

**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**

**Finland**

**version. 3 - September 2008**

# 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	20	20
sites	6044	6724
sitehabitats	0	0

### 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	20	20	100.00	100.00
DESIG_ABBR	20	20	100.00	100.00
Category	18	18	90.00	90.00
ODESIGNATE	20	20	100.00	100.00
DESIGNATE	20	20	100.00	100.00
Title_French	17	17	85.00	85.00
CDDA_sites	17	17	85.00	85.00
Law	18	18	90.00	90.00
Lawreference	18	18	90.00	90.00
Agency	17	18	85.00	90.00
Number	13	13	65.00	65.00

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
Total_Area	13	13	65.00	65.00
Data_Source	0	0	0.00	0.00
Reference_date	0	0	0.00	0.00
Remark	3	1	15.00	5.00
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	6044	6724	100.00	100.00
SITE_CODE_NAT	6044	6724	100.00	100.00
ISO3	6044	6724	100.00	100.00
DESIG_ABBR	6044	6724	100.00	100.00
AREANAME	6044	6724	100.00	100.00
SIZE	6044	6724	100.00	100.00
IUCNCAT	177	6724	2.93	100.00
NUTS	6044	6724	100.00	100.00
YEAR	5781	6469	95.65	96.21
ALTITUDE_MIN	3870	3868	64.03	57.53
ALTITUDE_MAX	3870	3868	64.03	57.53
LAT	6044	6724	100.00	100.00
LON	6044	6724	100.00	100.00
EIONET_CHNG_DATE	6044	6724	100.00	100.00
EIONET_CHNG_TYPE	6034	6695	99.83	99.57
EIONET_EDITED_BY	6044	6724	100.00	100.00
EIONET_INSTITUTE	6044	6724	100.00	100.00
NOTES	5181	6696	85.72	99.58

### **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	0	0	N/A	N/A
EUNIS_Hab	0	0	N/A	N/A
Cover	0	0	N/A	N/A

## 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 designatons have English name	4.1.15
Title_French	3 designations have missing French name	
CDDA_sites	<b>7 designations are marked not creating sites ("Total_Area_reference" is missing for all of them). Explanation in "Remark" is missing for 6 of them! Check whether it is not an error and whether it is properly explained for the rest of the designations!</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	Filled correctly	4.1.20
Number_reference	Field is empty for all records	4.1.23
Total_Area_reference	Field is empty for all records	4.1.23
Data_Source	Field is empty for all records	4.1.23
Reference_date	Field is empty for all records	4.1.23
Remark	<b>1 designation (FI04) 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: **20**

ISO3	DESIG ABBR	Number of sites in			Total area (ha) in		
		old dataset	new dataset	GIS	old dataset	new dataset	GIS
FIN	FI00	0	0	0	0	0	
FIN	FI01	19	19	19	153840.6	153360.2	152636.51
FIN	FI02	35	35	35	883868.52	884763.38	883867.88
FIN	FI03	40	40	40	46638.08	46759.64	46184.89
FIN	FI04	0	0	0	0	0	
FIN	FI11	12	12	12	1489940.56	1490311.59	1489907.1
FIN	FI12	0	0	0	0	0	
FIN	FI13	24	24	24	808.38	807.24	685.79
FIN	FI14	0	0	0	0	0	
FIN	FI15	0	0	0	0	0	
FIN	FI16	4759	5298	4756	174112.04	196106.74	165109.81
FIN	FI17	0	0	0	0	0	
FIN	FI92	65	82	65	621.74	891.33	618.34
FIN	FI93	68	85	67	270	125.75	740.72
FIN	FI94	700	807	696	1361.17	1260.5	4413.77
FIN	FI95	7	7	7	18818	18818	18794.06
FIN	FI96	92	92	92	10243.18	10226.05	9169.86



ISO3	DESIG ABBR	Number of sites in			Total area (ha) in		
		old dataset	new dataset	GIS	old dataset	new dataset	GIS
FIN	FI97	52	52	52	1223.75	1229.43	1226.07
FIN	FI98	171	171	171	453576.42	459238.6	457785.81
FIN	FI99	0	0	0	0	0	
		<b>6044</b>	<b>6724</b>	<b>6036</b>	<b>3235322.44</b>	<b>3263898.45</b>	<b>3231140.61</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: 7

ISO3	DESIG ABBR	Category	ODESIGNATE	DESIGNATE	CDDA sites	Remark
FIN	FI00		Ei suojeltu	No Protection Status	False	
FIN	FI04	A	Luonnonmuistomerkki valtion maalla	Natural Monument on State Owned Land	False	Agency added
FIN	FI12	B	Valtion retkeilyalue	State Hiking Area	False	
FIN	FI14	B	Maa-aineslain nojalla suojeltu harju-tai kallioalue	Esker or Rock Area Protected by the Land Extraction Act	False	
FIN	FI15	B	Koskiensuojelulain nojalla suojeltu vesistö	Watersystem protected by the Act on Protection of Rapids	False	
FIN	FI17	C	Luonnonmuistomerkki yksityismaalla	Natural Monument on Private Land	False	
FIN	FI99		Muut	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: 7

ISO3	DESIG ABBR	Category	DESIGNATE	CDDA sites	Total Area reference	Remark	Number of sites
FIN	FI00		No Protection Status	<b>False</b>			0
FIN	FI04	A	Natural Monument on State Owned Land	<b>False</b>		Agency added	0

ISO3	DESIG ABBR	Category	DESIGNATE	CDDA sites	Total Area reference	Remark	Number of sites
FIN	FI12	B	State Hiking Area	False			0
FIN	FI14	B	Esker or Rock Area Protected by the Land Extraction Act	False			0
FIN	FI15	B	Watersystem protected by the Act on Protection of Rapids	False			0
FIN	FI17	C	Natural Monument on Private Land	False			0
FIN	FI99		Others	False			0
							0

**!** 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

Number of detected records: 0

**?** 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

Number of detected records: 0

**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
FIN	FI04	A	Natural Monument on State Owned Land	Agency added		0
						0

## 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>686 new sites.</b>	4.2.01
	6 sites marked to be deleted. Check detailed test result whether the deletion is explained properly in "NOTES" field or it is just an error!	4.2.03
SITE_CODE_NAT	All sites have national site code	4.2.06
ISO3	Filled correctly	4.2.08
DESIG_ABBR	All sites have designation code	4.2.10
AREANAME	6 sites have area name changed	4.2.12
	All sites have area name	4.2.13
	213 area names are duplicated (634 sites have these names totaly).	4.2.14
SIZE	126 sites have size changed	4.2.15
	All sites have size	4.2.16
	<b>639 sites have size significantly greater/smaler than GIS area or size is greater then reference size of ISO3 country!</b>	4.2.17
IUCNCAT	5861 sites have IUCN category changed	4.2.18
	All sites have IUCN category	4.2.19
NUTS	All sites have NUTS codes	4.2.21
YEAR	15 sites have year changed. Check detailed test result whether the change is explained properly in "NOTES" field or it is just an error!	4.2.22
	<b>255 sites have missing year!</b>	4.2.23
ALTITUDEs	<b>2856 sites have missing at least one of altitudes!</b>	4.2.25
LAT, LON	4093 sites have coordinates changed	4.2.28
	All sites have coordinates	4.2.29
	<b>146 sites have coordinates outside of reference geographic area of the country!</b>	4.2.30
To_be_deleted	6 sites marked to be deleted. Check whether the reason is explained properly in "NOTES" field!	4.2.33
EIONET fields	<b>6038 sites have at least one value in record changed. 29 of changed sites have EIONET_CHNG_TYPE either missing or containing not allowed value!</b>	4.2.34
NOTES	6702 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)Number of new records in the sites table: **686 (10.19 %)****Tabular result is too long to display (> 50 records). Here is short summary:**

Number of new designated sites (year of designation >= year of previous version): **19**  
 Number of old added sites (year of designation < year of previous version): **664**  
 Number of other sites (designation year is either empty or suspicious low or high): **3**  
 New sites marked to be deleted: **0**  
 New sites where SITE\_CODE have to be added: **0**

**! 4.2.02 Sites deleted without marking them to be deleted**Number of detected records: **0****? 4.2.03 Sites marked to be deleted**

All records that are not actual any more and that should be removed or archived from actual dataset should not be deleted during update, but marked "Yes" at the field "To be deleted". This test is counting them. But moreover, any reason why those records should be deleted should be given to "NOTES" field.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=27227](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=27227)**Legend - highlightings of result table fields**NOTES  Explanation is missing, error!Present in old  Site was not present in previous version of dataset! Check if it is not an error!Number of detected records: **6 (0.09 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	NOTES	Present in old
174803	YSA045157	FIN	FI16	Niemelänniemi	1	Protection ended.	YES
175509	YSA014129	FIN	FI16	Ristlakian kallion luonnonsuojeluvualue	0.6	Nowadays part of the site YSA202775	YES
194473	LTA200923	FIN	FI94	Porttimäki	7.7	Error in 2006 data.	YES
195037	YSA045204	FIN	FI16	Hirvisalo	1.6	Protection ended.	YES
195687	LTA200984	FIN	FI94	Ristlakian pähkinäpensaslehto	0.9	Nowadays part of the site YSA202775	YES
329743	ERA201386	FIN	FI93	Saunalahden meriuposkuoriainen	182.7	Error in 2006 data.	YES
					<b>194.5</b>		

