

**European Environment Agency  
European Topic Centre on Biological Diversity**



**European Common Database on Nationally  
Designated Areas - ECDDA-National**

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**Report on technical validation analysis of National Database**

**Latvia**

**version. 2 - September 2007**

# 1 Introduction

This report shows results of EEA automated validation procedures run on the national CDDA data after the initial merge into the European dataset (ECDDA)

Report is divided in two main parts. Main statistics chapter shows overall summary of content of data tables. Data analysis contains results of individual validation procedures and has three sections, one for each data table. At the beginning of each of the section is a summary showing the most important findings for each field of the respective table. It shows also order number of individual test where more detailed information about the finding can be found. Findings which are pointing to some gap, error or discrepancy are highlighted.

You can navigate through the report by bookmarks you can see on the left side of this PDF document





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*Tip:*

*Use the table summary as a starting point. Here you can quickly see what is wrong with your national database (highlighted comments). Then use the bookmarks to jump directly on the detailed test result and check it.*

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Each result is marked according its relevance to data quality and correction urgency. There are 3 types of marks:

-  Result is informative. It doesn't require any necessary or immediate action to improve data quality.
-  Data contained or quantified in the result may or may not require some actions with respect to their quality. More detailed information in the description of the result will help to decide which data are erroneous.
-  Result contains or quantifies erroneous data which have to be corrected. The error usually violates some of the logical rules related to particular data.
-  Marks have green color if no records were detected in the test. As they wouldn't have much sense, detailed descriptions of such tests are also not displayed.

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*Tip:*

*At first you should put focus on red ! results. Second important are violet ? results where some of fields in table are highlighted with red color. Blue i results are just for information. And green marked results need no action on your part.*

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At the beginning of each result the number of detected records is shown and if it is possible and useful the percentage of total number of records is also shown. The validation result itself can be presented in few different ways.

1. Tabular result contains most information. Some fields in the table may be highlighted. What the highlighting means is explained in the legend above the table.
2. Condensed list is shown for results where the amount of detected records is so large that the detailed tabular presentation would not be practical. Some of the condensed lists are accompanied with short summary of main facts and findings.
3. A summary alone is provided in the few cases where the amount of records detected by a test is so huge that not even the condensed list would be useful (i.e. more than 3,000 cases).

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## i 3 Main statistics

This test is comparing record numbers per table as coming from dataset prepared to be updated at national level and updated dataset delivered by country.

Records marked to be deleted are not counted into that comparison!

### Legend - highlightings of result table fields

Number of records in new dataset   Decrease

  Increase

value No record

Number of data tables: **3**

Table	Number of records in	
	old dataset	new dataset
designations	10	10
sites	<b>702</b>	<b>711</b>
sitehabitats	2403	2403

### 3.1 Field completeness

This test is comparing field completeness (counting not empty cells in tables) per table as coming from dataset prepared to be updated at national level and updated dataset delivered by country.

General formatting note:

Records marked to be deleted are not counted into that comparison.

### Legend - highlightings of result table fields

Records filled in new   Decrease

  Increase

value No value in mandatory fields

Completeness in new   Decrease

  Increase

value Impossible to calculate (dividing by 0). Table contains no records!

#### i 3.1.1 Designations table

Number of columns: **16**

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
ISO3	10	10	100.00	100.00
DESIG_ABBR	10	10	100.00	100.00
Category	8	8	80.00	80.00
ODESIGNATE	10	10	100.00	100.00
DESIGNATE	10	10	100.00	100.00
Title_French	6	5	60.00	50.00
CDDA_sites	6	5	60.00	50.00
Law	8	8	80.00	80.00
Lawreference	8	8	80.00	80.00
Agency	8	8	80.00	80.00
Number	8	8	80.00	80.00

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
Total_Area	8	8	80.00	80.00
Data_Source	8	8	80.00	80.00
Reference_date	8	8	80.00	80.00
Remark	0	1	0.00	10.00
Remark_Source	0	0	0.00	0.00

### i 3.1.2 Sites table

Number of columns: 18

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
SITE_CODE	702	702	100.00	98.73
SITE_CODE_NAT	702	711	100.00	100.00
ISO3	702	711	100.00	100.00
DESIG_ABBR	702	711	100.00	100.00
AREANAME	702	711	100.00	100.00
SIZE	667	676	95.01	95.08
IUCNCAT	702	711	100.00	100.00
NUTS	702	711	100.00	100.00
YEAR	702	711	100.00	100.00
ALTITUDE_MIN	702	711	100.00	100.00
ALTITUDE_MAX	702	711	100.00	100.00
LAT	702	711	100.00	100.00
LON	702	711	100.00	100.00
EIONET_CHNG_DATE	702	711	100.00	100.00
EIONET_CHNG_TYPE	702	711	100.00	100.00
EIONET_EDITED_BY	702	711	100.00	100.00
EIONET_INSTITUTE	702	711	100.00	100.00
NOTES	0	11	0.00	1.55

### i 3.1.3 Sitehabitats table

Number of columns: 3

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
SITE_CODE	2403	2403	100.00	100.00
EUNIS_Hab	2403	2403	100.00	100.00
Cover	2403	2403	100.00	100.00

## 4 Analysis of data

### 4.1 Designations table

Following tests are performed with full designation table as it was updated at national level and meaning of tests is to validate data at technical point of view as well as give basic statistics.

