

ANNEX 1 – Accuracy Assessment Statistical Report



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GeoVIS / Mapping Accuracy Program

GeoVIS is a vector-based editing system specifically designed for thematic interpretation. It is a user-friendly system that embeds the main tools of vector drawing and editing, including topological functions, with advanced capabilities of raster management and a direct link with LCCS (Land Cover Classification System).

SUMMARY

The present Accuracy Statistical Report is generated automatically by the GeoMAP Mapping Accuracy Program, after the completion of the accuracy assessment work. For each one of the 477 polygon randomly extracted, all the information collected in the assessment phase were stored and elaborated by the software. The initial "[SUMMARY OF CHECKED POLYGONS](#)" table summarizes the results according to two different approaches: a Map approach and a Surface approach.

In the Map approach the polygon is the accuracy's unit of measurement, while in the Surface approach the area checked is the accuracy's unit of measurement, i.e. in the Map approach a polygon with a bad delineation is considered wrong, even if only a portion of it is wrong; on the reverse, the Surface approach takes into account also the right portion of polygon with a not precise delineation.

Blue (map accuracy based on number of fully correct polygons) = percentage of correct polygons against the total amount of polygons checked.

Green (map accuracy based on number of fully correct polygons) = percentage of polygons' correct area against the total polygon's area checked; in this case, even if a portion of the polygon has a correct interpretation, the area of the whole polygon is considered wrong.

Red (surface accuracy based on ratio between correct and total surface checked) = percentage of correct area against the total area checked; in this case the total amount of correct surface is taken into consideration, also the portion of correct area of polygons with a not precise delineation.

The "[EXPANSION TO ALL POLYGONS](#)" table represents the expansion of proportion of correct photointerpretation to all polygons of each stratum.

The "[CONFUSION MATRIX](#)" table presents a summary of MAP ACCURACY based on proportion of correct area and number of correct polygons. It presents also information about Omission/Commission errors.

The "[LEGEND](#)" table shows a description of the stratum taken into consideration for the accuracy assessment.

After the tables showing the Sample Setting information, Stratification Details and other general information, the Stratum Statistic are shown. Each of the 39 strata taken into consideration are analyzed and statistics are given.

The classes N.18 and N.28 showed a low general accuracy. For this reason a further revision of the land cover interpretation was carried out. Particular attention was given to classes showing low accuracy, and a specific check was done for classes N.18 and N.28. At the end of the final revision, an additional accuracy assessment was performed specifically for the two classes quoted above. The results of the new assessment for these two classes are displayed at the end of the Report in the chapter [Additional Accuracy Assessment Statistical Report](#) .

**MAP ACCURACY ESTIMATE
(Confusion Matrix)**

- [Configuration](#)
- [Summary of correct photointerpretation](#)
- [Expansion to total of correct photointerpretation](#)
- [Confusion Matrix](#)**

CONFIGURATION

Configuration created on 13/11/2008 (1)

SUMMARY OF CHECKED POLYGONS

Correct photointerpretation by MAP and SURFACE approach

STRATUM (CLASS OR GROUP)	Correct Photointerpretation						Total Checked	
	MAP Approach				SURFACE Approach		Number	Area
	Number	Area	Number	Area	Area			
11182-5671-S1099Zs1W7 - Permanently Cropped Area With Rainfed Needleleaved Evergreen Tree Crop(s)Dominant Crop: Wood and Timber - Other wood/timber - Casaurina sp.Crop Cover: Plantation(s)	5	100,00%	20.427.781,79	100,00%	20.427.781,79	100,00%	5	20.427.781,79
11204-13227-S0604 - Permanently Cropped Area With Surface Irrigated Shrub Crop(s)Dominant Crop: Fruits & Nuts - Banana (Musa spp.)	0	0,00%					0	0,00
11221 - Rainfed Herbaceous Crop(s)	5	100,00%	11.043.751,68	100,00%	11.043.751,68	100,00%	5	11.043.751,68
11221 + 20227 - Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees	2	66,67%	8.329.535,85	94,04%	8.329.535,85	94,04%	3	8.857.461,85
11229 - Permanently Cropped Area With Irrigated Herbaceous Crop(s)	4	80,00%	8.366.878,02	98,84%	8.425.553,48	99,53%	5	8.465.165,02
11239-12635-S0915 - Permanently Cropped Area With Surface Irrigated Herbaceous Crop(s) (One Additional Crop) (Herbaceous Terrestrial Crop Sequentially) .Dominant Crop: Industrial Crops - Sugar Cane (Saccharum officinarum)	5	100,00%	45.410.720,36	100,00%	45.410.720,36	100,00%	5	45.410.720,36
11241 - Small Sized Field(s) Of Rainfed Herbaceous Crop(s)	2	40,00%	4.654.224,76	28,06%	13.238.765,17	79,81%	5	16.588.034,00
11241 + 20227 - Small Sized Field(s) Of Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees	97	88,99%	10.749.690.098,02	99,86%	10.757.434.980,04	99,93%	109	10.765.124.732,79
11247 - Permanently Cropped Area With Small Sized Field(s) Of Post Flooding Cultivation Of Herbaceous Crop(s)	7	70,00%	4.585.618,38	44,33%	6.447.619,48	62,33%	10	10.344.895,34
11453 - Permanently Cropped Area With Small Sized Field(s) Of Irrigated Herbaceous Crop(s)	3	100,00%	26.508.935,15	100,00%	26.508.935,15	100,00%	3	26.508.935,15
20090 - Broadleaved Deciduous Trees	9	69,23%	131.567.491,63	92,65%	136.473.895,48	96,10%	13	142.008.503,64
20090-13152(1)[Z1] - Broadleaved Deciduous High Trees	8	80,00%	129.498.397,78	97,23%	132.197.579,83	99,26%	10	133.187.916,62
20153 - Broadleaved Deciduous Thicket	7	70,00%	19.212.698,19	76,79%	19.463.084,42	77,79%	10	25.020.522,97
21102-3012 - Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous	2	66,67%	4.553.140,76	87,79%	4.553.140,76	87,79%	3	5.186.422,98
211041-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous and Emergents	14	87,50%	144.020.672,87	99,37%	144.309.284,75	99,57%	16	144.932.013,81
21104-3012 - Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous and Emergents	20	86,96%	278.270.852,94	98,48%	281.109.031,02	99,48%	23	282.566.116,29
21102-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous	9	90,00%	44.271.752,68	96,44%	44.683.715,46	97,34%	10	45.906.083,21
21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation	5	50,00%	10.269.788,29	44,69%	12.729.072,57	55,39%	10	22.980.215,87
21642-121340 - Closed to Open (100-40)% Herbaceous Vegetation with Trees and Shrubs	16	64,00%	63.281.834,77	84,67%	70.303.371,82	94,06%	25	74.740.538,84
22687-3011 - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer	17	73,91%	621.675.460,84	97,50%	628.222.845,37	98,53%	23	637.624.558,53
22687-3011(1)[Z1] - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer	12	85,71%	16.068.178,97	93,92%	16.369.026,78	95,68%	14	17.107.499,92
22687-6021 - Broadleaved Deciduous (40 - (20-10)%) Woodland With Open Shrubs And Open Herbaceous Layer	22	78,57%	94.171.797,33	95,12%	95.809.232,27	96,77%	28	99.006.779,36
3610-16-S0308 - Large To Medium Sized Field(s) Of Graminoid Crops With Sequential Cropping On Permanently Flooded Land (With One	9	100,00%	11.252.248,26	100,00%	11.252.248,26	100,00%	9	11.252.248,26

Additional Crop) (Herbaceous Terrestrial)Dominant Crop: Cereals - Rice (Oryza spp.)								
3685-L13S0308 - Small Sized Field(s) Of Graminoid Crops On Waterlogged SoilMajor Landclass: Level Land, DepressionDominant Crop: Cereals - Rice (Oryza spp.)	8	88,89%	4.528.659,75	70,78%	5.026.781,65	78,57%	9	6.397.879,41
40047-L15L5N1110R1Zt2 - Woodland On Temporarily Flooded Land.Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost FlatSoils: Subsurface: FluvisolsWater Quality: Fresh WaterFloristic Aspect: Acacia nilotica	2	100,00%	353.349,60	100,00%	353.349,60	100,00%	2	353.349,60
41899-67278-R2Zt3 - Closed to Open (100-40)% Broadleaved Evergreen Shrubs On Permanently Flooded Land (With Daily Variations)Water Quality: Brackish WaterFloristic Aspect: Rizophora	8	100,00%	11.304.841,18	100,00%	11.304.841,18	100,00%	8	11.304.841,18
41983-4786 - Closed to Open Medium High Shrubs On Temporarily Flooded Land.	2	100,00%	2.184.193,09	100,00%	2.184.193,09	100,00%	2	2.184.193,09
42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded LandMajor Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost FlatWater Quality: Fresh Water	8	38,10%	5.609.528,72	52,80%	7.708.771,65	72,56%	21	10.624.371,52
5003-9 - Urban Area(s)	4	80,00%	7.717.514,03	98,86%	7.717.514,03	98,86%	5	7.806.400,03
5003-9-A44Zp1 - Urban Area(s)Built-Up Object: Other - Rural Settlement	32	88,89%	8.284.947,53	91,14%	8.378.108,27	92,16%	36	9.090.601,16
6006 - Loose And Shifting Sands	2	100,00%	797.973,90	100,00%	797.973,90	100,00%	2	797.973,90
6009 - Shifting Sands / Dune(s)	2	100,00%	1.903.486,05	100,00%	1.903.486,05	100,00%	2	1.903.486,05
8003-76 - Non-Perennial Natural Waterbodies (Surface Aspect: Bare Soil) (Water presence 3-1 months)	10	83,33%	6.197.041,84	90,23%	6.702.008,45	97,58%	12	6.867.926,34
8004-18 - Tidal Area (Surface Aspect: Bare Soil)	4	80,00%	5.674.197,19	83,84%	6.176.870,15	91,27%	5	6.767.704,84
Orchard Small & Large (Defined in 11182-W8 - Permanently Cropped Area With Rainfed Tree Crop(s))	2	100,00%	787.238,90	100,00%	787.238,90	100,00%	2	787.238,90
Plantation Small & Large (Defined in 11182-W7 - Permanently Cropped Area With Rainfed Tree Crop(s))Crop Cover: Plantation(s)	2	100,00%	857.984,02	100,00%	857.984,02	100,00%	2	857.984,02
Herbaceous Flooded with Fresh & Brackish Water (Defined in 40055-4723-R1 - Closed Tall Herbaceous Vegetation On Permanently Flooded LandWater Quality: Fresh Water)	4	66,67%	972.186,39	70,05%	1.271.391,60	91,61%	6	1.387.897,70
Bare Soil & Bare Soil Eroded (Defined in 6005 - Bare Soil And/Or Other Unconsolidated Material(s))	5	83,33%	26.986.475,31	95,64%	27.536.914,85	97,59%	6	28.216.345,68
Bare Soil or Sparse Vegetation Flooded with Fresh & Brackish Water (Defined in 8003-3-V1 // 40451 - Non-Perennial Natural Waterbodies (Flowing) (Surface Aspect: Bare Soil)Salinity: Fresh, < 1.000 ppm of TDS // Sparse Shrubs With Sparse Herbaceous Vegetation On Temporarily Flooded Land)	9	69,23%	13.843.159,13	73,56%	14.370.644,48	76,36%	13	18.819.636,25

