

EAGLE Matrix (version 3.2) Thematic content guide

This document shows a list of Elements from the EAGLE Matrix (version 3.2) which are connected to certain land use types or thematic topics and are foreseen to carry content information about a bar coded nomenclature class or spatial unit in a data set. These lists intend to give content-wise guidance to the user in applying the bar coding method. The here listed elements range on the upper level matrix entries mostly headings of matrix segments / sub-segments. The entirety of all EAGLE elements under the here listed parent elements or headings are found in the full matrix excel version.

The lists are not considered exclusive or comprehensive, meaning that some elements could also be used which are not listed here under a particular thematic topic. Also, some detailed information may simply not be available under the give data situation and therefore cannot be assigned to a bar code and will stay blank in a conducted bar coding exercise.

The Land Cover Components are left aside here, because a broad variety of LCCs can occur in combination with the here mentioned thematic land use domains. Which LCCs has to be chosen and bar coded is dependent on the particular data sources.

A selection of thematic domains are Agriculture (AGRI), Forestry (FRST), Mining (MINE), Urban and rural Built-up Areas (URBN), Transportation Networks (TRNS), Habitats and Ecosystems (HABT). It occurs that some elements are relevant for more than one thematic domain, therefore they are assigned in the column “Thematic Domain Context” to several items.

The acronyms of the thematic domain context are also contained in the download EAGLE matrix version 3.2 (excel format).

1) EAGLE Elements connected to Agriculture

Code	Label	Level	Element Type	LCL/LU Relevance	Thematic Domain Context
LUA-1_1	Agriculture	2		LU	AGRI
LCH-3_2	Foliage Persistence	2	Heading	LC	AGRI, FRST, HABT
LCH-3_4	Phenological Plant Life Span	2	Heading	LC	AGRI, FRST, HABT
LCH-3_8	Vegetation Cover Transition	2	Heading	LC	AGRI, FRST, HABT
LCH-3_9	Plant Species Origin	2	Heading	LC	AGRI, FRST, HABT
LCH-3_12	Plant Growing Season	2	Heading	LC	AGRI, FRST, HABT
LCH-3_13	Crown Cover Density	2	Parameter	LC	AGRI, FRST, HABT
LCH-4_4	Soil Moisture Regime, Wetness	2	Heading	LC	AGRI, FRST, HABT
LCH-4_5	Wetness Source	2	Heading	LC	AGRI, FRST, HABT
LCH-5_1	Agricultural Land Management	2	Heading	LU	AGRI

LCH-5_1_1	Agricultural Cultivation Form	3	Heading	LU	AGRI
LCH-5_1_2	Cultivation Practice	3	Heading	LU	AGRI
LCH-5_1_3	Cultivation Installation	3	Heading	LU	AGRI
LCH-5_1_4	Cultivation Measure and Activities	3	Heading	LU	AGRI
LCH-5_1_5	Cultivation Purpose	3	Heading	LU	AGRI
LCH-5_1_6	Crop Type	3	Heading	LC	AGRI
LCH-5_1_7	Plant Growth Stage	3	Heading	LC	AGRI
LCH-5_1_8	Crop Season	3	Heading	LC	AGRI
LCH-5_1_9	Crop Rotation Element	3	Heading	LC	AGRI
LCH-5_1_10	Cultivation Strategy	3	Heading	LC	AGRI
LCH-5_1_11	Grazing	3	Heading	LU	AGRI
LCH-6_3_2	Soil Erosion	3	Character	Gen	AGRI
LCH-6_3_3	Desertification	3	Character	Gen	AGRI
LCH-7_1_5	Grasslands and Lands Dominated By Forbs, Mosses Or Lichens	3	Character	Gen	AGRI
LCH-7_1_9	Regularly Or Recently Cultivated Agricultural, Horticultural and Domestic Habitats	3	Character	Gen	AGRI
LCH-7_3_6	Rural Context	3	Character	Gen	AGRI
LCH-7_6	Physical Climate Zone	2	Heading	Gen	AGRI, FRST, HABT
LCH-8_1	Spatial Distribution Pattern	2	Heading	Gen	AGRI, FRST, URBN
LCH-8_2	Linear Feature Pattern	2	Heading	Gen	AGRI
LCH-9_2	Occurrence Type	2	Heading	Gen	AGRI, FRST, URBN
LCH-9_3	Temporal Parameters	2	Heading	Gen	AGRI, FRST, URBN
LCH-9_3_3	Period	3	Character	Gen	AGRI

2) EAGLE Elements connected to Forestry

Code	Label	Level	Element Type	LCL/LU Relevance	Thematic Domain Context
LUA-1_2	Forestry	2		LU	FRST
LCH-3_1	Leaf Form	2	Heading	LC	FRST, HABT
LCH-3_2	Foliage Persistence	2	Heading	LC	AGRI, FRST, HABT
LCH-3_3	Leaf Anatomy	2	Heading	LC	FRST, HABT