Records marked to be deleted are also included in the test results. They are written in gray italic font to recognize them.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/dstable.jsp?mode=view&table\\_id=3898](http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=3898)

#### Summary of the test results

Following table shows overall comments for individual fields of the table. It is a summary aggregated from detailed results.

Designations marked to be deleted are not counted in the summary with exceptions of fields where such records are subjects of the test.

Comments in bold font shows errors or other discrepancies in data.

Column "Detailed test" shows numeric code of particular test where the information shown in table was extracted from. You may check that test result if more details are required.

Field	Comment	Detailed test
ISO3	Filled correctly	4.1.06
DESIG_ABBR	No new designations	4.1.01
	No designations marked to be deleted.	4.1.03
	All designations have designation code	4.1.07
Category	All designations have "Category" code	4.1.11
ODESIGNATE	Filled correctly	4.1.15
DESIGNATE	All designations have English name	4.1.15
Title_French	5 designations have missing French name	
CDDA_sites	<b>2 designations are marked not creating sites ("Total_Area_reference" is missing for all of them). Explanantion in "Remark" is missing for all of them! Check whether it is not an error!</b>	4.1.17
Law	Filled correctly	4.1.18
Lawreference	Filled correctly	4.1.18
Agency	Filled correctly	4.1.19
Number, Total_Area	The values were changed for some designations (2)! Do not edit or enter anything to those fields, those values will be calculated from sites table during update of European database tables!	4.1.20
Number_reference	7 designations have "Number_reference" filled.	4.1.23
Total_Area_reference	7 designations have "Total_Area_reference" filled.	4.1.23
Data_Source	8 designations have "Data_Source" filled. 1 of them has neither "Number_reference" nor "Total_Area_reference" filled (in such cases the "Data_Source" doesn't need to be filled). Check whether it is not an error!	4.1.23
Reference_date	8 designations have "Reference_date" filled.	4.1.23
Remark	<b>1 designation (LV02) has "Remark" filled. "Remark_Source" is missing! Check also other field comments whether some explanations are not missing here.</b>	4.1.24
Remark_Source	<b>Field is empty for all records. "Remark_Source" is missing for 1 designation!</b>	4.1.24
To_be_deleted	No designation marked to be deleted	4.1.03

### **i** 4.1.01 New designations

Number of new records in the designations table: **0**

### **!** 4.1.02 Designations deleted without marking them to be deleted

Number of detected records: **0**

### **?** 4.1.03 Designations marked to be deleted

Number of detected records: **0**

### **i** 4.1.04 Comparison of number of sites and total area of individual designations between old and new datasets

That test is comparing number and total area of sites as it is coming from sites table as well as from boundary files of previous and current update of data and is presenting result per designation.

#### Legend - highlightings of result table fields

Number of sites in new dataset  Decrease

Increase

Number of sites in GIS  Some sites from new dataset are missing in boundary data

Total area in new dataset  Decrease

Increase

Total area in GIS  Difference between total site size in new dataset and boundary data is greater than 5%

Number of detected records: **10**

ISO3	DESIG ABBR	Number of sites in			Total area (ha) in		
		old dataset	new dataset	GIS	old dataset	new dataset	GIS
LVA	LV00	0	0	0	0	0	
LVA	LV01	4	4	4	24439	24439	24445.06
LVA	LV02	3	4	4	146520	206135	206215.9
LVA	LV03	43	42	42	248898	189283	189400.41
LVA	LV04	346	355	311	5283.1	5299.5	5304.37
LVA	LV05	273	273	273	196841.2	196841.2	196852.23
LVA	LV06	9	9	9	161692	161692	161725.22
LVA	LV07	1	1	1	474447	474447	475832.03
LVA	LV08	23	23	23	986.99	986.99	984.17
LVA	LV99	0	0	0	0	0	
		<b>702</b>	<b>711</b>	<b>667</b>	<b>1259107.29</b>	<b>1259123.69</b>	<b>1260759.39</b>



**? 4.1.05 Designations not present in "SITES" table**


That test is listing designations that do not have any site data reported in sites table. It shows designations having "CDDA\_Sites" field marked both "Yes" and "No". Also "Remark" field entry is given to check if there is any reason explained especially for those marked "Yes" (they will create sites, but the data are just not there for some reason).