**! 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**Number of detected records: **0****! 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**

Number of detected records: 0

**! 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: 6 (0.09 %)

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME		SIZE
				old	new	
150936	YSA100141	FIN	FI16	Storgräspotten (Björmans)	Storgräspotten (Sigvalds)	0.5
174953	YSA045132	FIN	FI16	YSA045132 Heinisuon luonnonsuojelualue 3	Heinisuon luonnonsuojelualue 3	21.5
175266	YSA107324	FIN	FI16	Lappörarna 26 (Sjöäng)	Lappörarna 26 (Vesterback)	49.6
175277	YSA107287	FIN	FI16	Lappörarna 24 (Snabb)	Lappörarana 24 (Valjon)	60.6
175615	YSA107209	FIN	FI16	Slättskäret 3 (Dahlback I)	Slättskäret 3 (Dahlback II)	13.8
181191	YSA086531	FIN	FI16	Honkamäen lehto II	Honkamäen lehto 2	1.4
						147.4

**? 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

Although the site name is not really a key field result of that test is given to be checked at national level if it corresponds to national database and also still suggestion is to give site names at national level such way that they also can be unique if it is possible of course, it will also help any kind of statistical analysis also at national level.

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: 638

**Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):**

list of duplicated AREANMEs [number of duplications]
Ahon luonnonsuojelualue [2x], Ahosaaren luonnonsuojelualue [2x], Ahvenainen [3x], Alatalon luonnonsuojelualue [2x], Ansiojärvi [3x], Antti Matikan luonnonsuojelualue [2x], Anttilan luonnonsuojelualue [3x], Arrastienvuori [2x], Badstuskärin luonnonsuojelualue [3x], Bergön luonnonsuojelualue [3x], Ellilä [3x], Erkkilän luonnonsuojelualue [3x], Espoonlahden luonnonsuojelualue [2x], Haapaniemen luonnonsuojelualue [3x], Haapasaari [2x], Halikonlahden Toivola [2x], Halsön 26 [2x], Harjulan luonnonsuojelualue [2x], Harjun luonnonsuojelualue [2x], Harjunmäen suojelualue [2x], Härkinneva-Hanhisjärvensuon luonnonsuojelualue [8x], Harvoinniemi [2x], Hätinsaaren lehdon luonnonsuojelualue [2x], Haukkavuoren lehmusmetsikkö [2x], Haukkavuoren luonnonsuojelualue [2x], Heikkilän luonnonsuojelualue [3x], Heinlahden luonnonsuojelualue [2x], Heponiemen metsät [3x], Heponiementien varsi [2x], Hietaniitynlahden luonnonsuojelualue [2x], Hiidenvuoren luonnonsuojelualue [2x], Hirtsalon suojelualue [2x], Hirtniemen Kirjosniemi [2x], Hirtniemen Niittula [2x], Hirvijärvenkallion luonnonsuojelualue [2x], Hirvisuon soidensuojelualue [2x], Hitonhaukan luonnonsuojelualueet (Sumiainen) [2x], Hongistonkorven luonnonsuojelualue [2x], Honkasaaren luonnonsuojelualue [2x], Jänissaaren luonnonsuojelualue [3x], Joensuun luonnonsuojelualue [2x], Joensuunlahden-Venesillanlahden luonnonsuojelualue [3x], Joutsensuon luonnonsuojelualue [2x], Jumoinsuon luonnonsuojelualue [3x], Kailanpohjan suojelualue [2x], Kaitaharjun kärhölehto [3x], Kalafjällin luonnonsuojelualue [2x], Kalliojärvi [2x], Kalliolan luonnonsuojelualue [2x], Kankaanpään luonnonsuojelualue [2x], Kansansuon luonnonsuojelualue [2x], Kärpäsvuori [2x], Kempeleenlahden luonnonsuojelualue [2x], Keskienselän luonnonsuojelualue [2x], Kesonsuon luonnonsuojelualue 8 [2x], Kesonsuon luonnonsuojelualue 9 [2x], Ketolan luonnonsuojelualue [3x], Kettumäki [2x], Kiimingin Letot (luonnonsuojelualue) [51x], Kirkkolahden luonnonsuojelualue [2x], Kirkkolahden pohjoisosassa [3x], Kirtulan kynäjalavalehto [2x], Kivijärven luonnonsuojelualue [2x], Koiviston luonnonsuojelualue [2x], Koivulan luonnonsuojelualue [3x], Kortejärvi [2x], Koskelan luonnonsuojelualue [3x], Kotivuori [3x], Kotkatharju [3x], Kotkoniemi [2x], Kotkoniemi 2 [2x], Koukkuniemen luonnonsuojelualue [2x], Koukkurahka (211-425-2-74) [2x], Kuivajärven suojelualue 1 [2x], Kuivaniemen luonnonsuojelualue [2x], Kullasvuori [2x], Kultavuori [2x], Kumpulan luonnonsuojelualue [2x], Kuoppalan luonnonsuojelualue [2x], Kuorelahden ristiniemen lähteikön luonnonsuojelualue [2x], Kurkijärven luonnonsuojelualue [2x], Kurkisuon luonnonsuojelualue [2x], Kuuselan luonnonsuojelualue [2x], Kuisinkijoen luonnonsuojelualue [2x], Laasonpohjan suojelualue 4 [2x], Lähdekorven luonnonsuojelualue [3x], Lahdenpohjan suojelualue [3x], Lapinjängän tervaleppäkorpi [3x], Lapinvuoren luonnonsuojelualue [2x], Laukkan luonnonsuojelualue [2x], Lehtimäen luonnonsuojelualue [2x], Lehtimäen suojelualue [2x], Lehtimäki [4x], Lehtoniemen suojelualue [2x], Lepolan luonnonsuojelualue [2x], Letkun lehtoalue [3x], Liminganlahden luonnonsuojelualue [5x], Liminganlahden luonnonsuojelualue, Isonniityn lohkokunta [2x], Lopen Isosuon luonnonsuojelualue [3x], Lopen Isosuon luonnonsuojelualue 11 [2x], Löytösuo-Karpasuo-Reikäsuon luonnonsuojelualue [4x], Luonteri [2x], Mäkelän luonnonsuojelualue [2x], Männistön luonnonsuojelualue [2x], Marjaniemen luonnonsuojelualue [2x], Matkusneva-Ukonvaajannevan luonnonsuojelualue [7x], Maunulan päihinäpensaslehto [2x], Metsolan luonnonsuojelualue [2x], Muikunlahden tervaleppäkorpi 2 [2x], Murtosaari [2x], Mustaksensuon suojelualue [2x], Mustalahden luonnonsuojelualue [4x], Mustalammin luonnonsuojelualue [2x], Muulinjärven luonnonsuojelualue [2x], Myllyjoen Isa [2x], Myllylän luonnonsuojelualue [2x], Myllypuron Lehdon luonnonsuojelualue [2x], Näätäholmin luonnonsuojelualue [2x], Nevalan luonnonsuojelualue [2x], Niemen luonnonsuojelualue [5x], Niilolan lehtojensuojelualue [2x], Nikkilänkalliot [3x], Notkolan luonnonsuojelualue [2x], Nuottasaari [2x], Ojalan luonnonsuojelualue [2x], Oukkulanlahti, vesialue [2x], Paavolan luonnonsuojelualue [3x], Pajulan luonnonsuojelualue [2x], Palosuon luonnonsuojelualue [2x], Pappilan luonnonsuojelualue [3x], Pappilanniemen luonnonsuojelualue [2x], Pehkijärven suojelualue [3x], Pekkasuon luonnonsuojelualue [2x], Peltolan luonnonsuojelualue [3x], Peltomaanvuori [2x], Petäjäsaaren luonnonsuojelualue [2x], Pirttilahden luonnonsuojelualue [2x], Poikainlammit-Karhusuon luonnonsuojelualue [4x], Porosaaren luonnonsuojelualue [2x], Pöystilä, Lehmusmäki [6x], Puula [6x], Rahjan luonnonsuojelualue [2x], Rajasuon luonnonsuojelualue [15x], Rakokallion luonnonsuojelualue [2x], Rantalan suojelualue [2x], Rauhan luonnonsuojelualue [5x], Rautniemi [4x], Rautniemi 2 [2x], Rekolan luonnonsuojelualue [2x], Riihimäen jalopuumetsä [3x], Rotkovuoren luonnonsuojelualue [2x], Ruutanaharjun lehdot [4x], Ruutanansuo [2x], Saarelan luonnonsuojelualue [3x], Sairakkalanjärvi 4 [2x], Saksalan luonnonsuojelualue [2x], Salmenrannan luonnonsuojelualue [2x], Sandön luonnonsuojelualue [2x], Saunasaaren luonnonsuojelualue [2x], Savijärven luonnonsuojelualue [2x], Savotta [2x], Seurantalo [2x], Siikajärvelän vanha metsä [2x], Siikanevan luonnonsuojelualue [2x], Siltalan luonnonsuojelualue [3x], Similän luonnonsuojelualue [2x], Sipilän luonnonsuojelualue [2x], Soininsuon soidensuojelualue [2x], Soisalmensuon luonnonsuojelualue [3x], Suiningin luonnonsuojelualue [2x], Susimäen eteläpuolen mäki [2x], Taipaleen luonnonsuojelualue [2x], Taivatlammi [3x], Takkulan luonnonsuojelualue [3x], Tamminiemen luonnonsuojelualue [2x], Taslotin luonnonsuojelualue [2x], Taustan luonnonsuojelualue [2x], Tekemäjärven luonnonsuojelualue [3x], Tervaniemen luonnonsuojelualue [2x], Tikkaalehto [2x], Toivanjoen suojelualue [5x], Toivolan luonnonsuojelualue [4x], Tuhkaa [2x], Tukkulin lehto [2x], Tuohikaton suojelualue [2x], Tuomelan luonnonsuojelualue [2x], Tuomiojärvi [4x], Tyyslahden (Naturåsen) luonnonsuojelualue [2x], Uusitalon luonnonsuojelualue [4x], Vaajakallio [2x], Vaimaroinen [3x], Vainion luonnonsuojelualue [2x], Vanuvuoren luonnonsuojelualue [2x], Vasaraniemen luonnonsuojelualue [3x], Veikkolan luonnonsuojelualue [2x], Vepsun ja Pulterin luonnonsuojelualue [2x], Vintturinlahden puronvarsi [2x], Yli-Kitkan luonnonsuojelualue [2x]