EXPANSION TO ALL POLYGONS

Expansion of proportion of correct photointerpretation to all polygons of each stratum

STRATUM (CLASS OR GROUP)	Expansion of Correct Photointerpretation			Total	
	MAP Approach		SURFACE Approach	Number	Area
	Number	Area			
11182-5671-S1099Zs1W7 - Permanently Cropped Area With Rainfed Needleleaved Evergreen Tree Crop(s)Dominant Crop: Wood and Timber - Other wood/timber - Casaurina sp.Crop Cover: Plantation(s)	23	73.932.344,92	73.932.344,92	23	73.932.344,92
11204-13227-S0604 - Permanently Cropped Area With Surface Irrigated Shrub Crop(s)Dominant Crop: Fruits & Nuts - Banana (Musa spp.)	0			18	21.237.786,32
11221 - Rainfed Herbaceous Crop(s)	16	97.187.024,33	97.187.024,33	16	97.187.024,33
11221 + 20227 - Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees	71	452.571.666,82	452.571.666,82	107	481.255.660,03
11229 - Permanently Cropped Area With Irrigated Herbaceous Crop(s)	39	57.648.910,51	58.053.192,30	49	58.326.121,11
11239-12635-S0915 - Permanently Cropped Area With Surface Irrigated Herbaceous Crop(s) (One Additional Crop) (Herbaceous Terrestrial Crop Sequentially) .Dominant Crop: Industrial Crops - Sugar Cane (Saccharum officinarum)	9	128.310.958,70	128.310.958,70	9	128.310.958,70
11241 - Small Sized Field(s) Of Rainfed Herbaceous Crop(s)	12	17.273.657,77	49.134.262,06	30	61.564.715,35
11241 + 20227 - Small Sized Field(s) Of Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees	3876	29.594.588.245,93	29.615.910.404,28	4355	29.637.080.788,19
11247 - Permanently Cropped Area With Small Sized Field(s) Of Post Flooding Cultivation Of Herbaceous Crop(s)	34	27.221.054,91	38.274.228,13	48	61.409.158,12
11453 - Permanently Cropped Area With Small Sized Field(s) Of Irrigated Herbaceous Crop(s)	116	233.789.863,83	233.789.863,83	116	233.789.863,83
20090 - Broadleaved Deciduous Trees	361	4.235.913.584,58	4.393.878.918,50	522	4.572.069.758,64
20090-13152(1)[Z1] - Broadleaved Deciduous High Trees	330	1.628.972.217,76	1.662.925.476,15	412	1.675.383.013,41

20153 - Broadleaved Deciduous Thicket	50	154.211.722,41	156.221.460,49	72	200.828.530,44
21102-3012 - Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous	70	200.586.350,90	200.586.350,90	105	228.485.283,96
211041-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous and Emergents	574	8.825.841.845,59	8.843.528.492,87	656	8.881.690.432,52
21104-3012 - Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous and Emergents	783	21.341.904.025,49	21.559.577.287,11	900	21.671.328.028,50
21102-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous	83	335.883.431,22	339.008.933,69	92	348.282.862,31
21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation	77	147.432.465,36	182.737.803,03	153	329.902.602,06
21642-121340 - Closed to Open (100-40)% Herbaceous Vegetation with Trees and Shrubs	652	6.437.486.117,94	7.151.767.671,59	1019	7.603.148.406,47
22687-3011 - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer	666	11.864.021.436,83	11.988.971.374,97	901	12.168.393.169,04
22687-3011(1)[Z1] - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer	489	1.021.645.486,44	1.040.773.963,92	571	1.087.727.495,51
22687-6021 - Broadleaved Deciduous (40 - (20-10)%) Woodland With Open Shrubs And Open Herbaceous Layer	875	7.743.668.312,03	7.878.313.220,93	1113	8.141.244.849,69
3610-16-S0308 - Large To Medium Sized Field(s) Of Graminoid Crops With Sequential Cropping On Permanently Flooded Land (With One Additional Crop) (Herbaceous Terrestrial)Dominant Crop: Cereals - Rice (Oryza spp.)	368	1.123.590.090,88	1.123.590.090,88	368	1.123.590.090,88
3685-L13S0308 - Small Sized Field(s) Of Graminoid Crops On Waterlogged SoilMajor Landclass: Level Land, DepressionDominant Crop: Cereals - Rice (Oryza spp.)	309	511.817.843,03	568.114.338,50	348	723.072.391,61
40047-L15L5N1110R1Zt2 - Woodland On Temporarily Flooded Land.Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost FlatSoils: Subsurface: FluvisolsWater Quality: Fresh WaterFloristic Aspect: Acacia nilotica	52	48.964.378,54	48.964.378,54	52	48.964.378,54
41899-67278-R2Zt3 - Closed to Open (100-40)% Broadleaved Evergreen Shrubs On Permanently Flooded Land (With Daily Variations)Water Quality: Brackish WaterFloristic Aspect: Rizophora	303	1.071.016.695,96	1.071.016.695,96	303	1.071.016.695,96
41983-4786 - Closed to Open Medium High Shrubs On Temporarily Flooded Land.	24	28.222.403,94	28.222.403,94	24	28.222.403,94
42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded LandMajor Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost FlatWater Quality: Fresh Water	56	106.646.561,36	146.556.694,87	147	201.987.144,74
5003-9 - Urban Area(s)	150	510.582.749,53	510.582.749,53	187	516.463.355,39
5003-9-A44Zp1 - Urban Area(s)Built-Up Object: Other - Rural Settlement	1268	260.867.578,34	263.800.924,43	1426	286.235.139,46
6006 - Loose And Shifting Sands	25	46.902.148,91	46.902.148,91	25	46.902.148,91
6009 - Shifting Sands / Dune(s)	3	4.945.143,81	4.945.143,81	3	4.945.143,81
8003-76 - Non-Perennial Natural Waterbodies (Surface Aspect: Bare Soil) (Water presence 3-1 months)	384	493.344.226,84	533.544.433,46	461	546.753.096,17
8004-18 - Tidal Area (Surface Aspect: Bare Soil)	158	670.614.295,14	730.023.523,22	198	799.852.288,92
Orchard Small & Large (Defined in 11182-W8 - Permanently Cropped Area With Rainfed Tree Crop(s))	71	47.552.752,56	47.552.752,56	71	47.552.752,56
Plantation Small & Large (Defined in 11182-W7 - Permanently Cropped Area With Rainfed Tree Crop(s)Crop Cover: Plantation(s))	57	252.967.693,19	252.967.693,19	57	252.967.693,19
Herbaceous Flooded with Fresh & Brackish Water (Defined in 40055-4723-R1 - Closed Tall Herbaceous Vegetation On Permanently Flooded LandWater Quality: Fresh Water)	162	266.457.412,86	348.463.750,39	243	380.395.811,92
Bare Soil & Bare Soil Eroded (Defined in 6005 - Bare Soil And/Or Other Unconsolidated Material(s))	210	389.445.992,79	397.389.470,76	252	407.194.442,00
Bare Soil or Sparse Vegetation Flooded with Fresh & Brackish Water (Defined in 8003-3-V1 // 40451 - Non-Perennial Natural Waterbodies (Flowing) (Surface Aspect: Bare Soil)Salinity: Fresh, < 1.000 ppm of TDS // Sparse Shrubs With Sparse Herbaceous Vegetation On Temporarily Flooded Land)	373	755.559.329,90	784.349.469,44	539	1.027.175.345,39

LEGEND

CLASS	DESCRIPTION
1. 11182-5671-S1099Zs1W7	- "Plantations forestières à feuilles sous forme d'aiguilles sempervirente (filao) de moyennes grandessurfaces (>2 ha)." - "Permanently Cropped Area With Rainfed Needleleaved Evergreen Tree Crop(s) Dominant Crop: Wood and Timber - Other wood/timber - Casaurina sp. Crop Cover: Plantation(s)"
2. 11204-13227-S0604	- "Plantations d'arbustes fruitiers, vergers tels que banane sur de moyennes grandessurfaces irriguées (>2 ha)." - "Permanently Cropped Area With Surface Irrigated Shrub Crop(s) Dominant Crop: Fruits & Nuts - Banana (Musa spp.)"
3. 11221	- "Culture pluviale; herbacée annuelle sur moyennes grandes surface (>2 ha); arachide, du mil, du maïs, sorgho, riz de plateau, niébé etc." - "Rainfed Herbaceous Crop(s)"
4. 11221 + 20227	- "Culture pluviale; herbacée annuelle sur moyennes grandes surfaces (>2 ha) avec des arbres épars (4-15%); arachide, du mil, du maïs, sorgho, riz de plateau, niébé etc." - "Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees"
5. 11229	- "Culture irriguée herbacée sur moyennes grandes surfaces (>2 ha)." - "Permanently Cropped Area With Irrigated Herbaceous Crop(s)"
6. 11239-12635-S0915	- "Culture irriguée herbacée sur moyennes grandes surface (>2 ha). Deux récoltes par an: canne à sucre." - "Permanently Cropped Area With Surface Irrigated Herbaceous Crop(s) (One Additional Crop) (Herbaceous Terrestrial Crop Sequentially) . Dominant Crop: Industrial Crops - Sugar Cane (Saccharum officinarum)"
7. 11241	- "Culture pluviale herbacée annuelle sur petites surfaces (<2 ha); arachide, du mil, du maïs, sorgho, niébé, etc." - "Small Sized Field(s) Of Rainfed Herbaceous Crop(s)"
8. 11241 + 20227	- "Culture pluviale herbacée annuelle sur petites surfaces (<2 ha) avec des arbres épars (1-15%); arachide, du mil, du maïs, sorgho, riz de plateau, niébé etc." - "Small Sized Field(s) Of Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees"
9. 11247	- "Cultures de décrues sur de petites surfaces (<2 ha)." - "Permanently Cropped Area With Small Sized Field(s) Of Post Flooding Cultivation Of Herbaceous Crop(s)"
10. 11453	- "Culture irriguée herbacée sur petit surface (<2 ha)." - "Permanently Cropped Area With Small Sized Field(s) Of Irrigated Herbaceous Crop(s)"
11. 20090	- "Arbres fermés (>65%); une seule strate prise en compte." - "Broadleaved Deciduous Trees"
12. 20090-13152(1)[Z1]	- "Arbres fermés (>65%); une seule strate prise en compte." - "Broadleaved Deciduous High Trees"
13. 20153	- "Arbustes fermées (>65%) avec des hauteurs non définies." - "Broadleaved Deciduous Thicket"
14. 21102-3012	- "Arbustes très ouverts (15-40%)" - "Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous"
15. 211041-1	- "Arbustes ouverts (40-65%) avec des herbacées ouvertes à fermées (15-100%) et des arbres épars (4-15%)" - " Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous and Emergents"
16. 21104-3012	- "Arbustes très ouverts (15-40%) avec des arbres épars (4-15%)." - " Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous and Emergents"
17. 21102-1	