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=21601](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21601)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=26791](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=26791)

**Legend - highlightings of result table fields**

Remark  Explanation is missing why designations marked as creating sites, do not have any sites in Sites table!

Number of detected records: 3

ISO3	DESIG ABBR	Category	ODESIGNATE	DESIGNATE	CDDA sites	Remark
LVA	LV00		No Protection Status	No Protection Status	False	
LVA	LV04	A	Dabas piemineklis	Nature Monument	True	
LVA	LV99		Others	Others	False	

**! 4.1.06 Designations where ISO3 is empty**

Number of detected records: 0

**! 4.1.07 Designations where "DESIG\_ABBR" is empty**

Number of detected records: 0

**! 4.1.08 Designations where "DESIG\_ABBR" do not follow official naming convention**

Number of detected records: 0

**! 4.1.09 Designations where "DESIG\_ABBR" is duplicated**

Number of detected records: 0

**i 4.1.10 Designations where "Category" has been changed**

Number of detected records: 0

**! 4.1.11 Designations where "Category" is empty (numeric part of "DESIG\_ABBR" is different then "00" and "99")**

Number of detected records: 0

**! 4.1.12 Designations where "Category" is not present in official list ("DESIG\_CATEGORIES" table)**

Number of detected records: 0

**i 4.1.13 Designations where "DESIGNATE" has been changed**

Number of detected records: 0

**! 4.1.14 Designations where "DESIGNATE" is empty**

Number of detected records: 0

**! 4.1.15 Designations where "ODESIGNATE" is empty**

Number of detected records: 0

**i 4.1.16 Designations where "CDDA\_sites" has been changed**

Number of detected records: 0

**? 4.1.17 Designations where "CDDA\_sites" is False (No)**

When "CDDA\_sites" entry is "No", user can be sure there will not be any site with that designation in sites table, if there is it is actually an error. Also it would be very relevant if explanation why that designation is not creating any sites would be entered into "Remark" field.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=18922](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=18922)

**Legend - highlightings of result table fields**

- Total Area reference  Missing value (designations which are not creating sites should have this value filled)
- Remark  Explanation is missing! Check also records not highlighted whether the reason is properly explained!
- Number of Sites  Designation marked not creating sites should not have any valid site in Sites table!

Number of detected records: 2

ISO3	DESIG ABBR	Category	DESIGNATE	CDDA sites	Total Area reference	Remark	Number of sites
LVA	LV00		No Protection Status	<b>False</b>			0
LVA	LV99		Others	<b>False</b>			0
							<b>0</b>

**! 4.1.18 Designations where "Law" or "Lawreference" is empty ("Category is else then "C")**

Number of detected records: 0

**! 4.1.19 Designations where "Agency" is empty**

Number of detected records: 0

**! 4.1.20 Designations where "Number" or "Total\_Area" have been changed**

Entries to fields "Number" and "Total\_Area" come through queries from sites table, therefore it should be noted that no any entry is required at national level. If at national level official number and total area with same date than in previous year CDDA seem to be different, please enter those values to "Number\_Reference" and "Total\_Area\_Reference" fields with relevant "Data\_Source".

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=20496](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20496)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=25592](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=25592)

**Legend - highlightings of result table fields**

Number new  Value was changed (error)

Total Area new  Value was changed (error)

Number of detected records: **2**

ISO3	DESIG ABBR	Category	DESIGNATE	Number		Total Area	
				old	new	old	new
LVA	LV02	A	National Park	3	4	146520	206135
LVA	LV03	A	Nature Park	43	42	248898	189283

**? 4.1.21 Designations where "Number\_reference" has been changed**

Number of detected records: **0**

**? 4.1.22 Designations where "Total\_Area\_reference" has been changed**

Number of detected records: **0**

**? 4.1.23 Designations where "Number\_reference", "Total\_Area\_reference", "Date\_Source" or "Reference\_date" is not empty**

These fields should be filled only when any official national data different of CDDA update is published in between two CDDA update deliveries.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=28595](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28595)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=29521](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=29521)


[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=19566](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=19566)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=21868](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21868)


[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=21868](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21868)

**Legend - highlightings of result table fields**

Data Source  Missing value, error!

 Value is not required (both Number reference and Total Area reference are empty). Check whether it is not an error!

Reference date  Missing value, error!

 Value is not required (Number reference, Total Area and Data Source are empty). Check whether it is not an error!