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

When size entry of the site has changed it may refer to correction of error or real update of site record, 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=20262](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20262)

Number of detected records: **126 (1.87 %)**

**Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):**

list of sites
654 (old: 285933; new: 285968), 655 (old: 102214; new: 102218), 656 (old: 27829.9; new: 27974.2), 1517 (old: 71260.7; new: 71274.9), 1522 (old: 2918.3; new: 2925.3), 2561 (old: 254897; new: 254898), 5111 (old: 9251; new: 9465.5), 7479 (old: 2957.8; new: 2952.5), 7487 (old: 7138.2; new: 6641.6), 7495 (old: 5937.9; new: 6116.9), 7496 (old: 5299.1; new: 5367.1), 7501 (old: 49988.3; new: 50011.1), 40927 (old: 4633.9; new: 4635.8), 40929 (old: 5487.2; new: 5491.2), 40930 (old: 2957.8; new: 2991.9), 64501 (old: 61358.3; new: 61361.5), 64502 (old: 67061.9; new: 67077), 64503 (old: 127473; new: 127528), 64504 (old: 157334; new: 157412), 64508 (old: 219988; new: 220176), 64509 (old: 294536; new: 294568), 64510 (old: 1630.2; new: 1666.1), 64515 (old: 2306.1; new: 2304.9), 64516 (old: 1504.2; new: 1521.2), 64518 (old: 2424.7; new: 2494.7), 64521 (old: 2278.9; new: 2266.1), 64525 (old: 2549.7; new: 2549.4), 64532 (old: 4225.2; new: 4224), 64533 (old: 5188.8; new: 5238.3), 64536 (old: 9522.8; new: 9543), 64541 (old: 15854.3; new: 15842.6), 64542 (old: 43524; new: 43527.5), 64543 (old: 44165.9; new: 44314.3), 101964 (old: 2697.2; new: 2698.7), 101965 (old: 4369.8; new: 4440.3), 101966 (old: 1504.8; new: 1527.2), 101969 (old: 6136.4; new: 6144.6), 101971 (old: 3233.3; new: 3249.3), 102006 (old: 7405.4; new: 11758.1), 102009 (old: 3632.3; new: 3642), 102014 (old: 3093.9; new: 3125.3), 102015 (old: 3902.7; new: 4059.2), 102017 (old: 2291.3; new: 2292.9), 102025 (old: 1638.3; new: 1644.6), 102029 (old: 1484; new: 1501.9), 102032 (old: 1368.2; new: 1361.1), 102037 (old: 1207.2; new: 1203.6), 102038 (old: 1298.8; new: 1298.1), 102039 (old: 1767.1; new: 1875.2), 102050 (old: 1165; new: 1187.3), 102054 (old: 1470.9; new: 1529.6), 102068 (old: 748.6; new: 758.1), 102071 (old: 904.2; new: 1026.9), 102072 (old: 1151.2; new: 1425.9), 102076 (old: 714.6; new: 721.5), 102078 (old: 541; new: 539), 102081 (old: 711.4; new: 710.4), 102083 (old: 562.7; new: 629.5), 102086 (old: 633.2; new: 670.5), 102092 (old: 367.5; new: 375.2), 102095 (old: 356.2; new: 359.9), 102097 (old: 797.9; new: 799), 102108 (old: 385.9; new: 395.8), 102113 (old: 321.3; new: 325.8), 102130 (old: 235.8; new: 235.3), 102132 (old: 301.1; new: 305.4), 102137 (old: 409; new: 427.8), 102139 (old: 444.7; new: 456.5), 102140 (old: 237.6; new: 249.9), 102163 (old: 65.8; new: 68.1), 149522 (old: 493.6; new: 492), 149542 (old: 57.1; new: 57.5), 149548 (old: 903.9; new: 888.1), 149570 (old: 85.5; new: 85.7), 149578 (old: 466.4; new: 466.6), 149615 (old: 31.8; new: 30.2), 149630 (old: 17.9; new: 18.6), 149639 (old: 45.6; new: 45.2), 149652 (old: 4.3; new: 5.1), 149661 (old: 7.1; new: 13.3), 149670 (old: 4042.3; new: 4040.7), 149677 (old: 509; new: 595.6), 149682 (old: 5114.6; new: 5126.7), 149706 (old: 779.7; new: 763.4), 149926 (old: 4.4; new: 5.1), 150117 (old: 27.5; new: 27.3), 150140 (old: 9.1; new: 10.2), 150666 (old: 80.1; new: 75.3), 150669 (old: 201.1; new: 200.5), 150758 (old: 49.2; new: 49.9), 150772 (old: 51; new: 48.8), 150874 (old: 2.2; new: 0.8), 151068 (old: 238.4; new: 239), 151072 (old: 23.4; new: 39.2), 151091 (old: 508.7; new: 507), 151229 (old: 3.6; new: 2.9), 174813 (old: 35.9; new: 35.4), 174877 (old: 492.5; new: 492.4), 174960 (old: 28.4; new: 0), 175210 (old: 3001.7; new: 3002.7), 175211 (old: 1575; new: 1576), 175212 (old: 2910; new: 2998.3), 175225 (old: 30019.5; new: 30019.4), 175526 (old: 13.6; new: 4.5), 175676 (old: 6.5; new: 6.4), 175979 (old: 1.7; new: 1.5), 176214 (old: 68.2; new: 67), 181135 (old: 47.5; new: 47), 181410 (old: 2.4; new: 2.7), 181586 (old: 0.1; new: 6.5), 194677 (old: 0.6; new: 0.4), 194683 (old: 3.1; new: 4.1), 194701 (old: 4.8; new: 2.9), 194809 (old: 0; new: 28.2), 194955 (old: 0.4; new: 14.9), 195060 (old: 3.4; new: 5), 195404 (old: 164.9; new: 221.2), 195420 (old: 33.3; new: 143.8), 195568 (old: 6.2; new: 15), 329768 (old: 1.6; new: 3), 329783 (old: 200.8; new: 0.5), 329900 (old: 5363.3; new: 1994.1), 329922 (old: 114.5; new: 1.1), 330011 (old: 1.9; new: 7.7), 330023 (old: 40.5; new: 21.4), 330172 (old: 90; new: 82.3)

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

Number of detected designations: **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.

This test compares size of sites with total area of respective GIS polygons provided in boundary files. Results shows all sites where SIZE is 10 times greater or smaller then respective GIS area and all sites with SIZE > 10 ha where it differ from GIS area more than 50%.

Size of one site can not be bigger than size of country it is coming from, if it is a case there is definite error (test is basing on ISO3 entries and counts in also area of overseas territories), please check if you have entered SIZE in hectares as required and if any comma or point have not disappeared before delivery of data.