LCH-3_4	Phenological Plant Life Span	2	Heading	LC	AGRI, FRST, HABT
LCH-3_5	Plant Location	2	Heading	LC	FRST, HABT
LCH-3_6	Growth Form, Habit	2	Heading	LC	FRST, HABT
LCH-3_7	Raunkiaer Life Form	2	Heading	LC	FRST, HABT
LCH-3_8	Vegetation Cover Transition	2	Heading	LC	AGRI, FRST, HABT
LCH-3_9	Plant Species Origin	2	Heading	LC	AGRI, FRST, HABT
LCH-3_12	Plant Growing Season	2	Heading	LC	AGRI, FRST, HABT
LCH-3_13	Crown Cover Density	2	Parameter	LC	AGRI, FRST, HABT
LCH-4_4	Soil Moisture Regime, Wetness	2	Heading	LC	AGRI, FRST, HABT
LCH-4_5	Wetness Source	2	Heading	LC	AGRI, FRST, HABT
LCH-5_2	Forest Land Management	2	Heading	LU	FRST
LCH-5_2_1	Forest Age Structure	3	Heading	LU	FRST
LCH-5_2_2	Forest Age Stage	3	Heading	LU	FRST
LCH-5_2_3	Forest Composition	3	Heading	LU	FRST
LCH-5_2_4	Forestry Practice	3	Heading	LU	FRST
LCH-5_2_5	Forestry Rotation System	3	Heading	LU	FRST
LCH-5_2_6	Forest Rejuvenation	3	Heading	LU	FRST
LCH-5_2_7	Silvicultural Measure	3	Heading	LU	FRST
LCH-5_2_8	Silvicultural Harvest and Regeneration Method	3	Heading	LU	FRST
LCH-5_2_9	Forest Product Type	3	Heading	LU	FRST
LCH-5_2_10	Forest History Type	3	Heading	LU	FRST
LCH-5_2_11	Forest Tree Species	3	Heading	LC	FRST
LCH-6_1_5	Clear Cut	3	Character	LU	FRST
LCH-6_3_1	Deforestation	3	Character	Gen	FRST
LCH-7_1_7	Woodland, Forest and Other Wooded Land	3	Character	Gen	FRST
LCH-7_2	Height Zone	2	Heading	Gen	FRST, HABT
LCH-7_3	Geographical Context	2	Heading	Gen	FRST, HABT
LCH-7_6	Physical Climate Zone	2	Heading	Gen	AGRI, FRST, HABT
LCH-8_1	Spatial Distribution Pattern	2	Heading	Gen	AGRI, FRST, URBN
LCH-9_1	Geometric Parameters	2	Heading	Gen	FRST, URBN, TRNS
LCH-9_2	Occurrence Type	2	Heading	Gen	AGRI, FRST, URBN
LCH-9_3	Temporal Parameters	2	Heading	Gen	AGRI, FRST, URBN

3) EAGLE Elements connected to Mining

Code	Label	Level	Element Type	LCL/LU Relevance	Thematic Domain Context
LUA-1_3	Mining and Quarrying	2		LU	MINE
LCH-5_3_1	Mining Technique	3	Heading	LU	MINE
LCH-5_3_2	Mining Product Type	3	Heading	LU	MINE

4) EAGLE Elements connected to Urban Areas

Code	Label	Level	Element Type	LCL/LU Relevance	Thematic Domain Context
LUA-2_1	Manufacturing Industry	2		LU	URBN, INDU
LUA-2_5	Other Industry	2		LU	URBN, INDU
LUA-3_1	Commercial Services	2		LU	URBN
LUA-3_2	Financial, Professional and Information Services	2		LU	URBN
LUA-3_3	Community Services	2		LU	URBN
LUA-3_4	Cultural, Entertainment and Recreational Services	2		LU	URBN
LUA-3_5	Other Services	2		LU	URBN
LUA-4	Transport Networks, Logistics, Utilities	1		LU	URBN, TRNS
LUA-4_2	Logistics and Storage	2		LU	URBN
LUA-5	Residential	1		LU	URBN
LCH-1_1	Soil Sealing Degree	2	Parameter	LC	URBN, TRNS
LCH-1_2	Built-Up Pattern	2	Heading	LC	URBN
LCH-1_3	Building Nature	2	Heading	LU	URBN
LCH-1_4	Other Construction Nature	2	Heading	LU	URBN
LCH-1_5	Artificial Surface Material Type	2	Heading	LC	URBN, TRNS
LCH-1_6	Artificial Surface Material Arrangement	2	Heading	LC	URBN, TRNS
LCH-1_7	Building Greening Type	2	Heading	LC	URBN
LCH-6_1	Land Use Status	2	Heading	LU	URBN

