aspen forest
CxxE	Exotic forest

3.3 Table 3 – Land use classification

U111	Agriculture (excluding fallow land and kitchen gardens)
U112	Fallow land
U113	Kitchen garden
U120	Forestry
U130	Aquaculture and Fishing
U140	Mining and quarrying
U150	Other primary production
U210	Energy production
U221	Manufacturing of food, beverages and tobacco products
U222	Manufacturing of textile products
U223	Coal, oil and metal processing
U224	Production of non-metal mineral goods
U225	Chemical and allied industries and manufacturing

U226	Machinery and equipment
U227	Wood based products
U228	Printing and reproduction
U311	Railway transport
U312	Road transport
U313	Water transport
U314	Air transport
U315	Transport via pipelines
U316	Telecommunication
U317	Logistics and storage
U318	Protection infrastructures
U319	Electricity, gas and thermal power distribution
U321	Water supply and treatment
U322	Waste treatment
U330	Construction
U341	Commerce
U342	Financial, professional and information services
U350	Community services
U361	Amenities, museums, leisure
U362	Sport
U370	Residential
U410	Abandoned areas
U420	Semi-natural and natural areas not in use

3.4 Table 4 – Land use type classification

U221L	Manufacture of food products, beverages, tobacco products
U222R	Tanning and dressing of leather, manufacture of textiles
U222L	Manufacture of household linen, blankets, carpets and rugs, ropes, shoe laces, wearing apparel, luggage, handbags, saddlery and harness, footwear
U223R	Manufacture of coke and refined petroleum products, basic metals, fabricated metal products, except machinery and equipment
U223H	Manufacture of weapons and ammunition
U224R	Manufacture of glass and glass products, refractory products, clay building materials, other porcelain and ceramic products, cement, lime and plaster, articles of concrete, cement and plaster, abrasive products and non-mentioned elsewhere; Cutting, shaping and finishing of stone
U225R	Manufacture of chemicals and chemical products, basic pharmaceutical

	products, rubber and plastic products
U225L	Pharmaceutical preparations
U226L	Manufacture of computer, electronic and optical products, other electrical equipment, machinery and equipment not specified elsewhere, namely office machinery and equipment (except computers and peripheral equipment), furniture, including wooden furniture
U226H	Manufacture of domestic appliances, machinery and equipment not specified elsewhere, including engines, turbines, ovens, furnaces, cranes, elevators, cooling and ventilation equipment, agriculture and forestry machinery, etc., motor vehicles, trailers and semi-trailers, other transport equipment
U227R	Manufacture of wood and of products of wood and cork (except furniture), paper and paper products
U228L	Printing of products and associated support activities such as bookbinding, plate-making services, and data imaging; Reproduction of recorded media

3.5 Table 5 – Linear feature codes

01	Grass margins
02	Shrubby margins
10	Single bushes/trees
11	Lines of trees
12	Conifer hedges
13	Managed hedges
14	Abandoned hedges
15	Groves
21	Dry stone walls
22	Artificial constructions
23	Fences
24	Electric lines
31	Ditches and canals
32	Rivers and streams
41	Ponds and wetlands
51	Rock outcrops
61	Tracks
62	Paved roads, cycling and walking lanes
63	Railways
71	Other structural elements
A	Artificial constructions in urban areas

PI	Photointerpretation starts/ends
Z	Photointerpretation impossible
X	Premature end of transect
8	No transect mapped