Reference source for the country size 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=20262](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20262)

Number of detected records: **639 (9.49 %)**

**Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):**

list of sites (SIZE and GIS area in ha)
7475 (SIZE: 670.1; GIS: 0.2), 7480 (SIZE: 590; GIS: 1.2), 7481 (SIZE: 113.9; GIS: 0.1), 101980 (SIZE: 40.7; GIS: 3), 101984 (SIZE: 118.4; GIS: 0.1), 101985 (SIZE: 189.6; GIS: 0.2), 101987 (SIZE: 109.1; GIS: 2.8), 102095 (SIZE: 359.9; GIS: 3.6), 102133 (SIZE: 326.4; GIS: 2.1), 102140 (SIZE: 249.9; GIS: 0.4), 102141 (SIZE: 184.6; GIS: 1.4), 102150 (SIZE: 117.3; GIS: 2.4), 102154 (SIZE: 93.7; GIS: 3.9), 102169 (SIZE: 20.6; GIS: 0), 149517 (SIZE: 22.9; GIS: 1.8), 149521 (SIZE: 14.2; GIS: 1.3), 149526 (SIZE: 86.4; GIS: 0.4), 149534 (SIZE: 38.3; GIS: 9.1), 149535 (SIZE: 19; GIS: 2.2), 149536 (SIZE: 108.2; GIS: 1.3), 149544 (SIZE: 66.7; GIS: 14.2), 149557 (SIZE: 25.8; GIS: 1.5), 149559 (SIZE: 61.1; GIS: 3.6), 149569 (SIZE: 20.3; GIS: 0.6), 149570 (SIZE: 85.7; GIS: 0.6), 149578 (SIZE: 466.6; GIS: 0.4), 149579 (SIZE: 54; GIS: 3.3), 149583 (SIZE: 24.3; GIS: 0), 149588 (SIZE: 27; GIS: 0), 149613 (SIZE: 17.1; GIS: 29.4), 149655 (SIZE: 3.3; GIS: 0), 149687 (SIZE: 100.3; GIS: 3.1), 149712 (SIZE: 0.1; GIS: 4.6), 149713 (SIZE: 2.6; GIS: 0), 149720 (SIZE: 58.4; GIS: 5.3), 149739 (SIZE: 10.1; GIS: 2.1), 149740 (SIZE: 0.1; GIS: 48.4), 149742 (SIZE: 366.2; GIS: 2.7), 149743 (SIZE: 8.7; GIS: 0.3), 149749 (SIZE: 4.1; GIS: 0.1), 149751 (SIZE: 0.2; GIS: 3), 149755 (SIZE: 5241.1; GIS: 2.7), 149756 (SIZE: 1.4; GIS: 207.2), 149761 (SIZE: 7.7; GIS: 0.3), 149763 (SIZE: 2; GIS: 0.1), 149766 (SIZE: 28.4; GIS: 0.8), 149773 (SIZE: 76.2; GIS: 0), 149781 (SIZE: 78; GIS: 0.2), 149786 (SIZE: 7; GIS: 0.6), 149787 (SIZE: 37; GIS: 2.2), 149802 (SIZE: 22.9; GIS: 0.1), 149804 (SIZE: 93.1; GIS: 2000.5), 149806 (SIZE: 12.9; GIS: 168.4), 149808 (SIZE: 3.6; GIS: 0), 149814 (SIZE: 168.6; GIS: 0.2), 149818 (SIZE: 122.8; GIS: 4.8), 149836 (SIZE: 14.4; GIS: 0.1), 149840 (SIZE: 4.2; GIS: 0.2), 149846 (SIZE: 333.3; GIS: 19.4), 149847 (SIZE: 28.5; GIS: 0.2), 149856 (SIZE: 169.4; GIS: 8.3), 149869 (SIZE: 12; GIS: 2.6), 149873 (SIZE: 5.3; GIS: 0), 149877 (SIZE: 0.1; GIS: 12.9), 149883 (SIZE: 0.4; GIS: 4), 149895 (SIZE: 61.5; GIS: 0.1), 149898 (SIZE: 17.1; GIS: 0.1), 149904 (SIZE: 24.4; GIS: 1.9), 149915 (SIZE: 0.5; GIS: 30.3), 149918 (SIZE: 27.9; GIS: 4.1), 149921 (SIZE: 1.4; GIS: 14.5), 149928 (SIZE: 5.4; GIS: 0), 149931 (SIZE: 46.2; GIS: 1.3), 149938 (SIZE: 3; GIS: 54.2), 149944 (SIZE: 1.1; GIS: 0), 149957 (SIZE: 18.1; GIS: 40.7), 149961 (SIZE: 0.8; GIS: 47.5), 149968 (SIZE: 14.3; GIS: 0.6), 149972 (SIZE: 5.2; GIS: 0.4), 149985 (SIZE: 22.3; GIS: 0.1), 149986 (SIZE: 31.8; GIS: 0.1), 149989 (SIZE: 25.3; GIS: 1.2), 149991 (SIZE: 7.5; GIS: 0), 150020 (SIZE: 9.2; GIS: 0.7), 150032 (SIZE: 0.4; GIS: 7.7), 150038 (SIZE: 2.3; GIS: 0.1), 150042 (SIZE: 16.7; GIS: 0.6), 150043 (SIZE: 4.7; GIS: 0.1), 150044 (SIZE: 18.6; GIS: 0.7), 150055 (SIZE: 0.5; GIS: 35.1), 150058 (SIZE: 0.5; GIS: 0), 150059 (SIZE: 3.4; GIS: 0), 150080 (SIZE: 0.7; GIS: 0), 150097 (SIZE: 0.7; GIS: 13.4), 150103 (SIZE: 15.1; GIS: 3.3), 150117 (SIZE: 27.3; GIS: 1.2), 150125 (SIZE: 0.6; GIS: 17.5), 150132 (SIZE: 2.7; GIS: 0.1), 150133 (SIZE: 0.9; GIS: 0.1), 150145 (SIZE: 114.6; GIS: 3.5), 150153 (SIZE: 60.5; GIS: 1.5), 150158 (SIZE: 124.3; GIS: 0), 150161 (SIZE: 2.9; GIS: 0), 150164 (SIZE: 4.2; GIS: 0.2), 150166 (SIZE: 198.8; GIS: 0.1), 150168 (SIZE: 13.2; GIS: 3.6), 150171 (SIZE: 1.5; GIS: 0), 150173 (SIZE: 6.5; GIS: 0.3), 150185 (SIZE: 16.5; GIS: 0.4), 150189 (SIZE: 69.7; GIS: 3.2), 150198 (SIZE: 20.7; GIS: 0.4), 150211 (SIZE: 1.4; GIS: 36.8), 150212 (SIZE: 1.1; GIS: 24.7), 150213 (SIZE: 20.9; GIS: 6.2), 150217 (SIZE: 1.6; GIS: 0), 150222 (SIZE: 11.3; GIS: 3.4), 150237 (SIZE: 0.5; GIS: 5), 150240 (SIZE: 6.8; GIS: 0.1), 150243 (SIZE: 2.8; GIS: 0.1), 150246 (SIZE: 1.7; GIS: 0), 150252 (SIZE: 55.5; GIS: 3.7), 150257 (SIZE: 1.8; GIS: 28.5), 150258 (SIZE: 200.9; GIS: 6.1), 150261 (SIZE: 32.4; GIS: 2.7), 150262 (SIZE: 6.1; GIS: 0.2), 150271 (SIZE: 0.1; GIS: 1.5), 150275 (SIZE: 30.6; GIS: 1), 150281 (SIZE: 16.5; GIS: 1.8), 150290 (SIZE: 388.9; GIS: 6.4), 150296 (SIZE: 2.4; GIS: 0.2), 150317 (SIZE: 25.5; GIS: 4.5), 150318 (SIZE: 2.4; GIS: 0.1), 150339 (SIZE: 90.9; GIS: 1.1), 150340 (SIZE: 1.4; GIS: 0), 150347 (SIZE: 19.8; GIS: 0.7), 150349 (SIZE: 68; GIS: 0.4), 150352 (SIZE: 1; GIS: 67), 150364 (SIZE: 69.6; GIS: 1.6), 150366 (SIZE: 2.8; GIS: 176.5), 150374 (SIZE: 27.9; GIS: 0), 150376 (SIZE: 0.2; GIS: 4.3), 150387 (SIZE: 25.2; GIS: 2.7), 150391 (SIZE: 120.1; GIS: 12.1), 150396 (SIZE: 10.3; GIS: 4.9), 150398 (SIZE: 149.8; GIS: 0.3), 150417 (SIZE: 0.2; GIS: 5.4), 150425 (SIZE: 29.9; GIS: 1), 150429 (SIZE: 2.2; GIS: 0.1), 150430 (SIZE: 172.9; GIS: 1.3), 150431 (SIZE: 5; GIS: 0), 150437 (SIZE: 10.7; GIS: 0.2), 150438 (SIZE: 5.2; GIS: 130.2), 150447 (SIZE: 0.2; GIS: 3.8), 150448 (SIZE: 19.1; GIS: 0), 150449 (SIZE: 4.8; GIS: 356.4), 150450 (SIZE: 13.3; GIS: 1.2), 150466 (SIZE: 5.3; GIS: 0), 150468 (SIZE: 0.6; GIS: 11.6), 150477 (SIZE: 0.3; GIS: 5), 150481 (SIZE: 9; GIS: 0.6), 150490 (SIZE: 7.3; GIS: 0), 150492 (SIZE: 4; GIS: 0.4), 150498 (SIZE: 23.1; GIS: 1), 150500 (SIZE: 13.2; GIS: 0.6), 150501 (SIZE: 4.2; GIS: 0), 150511 (SIZE: 1.5; GIS: 0.1), 150514 (SIZE: 28.9; GIS: 0.2), 150520 (SIZE: 0.6; GIS: 35.4), 150527 (SIZE: 0.5; GIS: 102.4), 150547 (SIZE: 1.5; GIS: 0), 150548 (SIZE: 4.6; GIS: 0), 150550 (SIZE: 4.1; GIS: 0.3), 150561 (SIZE: 13.2; GIS: 1.4), 150575 (SIZE: 2.2; GIS: 0.2), 150581 (SIZE: 5; GIS: 0.1), 150584 (SIZE: 0.6; GIS: 32.4), 150585 (SIZE: 1.2; GIS: 16.4), 150596 (SIZE: 31.5; GIS: 0.1), 150601 (SIZE: 3.8; GIS: 0), 150602 (SIZE: 0.1; GIS: 1.8), 150626 (SIZE: 0.5; GIS: 5.7), 150631 (SIZE: 10.3; GIS: 0), 150641 (SIZE: 0.8; GIS: 0), 150642 (SIZE: 51.3; GIS: 1.3), 150664 (SIZE: 0.1; GIS: 100.2), 150673 (SIZE: 0.6; GIS: 0), 150676 (SIZE: 68.7; GIS: 8.9), 150685 (SIZE: 17.4; GIS: 0.1), 150696 (SIZE: 74.9; GIS: 0.7),