Number of detected records: **8**

ISO3	DESIG ABBR	Number reference	Total Area reference	Data Source	Reference date	Number of sites
LVA	LV01	4	24439	LEGMA database on Specially Protected Nature Territories	01/01/2005	4
LVA	LV02	3	146520	LEGMA database on Specially Protected Nature Territories	01/01/2005	4
LVA	LV03	43	541272	LEGMA database on Specially Protected Nature Territories	01/01/2005	42

ISO3	DESIG ABBR	Number reference	Total Area reference	Data Source	Reference date	Number of sites
LVA	LV04	295	5191	LEGMA database on Specially Protected Nature Territories	01/01/2005	346
LVA	LV05	278	197255	LEGMA database on Specially Protected Nature Territories	01/01/2005	273
LVA	LV06	9	161692	LEGMA database on Specially Protected Nature Territories	01/01/2005	9
LVA	LV07	1	474447	LEGMA database on Specially Protected Nature Territories	01/01/2005	1
LVA	LV08			LEGMA data base on microreserves of particularly protected species and habitats. Natura2000 data base	01/01/2005	23
						<b>702</b>

#### i 4.1.24 Designations where "Remark" or "Remark\_source" is not empty

Those two fields should always be filled together, so if there is any remark to be entered related to any field entry or gap of that particular record, please fill both Remark and Remark\_source field. To latter put person and/or institution name who made remark. Users of data will seek for remarks when some field entries of record are missing or when some basic entries have changed. Remark can also be used to point the reason why for example site data of designation is missing in sites table.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=20963](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20963)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=23302](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23302)

#### Legend - highlightings of result table fields

Remark Source   Missing value, error!

  Value is not required (Remark is empty). Check whether it is not an error!

Number of detected records: 1

ISO3	DESIG ABBR	Category	DESIGNATE	Remark	Remark Source	Number of sites
LVA	LV02	A	National Park	Ôæ*[!^Á-Á!{ ^! Ü : ) æ) æ; ^Á æ\ Å &@æ*^áÁ Á æä } æÁ æ\		4
						4

## 4.2 Sites table

Following tests are performed with full sites table as it was updated at national level and meaning of tests is to validate data at technical point of view as well as give basic statistics.

Records marked to be deleted are also included in the test results. They are written in gray italic font to recognize them.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/dstable.jsp?mode=view&table\\_id=3530](http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=3530)

### Summary of the test results

Following table shows overall comments for individual fields of the table. It is a summary aggregated from detailed results.

Sites marked to be deleted are not counted in the summary with exceptions of fields where such records are subjects of the test.

Comments in bold font shows errors or other discrepancies in data.





Column "Detailed test" shows numeric code of particular test where the information shown in table was extracted from. You may check that test result if more details are required.

Field	Comment	Detailed test
SITE_CODE	<b>9 new sites. SITE_CODE has to be added for all of them.</b>	4.2.01
	No sites marked to be deleted	4.2.03
SITE_CODE_NAT	1 site (181949) has national site code changed (from 3034 to 2004)	4.2.05
	All sites have national site code	4.2.06
ISO3	Filled correctly	4.2.08
DESIG_ABBR	1 site (181949) has designation code changed (from LV03 to LV02)	4.2.09
	All sites have designation code	4.2.10
AREANAME	<b>F</b>	4.2.12
	All sites have area name	4.2.13
SIZE	<b>35 sites have missing size!</b>	4.2.16
IUCNCAT	1 site (172498) has IUCN category changed (from IX to V)	4.2.18
	All sites have IUCN category	4.2.19
	<b>4 sites have IUCN category ("I") which is not present in official list!</b>	4.2.20
NUTS	All sites have NUTS codes	4.2.21
YEAR	All sites have year	4.2.23
ALTITUDEs	All sites have both altitudes	4.2.25
	<b>23 sites have minimal altitude out of reference elevation range of the country (0.00m - 312.00m)! 1 site (172459) has maximal altitude (-0.3m) out of reference elevation range of the country (0.00m-312.00m)!</b>	4.2.27
LAT, LON	All sites have coordinates	4.2.29
	<b>14 sites have coordinates outside of reference geographic area of the country!</b>	4.2.30
To_be_deleted	No sites marked to be deleted	4.2.33
EIONET fields	<b>3 sites have at least one value in record changed. 1 changed site (172498) has EIONET_CHNG_DATE either missing or not changed!</b>	4.2.34
NOTES	11 sites have "NOTES" filled.	4.2.32

**i 4.2.01 New sites**

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=22418](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=22418)**Legend - highlightings of result table fields**

SITE CODE		Missing value (will be filled on central European level)
YEAR		Detects "new" sites designated (site with year of designation >= year of the previous version)
		Detects "old" site added (site with year of designation < year of the previous version)
		Field is either empty or value is suspicious low or high (see test 4.2.24 for more details)