- "Arbustes ouverts (40-65%) avec des herbacées ouvertes à fermées (15-100%)." - "Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous"

18. 21454-121340 - "Herbacées ouvertes à fermées (40-100%) avec des arbres et arbustes négligeables (< 4%)." - "Herbaceous Closed to Open (100-40)% Vegetation"

19. 21642-121340 - "Tapis herbacé ouvert à fermé (40-100%) avec des arbres et arbustes epars (4-15%)." - "Closed to Open (100-40)% Herbaceous Vegetation with Trees and Shrubs"

20. 22687-3011 - "Arbres ouverts (40-65%) avec strate arbustive ouvert (15-65%) et herbacées; la hauteur des arbres et arbustes n'est pas définie." - "Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer"

21. 22687-3011(1)[Z1] - "Arbres ouverts (40-65%) avec strate arbustive ouverte (15-65%) et herbacées; la hauteur des arbres et arbustes n'est pas définie. Foret galerie." - "Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer"

22. 22687-6021 - "Arbres très ouverts (15-40%) avec des arbustes et herbacées ouverts (15-65%)." - "Broadleaved Deciduous (40 - (20-10)%) Woodland With Open Shrubs And Open Herbaceous Layer"

23. 3610-16-S0308 - "Riz irrigué sur moyennes grandes surfaces (>2 ha), alternés avec du maïs ou autre culture herbacée." - "Large To Medium Sized Field(s) Of Graminoid Crops With Sequential Cropping On Permanently Flooded Land (With One Additional Crop) (Herbaceous Terrestrial) Dominant Crop: Cereals - Rice (Oryza spp.)"

24. 3685-L13S0308 - "Riz sur petites surfaces (<2 ha) des sols humides et des zones depressionnaire du sud (Casamance)." - "Small Sized Field(s) Of Graminoid Crops On Waterlogged Soil Major Landclass: Level Land, Depression Dominant Crop: Cereals - Rice (Oryza spp.)"

25. 40047-L15L5N1110R1Zt2 - "Arbres ouverts (15-65%) saisonnièrement inondés (2-4 mois), principalement localisés dans la vallée du fleuve Sénégal." - "Woodland On Temporarily Flooded Land. Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Soils: Subsurface: Fluvisols Water Quality: Fresh Water Floristic Aspect: Acacia nilotica"

26. 41899-67278-R2Zt3 - "Arbustes de Mangroves ouvertes à fermée (40-100%) en permanence inondées; eau saline." - "Closed to Open (100-40)% Broadleaved Evergreen Shrubs On Permanently Flooded Land (With Daily Variations) Water Quality: Brackish Water Floristic Aspect: Rizophora"

27. 41983-4786 - "Arbuste ouvert à fermè (15-100%) en zone saisonnièrement inondés (2-4 mois)." - "Closed to Open Medium High Shrubs On Temporarily Flooded Land."

28. 42348-4732-L15L5R1 - "Herbacée ouvertes à fermée (40-100%) saisonnièrement inondés (2-4 mois); eau douce dans le vallée." - "Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Water Quality: Fresh Water"

29. 5003-9 - "Zone Urbaine." - "Urban Area(s)"

30. 5003-9-A44Zp1 - "Village" - "Urban Area(s) Built-Up Object: Other - Rural Settlement"

31. 6006 - "Sable nu." - "Loose And Shifting Sands"

32. 6009 - "Dune vive." - "Shifting Sands / Dune(s)"

33. 8003-76 - "Sols nus en zone saisonnièrement inondés (1-3 mois)." - "Non-Perennial Natural Waterbodies (Surface Aspect: Bare Soil) (Water presence 3-1 months)"

34. 8004-18 - "Sol Nu Marécageux" - "Tidal Area (Surface Aspect: Bare Soil)"

35. [Orchard Small & Large]

11182 -W8* - "Plantations d'arbres fruitiers, verger sur de moyennes grandessurfaces (> 2 ha); orangers, manguiers etc." - "Permanently Cropped Area With Rainfed Tree Crop(s) Crop Cover: Orchard(s) "

11192-W8 - "Plantations d'arbres fruitiers, sur de petites surfaces (<2 ha); orangers, manguiers, etc." - "Permanently Cropped Area With Small Sized Field(s) Of Rainfed Tree Crop(s) Crop Cover: Orchard(s)"

36. [Plantation Small & Large]

11182-W7 * - "Plantations forestières sur de moyennes grandessurfaces (>2 ha)." - "Permanently Cropped Area With Rainfed Tree Crop(s) Crop Cover: Plantation(s)"

11192-W7 - "Plantations forestières sur de petites surfaces (<2 ha)." - "Permanently Cropped Area With Small Sized Field(s) Of Rainfed Tree Crop(s) Crop Cover: Plantation(s)"

37. [Herbaceous Flooded with Fresh & Brackish Water]

40055-4723-R1 * - "Herbacée aquatique d'eau douce fermée (65-100%), hauteur (0.8-3 m) en permanence inondée (> 4 mois)." - "Closed Tall Herbaceous Vegetation On Permanently Flooded Land Water Quality: Fresh Water"

42347-60686-R2Zt1 - "Herbacée ouvertes à fermée (40-100%) en permanence inondes (> 4 mois); eau salée avec présence d'espèce halophyte." - "Closed to Open Herbaceous Vegetation On Permanently Flooded Land Water Quality: Brackish Water Floristic Aspect: allophitic sp."

38. [Bare Soil & Bare Soil Eroded]

6005 * - "Sols nus." - "Bare Soil And/Or Other Unconsolidated Material(s)"

6005-Q3U1 - "Soil nu erodé" - "Bare Soil And/Or Other Unconsolidated Material(s) Erosion: Water Erosion Scattered Vegetation: Scattered Vegetation Present"

39. [Bare Soil or Sparse Vegetation Flooded with Fresh & Brackish Water]

8003-3-V1 // 40451 * - "Sols nus ou couverts par une végétation clairsemée d'arbustes ou d'herbacées en zone saisonnièrement inondes (2-4 mois)." - "Non-Perennial Natural Waterbodies (Flowing) (Surface Aspect: Bare Soil) Salinity: Fresh, < 1.000 ppm of TDS // Sparse Shrubs With Sparse Herbaceous Vegetation On Temporarily Flooded Land"

8003-8-V3 // 40449-4891-R3 - "Sols nus ou couverts par une végétation clairsemée d'arbustes ou herbacées en zone saisonnièrement inondes (2-4 mois); eau saline." - "Non-Perennial Natural Waterbodies (Standing) (Surface Aspect: Sand) Salinity: Moderately Saline // Sparse Shrubs With Sparse Herbaceous Vegetation On Permanently Flooded Land (With Daily Variations) Water Quality: Saline Water"

MAP ACCURACY ESTIMATE (Statistical report)

Configuration

Sample Settings

General Information

Stratification Details

Stratum (Class or Group) Statistics

11182-5671-S1099Zs1W7 - Permanently Cropped Area With Rainfed Needleleaved Evergreen Tree Crop(s) Dominant Crop: Wood and Timber - Other wood/timber - Casaurina sp. Crop Cover: Plantation(s)

11204-13227-S0604 - Permanently Cropped Area With Surface Irrigated Shrub Crop(s) Dominant Crop: Fruits & Nuts - Banana (Musa spp.)

11221 - Rainfed Herbaceous Crop(s)

11221 + 20227 - Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees

11229 - Permanently Cropped Area With Irrigated Herbaceous Crop(s)

11239-12635-S0915 - Permanently Cropped Area With Surface Irrigated Herbaceous Crop(s) (One Additional Crop) (Herbaceous Terrestrial Crop Sequentially) .Dominant Crop: Industrial Crops - Sugar Cane (Saccharum officinarum)

11241 - Small Sized Field(s) Of Rainfed Herbaceous Crop(s)

11241 + 20227 - Small Sized Field(s) Of Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees

11247 - Permanently Cropped Area With Small Sized Field(s) Of Post Flooding Cultivation Of Herbaceous Crop(s)

11453 - Permanently Cropped Area With Small Sized Field(s) Of Irrigated Herbaceous Crop(s)

20090 - Broadleaved Deciduous Trees

20090-13152(1)[Z1] - Broadleaved Deciduous High Trees

20153 - Broadleaved Deciduous Thicket

21102-3012 - Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous

211041-1 –Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous and Emergents

21104-3012 –Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous and Emergents

21102-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous

21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation

21642-121340 - Closed to Open (100-40)% Herbaceous Vegetation with Trees and Shrubs

22687-3011 - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer

22687-3011(1)[Z1] - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer

22687-6021 - Broadleaved Deciduous (40 - (20-10)%) Woodland With Open Shrubs And Open Herbaceous Layer

3610-16-S0308 - Large To Medium Sized Field(s) Of Graminoid Crops With Sequential Cropping On Permanently Flooded Land (With One Additional Crop) (Herbaceous Terrestrial) Dominant Crop: Cereals - Rice (Oryza spp.)