150708 (SIZE: 2.2; GIS: 1528.9), 150723 (SIZE: 35; GIS: 1.8), 150728 (SIZE: 76.1; GIS: 2.1), 150740 (SIZE: 0.5; GIS: 13.1), 150748 (SIZE: 4; GIS: 0), 150749 (SIZE: 0.9; GIS: 39.9), 150757 (SIZE: 13.1; GIS: 1.2), 150762 (SIZE: 4.8; GIS: 0), 150771 (SIZE: 34.4; GIS: 0.3), 150782 (SIZE: 27; GIS: 0.4), 150784 (SIZE: 91.5; GIS: 0.6), 150788 (SIZE: 5.2; GIS: 0), 150792 (SIZE: 7.1; GIS: 0), 150793 (SIZE: 13.9; GIS: 2.4), 150796 (SIZE: 0.3; GIS: 9.2), 150800 (SIZE: 11.6; GIS: 22.9), 150801 (SIZE: 8.5; GIS: 0.7), 150814 (SIZE: 21.1; GIS: 0.1), 150816 (SIZE: 0.2; GIS: 6.8), 150828 (SIZE: 50.8; GIS: 14), 150833 (SIZE: 1.1; GIS: 0), 150834 (SIZE: 30.3; GIS: 6.7), 150840 (SIZE: 12.8; GIS: 6.1), 150859 (SIZE: 48.6; GIS: 2.2), 150870 (SIZE: 24.8; GIS: 1), 150876 (SIZE: 14.1; GIS: 2108.7), 150882 (SIZE: 0.2; GIS: 8.5), 150883 (SIZE: 6.9; GIS: 0), 150903 (SIZE: 43.5; GIS: 0.1), 150909 (SIZE: 72.6; GIS: 0), 150914 (SIZE: 4.6; GIS: 0.1), 150917 (SIZE: 6.3; GIS: 0.3), 150932 (SIZE: 0.1; GIS: 2.3), 150935 (SIZE: 0.7; 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GIS: 0.6), 151152 (SIZE: 13.6; GIS: 5.2), 151158 (SIZE: 4.7; GIS: 0.2), 151162 (SIZE: 8.7; GIS: 0.6), 151165 (SIZE: 209.7; GIS: 1.1), 151166 (SIZE: 10.6; GIS: 17.6), 151173 (SIZE: 4.7; GIS: 0.1), 151176 (SIZE: 3.9; GIS: 0.3), 151183 (SIZE: 3.9; GIS: 0.1), 151195 (SIZE: 0.7; GIS: 0.1), 151199 (SIZE: 3.8; GIS: 0.3), 151201 (SIZE: 3.2; GIS: 0.2), 151211 (SIZE: 6.3; GIS: 0.2), 151224 (SIZE: 0.6; GIS: 0), 151225 (SIZE: 37.7; GIS: 0.7), 151235 (SIZE: 357.1; GIS: 0.1), 151236 (SIZE: 12.4; GIS: 0.7), 174812 (SIZE: 4; GIS: 0.1), 174823 (SIZE: 11.5; GIS: 0.5), 174830 (SIZE: 38.1; GIS: 10.6), 174831 (SIZE: 21.8; GIS: 10.7), 174834 (SIZE: 8.9; GIS: 0.2), 174842 (SIZE: 1.6; GIS: 173.7), 174847 (SIZE: 1.2; GIS: 96.5), 174848 (SIZE: 3.8; GIS: 0), 174871 (SIZE: 6.3; GIS: 0.6), 174873 (SIZE: 3.9; GIS: 0), 174883 (SIZE: 2.8; GIS: 508.9), 174890 (SIZE: 10.8; GIS: 4.4), 174891 (SIZE: 21.4; GIS: 1), 174906 (SIZE: 11.7; GIS: 2.3), 174916 (SIZE: 174.9; GIS: 7.1), 174922 (SIZE: 2.8; GIS: 0.1), 174924 (SIZE: 0.5; GIS: 7.1), 174937 (SIZE: 3.5; GIS: 0), 174952 (SIZE: 4.6; GIS: 0.5), 174957 (SIZE: 2.6; GIS: 91.6), 174967 (SIZE: 1; GIS: 0), 174971 (SIZE: 13; GIS: 5.4), 174975 (SIZE: 10.3; GIS: 0.7), 174981 (SIZE: 8.3; GIS: 0.3), 174985 (SIZE: 29.1; GIS: 0.2), 174991 (SIZE: 6.1; GIS: 0.2), 174994 (SIZE: 4.2; GIS: 0.1), 175000 (SIZE: 5.1; GIS: 0.2), 175001 (SIZE: 18; GIS: 0.1), 175004 (SIZE: 20.1; GIS: 3.2), 175008 (SIZE: 2.2; GIS: 28.2), 175014 (SIZE: 6.9; GIS: 0.3), 175016 (SIZE: 12.9; GIS: 1.9), 175017 (SIZE: 3.2; GIS: 0.3), 175024 (SIZE: 19.5; GIS: 1.4), 175035 (SIZE: 1.3; GIS: 78.6), 175036 (SIZE: 18.7; GIS: 2.7), 175037 (SIZE: 19.1; GIS: 1), 175040 (SIZE: 2.9; GIS: 0.1), 175042 (SIZE: 14.1; GIS: 345.5), 175047 (SIZE: 3; GIS: 0.3), 175049 (SIZE: 0.6; GIS: 12.5), 175060 (SIZE: 16.4; GIS: 3.4), 175069 (SIZE: 15.6; GIS: 0.5), 175087 (SIZE: 0.7; GIS: 6.9), 175095 (SIZE: 24.6; GIS: 0.5), 175101 (SIZE: 2.2; GIS: 27.7), 175112 (SIZE: 4.9; GIS: 0.2), 175122 (SIZE: 2.4; GIS: 0), 175125 (SIZE: 13.3; GIS: 0), 175127 (SIZE: 2.1; GIS: 0.1), 175128 (SIZE: 8.3; GIS: 0.3), 175134 (SIZE: 18.8; GIS: 169.8), 175136 (SIZE: 30.4; GIS: 1.8), 175137 (SIZE: 20.2; GIS: 0.8), 175141 (SIZE: 53.3; GIS: 6.5), 175142 (SIZE: 10.6; GIS: 1.8), 175145 (SIZE: 29.9; GIS: 6.3), 175149 (SIZE: 5.4; GIS: 0.1), 175255 (SIZE: 12; GIS: 0.4), 175280 (SIZE: 20.6; GIS: 40.2), 175349 (SIZE: 115.5; GIS: 198.8), 175350 (SIZE: 37.6; GIS: 3.9), 175353 (SIZE: 11; GIS: 4.4), 175354 (SIZE: 0.4; GIS: 14.6), 175357 (SIZE: 28.8; GIS: 0.1), 175370 (SIZE: 2.5; GIS: 0), 175373 (SIZE: 81.2; GIS: 4.6), 175374 (SIZE: 11.7; GIS: 18.2), 175382 (SIZE: 52.8; GIS: 0.2), 175388 (SIZE: 78.7; GIS: 1), 175389 (SIZE: 324.5; GIS: 0.1), 175390 (SIZE: 347.6; GIS: 0.3), 175409 (SIZE: 10.8; GIS: 0.9), 175434 (SIZE: 9.6; GIS: 0.2), 175491 (SIZE: 1.5; GIS: 15.6), 175493 (SIZE: 0.6; GIS: 0), 175495 (SIZE: 1.9; GIS: 0.1), 175498 (SIZE: 3.5; GIS: 0.2), 175500 (SIZE: 34.1; GIS: 2.1), 175510 (SIZE: 1.5; GIS: 0.1), 175530 (SIZE: 111.4; GIS: 2.6), 175635 (SIZE: 2.1; GIS: 49.2), 175645 (SIZE: 1.1; GIS: 119), 175655 (SIZE: 1.3; GIS: 72), 175656 (SIZE: 1.9; GIS: 0.1), 175657 (SIZE: 1.1; GIS: 20.1), 175703 (SIZE: 9.7; GIS: 0.5), 175706 (SIZE: 13.4; GIS: 0.2), 175712 (SIZE: 17.5; GIS: 77.1), 175915 (SIZE: 29.6; GIS: 1), 175922 (SIZE: 63.3; GIS: 3.1), 175925 (SIZE: 4.5; GIS: 0.5), 175926 (SIZE: 5.9; GIS: 175.7), 175929 (SIZE: 6.5; GIS: 0.4), 175930 (SIZE: 11; GIS: 0.5), 175947 (SIZE: 2.1; GIS: 0.1), 175954 (SIZE: 2.6; GIS: 0.1), 175968 (SIZE: 2.3; GIS: 64.3), 175974 (SIZE: 5.5; GIS: 0.4), 175978 (SIZE: 3.1; GIS: 0), 175987 (SIZE: 8.9; GIS: 102.3), 175998 (SIZE: 5.2; GIS: 0.1), 176025 (SIZE: 7.8; GIS: 0.1), 176039 (SIZE: 9.1; GIS: 0.3), 176051 (SIZE: 2.1; GIS: 0.1), 176063 (SIZE: 9.2; GIS: 111.8), 176072 (SIZE: 1.1; GIS: 0.1), 176077 (SIZE: 13.9; GIS: 0), 176081 (SIZE: 37.3; GIS: 0.4), 176089 (SIZE: 4.5; GIS: 0.1), 176090 (SIZE: 0.5; GIS: 8.3), 176092 (SIZE: 9.1; GIS: 0.1), 176105 (SIZE: 8.5; GIS: 0.2), 176108 (SIZE: 16.7; GIS: 5.7), 176115 (SIZE: 77.7; GIS: 1.7), 176116 (SIZE: 5.5; GIS: 0.2), 176135 (SIZE: 0.4; GIS: 4.8), 176148 (SIZE: 12.6; GIS: 0.2), 176155 (SIZE: 4.7; GIS: 0.3), 176160 (SIZE: 8.2; GIS: 0.7), 176175 (SIZE: 0.6; GIS: 22.6), 176180 (SIZE: 3.4; GIS: 0), 176185 (SIZE: 9.4; GIS: 0.5), 176204 (SIZE: 1.9; GIS: 60.3), 176206 (SIZE: 14.9; GIS: 88.1), 176234 (SIZE: 16.7; GIS: 0.5), 176252 (SIZE: 16.2; GIS: 4.8), 176254 (SIZE: 2.4; GIS: 0.2), 176261 (SIZE: 1.7; GIS: 24.4), 176265 (SIZE: 3.1; GIS: 98), 176267 (SIZE: 2; GIS: 22.9), 176276 (SIZE: 7.5; GIS: 0), 176277 (SIZE: 227.6; GIS: 1.4), 176280 (SIZE: 4.5; GIS: 0.3), 176282 (SIZE: 10.1; GIS: 0.5), 181131 (SIZE: 21.3; GIS: 63.7), 181132 (SIZE: 50.5; GIS: 16.8), 181135 (SIZE: 47; GIS: 0.1), 181137 (SIZE: 52.2; GIS: 0.4), 181140 (SIZE: 16.8; GIS: 0), 181147 (SIZE: 2.7; GIS: 0.1), 181149 (SIZE: 19.7; GIS: 0.5), 181156 (SIZE: 18.4; GIS: 0.5), 181158 (SIZE: 0.5; GIS: 0), 181197 (SIZE: 5.2; GIS: 118.5), 181229 (SIZE: 0.2; GIS: 3.9), 181278 (SIZE: 15.7; GIS: 0.9), 181282 (SIZE: 56.6; GIS: 0.1), 181290 (SIZE: 0.1; GIS: 23.3), 181327 (SIZE: 18.5; GIS: 0.1), 181329 (SIZE: 5.4; GIS: 0.1), 181358 (SIZE: 17.5; GIS: 0.1), 181370 (SIZE: 3.5; GIS: 0.3), 181387 (SIZE: 1; GIS: 12.8), 181392 (SIZE: 91.7; GIS: 7.1), 181397 (SIZE: 12.3; GIS: 0), 181423 (SIZE: 62.3; GIS: 0.6), 181441 (SIZE: 0.1; GIS: 1.7), 181474 (SIZE: 2.6; GIS: 0.1), 181520 (SIZE: 0.6; GIS: 16), 181526 (SIZE: 2.5; GIS: 0.1), 181580 (SIZE: 1.1; GIS: 14.7), 194485 (SIZE: 0.7; GIS: 34.3), 194490 (SIZE: 0.5; GIS: 29.9), 194501 (SIZE: 1.7; GIS: 0), 194509 (SIZE: 1.1; GIS: 0), 194511 (SIZE: 0.3; GIS: 0), 194512 (SIZE: 1.2; GIS: 0), 194527 (SIZE: 1.6; GIS: 0), 194556 (SIZE: 0.7; GIS: 10.3), 194560 (SIZE: 4.3; GIS: 0.2), 194561 (SIZE: 0.4; GIS: 28.6), 194562 (SIZE: 0.3; GIS: 2.7), 194563 (SIZE: 7.7; GIS: 0), 194565 (SIZE: 1.2; GIS: 0), 194576 (SIZE: 0.7; GIS: 0), 194577 (SIZE: 1.2; GIS: 0.1), 194580 (SIZE: 0.2; GIS: 2), 194585 (SIZE: 9.6; GIS: 0), 194589 (SIZE: 0.1; GIS: 2.6), 194590 (SIZE: 0.2; GIS: 0), 194592 (SIZE: 5.8; GIS: 4.9), 194616 (SIZE: 2.1; GIS: 189.5), 194617 (SIZE: 1; GIS: 0.1), 194627 (SIZE: 0.4; GIS: 5.7), 194633 (SIZE: 0.1; GIS: 1.6), 194640 (SIZE: 0.2; GIS: 2.9), 194649 (SIZE: 4.4; GIS: 0), 194659 (SIZE: 1.2; GIS: 17.3), 194662 (SIZE: 0.7; GIS: 9.6), 194684 (SIZE: 2; GIS: 31.6), 194698 (SIZE: 4.3; GIS: 243.2), 194700 (SIZE: 0.5; GIS: 103.1), 194706 (SIZE: 11.4; GIS: 0.7), 194732 (SIZE: 1.5; GIS: 162.3), 194736 (SIZE: 0.8; GIS: 27.2), 194741 (SIZE: 1; GIS: 0), 194742 (SIZE: 0.5; GIS: 0), 194745 (SIZE: 1.7; GIS: 0.1), 194746 (SIZE: 3.2; GIS: 0), 194759 (SIZE: 0.3; GIS: 0), 194776 (SIZE: 10.1; GIS: 0), 194786 (SIZE: 4.7; GIS: 0.1), 194789 (SIZE: 6.6; GIS: 0.6), 194797 (SIZE: 3; GIS: 0.2), 194802 (SIZE: 12.6; GIS: 0.8), 194817 (SIZE: 0.4; GIS: 26.9), 194831 (SIZE: 2.6; GIS: 0), 194874 (SIZE: 8.2; GIS: 0.7), 194877 (SIZE: 0.5; GIS: 8.8), 194883 (SIZE: 0.3; GIS: 3.1), 194888 (SIZE: 0.5; GIS: 76), 194889 (SIZE: 0.6; GIS: 0), 194903 (SIZE: 0.1; GIS: 3.5), 194904 (SIZE: 0.3; GIS: 3.6), 194911 (SIZE: 0.4; GIS: 24), 194915 (SIZE: 0.5; GIS: 22.5), 194920 (SIZE: 0.7; GIS: 0), 194933 (SIZE: 0.1; GIS: 1.4), 194937 (SIZE: 0.3; GIS: 11.6), 194973 (SIZE: 0.5; GIS: 0.1), 194975 (SIZE: 0.8; GIS: 11.1), 194979 (SIZE: 0.9; GIS: 0),