Number of new records in the sites table: **9 (1.27 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	YEAR
	9052	LVA	LV04	Ceraukstes šosejmalas aleja	2.8	2006
	9053	LVA	LV04	Iecavas alejas	1.1	2006
	9054	LVA	LV04	Tæ \\!  * æ^æ	0.3	2006
	9055	LVA	LV04	Ü &^ { ~ æ æ æ^æ	2.5	2006
	9056	LVA	LV04	Vecauces aleja	0.1	2006
	9057	LVA	LV04	Druvienas alejas	4.3	2006
	9058	LVA	LV04	Vestienas muižas aleja	1.4	2006
	9059	LVA	LV04	Xææ } ^æ æ^æ	1.4	2006
	9060	LVA	LV04	Öä ~ Å ~ æ æ æ^æ	2.5	2006
					<b>16.4</b>	

**! 4.2.02 Sites deleted without marking them to be deleted**Number of detected records: **0****? 4.2.03 Sites marked to be deleted**Number of detected records: **0****! 4.2.04 Sites where "SITE\_CODE" is duplicated**Number of detected records: **0****i 4.2.05 Sites where "SITE\_CODE\_NAT" was changed**

In principle SITE\_CODE\_NAT is secondary key field that will be used for analysis when SITE\_CODE field is empty, therefore it is very important that this field is also unique and remains unchanged. If it still changes for some reason, please enter that reason to the NOTES field to be taken into account during database analysis.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=29062](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=29062)Number of detected records: **1 (0.14 %)**

SITE CODE	SITE CODE NAT		ISO3	DESIG ABBR	AREANAME	SIZE
	old	new				
181949	<b>3034</b>	<b>2004</b>	LVA	LV02	Ü : } æ	59615
						<b>59615</b>

**! 4.2.06 Number of sites by designation where "SITE\_CODE\_NAT" is empty**Number of detected designations: **0****! 4.2.07 Sites where "SITE\_CODE\_NAT" is duplicated**Number of detected records: **0****! 4.2.08 Sites where "ISO3" is empty or incorrect**Number of detected records: **0****? 4.2.09 Sites where "DESIG\_ABBR" was changed**

If DESIG\_ABBR of same site has changed it may refer to correction of error or real change of designation. In latter case also designation year should change, as it is dealt as newly designated site. Also please fill EIONET\_CHNG\_TYPE correctly when making any change into record (see 4.2.34).

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=21601](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21601)Number of detected records: **1 (0.14 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR		AREANAME	SIZE	NOTES
			old	new			
181949	2004	LVA	LV03	LV02	Ü : } æ	59615	Site code_nat and Desig_abbr are changed
						<b>59615</b>	

**! 4.2.10 Sites where "DESIG\_ABBR" is empty**Number of detected records: **0****! 4.2.11 Number of sites by designation where "DESIG\_ABBR" is not present in "DESIGNATIONS" table**Number of detected designations: **0****i 4.2.12 Sites where "AREANAME" was changed**

As CDDA is feeding also global database of designated areas it is important to keep site name as unchanged as possible, if there is real legal change, please give remark about it into NOTES field, if it is correction of error, please mark it properly at the EIONET\_CHNG\_TYPE field (see 4.2.34).

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=28137](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28137)Number of detected records: **1 (0.14 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME		SIZE
				old	new	
181900	5351	LVA	LV05	D'i b i 'YnYfU_fUgtg	D'i b i 'YnYfUa Yj]	53
						<b>53</b>

**? 4.2.13 Number of sites by designation where "AREANAME" is empty**

Number of detected designations: 0

**i 4.2.14 Sites where "AREANAME" is duplicated**

Number of detected records: 0

**i 4.2.15 Sites where "SIZE" was changed**

Number of detected records: 0

**! 4.2.16 Number of sites by designation where "SIZE" is empty**

Missing entries at SIZE field are affecting indicator production, because on a basis of size field designated area is counted per country. If site is very small or point object SIZE entry can be 0.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=20262](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20262)

**Legend - highlightings of result table fields**

Valid sites number   Number of sites where detected error should be corrected

Number of detected designations: 1

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
LV04	Nature Monument	35	9.86	0	0	0	0
		35	4.92	0	0	0	0

**! 4.2.17 Sites where "SIZE" is significantly different from respective GIS boundary area or where it is greater than ISO3 country reference size.**

Number of detected records: 0

**i 4.2.18 Sites where "IUCNCAT" was changed**

Change in IUCN category is referring to either correction of error or real update of site entry, please mark it properly at the field EIONET\_CHNG\_TYPE (see 4.2.34).