3685-L13S0308 - Small Sized Field(s) Of Graminoid Crops On Waterlogged Soil Major Landclass: Level Land, Depression Dominant Crop: Cereals - Rice (Oryza spp.)

40047-L15L5N1110R1Zt2 - Woodland On Temporarily Flooded Land. Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Soils: Subsurface: Fluvisols Water Quality: Fresh Water Floristic Aspect: Acacia nilotica

41899-67278-R2Zt3 - Closed to Open (100-40)% Broadleaved Evergreen Shrubs On Permanently Flooded Land (With Daily Variations)Water Quality: Brackish WaterFloristic Aspect: Rizophora

41983-4786 - Closed to Open Medium High Shrubs On Temporarily Flooded Land.

42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded LandMajor Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost FlatWater Quality: Fresh

Water

5003-9 - Urban Area(s)

5003-9-A44Zp1 - Urban Area(s)Built-Up Object: Other - Rural Settlement

6006 - Loose And Shifting Sands

6009 - Shifting Sands / Dune(s)

8003-76 - Non-Perennial Natural Waterbodies (Surface Aspect: Bare Soil) (Water presence 3-1 months)

8004-18 - Tidal Area (Surface Aspect: Bare Soil)

Orchard Small & Large (Defined in 11182-W8 - Permanently Cropped Area With Rainfed Tree Crop(s) Crop Cover: Orchard(s))

Plantation Small & Large (Defined in 11182-W7 - Permanently Cropped Area With Rainfed Tree Crop(s)Crop Cover: Plantation(s))

Herbaceous Flooded with Fresh & Brackish Water (Defined in 40055-4723-R1 - Closed Tall Herbaceous Vegetation On Permanently Flooded LandWater Quality: Fresh Water)

Bare Soil & Bare Soil Eroded (Defined in 6005 - Bare Soil And/Or Other Unconsolidated Material(s))

Bare Soil or Sparse Vegetation Flooded with Fresh & Brackish Water (Defined in 8003-3-V1 // 40451 - Non-Perennial Natural Waterbodies (Flowing) (Surface Aspect: Bare Soil)Salinity: Fresh, < 1.000 ppm of

TDS // Sparse Shrubs With Sparse Herbaceous Vegetation On Temporarily Flooded Land)

Statistics for All Selected Strata

SAMPLE SETTINGS

Extraction type

Apply Criteria

Geographical area

D:\SENEGAL\Accuracy

Assessment\shapes\mergehires_z28.shp

Size criterium

No

Original sample size (from configuration)

415

Current sample size (also re-extracted)

477

CONFIGURATION

Configuration

Configuration created on 13/11/2008 (1)

STRATIFICATION DETAILS

Number of selected strata

39

Number of selected strata with no polygons

1

GENERAL INFORMATION

Total number of strata

51

Total number of polygons

23843

Total area

196.590.721.541,90

Total number of polygons of selected strata	15991
Number of extracted polygons	477
% of extracted polygons over selected strata	2,98%
% of extracted polygons over all strata (selected and not)	2,00%

Total area of polygons of selected strata	105.275.869.176,85
Area of extracted polygons	12.668.458.727,95
% of area of extracted polygons over selected strata	12,03%
% of area of extracted polygons over all strata (selected and not)	6,44%

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STRATUM (CLASS OR GROUP) STATISTICS

Class name: 11182-5671-S1099Zs1W7 - Permanently Cropped Area With Rainfed Needleleaved Evergreen Tree Crop(s) Dominant Crop: Wood and Timber - Other wood/timber - Casaurina sp. Crop Cover: Plantation(s)

General information:

Total number of polygons		23
Number of extracted polygons		5
Number of checked polygons		5
Number of correct polygons	(100,00%)	5
Number of wrong polygons	(0,00%)	0
Number of small polygons		4
Number of large polygons		1

Total area		73.932.344,92
Extracted area		20.427.781,79
Checked area		20.427.781,79
Correct area	(100,00%)	20.427.781,79
Wrong area	(0,00%)	0,00

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±10,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	73.932.344,92
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	93.967.796,24
Variance	6.423.329.430.537.210,00
Standard Deviation	80.145.676,31
Coefficient of Variation	85,29%
Confidence Interval (95 %)	±67.596.383,80

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	23,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

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Statistics for each selected classifier:

SAME CLASSIFIER

Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Tree Crops	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%
A8 - Needleleaved	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%
A9 - Evergreen	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%
B1 - Large To Medium Sized Field(s)	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%
C1 - Monoculture	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%
D1 - Rainfed Cultivation	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%
D9 - Permanently Cropped Area	5	5	100,00%	20.427.781,79	20.427.781,79	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Tree Crops	5			20.427.781,79		
A8 - Needleleaved	5			20.427.781,79		
A9 - Evergreen	5			20.427.781,79		
B1 - Large To Medium Sized Field(s)	5			20.427.781,79		
C1 - Monoculture	5			20.427.781,79		
D1 - Rainfed Cultivation	5			20.427.781,79		
D9 - Permanently Cropped Area	5			20.427.781,79		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Tree Crops	5			20.427.781,79		
A8 - Needleleaved	5			20.427.781,79		
A9 - Evergreen	5			20.427.781,79		
B1 - Large To Medium Sized Field(s)	5			20.427.781,79		
C1 - Monoculture	5			20.427.781,79		
D1 - Rainfed Cultivation	5			20.427.781,79		
D9 - Permanently Cropped Area	5			20.427.781,79		

Repairable and not repairable errors:

LEVEL OF ERROR								
(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A1 - Tree Crops								
A8 - Needleleaved								
A9 - Evergreen								
B1 - Large To Medium Sized Field(s)								
C1 - Monoculture								
D1 - Rainfed Cultivation								
D9 - Permanently Cropped Area								

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Class name: 11204-13227-S0604 - Permanently Cropped Area With Surface Irrigated Shrub Crop(s)Dominant Crop: Fruits & Nuts - Banana (Musa spp.)

General information:

Total number of polygons	18	Total area	21.237.786,32
Number of extracted polygons	0	Extracted area	0,00
Number of checked polygons	0	Checked area	0,00
Number of correct polygons	(0,00%)	Correct area	(0,00%) 0,00
Number of wrong polygons	(0,00%)	Wrong area	(0,00%) 0,00
Number of small polygons	0		
Number of large polygons	0		

Statistics for the class or group:

SURFACE ACCURACY %

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 0, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	0,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	0,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±100,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	100,00%
Omission Error	100,00%

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 0, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	0,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 0, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	0,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	0,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %

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Class name: 11221 - Rainfed Herbaceous Crop(s)

General information:

Total number of polygons		16
Number of extracted polygons		5
Number of checked polygons		5
Number of correct polygons	(100,00%)	5
Number of wrong polygons	(0,00%)	0
Number of small polygons		2
Number of large polygons		3

Total area		97.187.024,33
Extracted area		11.043.751,68
Checked area		11.043.751,68
Correct area	(100,00%)	11.043.751,68
Wrong area	(0,00%)	0,00

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±10,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	97.187.024,33
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	35.340.005,38
Variance	147.181.776.252.464,00
Standard Deviation	12.131.849,66
Coefficient of Variation	34,33%
Confidence Interval (95 %)	±9.590.348,78

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	16,00
Variance	0,00
Standard Deviation	0,00

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	5	5	100,00%	11.043.751,68	11.043.751,68	100,00%
B1 - Large To Medium Sized Field(s)	5	5	100,00%	11.043.751,68	11.043.751,68	100,00%
C1 - Monoculture	5	5	100,00%	11.043.751,68	11.043.751,68	100,00%
D1 - Rainfed Cultivation	5	5	100,00%	11.043.751,68	11.043.751,68	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	5			11.043.751,68		
B1 - Large To Medium Sized Field(s)	5			11.043.751,68		
C1 - Monoculture	5			11.043.751,68		
D1 - Rainfed Cultivation	5			11.043.751,68		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	5			11.043.751,68		

B1 - Large To Medium Sized Field(s)	5			11.043.751,68		
C1 - Monoculture	5			11.043.751,68		
D1 - Rainfed Cultivation	5			11.043.751,68		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Herbaceous Crops								
B1 - Large To Medium Sized Field(s)								
C1 - Monoculture								
D1 - Rainfed Cultivation								

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Class name: 11221 + 20227 - Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees

General information:

Total number of polygons		107	Total area	481.255.660,03
Number of extracted polygons		3	Extracted area	8.857.461,85
Number of checked polygons		3	Checked area	8.857.461,85
Number of correct polygons	(66,67%)	2	Correct area	(94,04%) 8.329.535,85
Number of wrong polygons	(33,33%)	1	Wrong area	(5,96%) 527.926,00
Number of small polygons		2		
Number of large polygons		1		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	94,04%
Variance	0,01
Standard Deviation	0,09
Coefficient of Variation	9,90%
Confidence Interval (95 %)	±18,25

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	66,67%
Variance	0,11
Standard Deviation	0,33
Coefficient of Variation	49,29%
Confidence Interval (95 %)	±81,08

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	5,96%
Omission Error	-832953484,96%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	452.571.666,82
Variance	865.533.847.562.895,00
Standard Deviation	29.419.956,62
Coefficient of Variation	6,50%
Confidence Interval (95 %)	±57.663.114,98

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	297.086.778,64
Variance	72.072.538.299.010.500,00
Standard Deviation	268.463.290,41
Coefficient of Variation	90,37%
Confidence Interval (95 %)	±446.200.272,79

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	71,33
Variance	1.236,44
Standard Deviation	35,16
Coefficient of Variation	49,29%
Confidence Interval (95 %)	±58,44

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	3	3	100,00%	8.857.461,85	8.857.461,85	100,00%
B1 - Large To Medium Sized Field(s)	3	2	66,67%	8.857.461,85	8.329.535,85	94,04%
C1 - Monoculture	3	2	66,67%	8.857.461,85	8.329.535,85	94,04%
D1 - Rainfed Cultivation	3	2	66,67%	8.857.461,85	8.329.535,85	94,04%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	3			8.857.461,85		
B1 - Large To Medium Sized Field(s)	3			8.857.461,85		
C1 - Monoculture	3			8.857.461,85		
D1 - Rainfed Cultivation	3			8.857.461,85		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	3			8.857.461,85		
B1 - Large To Medium Sized Field(s)	3			8.857.461,85		
C1 - Monoculture	3			8.857.461,85		
D1 - Rainfed Cultivation	3			8.857.461,85		