194986 (SIZE: 0.2; GIS: 1.8), 194987 (SIZE: 1.5; GIS: 0.1), 194995 (SIZE: 0.2; GIS: 0), 194997 (SIZE: 1.8; GIS: 0), 194998 (SIZE: 0.6; GIS: 78.9), 195002 (SIZE: 0.5; GIS: 10.3), 195003 (SIZE: 1.8; GIS: 42.9), 195004 (SIZE: 0.8; GIS: 0), 195005 (SIZE: 2.9; GIS: 0.1), 195012 (SIZE: 3.3; GIS: 33.7), 195056 (SIZE: 14.3; GIS: 1.8), 195090 (SIZE: 2.4; GIS: 0.2), 195126 (SIZE: 0.7; GIS: 0.1), 195127 (SIZE: 2.9; GIS: 0.2), 195192 (SIZE: 20.6; GIS: 0.1), 195210 (SIZE: 8.2; GIS: 0.1), 195222 (SIZE: 0.8; GIS: 26.9), 195270 (SIZE: 5.2; GIS: 261.2), 195319 (SIZE: 16; GIS: 0.3), 195329 (SIZE: 9; GIS: 0), 195410 (SIZE: 4.7; GIS: 0.3), 195421 (SIZE: 8.2; GIS: 0.3), 195424 (SIZE: 11.7; GIS: 0.2), 195435 (SIZE: 10.4; GIS: 21.5), 195449 (SIZE: 63.6; GIS: 2.5), 195455 (SIZE: 73.8; GIS: 2.4), 195522 (SIZE: 10.6; GIS: 2.9), 195540 (SIZE: 12; GIS: 2), 195575 (SIZE: 44.6; GIS: 5.8), 195576 (SIZE: 8.2; GIS: 0), 195577 (SIZE: 5.9; GIS: 0.2), 195578 (SIZE: 54.2; GIS: 0.2), 195579 (SIZE: 195.9; GIS: 2.1), 195580 (SIZE: 17.1; GIS: 1.7), 195608 (SIZE: 4.8; GIS: 0), 195611 (SIZE: 1; GIS: 0.1), 195617 (SIZE: 0.4; GIS: 15.2), 195628 (SIZE: 0.6; GIS: 0), 195629 (SIZE: 0.1; GIS: 33.4), 195633 (SIZE: 0.7; GIS: 22.7), 195636 (SIZE: 0.3; GIS: 7.1), 195637 (SIZE: 0.6; GIS: 0), 195639 (SIZE: 0.9; GIS: 29.5), 195645 (SIZE: 3.4; GIS: 0.1), 195648 (SIZE: 3.1; GIS: 0.1), 195649 (SIZE: 0.5; GIS: 6.1), 195652 (SIZE: 4.3; GIS: 0.3), 195654 (SIZE: 1; GIS: 0), 195658 (SIZE: 1.2; GIS: 113.8), 195659 (SIZE: 3.9; GIS: 595.9), 195665 (SIZE: 2.2; GIS: 0.2), 195666 (SIZE: 2.4; GIS: 27.9), 195669 (SIZE: 1; GIS: 132.9), 195680 (SIZE: 1.4; GIS: 121.5), 195681 (SIZE: 0.4; GIS: 141.1), 195702 (SIZE: 7.1; GIS: 0.2), 195717 (SIZE: 1.1; GIS: 0), 195720 (SIZE: 0.8; GIS: 0), 195721 (SIZE: 0.6; GIS: 0), 195723 (SIZE: 0.2; GIS: 21.4), 195734 (SIZE: 0.7; GIS: 0), 195735 (SIZE: 0.4; GIS: 3.9), 195739 (SIZE: 0.3; GIS: 3), 195755 (SIZE: 2.6; GIS: 0), 195761 (SIZE: 1.4; GIS: 0), 195762 (SIZE: 1.6; GIS: 0), 195766 (SIZE: 0.7; GIS: 146.2), 195768 (SIZE: 0.3; GIS: 4.2), 329746 (SIZE: 0.1; GIS: 7.9), 329748 (SIZE: 2.6; GIS: 0.1), 329752 (SIZE: 0.2; GIS: 567), 329758 (SIZE: 1; GIS: 0), 329765 (SIZE: 0.2; GIS: 3.6), 329792 (SIZE: 0.1; GIS: 70.1), 329798 (SIZE: 0.1; GIS: 21), 329799 (SIZE: 0.2; GIS: 3.7), 329800 (SIZE: 0.9; GIS: 0.1), 329812 (SIZE: 6.3; GIS: 0.3), 329816 (SIZE: 2.6; GIS: 0.1), 329817 (SIZE: 1.5; GIS: 0.1), 329823 (SIZE: 0.7; GIS: 7.4), 329826 (SIZE: 0.8; GIS: 0), 329839 (SIZE: 0.4; GIS: 4.7), 329845 (SIZE: 0.5; GIS: 9.3), 329852 (SIZE: 0.4; GIS: 9.8), 329853 (SIZE: 0.8; GIS: 0.1), 329859 (SIZE: 0.3; GIS: 6.5), 329860 (SIZE: 1.2; GIS: 12.8), 329863 (SIZE: 0.1; GIS: 5.8), 329864 (SIZE: 22.8; GIS: 60.9), 329890 (SIZE: 30.5; GIS: 6), 329922 (SIZE: 1.1; GIS: 15.7), 329940 (SIZE: 0.5; GIS: 143.5), 329943 (SIZE: 0.3; GIS: 0), 329949 (SIZE: 0.3; GIS: 0), 329954 (SIZE: 0.5; GIS: 0), 329959 (SIZE: 1.1; GIS: 0), 329961 (SIZE: 0.2; GIS: 2.5), 329966 (SIZE: 0.5; GIS: 10.7), 329967 (SIZE: 1.1; GIS: 11.2), 329972 (SIZE: 0.1; GIS: 4.4), 329982 (SIZE: 31.4; GIS: 10.5), 329986 (SIZE: 3.1; GIS: 51.3), 329988 (SIZE: 41.2; GIS: 0.1), 330007 (SIZE: 3; GIS: 0.1), 330011 (SIZE: 7.7; GIS: 0), 330054 (SIZE: 0.7; GIS: 9.1), 330058 (SIZE: 0.2; GIS: 4.4), 330080 (SIZE: 3.9; GIS: 0.1), 330105 (SIZE: 39.9; GIS: 0.7), 330117 (SIZE: 9.1; GIS: 0.1), 330120 (SIZE: 2.6; GIS: 0.3), 330123 (SIZE: 50.3; GIS: 351), 330146 (SIZE: 0.1; GIS: 15), 330167 (SIZE: 2.1; GIS: 0.1), 330171 (SIZE: 3.6; GIS: 0.2), 330173 (SIZE: 1.4; GIS: 0), 330244 (SIZE: 3.7; GIS: 0), 330249 (SIZE: 20.1; GIS: 0), 330251 (SIZE: 0.2; GIS: 24.2), 330253 (SIZE: 0.8; GIS: 50), 330261 (SIZE: 43.1; GIS: 2.9), 330263 (SIZE: 41.5; GIS: 2.3), 330268 (SIZE: 3.5; GIS: 0.1), 330277 (SIZE: 14.1; GIS: 0.3), 330284 (SIZE: 27.2; GIS: 4.5), 330301 (SIZE: 7.2; GIS: 0.1), 330307 (SIZE: 5.8; GIS: 93.4), 330311 (SIZE: 4.3; GIS: 0.3), 330312 (SIZE: 0.1; GIS: 14.1), 330315 (SIZE: 0.5; GIS: 53.1), 330347 (SIZE: 20.9; GIS: 3.5), 330379 (SIZE: 0.3; GIS: 8), 330390 (SIZE: 3.4; GIS: 0.2), 330477 (SIZE: 0.5; GIS: 10.4), 330483 (SIZE: 3.6; GIS: 0), 330494 (SIZE: 36.9; GIS: 0.2), 330519 (SIZE: 10.1; GIS: 91.4), 330525 (SIZE: 5.4; GIS: 0.1), 330529 (SIZE: 10.2; GIS: 18.5), 330572 (SIZE: 63.8; GIS: 0.9), 330574 (SIZE: 80.5; GIS: 3.2), 330575 (SIZE: 67.8; GIS: 2.8)