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=22805](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=22805)

Number of detected records: 1 (0.14 %)

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	IUCNCAT		NOTES
						old	new	
172498	0001	LVA	LV07	Za{ ^ çã: ^{ ^•Áã ~ læ !^: ^!ç ø	474447	IX	V	
					474447			

**! 4.2.19 Number of sites by designation where "IUCNCAT" is empty**

Number of detected designations: 0



#### ! 4.2.20 Number of sites by IUCN category where "IUCNCAT" is not present in official list ("IUCNCATEGORIES" table)

Please use always IUCN categories from look-up table "IUCNCATEGORIES", otherwise they are treated as errors, as they affect indicator production as total protected area per IUCN category.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=22805](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=22805)

[http://dd.eionet.europa.eu/dstable.jsp?mode=view&table\\_id=3346](http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=3346)

##### Legend - highlightings of result table fields

IUCNCAT  IUCN category code is not present in official list (error)

Valid sites number  Number of sites where detected error should be corrected

Number of detected designations: 1

IUCNCAT	Valid sites			Sites to be deleted		
	number	%	size	number	%	size
I	4	0.56	24439	0	0	0
	4	0.56	24439	0	0	0

#### i 4.2.21 Number of sites by designation where "NUTS" is empty

Number of detected designations: 0

#### ? 4.2.22 Sites where "YEAR" was changed

Number of detected records: 0

#### ! 4.2.23 Number of sites by designation where "YEAR" is empty

Number of detected designations: 0

#### ! 4.2.24 Sites where "YEAR" is less than 1872 or greater than 2007

Number of detected records: 0

#### ! 4.2.25 Number of sites by designations where at least one of altitudes is empty

Number of detected designations: 0

#### ! 4.2.26 Sites where "ALTITUDE\_MIN" is higher than "ALTITUDE\_MAX"

Number of detected records: 0

**? 4.2.27 Sites where at least one of altitudes is out of reference elevation range of the country**

Site altitudes should not be outside of elevation range of the country. However if altitude is less than minimal country elevation it can refer to fact that site is whole or partially under water. Very small oversize in maximal elevation can be caused by differences in used elevation source and can be acceptable.

Reference country minimal and maximal altitude can be seen in SUM row. Reference source for the country elevation range is The CIA's World Factbook, available at following URL:  
<https://www.cia.gov/library/publications/the-world-factbook/index.html>

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=23453](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23453)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=18809](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=18809)

**Legend - highlightings of result table fields**

- ALTITUDE MIN  Value is lower than minimal country elevation. Check whether it is an error or the site is completely or partially located under water (below sea or lake level)!
- Value is higher than maximal country elevation. Error!
- ALTITUDE MAX  Value is lower than minimal country elevation. Check whether it is an error or the site is completely or partially located under water (below sea or lake level)!
- Value is greater than maximal country elevation, but no more than 10 m. Check whether it is an error or because used altitude source was slightly different!
- Value is more than 10 m higher than maximal country elevation. Error!

Number of detected records: **23 (3.23 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	ALTITUDE	
						MIN	MAX
1679	2003	LVA	LV02	Ūdriņi (Aizkraukle novads)	16145	-2	80
37069	5086	LVA	LV05	Xān (Aizkraukle novads)	3371	-10	17
37090	3033	LVA	LV03	Ūdriņi (Aizkraukle novads)	150	-2	13
37097	3017	LVA	LV03	Ūdriņi (Aizkraukle novads)	4315	-5	30
62235	5081	LVA	LV05	Ziemupe	2458	-2	12
62256	3035	LVA	LV03	Pape	51778	-10	34
62259	3028	LVA	LV03	Engures ezera dabas parks	19992	-6	10
64768	5091	LVA	LV05	Ūdriņi (Aizkraukle novads)	280	-1	6
146748	2002	LVA	LV02	Ūdriņi (Aizkraukle novads)	38114	-10	71
172459	5181	LVA	LV05	Sīdriņi (Aizkraukle novads)	17	-4	-0.3
172470	5246	LVA	LV05	Jaunciems	332	-2	10
172498	0001	LVA	LV07	Zāģi (Aizkraukle novads)	474447	-10	125
172525	4113	LVA	LV04	Sīdriņi (Aizkraukle novads)		-2	0
172550	5203	LVA	LV05	Užava	3012	-9	30
172728	4105	LVA	LV04	Nidas pludmale	37.1	-2	2
172735	4206	LVA	LV04	Ūdriņi (Aizkraukle novads)	8.6	-0.5	18
172739	4110	LVA	LV04	Ūdriņi (Aizkraukle novads)	9.8	-1	1
172741	4112	LVA	LV04	Veczemju klintis	13.2	-1	2
172742	4114	LVA	LV04	Šaļķu šķērslis (Aizkraukle novads)		-2	0
172744	4117	LVA	LV04	Ūdriņi (Aizkraukle novads)		-2	0
172756	5215	LVA	LV05	Učzā	5078	-1	21
181872	5308	LVA	LV05	Šaļķu šķērslis (Aizkraukle novads)	277	-5	10
181880	3036	LVA	LV03	Ūdriņi (Aizkraukle novads)	2944	-7	27
					<b>622778.7</b>	<b>ref. 0.00</b>	<b>ref. 312.00</b>

### ? 4.2.28 Sites where coordinates were changed

Number of detected records: 0

### ! 4.2.29 Number of sites by designations where at least one of coordinates is empty

Number of detected designations: 0

### ! 4.2.30 Sites where coordinates are outside of reference geographic area of the country

That test is checking if coordinates delivered are really falling to national geographic area of country they come from. If not result is there to be checked and if needed to be corrected at national level. Reference GIS source is of small scale (1:1000000) therefore the test doesn't need to be utterly accurate.