LCH-6_1_4	Abandoned	3	Character	LU	URBN
LCH-6_1_6	Collapsed, Destroyed, Damaged	3	Character	LU	URBN
LCH-7_1_10	Constructed, Industrial and Other Artificial Habitats	3	Character	Gen	URBN, TRNS
LCH-7_3_5	Urban Context	3	Character	Gen	URBN
LCH-8_1	Spatial Distribution Pattern	2	Heading	Gen	AGRI, FRST, URBN
LCH-9_1	Geometric Parameters	2	Heading	Gen	FRST, URBN, TRNS
LCH-9_2	Occurrence Type	2	Heading	Gen	AGRI, FRST, URBN
LCH-9_3	Temporal Parameters	2	Heading	Gen	AGRI, FRST, URBN

5) EAGLE Elements connected to Transportation

Code	Label	Level	Element Type	LCL/LU Relevance	Thematic Domain Context
LUA-4	Transport Networks, Logistics, Utilities	1		LU	URBN, TRNS
LUA-4_1	Transport Networks	2		LU	TRNS
LCH-1_1	Soil Sealing Degree	2	Parameter	LC	URBN, TRNS
LCH-1_5	Artificial Surface Material Type	2	Heading	LC	URBN, TRNS
LCH-1_6	Artificial Surface Material Arrangement	2	Heading	LC	URBN, TRNS
LCH-1_8	Transportation Network Characteristics	2	Heading	LU	TRNS
LCH-1_8_1	Road Network Type	3	Heading	LU	TRNS
LCH-1_8_4	Harbour Type	3	Heading	LU	TRNS
LCH-7_1_10	Constructed, Industrial and Other Artificial Habitats	3	Character	Gen	URBN, TRNS
LCH-8_3	Linear Technical Network	2	Heading	Gen	TRNS
LCH-9_1	Geometric Parameters	2	Heading	Gen	FRST, URBN, TRNS

6) EAGLE Elements connected to Habitats and Ecosystems (outside settlement, industrial, agricultural, forestry areas)

Code	Label	Level	Element Type	LCL/LU Relevance	Thematic Domain Context
LCH-2	Physical Characteristics	1	Heading	LC	HABT
LCH-3_1	Leaf Form	2	Heading	LC	FRST, HABT
LCH-3_2	Foliage Persistence	2	Heading	LC	AGRI, FRST, HABT
LCH-3_3	Leaf Anatomy	2	Heading	LC	FRST, HABT
LCH-3_4	Phenological Plant Life Span	2	Heading	LC	AGRI, FRST, HABT
LCH-3_5	Plant Location	2	Heading	LC	FRST, HABT
LCH-3_6	Growth Form, Habit	2	Heading	LC	FRST, HABT
LCH-3_7	Raunkiaer Life Form	2	Heading	LC	FRST, HABT
LCH-3_8	Vegetation Cover Transition	2	Heading	LC	AGRI, FRST, HABT
LCH-3_9	Plant Species Origin	2	Heading	LC	AGRI, FRST, HABT
LCH-3_10	Plant Species Type	2	Heading	LC	HABT
LCH-3_11	Plant Community Type	2	Heading	LC	HABT
LCH-3_12	Plant Growing Season	2	Heading	LC	AGRI, FRST, HABT
LCH-3_13	Crown Cover Density	2	Parameter	LC	AGRI, FRST, HABT
LCH-4_1	Water Body Formation	2	Heading	LU	HABT
LCH-4_2	Hydrological Water Regime	2	Heading	LC	HABT
LCH-4_3	Water Dynamics	2	Heading	LC	HABT
LCH-4_4	Soil Moisture Regime, Wetness	2	Heading	LC	AGRI, FRST, HABT
LCH-4_5	Wetness Source	2	Heading	LC	AGRI, FRST, HABT
LCH-4_6	Salinity	2	Heading	LC	HABT
LCH-4_7	pH Value	2	Parameter	LC	HABT
LCH-4_8	Tidal Phenomena	2	Heading	LC	HABT
LCH-4_9	Groundwater	2	Heading	LC	HABT
LCH-5_5_2	Protected Area Type	3	Heading	LU	HABT
LCH-6_1_7	Managed Nature Restoration	3	Character	LU	HABT
LCH-7_1	Habitat Context	2	Heading	Gen	HABT
LCH-7_2	Height Zone	2	Heading	Gen	FRST, HABT
LCH-7_3	Geographical Context	2	Heading	Gen	FRST, HABT

LCH-7_5	Littoral Zone	2	Heading	Gen	HABT
LCH-7_6	Physical Climate Zone	2	Heading	Gen	AGRI, FRST, HABT