#### **i** 4.2.18 Sites where "IUCN" 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: **5861 (87.09 %)**

**Tabular result is too long to display (> 50 records). Not even a condensed list can be displayed (>3000 records).**

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

As CDDA is feeding also global database of designated areas kept by UNEP-WCMC and counted for IUCN World reports, it is important that IUCN category is there for all records. If site can never have IUCN category, please mark it as N/A and give relevant note at NOTES field.

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)

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

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

Number of detected designations: **3**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
FI16	Private Nature Reserve	0	0	0	3	0.06	3.2
FI93	Site of Species Under Strict Protection	0	0	0	1	1.16	182.7
FI94	Protected Habitat Type	0	0	0	2	0.25	8.6
		<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0.09</b>	<b>194.5</b>

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

Number of detected designations: 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

Change in establishment year of site could refer to correction of error or change in designation that means update of data, please mark it correctly also at the EIONET\_CHNG\_TYPE field (see 4.2.34) and if needed give remark to NOTES field.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=17090](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=17090)

#### Legend - highlightings of result table fields

NOTES   Explanation is missing, error!

Number of detected records: 15 (0.22 %)

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	YEAR		NOTES
						old	new	
194488	LTA200999	FIN	FI94	Riihimäen jalopuumetsä	0.3		2007	Missing lucn-code replaced by 'NA'
194492	LTA201011	FIN	FI94	Pirttivuori	1.2		2006	Missing lucn-code replaced by 'NA'
194522	LTA201166	FIN	FI94	Lehtimäki	0.3	2005	2006	Missing lucn-code replaced by 'NA'
194523	LTA201167	FIN	FI94	Lehtimäki	0.4	2005	2006	Missing lucn-code replaced by 'NA'
194524	LTA201168	FIN	FI94	Lehtimäki	0.6	2005	2006	Missing lucn-code replaced by 'NA'
194525	LTA201169	FIN	FI94	Lehtimäki	0.2	2005	2006	Missing lucn-code replaced by 'NA'
194678	LTA201293	FIN	FI94	Inkerinniemi	0.6	2004	2006	Missing lucn-code replaced by 'NA'
194679	LTA201294	FIN	FI94	Inkerinniemi	0.6	2004	2006	Missing lucn-code replaced by 'NA'
194691	LTA201427	FIN	FI94	Papinsaari	0.5		2006	Missing lucn-code replaced by 'NA'
195064	YSA200401	FIN	FI16	Långån luonnonsuojelualue	8.7	2003	2006	Missing lucn-code replaced by 'NA'
329812	LTA201524	FIN	FI94	Koiravuori	6.3		2006	Missing lucn-code replaced by 'NA'
329829	LTA201698	FIN	FI94	Salopää	2.6		2006	Missing lucn-code replaced by 'NA'
329831	LTA201700	FIN	FI94	Kotkoniemi	1.1		2006	Missing lucn-code replaced by 'NA'
329832	LTA201701	FIN	FI94	Kotkoniemi	0.5		2006	Missing lucn-code replaced by 'NA'
329958	LTA202102	FIN	FI94	Hirtniemen Kirjosniemi	0.2		2006	Missing lucn-code replaced by 'NA'
					24.1			

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

It is important for indicator production (designated area in Europe and per country per year) that all site entries have entry for establishment year, if entry is missing it is an error, if for any reason it is not possible to give year of establishment, please give remark at NOTES field.

Data Dictionary reference/s:

[http://dd.eionet.europa.eu/data\\_element.jsp?mode=view&delem\\_id=17090](http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=17090)

**Legend - highlightings of result table fields**

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

Number of detected designations: **3**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
FI16	Private Nature Reserve	210	3.96	22256.9	2	0.04	2.6
FI92	Temporary Protection Order	2	2.44	30.8	0	0	0
FI94	Protected Habitat Type	43	5.32	104.8	1	0.12	7.7
		<b>255</b>	<b>3.79</b>	<b>22392.5</b>	<b>3</b>	<b>0.04</b>	<b>10.3</b>

**! 4.2.24 Sites where "YEAR" is less than 1872 or greater than 2008**

Number of detected records: **0**

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

It is important for statistical purposes that altitude value of site is there.

Data Dictionary reference/s:

[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)

[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)

**Legend - highlightings of result table fields**

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

Number of detected designations: **5**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
FI16	Private Nature Reserve	1891	35.67	71439.2	1	0.02	1.6
FI92	Temporary Protection Order	71	86.59	829.4	0	0	0
FI93	Site of Species Under Strict Protection	85	98.84	125.8	1	1.16	182.7
FI94	Protected Habitat Type	807	99.75	1260.5	2	0.25	8.6
FI95	Grey Seal Protection Area	2	28.57	3108.9	0	0	0
		<b>2856</b>	<b>42.44</b>	<b>76763.8</b>	<b>4</b>	<b>0.06</b>	<b>192.9</b>

**! 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**

Number of detected records: **0**



**? 4.2.28 Sites where coordinates were changed**

Change in coordinate entry could be just due to update in national database or correction of and error, but if change is remarkable it could refer to real error appearance (for example swapping or shifting in GIS). Please check test results and if needed make corrections. Also mark records properly at EIONET\_CHNG\_TYPE field (see 4.2.34).

Data Dictionary reference/s:

[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)

[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)

Number of detected records: **4093 (60.82 %)**

**Tabular result is too long to display (> 50 records). Not even a condensed list can be displayed (>3000 records).**

**! 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 or are at least are less than 2 km of the nearest boundary of the country. 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)

Number of detected records: **146 (2.17 %)**

**Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):**

list of sites
7501, 40928, 40929, 101984, 101992, 101993, 102001, 149690, 149706, 149742, 149747, 149755, 149757, 149768, 149769, 149774, 149775, 149776, 149777, 149787, 149798, 149809, 149810, 149818, 149846, 149874, 149950, 149977, 150166, 150218, 150222, 150223, 150247, 150278, 150391, 150430, 150432, 150457, 150466, 150487, 150583, 150586, 150691, 150695, 150849, 150858, 150871, 150883, 150886, 150943, 150945, 150957, 150970, 150972, 150973, 151004, 151019, 151076, 151081, 151091, 151094, 151226, 151227, 174874, 174876, 174904, 174907, 174908, 174910, 175130, 175205, 175206, 175207, 175208, 175209, 175254, 175257, 175275, 175276, 175281, 175356, 175367, 175375, 175389, 175392, 175403, 175404, 175409, 175415, 175417, 175429, 175487, 175493, 175494, 175510, 175543, 175544, 175570, 175622, 175684, 175803, 175837, 175867, 181155, 181211, 194511, 194528, 194583, 194628, 194632, 194634, 194637, 194638, 194645, 194689, 194948, 194950, 195039, 195040, 195041, 195303, 195371, 195439, 195452, 195644, 329757, 329762, 329900, 330163, 330164, 330165, 330189, 330370, 330373, 330374, 330403, 330405, 330406, 330407, 330413, 345256, 345257, 345470, 345661, 345678, 345772

**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: **13**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
FI01	Strict Nature Reserve	16	84.21	136147	0	0	0
FI02	National Park	33	94.29	879218.8	0	0	0
FI03	State Nature Reserve	37	92.5	41819	0	0	0
FI11	Wilderness Area	12	100	1490311.6	0	0	0
FI13	State Forest Protected by Decision of the Forest and Park Service	24	100	807.2	0	0	0
FI16	Private Nature Reserve	5291	99.81	152838.4	3	0.06	3.2
FI92	Temporary Protection Order	82	100	891.3	0	0	0
FI93	Site of Species Under Strict Protection	85	98.84	125.7	1	1.16	182.7
FI94	Protected Habitat Type	807	99.75	1260.5	2	0.25	8.6
FI95	Grey Seal Protection Area	6	85.71	18054.9	0	0	0
FI96	Old Growth Forest Reserve	92	100	10226	0	0	0
FI97	Herb Rich Forest Reserve	52	100	1229.4	0	0	0
FI98	Protected Mire	159	92.98	432458.6	0	0	0
		<b>6696</b>	<b>99.49</b>	<b>3165388.4</b>	<b>6</b>	<b>0.09</b>	<b>194.5</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)

Number of detected records: **6044 (89.81 %)**

**Tabular result is too long to display (> 200 records). Here is short summary:**

Number of edited sites where EIONET\_CHNG\_DATE is either empty or it wasn't changed: **0**

Number of edited sites where EIONET\_CHNG\_TYPE is either empty or incorrect: **35**

Number of edited sites where EIONET\_EDITED\_BY is empty: **0**

Number of edited sites where EIONET\_INSTITUTE is empty: **0**



### **4.3 Sitehabitats table**

Table contains no records!