Result was also transformed to KML file which can be downloaded from the same location as this report. KML is a file format used to display geographic data in an Earth browser, such as Google Earth. You may use this file and browser to check the result more conveniently.

GIS source for country geographic area is Vmap0 World Dataset, available at the following URL:

[http://www.mapability.com/index1.html?http&&www.mapability.com/info/vmap0\\_index.html](http://www.mapability.com/index1.html?http&&www.mapability.com/info/vmap0_index.html)

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=28825](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28825)

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=20550](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20550)

#### Legend - highlightings of result table fields

LAT, LON   Coordinates outside country. Check whether it is a real error or it caused just because of slight differences in used GIS data sources.

LAT value Coordinate is out of possible range (-90 to +90)

LON value Coordinate is out of possible range (-180 to +180)

Number of detected records: 14 (1.97 %)

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	LAT	LON
37097	3017	LVA	LV03	Úābīāē Āāāē Āāē•	4315	57.03306	23.99583
172525	4113	LVA	LV04	Šīāē bīāē { ^ ~ Āāāē		57.71667	24.34111
172526	4118	LVA	LV04	Šāē ~ Āāāē { ^ }•		57.36694	24.40111
172550	5203	LVA	LV05	Užava	3012	57.21972	21.41972
172603	5220	LVA	LV05	T ī) āī ~ Āī { àī āī	61	57.91167	24.45278
172651	7041	LVA	LV04	Ulmales parks	3.8	56.93583	21.27417
172728	4105	LVA	LV04	Nidas pludmale	37.1	56.09639	21.05278
172735	4206	LVA	LV04	Úāāē: ^) ^• Āc çīāē	8.6	57.46194	21.61694
172737	4107	LVA	LV04	Úāāē ç• ĒM{ ç• Āc çīāē	34.2	56.92306	21.25333
172742	4114	LVA	LV04	Šāē āē Āīāē bīāē { ^ }•		57.71972	24.34139
172744	4117	LVA	LV04	Úç āē { āē { ^ ~ Āāāē		57.70111	24.33972
181880	3036	LVA	LV03	Ó!} ā	2944	56.35639	20.95083
181913	5299	LVA	LV05	Úç ç• Āī ^āē	46	56.37806	23.29667
330672	9011	LVA	LV04	Subates aleja	0.3	56.00239	25.90085
					<b>10462</b>		

### i 4.2.31 Sites where coordinates are duplicated

Number of detected records: 0

**i 4.2.32 Number of sites by designation where "NOTES" is not empty**

Result is just informational.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=25701](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=25701)Number of detected designations: **3**






DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
LV02	National Park	1	25	59615	0	0	0
LV04	Nature Monument	0	0	16.4	0	0	0
LV05	Nature Reserve	1	0.37	53	0	0	0
		<b>2</b>	<b>0.28</b>	<b>59684.4</b>	<b>0</b>	<b>0</b>	<b>0</b>

**! 4.2.33 Sites marked to be deleted but where "NOTES" is empty**Number of detected records: **0****? 4.2.34 Edited records and analysis of EIONET fields**

Please always mark your editing at the fields EIONET\_CHNG\_TYPE, EIONET\_CHNG\_DATE, EIONET\_EDITED\_BY and EIONET\_INSTITUTE. This test is giving your editing recording results for you to check and for validation purposes.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=27745](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=27745)[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=28022](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28022)[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=24470](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=24470)[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=26591](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=26591)**Legend - highlightings of result table fields**

EIONET CHNG DATE new		Field is either empty or it was not changed, error!
EIONET CHNG TYPE		Field is empty, error!
	 value	Incorrect value (allowable values are "A", "C" and "U"), error!
EIONET EDITED BY		Field is empty, error!
EIONET INSTITUTE		Field is empty, error!

Number of detected records: **3 (0.42 %)**

SITE CODE	changed	EIONET				
		CHNG DATE		CHNG TYPE	EDITED BY	INSTITUTE
		old	new			
172498	iucncat,	2001-12-20	2001-12-20	U	M.Plotniece	LEGMA
181900	areaname, notes,	2004-4-6	2007-4-10	C	M.Plotniece	LEGMA
181949	site_code_nat, desig_abbr, notes,	2004-4-1	2007-4-10	U	M.Plotniece	LEGMA

### 4.3 Sitehabitats table

Following tests are performed with full sitehabitats table as it was updated at national level and meaning of tests is to validate data at technical point of view as well as give basic statistics.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/dstable.jsp?mode=view&table\\_id=4038](http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=4038)

#### Summary of the test results

Following table shows overall comments for individual fields of the table. It is a summary aggregated from detailed results.