Repairable and not repairable errors:

LEVEL OF ERROR								
(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Herbaceous Crops								
B1 - Large To Medium Sized Field(s)							33,33%	5,96%
C1 - Monoculture							33,33%	5,96%
D1 - Rainfed Cultivation							33,33%	5,96%

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Class name: 11229 - Permanently Cropped Area With Irrigated Herbaceous Crop(s)

General information:

Total number of polygons	49	Total area	58.326.121,11
Number of extracted polygons	5	Extracted area	8.465.165,02
Number of checked polygons	5	Checked area	8.465.165,02
Number of correct polygons	(80,00%) 4	Correct area	(98,84%) 8.366.878,02
Number of wrong polygons	(20,00%) 1	Wrong area	(1,16%) 98.287,00
Number of small polygons	3		
Number of large polygons	2		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	99,53%
Variance	0,00
Standard Deviation	0,01

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	58.053.192,30
Variance	240.366.319.315,89
Standard Deviation	490.271,68

Coefficient of Variation **0,59%**
 Confidence Interval (95 %) **±1,16**

Coefficient of Variation **0,84%**
 Confidence Interval (95 %) **±960.932,49**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **80,00%**
 Variance **0,04**
 Standard Deviation **0,19**
 Coefficient of Variation **23,69%**
 Confidence Interval (95 %) **±47,15**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **1,16%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **81.995.404,55**
 Variance **1.900.840.290.102.290,00**
 Standard Deviation **43.598.627,16**
 Coefficient of Variation **53,17%**
 Confidence Interval (95 %) **±39.388.744,96**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **39,20**
 Variance **86,24**
 Standard Deviation **9,29**
 Coefficient of Variation **23,69%**
 Confidence Interval (95 %) **±8,39**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	5	4	80,00%	8.465.165,02	8.366.878,02	98,84%
B1 - Large To Medium Sized Field(s)	5	4	80,00%	8.465.165,02	8.366.878,02	98,84%

B1 - Large To Medium Sized Field(s)								
C1 - Monoculture								
D3 - Irrigated (General)								
D9 - Permanently Cropped Area								

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Class name: 11239-12635-S0915 - Permanently Cropped Area With Surface Irrigated Herbaceous Crop(s) (One Additional Crop) (Herbaceous Terrestrial Crop Sequentially) .Dominant Crop: Industrial Crops - Sugar Cane (Saccharum officinarum)

General information:

Total number of polygons		9	Total area	128.310.958,70
Number of extracted polygons		5	Extracted area	45.410.720,36
Number of checked polygons		5	Checked area	45.410.720,36
Number of correct polygons	(100,00%)	5	Correct area	(100,00%) 45.410.720,36
Number of wrong polygons	(0,00%)	0	Wrong area	(0,00%) 0,00
Number of small polygons		2		
Number of large polygons		3		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	128.310.958,70
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with

Estimate of correct polygon number **100,00%**
 Variance **0,00**
 Standard Deviation **0,00**
 Coefficient of Variation **0,00%**
 Confidence Interval (95 %) **±10,00**

sampling number greater than 30

Correct area estimate **81.739.296,65**
 Variance **517.758.194.073.387,00**
 Standard Deviation **22.754.300,56**
 Coefficient of Variation **27,84%**
 Confidence Interval (95 %) **±14.462.496,33**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **0,00%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **9,00**
 Variance **0,00**
 Standard Deviation **0,00**
 Coefficient of Variation **0,00%**
 Confidence Interval (95 %) **±0,00**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
B1 - Large To Medium Sized Field(s)	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
C2 - Intercropped (Second Crop)	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
C3 - One Additional Crop	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
C7 - Herbaceous Terrestrial Crop (Additional Crop)	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
C19 - Sequential Period	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
D3 - Irrigated (General)	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
D4 - Surface Irrigated	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%
D9 - Permanently Cropped Area	5	5	100,00%	45.410.720,36	45.410.720,36	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	5			45.410.720,36		
B1 - Large To Medium Sized Field(s)	5			45.410.720,36		
C2 - Intercropped (Second Crop)	5			45.410.720,36		
C3 - One Additional Crop	5			45.410.720,36		
C7 - Herbaceous Terrestrial Crop (Additional Crop)	5			45.410.720,36		
C19 - Sequential Period	5			45.410.720,36		
D3 - Irrigated (General)	5			45.410.720,36		
D4 - Surface Irrigated	5			45.410.720,36		
D9 - Permanently Cropped Area	5			45.410.720,36		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	5			45.410.720,36		
B1 - Large To Medium Sized Field(s)	5			45.410.720,36		
C2 - Intercropped (Second Crop)	5			45.410.720,36		
C3 - One Additional Crop	5			45.410.720,36		
C7 - Herbaceous Terrestrial Crop (Additional Crop)	5			45.410.720,36		
C19 - Sequential Period	5			45.410.720,36		
D3 - Irrigated (General)	5			45.410.720,36		
D4 - Surface Irrigated	5			45.410.720,36		
D9 - Permanently Cropped Area	5			45.410.720,36		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)				
Classifier	Level 1	Level 2	Level 3	Level 4

	same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Herbaceous Crops								
B1 - Large To Medium Sized Field(s)								
C2 - Intercropped (Second Crop)								
C3 - One Additional Crop								
C7 - Herbaceous Terrestrial Crop (Additional Crop)								
C19 - Sequential Period								
D3 - Irrigated (General)								
D4 - Surface Irrigated								
D9 - Permanently Cropped Area								

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Class name: 11241 - Small Sized Field(s) Of Rainfed Herbaceous Crop(s)

General information:

Total number of polygons		30	Total area	61.564.715,35
Number of extracted polygons		5	Extracted area	16.588.034,00
Number of checked polygons		5	Checked area	16.588.034,00
Number of correct polygons	(40,00%)	2	Correct area	(28,06%) 4.654.224,76
Number of wrong polygons	(60,00%)	3	Wrong area	(66,95%) 11.105.723,76
Number of small polygons		3		
Number of large polygons		2		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	79,81%
Variance	0,00

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	49.134.262,06
Variance	44.094.131.459.178,20

Standard Deviation 0,07
 Coefficient of Variation 8,36%
 Confidence Interval (95 %) ±13,08

Standard Deviation 6.640.341,22
 Coefficient of Variation 13,51%
 Confidence Interval (95 %) ±13.015.068,78

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number 40,00%
 Variance 0,05
 Standard Deviation 0,22
 Coefficient of Variation 55,90%
 Confidence Interval (95 %) ±53,83

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error 71,94%
 Omission Error 33,35%

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate 27.925.348,55
 Variance 2.738.121.308.604.480,00
 Standard Deviation 52.327.060,96
 Coefficient of Variation 187,38%
 Confidence Interval (95 %) ±45.541.439,09

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate 12,00
 Variance 45,00
 Standard Deviation 6,71
 Coefficient of Variation 55,90%
 Confidence Interval (95 %) ±5,84

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Statistics for each selected classifier:

Classifier	SAME CLASSIFIER					
	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	5	4	80,00%	16.588.034,00	5.482.310,24	33,05%
B2 - Small Sized Field(s)	5	4	80,00%	16.588.034,00	5.482.310,24	33,05%

Class name: 11241 + 20227 - Small Sized Field(s) Of Herbaceous Crop(s) + Broadleaved Deciduous Sparse Trees**General information:**

Total number of polygons	4355	Total area	29.637.080.788,19
Number of extracted polygons	109	Extracted area	10.765.124.732,79
Number of checked polygons	109	Checked area	10.765.124.732,79
Number of correct polygons	(88,99%) 97	Correct area	(99,86%) 10.749.690.098,02
Number of wrong polygons	(11,01%) 12	Wrong area	(0,10%) 10.969.114,94
Number of small polygons	48		
Number of large polygons	61		

Statistics for the class or group:**SURFACE ACCURACY %**

(based on ratio between correct and total surface)

Estimate of correct area	99,93%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,07%
Confidence Interval (95 %)	±0,14

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	88,99%
Variance	0,00
Standard Deviation	0,03
Coefficient of Variation	3,34%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

Correct area estimate	29.615.910.404,28
Variance	95.245.136.228.789.800,00
Standard Deviation	308.618.107,42
Coefficient of Variation	1,04%
Confidence Interval (95 %)	±604.891.490,55

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

Correct area estimate	429.494.498.870,27
Variance	162.584.005.242.688.000.000.000,00
Standard Deviation	403.217.069.632,09

Confidence Interval (95 %)

±6,29

Coefficient of Variation

93,88%

Confidence Interval (95 %)

±74.744.225.606,40

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error

0,14%

Omission Error

-1074969009701,59%

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate

3.875,55

Variance

16.774,30

Standard Deviation

129,52

Coefficient of Variation

3,34%

Confidence Interval (95 %)

±24,01

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	109	99	90,83%	10.765.124.732,79	10.752.019.029,90	99,88%
B2 - Small Sized Field(s)	109	99	90,83%	10.765.124.732,79	10.752.019.029,90	99,88%
C1 - Monoculture	109	99	90,83%	10.765.124.732,79	10.752.019.029,90	99,88%
D1 - Rainfed Cultivation	109	99	90,83%	10.765.124.732,79	10.752.019.029,90	99,88%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

A3 - Herbaceous Crops	109	1	0,92%	10.765.124.732,79	184.935,82	0,00%
B2 - Small Sized Field(s)	109			10.765.124.732,79		
C1 - Monoculture	109			10.765.124.732,79		
D1 - Rainfed Cultivation	109			10.765.124.732,79		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	109			10.765.124.732,79		
B2 - Small Sized Field(s)	109			10.765.124.732,79		
C1 - Monoculture	109			10.765.124.732,79		
D1 - Rainfed Cultivation	109			10.765.124.732,79		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Herbaceous Crops			0,92%	0,00%			2,75%	0,02%
B2 - Small Sized Field(s)							3,67%	0,02%
C1 - Monoculture							3,67%	0,02%
D1 - Rainfed Cultivation							3,67%	0,02%

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Class name: 11247 - Permanently Cropped Area With Small Sized Field(s) Of Post Flooding Cultivation Of Herbaceous Crop(s)

General information:

Total number of polygons		48
Number of extracted polygons		10
Number of checked polygons		10
Number of correct polygons	(70,00%)	7
Number of wrong polygons	(30,00%)	3
Number of small polygons		4
Number of large polygons		6

Total area		61.409.158,12
Extracted area		10.344.895,34
Checked area		10.344.895,34
Correct area	(44,33%)	4.585.618,38
Wrong area	(55,67%)	5.759.276,96

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	62,33%
Variance	0,03
Standard Deviation	0,17
Coefficient of Variation	27,16%
Confidence Interval (95 %)	±33,18

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	70,00%
Variance	0,02
Standard Deviation	0,14
Coefficient of Variation	19,42%
Confidence Interval (95 %)	±31,64

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	55,67%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	38.274.228,13
Variance	70.649.695.518.664,50
Standard Deviation	8.405.337,32
Coefficient of Variation	21,96%
Confidence Interval (95 %)	±16.474.461,15

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	22.010.968,21
Variance	26.886.217.610.518,30
Standard Deviation	5.185.192,15
Coefficient of Variation	23,56%
Confidence Interval (95 %)	±2.674.393,28

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	33,60
Variance	42,56
Standard Deviation	6,52
Coefficient of Variation	19,42%
Confidence Interval (95 %)	±3,36

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	10	7	70,00%	10.344.895,34	4.585.618,38	44,33%
B2 - Small Sized Field(s)	10	7	70,00%	10.344.895,34	4.585.618,38	44,33%
C1 - Monoculture	10	7	70,00%	10.344.895,34	4.585.618,38	44,33%
D2 - Post Flooding Cultivation	10	7	70,00%	10.344.895,34	4.585.618,38	44,33%
D9 - Permanently Cropped Area	10	7	70,00%	10.344.895,34	4.585.618,38	44,33%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	10			10.344.895,34		
B2 - Small Sized Field(s)	10			10.344.895,34		
C1 - Monoculture	10			10.344.895,34		
D2 - Post Flooding Cultivation	10			10.344.895,34		
D9 - Permanently Cropped Area	10			10.344.895,34		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	10			10.344.895,34		
B2 - Small Sized Field(s)	10			10.344.895,34		
C1 - Monoculture	10			10.344.895,34		
D2 - Post Flooding Cultivation	10			10.344.895,34		
D9 - Permanently Cropped Area	10			10.344.895,34		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Herbaceous Crops								
B2 - Small Sized Field(s)								
C1 - Monoculture								
D2 - Post Flooding Cultivation								
D9 - Permanently Cropped Area								

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Class name: 11453 - Permanently Cropped Area With Small Sized Field(s) Of Irrigated Herbaceous Crop(s)

General information:

Total number of polygons	116	Total area	233.789.863,83
Number of extracted polygons	3	Extracted area	26.508.935,15
Number of checked polygons	3	Checked area	26.508.935,15
Number of correct polygons	(100,00%) 3	Correct area	(100,00%) 26.508.935,15

Number of wrong polygons	(0,00%)	0
Number of small polygons		1
Number of large polygons		2

Wrong area (0,00%) 0,00

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±16,67

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	233.789.863,83
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	1.025.012.159,07
Variance	856.875.944.029.700.000,00
Standard Deviation	925.675.938,99
Coefficient of Variation	90,31%
Confidence Interval (95 %)	±1.540.243.356,65

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	116,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Herbaceous Crops	3	3	100,00%	26.508.935,15	26.508.935,15	100,00%
B2 - Small Sized Field(s)	3	3	100,00%	26.508.935,15	26.508.935,15	100,00%
D9 - Permanently Cropped Area	3	3	100,00%	26.508.935,15	26.508.935,15	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	3			26.508.935,15		
B2 - Small Sized Field(s)	3			26.508.935,15		
D9 - Permanently Cropped Area	3			26.508.935,15		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Herbaceous Crops	3			26.508.935,15		
B2 - Small Sized Field(s)	3			26.508.935,15		
D9 - Permanently Cropped Area	3			26.508.935,15		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Herbaceous Crops								
B2 - Small Sized Field(s)								
D9 - Permanently Cropped Area								

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Class name: 20090 - Broadleaved Deciduous Trees

General information:

Total number of polygons	522	Total area	4.572.069.758,64
Number of extracted polygons	13	Extracted area	142.008.503,64
Number of checked polygons	13	Checked area	142.008.503,64
Number of correct polygons	(69,23%) 9	Correct area	(92,65%) 131.567.491,63
Number of wrong polygons	(30,77%) 4	Wrong area	(5,82%) 8.266.590,07
Number of small polygons	6		
Number of large polygons	7		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 13, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	96,10%
Variance	0,00
Standard Deviation	0,03

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 13, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	4.393.878.918,50
Variance	35.550.157.777.799.000,00
Standard Deviation	188.547.494,75

Coefficient of Variation **3,44%**
 Confidence Interval (95 %) **±6,48**

Coefficient of Variation **4,29%**
 Confidence Interval (95 %) **±369.553.089,72**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **69,23%**
 Variance **0,02**
 Standard Deviation **0,13**
 Coefficient of Variation **19,00%**
 Confidence Interval (95 %) **±29,63**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **7,35%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 13, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **5.282.940.817,63**
 Variance **12.484.483.305.327.400.000,00**
 Standard Deviation **3.533.338.832,51**
 Coefficient of Variation **66,88%**
 Confidence Interval (95 %) **±1.724.706.233,52**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **361,38**
 Variance **4.716,53**
 Standard Deviation **68,68**
 Coefficient of Variation **19,00%**
 Confidence Interval (95 %) **±33,52**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Trees (Main Layer)	13	9	69,23%	142.008.503,64	131.567.491,63	92,65%
A10 - Closed > (70-60)% (Main Layer)	13	9	69,23%	142.008.503,64	131.567.491,63	92,65%

D1 - Broadleaved	13	9	69,23%	142.008.503,64	131.567.491,63	92,65%
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Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	13			142.008.503,64		
A10 - Closed > (70-60)% (Main Layer)	13			142.008.503,64		
B2 - > 30 - 3m (Trees Height Main Layer)	13			142.008.503,64		
D1 - Broadleaved	13			142.008.503,64		
E2 - Deciduous	13			142.008.503,64		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	13	1	7,69%	142.008.503,64	2.174.421,94	1,53%
A10 - Closed > (70-60)% (Main Layer)	13	1	7,69%	142.008.503,64	2.174.421,94	1,53%
B2 - > 30 - 3m (Trees Height Main Layer)	13			142.008.503,64		
D1 - Broadleaved	13			142.008.503,64		
E2 - Deciduous	13			142.008.503,64		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
	A3 - Trees (Main Layer)	7,69%	1,53%					

A10 - Closed > (70-60)% (Main Layer)	7,69%	1,53%						
B2 - > 30 - 3m (Trees Height Main Layer)							7,69%	1,53%
D1 - Broadleaved							7,69%	1,53%
E2 - Deciduous							7,69%	1,53%

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Class name: 20090-13152(1)[Z1] - Broadleaved Deciduous High Trees

General information:

Total number of polygons		412	Total area	1.675.383.013,41
Number of extracted polygons		10	Extracted area	133.187.916,62
Number of checked polygons		10	Checked area	133.187.916,62
Number of correct polygons	(80,00%)	8	Correct area	(97,23%) 129.498.397,78
Number of wrong polygons	(20,00%)	2	Wrong area	(2,77%) 3.689.518,83
Number of small polygons		2		
Number of large polygons		8		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	99,26%
Variance	0,00
Standard Deviation	0,01
Coefficient of Variation	0,84%
Confidence Interval (95 %)	±1,64

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	80,00%
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STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	1.662.925.476,15
Variance	2.116.305.290.018.740,00
Standard Deviation	46.003.318,25
Coefficient of Variation	2,77%
Confidence Interval (95 %)	±90.166.503,77

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Variance **0,02**
 Standard Deviation **0,13**
 Coefficient of Variation **16,46%**
 Confidence Interval (95 %) **±30,81**

Correct area estimate **5.335.333.988,59**
 Variance **19.104.540.083.460.300.000,00**
 Standard Deviation **4.370.874.064,01**
 Coefficient of Variation **81,92%**
 Confidence Interval (95 %) **±2.502.775.813,76**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **2,77%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **329,60**
 Variance **2.944,43**
 Standard Deviation **54,26**
 Coefficient of Variation **16,46%**
 Confidence Interval (95 %) **±31,07**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %

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Class name: **20153 - Broadleaved Deciduous Thicket**

General information:

Total number of polygons	72	Total area	200.828.530,44
Number of extracted polygons	10	Extracted area	25.020.522,97
Number of checked polygons	10	Checked area	25.020.522,97
Number of correct polygons	(70,00%) 7	Correct area	(76,79%) 19.212.698,19
Number of wrong polygons	(30,00%) 3	Wrong area	(2,06%) 516.439,62
Number of small polygons	6		
Number of large polygons	4		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	77,79%
Variance	0,03
Standard Deviation	0,17
Coefficient of Variation	21,34%
Confidence Interval (95 %)	±32,53

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	70,00%
Variance	0,02
Standard Deviation	0,14
Coefficient of Variation	20,25%
Confidence Interval (95 %)	±32,78

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	23,21%
Omission Error	0,00%

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	156.221.460,49
Variance	893.891.718.821.285,00
Standard Deviation	29.898.021,99
Coefficient of Variation	19,14%
Confidence Interval (95 %)	±58.600.123,10

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30	
Correct area estimate	138.331.426,98
Variance	3.100.423.699.998.900,00
Standard Deviation	55.681.448,44
Coefficient of Variation	40,25%
Confidence Interval (95 %)	±29.952.243,51

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	50,40
Variance	104,16
Standard Deviation	10,21
Coefficient of Variation	20,25%
Confidence Interval (95 %)	±5,49

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Statistics for each selected classifier:

SAME CLASSIFIER

Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	10	8	80,00%	25.020.522,97	23.803.480,33	95,14%
A10 - Closed > (70-60)% (Main Layer)	10	7	70,00%	25.020.522,97	19.212.698,19	76,79%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	10	8	80,00%	25.020.522,97	23.803.480,33	95,14%
D1 - Broadleaved	10	7	70,00%	25.020.522,97	19.212.698,19	76,79%
E2 - Deciduous	10	7	70,00%	25.020.522,97	19.212.698,19	76,79%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	10			25.020.522,97		
A10 - Closed > (70-60)% (Main Layer)	10			25.020.522,97		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	10			25.020.522,97		
D1 - Broadleaved	10			25.020.522,97		
E2 - Deciduous	10			25.020.522,97		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	10			25.020.522,97		
A10 - Closed > (70-60)% (Main Layer)	10	1	10,00%	25.020.522,97	4.590.782,14	18,35%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	10			25.020.522,97		
D1 - Broadleaved	10			25.020.522,97		
E2 - Deciduous	10			25.020.522,97		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)

Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Shrubs (Main Layer)							10,00%	2,80%
A10 - Closed > (70-60)% (Main Layer)	10,00%	18,35%					10,00%	2,80%
B3 - 5 - 0.3m (Shrubs Height Main Layer)							10,00%	2,80%
D1 - Broadleaved							20,00%	21,15%
E2 - Deciduous							20,00%	21,15%

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Class name: 21102-3012 - Broadleaved Deciduous (40 - (20-10%)) Shrubland with Herbaceous

General information:

Total number of polygons	105	Total area	228.485.283,96
Number of extracted polygons	3	Extracted area	5.186.422,98
Number of checked polygons	3	Checked area	5.186.422,98
Number of correct polygons	(66,67%) 2	Correct area	(87,79%) 4.553.140,76
Number of wrong polygons	(33,33%) 1	Wrong area	(12,21%) 633.282,22
Number of small polygons	1		
Number of large polygons	2		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	87,79%
Variance	0,03
Standard Deviation	0,16
Coefficient of Variation	18,08%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	200.586.350,90
Variance	829.832.480.004.766,00
Standard Deviation	28.806.813,08
Coefficient of Variation	14,36%

Confidence Interval (95 %)

±31,10

Confidence Interval (95 %)

±56.461.353,64

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number

66,67%

Variance

0,11

Standard Deviation

0,33

Coefficient of Variation

49,28%

Confidence Interval (95 %)

±81,06

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error

12,21%

Omission Error

0,00%

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 3, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate

159.359.926,73

Variance

6.318.530.683.244.670,00

Standard Deviation

79.489.185,95

Coefficient of Variation

49,88%

Confidence Interval (95 %)

±132.078.956,04

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate

70,00

Variance

1.190,00

Standard Deviation

34,50

Coefficient of Variation

49,28%

Confidence Interval (95 %)

±57,32

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	3	2	66,67%	5.186.422,98	4.553.140,76	87,79%
A11 - Open General (70-60) - (20-10)% (Main Layer)	3	2	66,67%	5.186.422,98	4.553.140,76	87,79%
A13 - Very Open 40 - (10-20)% (Main Layer)	3	2	66,67%	5.186.422,98	4.553.140,76	87,79%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	3	2	66,67%	5.186.422,98	4.553.140,76	87,79%
D1 - Broadleaved	3	2	66,67%	5.186.422,98	4.553.140,76	87,79%

E2 - Deciduous	3	2	66,67%	5.186.422,98	4.553.140,76	87,79%
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Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	3			5.186.422,98		
A11 - Open General (70-60) - (20-10)% (Main Layer)	3			5.186.422,98		
A13 - Very Open 40 - (10-20)% (Main Layer)	3			5.186.422,98		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	3			5.186.422,98		
D1 - Broadleaved	3			5.186.422,98		
E2 - Deciduous	3			5.186.422,98		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	3			5.186.422,98		
A11 - Open General (70-60) - (20-10)% (Main Layer)	3			5.186.422,98		
A13 - Very Open 40 - (10-20)% (Main Layer)	3			5.186.422,98		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	3			5.186.422,98		
D1 - Broadleaved	3			5.186.422,98		
E2 - Deciduous	3			5.186.422,98		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %

A4 - Shrubs (Main Layer)								
A11 - Open General (70-60) - (20-10)% (Main Layer)								
A13 - Very Open 40 - (10-20)% (Main Layer)								
B3 - 5 - 0.3m (Shrubs Height Main Layer)								
D1 - Broadleaved								
E2 - Deciduous								

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Class name: 211041-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous and Emergents

General information:

Total number of polygons		656	Total area	8.881.690.432,52
Number of extracted polygons		16	Extracted area	144.932.013,81
Number of checked polygons		16	Checked area	144.932.013,81
Number of correct polygons	(87,50%)	14	Correct area	(99,37%) 144.020.672,87
Number of wrong polygons	(12,50%)	2	Wrong area	(0,40%) 581.694,34
Number of small polygons		7		
Number of large polygons		9		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 16, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	99,57%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,36%
Confidence Interval (95 %)	±0,71

MAP ACCURACY %

(based on number of fully correct polygons)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 16, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	8.843.528.492,87
Variance	460.894.693.037.053,00
Standard Deviation	21.468.458,10
Coefficient of Variation	0,24%
Confidence Interval (95 %)	±42.078.177,87

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

Estimate of correct polygon number **87,50%**
Variance **0,01**
Standard Deviation **0,08**
Coefficient of Variation **9,64%**
Confidence Interval (95 %) **±19,66**

WARNING: sampling number for this class is 16, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate **5.904.847.587,47**
Variance **4.478.855.029.423.930.000,00**
Standard Deviation **2.116.330.557,69**
Coefficient of Variation **35,84%**
Confidence Interval (95 %) **±916.127.419,83**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **0,63%**
Omission Error **9,02%**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **574,00**
Variance **3.061,33**
Standard Deviation **55,33**
Coefficient of Variation **9,64%**
Confidence Interval (95 %) **±23,95**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%
A11 - Open General (70-60) - (20-10)% (Main Layer)	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%
A12 - Open (70-60) - 40% (Main Layer)	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%
F2 - Second and/or Third Layer Present	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%
F10 - Sparse (20-10) - 5%	16	14	87,50%	144.932.013,81	144.020.672,87	99,37%

A4 - Shrubs (Main Layer)							6,25%	0,23%
A11 - Open General (70-60) - (20-10)% (Main Layer)							6,25%	0,23%
A12 - Open (70-60) - 40% (Main Layer)							6,25%	0,23%
B3 - 5 - 0.3m (Shrubs Height Main Layer)							6,25%	0,23%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)							6,25%	0,23%
F2 - Second and/or Third Layer Present							6,25%	0,23%
F10 - Sparse (20-10) - 5%							6,25%	0,23%

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Class name: 21104-3012 - Broadleaved Deciduous (40 - (20-10)%) Shrubland with Herbaceous and Emergents

General information:

Total number of polygons	900	Total area	21.671.328.028,50
Number of extracted polygons	23	Extracted area	282.566.116,29
Number of checked polygons	23	Checked area	282.566.116,29
Number of correct polygons (86,96%)	20	Correct area (98,48%)	278.270.852,94
Number of wrong polygons (13,04%)	3	Wrong area (1,52%)	4.295.263,36
Number of small polygons	13		
Number of large polygons	10		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 23, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	99,48%
Variance	0,00
Standard Deviation	0,01
Coefficient of Variation	0,54%
Confidence Interval (95 %)	±1,06

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 23, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	21.559.577.287,11
Variance	3.565.894.847.419.960,00
Standard Deviation	59.715.114,06
Coefficient of Variation	0,28%
Confidence Interval (95 %)	±117.041.623,56

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	86,96%
Variance	0,01
Standard Deviation	0,07
Coefficient of Variation	8,15%
Confidence Interval (95 %)	±16,07

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	1,52%
Omission Error	0,25%

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 23, and ratio estimator should be used only with sampling number greater than 30	
Correct area estimate	10.888.859.462,77
Variance	66.247.732.944.372.100.000,00
Standard Deviation	8.139.271.032,74
Coefficient of Variation	74,75%
Confidence Interval (95 %)	±2.876.781.327,21

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	782,61
Variance	4.069,26
Standard Deviation	63,79
Coefficient of Variation	8,15%
Confidence Interval (95 %)	±22,55

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%
A11 - Open General (70-60) - (20-10)% (Main Layer)	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%
A13 - Very Open 40 - (10-20)% (Main Layer)	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%
F2 - Second and/or Third Layer Present	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%
F10 - Sparse (20-10) - 5%	23	20	86,96%	282.566.116,29	278.270.852,94	98,48%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	23			282.566.116,29		
A11 - Open General (70-60) - (20-10)% (Main Layer)	23			282.566.116,29		
A13 - Very Open 40 - (10-20)% (Main Layer)	23			282.566.116,29		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	23			282.566.116,29		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23			282.566.116,29		
F2 - Second and/or Third Layer Present	23			282.566.116,29		
F10 - Sparse (20-10) - 5%	23			282.566.116,29		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	23			282.566.116,29		
A11 - Open General (70-60) - (20-10)% (Main Layer)	23			282.566.116,29		
A13 - Very Open 40 - (10-20)% (Main Layer)	23			282.566.116,29		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	23			282.566.116,29		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23			282.566.116,29		
F2 - Second and/or Third Layer Present	23			282.566.116,29		
F10 - Sparse (20-10) - 5%	23			282.566.116,29		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)				
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED	Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR	Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR	Level 4 different classifier ERROR NOT REPAIRABLE

	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Shrubs (Main Layer)								
A11 - Open General (70-60) - (20-10)% (Main Layer)								
A13 - Very Open 40 - (10-20)% (Main Layer)								
B3 - 5 - 0.3m (Shrubs Height Main Layer)								
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)								
F2 - Second and/or Third Layer Present								
F10 - Sparse (20-10) - 5%								

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Class name: 21102-1 - Broadleaved Deciduous ((70-60) - 40%) Shrubland with Herbaceous

General information:

Total number of polygons	92	Total area	348.282.862,31
Number of extracted polygons	10	Extracted area	45.906.083,21
Number of checked polygons	10	Checked area	45.906.083,21
Number of correct polygons	(90,00%) 9	Correct area	(96,44%) 44.271.752,68
Number of wrong polygons	(10,00%) 1	Wrong area	(3,56%) 1.634.330,53
Number of small polygons	4		
Number of large polygons	6		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	97,34%
Variance	0,00
Standard Deviation	0,03
Coefficient of Variation	2,95%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	339.008.933,69
Variance	147.167.473.445.719,00
Standard Deviation	12.131.260,18
Coefficient of Variation	3,58%