Comments in bold font shows errors or other discrepancies in data.

Column "Detailed test" shows numeric code of particular test where the information shown in table was extracted from. You may check that test result if more details are required.

Field	Comment	Detailed test
SITE_CODE	617 valid sites have some habitats assigned (totally 2403 habitat records). 94 valid sites have no habitats assigned.	4.3.03
EUNIS_Hab	10 main habitat categories are present in table. Habitat records are distributed among EUNIS habitat levels as it follows: level 1: 3, level 2: 2399, level 3: 0, level 4: 1. Habitat records of first level should be more specified.	4.3.05
Cover	2 sites have total cover of habitats < 100% (or cover is not filled)!	4.3.08

#### ! 4.3.01 Number of habitat records by sites which are not present in "Sites" table

Number of detected sites: 0

#### ? 4.3.02 Number of habitat records by sites which are marked to be deleted in "Sites" table

Number of detected sites: 0

#### i 4.3.03 Number of habitat records, sites with habitats and sites without habitats subdivided by designation

This statistical test is showing completeness of habitat data per designation and is there to help in data compilation at national level.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=23687](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23687)

#### Legend - highlightings of result table fields

Sites without habitats   Number of sites where habitats should be added  
- number

Number of designations: 8

DESIG ABBR	DESIGNATE	Habitat records		Sites with habitats		Sites without habitats	
		number	%	number	%	number	%
LV01	Strict Nature Reserve	27	1.12	4	100	0	0
LV02	National Park	51	2.12	4	100	0	0
LV03	Nature Park	367	15.27	42	100	0	0
LV04	Nature Monument	515	21.43	261	73.52	86	24.23
LV05	Nature Reserve	1296	53.93	273	100	0	0
LV06	Protected Landscape Area	93	3.87	9	100	0	0
LV07	Biosphere Reserve	18	0.75	1	100	0	0
LV08	Micro-reserve	36	1.5	23	100	0	0
		<b>2403</b>	<b>100</b>	<b>617</b>	<b>86.78</b>	<b>86</b>	<b>12.1</b>

#### ! 4.3.04 Habitat records where habitat code is either empty or incorrect (not present in official list)

Number of detected records: 0

#### i 4.3.05 Number of habitat records by habitat categories subdivided by habitat level

This test is giving a statistical overview of habitat levels (showing level of precise of inventories) per habitat categories and also is pointing to possible errors when country with no marine territory has delivered marine habitats. Please check and correct possible errors.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=23946](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23946)

##### Legend - highlightings of result table fields

Number of habitat records - level 1   Minimal recommended level is second. Detected records should be more specified.

whole row value Country doesn't have a coast! Sites can't have Marine or Coastal habitats!

Number of detected habitat categories: 10

Hab category	Scientific name	Number of habitat records			
		level 1	level 2	level 3	level 4
A	Marine habitats	3	14		
B	Coastal habitats		23		
C	Inland surface waters		271		
D	Mires, bogs and fens		251		
E	Grasslands and lands dominated by forbs, mosses or lichens		341		
F	Heathland, scrub and tundra		177		
G	Woodland, forest and other wooded land		953		
H	Inland unvegetated or sparsely vegetated habitats		154		
I	Regularly or recently cultivated agricultural, horticultural and domestic habitats		168		1
J	Constructed, industrial and other artificial habitats		47		
		3 (0.12 %)	2399 (99.83 %)	(0 %)	1 (0.04 %)

#### ! 4.3.06 Number of habitat records by categories where coverage is empty or 0

Number of detected habitat categories: 0

#### ! 4.3.07 Habitat records where coverage is > 100%

Number of detected records: 0

#### i 4.3.08 Sites where total habitat coverage is < 100%

This test is showing possible gaps in data entries as total habitat coverage per site should always be 100% if it is less than that it refers to incomplete inventory of data or wrong interpretation of guidelines.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=29222](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=29222)

Number of detected sites: 2 (0.32 % of valid sites with habitats)

CDDA - Report on analysis of National Database - Latvia

SITE CODE	SITE CODE NAT	AREANAME	DESIG ABBR	SIZE	YEAR	Habitat records	
						number	'cZWj Yf' i
172789	4173	Velna acs avots	LV04		2001	1	<b>75</b>
172798	4024	Sæ ~ Åē[ cā	LV04	2.1	2001	3	<b>25</b>
						4	