Confidence Interval (95 %)

±5,63

Confidence Interval (95 %)

±23.777.269,94

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number

90,00%

Variance

0,01

Standard Deviation

0,09

Coefficient of Variation

10,49%

Confidence Interval (95 %)

±23,50

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error

3,56%

Omission Error

0,00%

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate

407.300.124,67

Variance

26.551.192.506.459.700,00

Standard Deviation

162.945.366,63

Coefficient of Variation

40,01%

Confidence Interval (95 %)

±89.175.235,64

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate

82,80

Variance

75,44

Standard Deviation

8,69

Coefficient of Variation

10,49%

Confidence Interval (95 %)

±4,75

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
A11 - Open General (70-60) - (20-10)% (Main Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
A12 - Open (70-60) - 40% (Main Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
D1 - Broadleaved	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%

E2 - Deciduous	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
F2 - Second and/or Third Layer Present	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
F4 - Herbaceous Vegetation (Second or Third Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	10	9	90,00%	45.906.083,21	44.271.752,68	96,44%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	10			45.906.083,21		
A11 - Open General (70-60) - (20-10)% (Main Layer)	10			45.906.083,21		
A12 - Open (70-60) - 40% (Main Layer)	10			45.906.083,21		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	10			45.906.083,21		
D1 - Broadleaved	10			45.906.083,21		
E2 - Deciduous	10			45.906.083,21		
F2 - Second and/or Third Layer Present	10			45.906.083,21		
F4 - Herbaceous Vegetation (Second or Third Layer)	10			45.906.083,21		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	10			45.906.083,21		
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	10			45.906.083,21		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	10			45.906.083,21		
A11 - Open General (70-60) - (20-10)% (Main Layer)	10			45.906.083,21		
A12 - Open (70-60) - 40% (Main Layer)	10			45.906.083,21		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	10			45.906.083,21		
D1 - Broadleaved	10			45.906.083,21		
E2 - Deciduous	10			45.906.083,21		
F2 - Second and/or Third Layer Present	10			45.906.083,21		
F4 - Herbaceous Vegetation (Second or Third Layer)	10			45.906.083,21		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	10			45.906.083,21		
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	10			45.906.083,21		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Shrubs (Main Layer)								
A11 - Open General (70-60) - (20-10)% (Main Layer)								
A12 - Open (70-60) - 40% (Main Layer)								
B3 - 5 - 0.3m (Shrubs Height Main Layer)								
D1 - Broadleaved								
E2 - Deciduous								
F2 - Second and/or Third Layer Present								
F4 - Herbaceous Vegetation (Second or Third Layer)								
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)								
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)								

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Class name: **21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation**

General information:

Total number of polygons		153	Total area	329.902.602,06
Number of extracted polygons		10	Extracted area	22.980.215,87
Number of checked polygons		10	Checked area	22.980.215,87
Number of correct polygons	(50,00%)	5	Correct area	(44,69%) 10.269.788,29
Number of wrong polygons	(50,00%)	5	Wrong area	(46,90%) 10.777.217,01
Number of small polygons		7		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	55,39%
Variance	0,04
Standard Deviation	0,21
Coefficient of Variation	37,42%
Confidence Interval (95 %)	±40,63

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	50,00%
Variance	0,03
Standard Deviation	0,16
Coefficient of Variation	32,23%
Confidence Interval (95 %)	±36,58

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	55,31%
Omission Error	5,79%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	182.737.803,03
Variance	5.312.253.511.087.690,00
Standard Deviation	72.885.207,77
Coefficient of Variation	39,89%
Confidence Interval (95 %)	±142.855.007,22

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	157.127.760,90
Variance	11.365.349.242.276.600,00
Standard Deviation	106.608.391,99
Coefficient of Variation	67,85%
Confidence Interval (95 %)	±59.745.188,19

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	76,50
Variance	607,75
Standard Deviation	24,65
Coefficient of Variation	32,23%
Confidence Interval (95 %)	±13,82

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A2 - Herbaceous Vegetation (Main Layer)	10	5	50,00%	22.980.215,87	10.269.788,29	44,69%
A20 - Closed to Open (100-15)%	10	5	50,00%	22.980.215,87	10.269.788,29	44,69%
A21 - Closed to Open (100-40)%	10	5	50,00%	22.980.215,87	10.269.788,29	44,69%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10	5	50,00%	22.980.215,87	10.269.788,29	44,69%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	10			22.980.215,87		
A20 - Closed to Open (100-15)%	10			22.980.215,87		
A21 - Closed to Open (100-40)%	10			22.980.215,87		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10			22.980.215,87		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	10			22.980.215,87		
A20 - Closed to Open (100-15)%	10			22.980.215,87		
A21 - Closed to Open (100-40)%	10			22.980.215,87		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10			22.980.215,87		

Repairable and not repairable errors:

LEVEL OF ERROR								
(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A2 - Herbaceous Vegetation (Main Layer)							10,00%	8,41%
A20 - Closed to Open (100-15)%							10,00%	8,41%
A21 - Closed to Open (100-40)%							10,00%	8,41%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)							10,00%	8,41%

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Class name: 21642-121340 - Closed to Open (100-40)% Herbaceous Vegetation with Trees and Shrubs

General information:

Total number of polygons	1019	Total area	7.603.148.406,47
Number of extracted polygons	25	Extracted area	74.740.538,84
Number of checked polygons	25	Checked area	74.740.538,84
Number of correct polygons	(64,00%) 16	Correct area	(84,67%) 63.281.834,77
Number of wrong polygons	(36,00%) 9	Wrong area	(14,96%) 11.182.193,20
Number of small polygons	13		
Number of large polygons	12		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 25, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	94,06%
Variance	0,00
Standard Deviation	0,04

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 25, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	7.151.767.671,59
Variance	16.781.902.815.698.400,00
Standard Deviation	129.544.983,75

Coefficient of Variation **4,52%**
 Confidence Interval (95 %) **±8,33**

Coefficient of Variation **1,81%**
 Confidence Interval (95 %) **±253.908.168,16**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **64,00%**
 Variance **0,01**
 Standard Deviation **0,10**
 Coefficient of Variation **15,12%**
 Confidence Interval (95 %) **±20,97**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **15,33%**
 Omission Error **1,17%**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 25, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **2.579.367.585,40**
 Variance **3.399.623.595.834.460.000,00**
 Standard Deviation **1.843.806.821,72**
 Coefficient of Variation **71,48%**
 Confidence Interval (95 %) **±623.119.827,31**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **652,16**
 Variance **9.723,71**
 Standard Deviation **98,61**
 Coefficient of Variation **15,12%**
 Confidence Interval (95 %) **±33,33**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A2 - Herbaceous Vegetation (Main Layer)	25	16	64,00%	74.740.538,84	63.281.834,77	84,67%
A20 - Closed to Open (100-15)%	25	16	64,00%	74.740.538,84	63.281.834,77	84,67%

B4 - 3 - 0.03m (Herbaceous Height Main Layer)	25	16	64,00%	74.740.538,84	63.281.834,77	84,67%
F10 - Sparse (20-10) - 5%	25	16	64,00%	74.740.538,84	63.281.834,77	84,67%
F2 - Second and/or Third Layer Present	25	16	64,00%	74.740.538,84	63.281.834,77	84,67%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	25			74.740.538,84		
A20 - Closed to Open (100-15)%	25			74.740.538,84		
A21 - Closed to Open (100-40)%	25			74.740.538,84		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	25			74.740.538,84		
F10 - Sparse (20-10) - 5%	25			74.740.538,84		
F2 - Second and/or Third Layer Present	25			74.740.538,84		
F10 - Sparse (20-10) - 5%	25			74.740.538,84		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	25			74.740.538,84		
A20 - Closed to Open (100-15)%	25			74.740.538,84		
A21 - Closed to Open (100-40)%	25			74.740.538,84		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	25			74.740.538,84		
F10 - Sparse (20-10) - 5%	25			74.740.538,84		
F2 - Second and/or Third Layer Present	25			74.740.538,84		
F10 - Sparse (20-10) - 5%	25			74.740.538,84		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)
--

Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A2 - Herbaceous Vegetation (Main Layer)							4,00%	0,37%
A20 - Closed to Open (100-15)%							4,00%	0,37%
A21 - Closed to Open (100-40)%							4,00%	0,37%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)							4,00%	0,37%
F10 - Sparse (20-10) - 5%							4,00%	0,37%
F2 - Second and/or Third Layer Present							4,00%	0,37%
F10 - Sparse (20-10) - 5%							4,00%	0,37%

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Class name: 22687-3011 - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer

General information:

Total number of polygons	901	Total area	12.168.393.169,04
Number of extracted polygons	23	Extracted area	637.624.558,53
Number of checked polygons	23	Checked area	637.624.558,53
Number of correct polygons	(73,91%) 17	Correct area	(97,50%) 621.675.460,84
Number of wrong polygons	(26,09%) 6	Wrong area	(1,63%) 10.376.653,16
Number of small polygons	8		
Number of large polygons	15		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 23, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	98,53%
Variance	0,00
Standard Deviation	0,01

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 23, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	11.988.971.374,97
Variance	101.563.961.510.169.000,00
Standard Deviation	318.691.012,60

Coefficient of Variation **1,29%**
 Confidence Interval (95 %) **±2,50**

Coefficient of Variation **2,66%**
 Confidence Interval (95 %) **±624.634.384,69**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **73,91%**
 Variance **0,01**
 Standard Deviation **0,09**
 Coefficient of Variation **12,50%**
 Confidence Interval (95 %) **±20,29**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **2,50%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 23, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **24.353.460.444,32**
 Variance **283.023.028.592.397.000.000,00**
 Standard Deviation **16.823.288.281,20**
 Coefficient of Variation **69,08%**
 Confidence Interval (95 %) **±5.946.186.795,38**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **665,96**
 Variance **6.933,32**
 Standard Deviation **83,27**
 Coefficient of Variation **12,50%**
 Confidence Interval (95 %) **±29,43**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Trees (Main Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
A11 - Open General (70-60) - (20-10)% (Main Layer)	23	19	82,61%	637.624.558,53	627.247.905,37	98,37%

B2 - > 30 - 3m (Trees Height Main Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
D1 - Broadleaved	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
E2 - Deciduous	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
F2 - Second and/or Third Layer Present	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
F6 - Shrubs (Second or Third Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
F9 - Open (70-60) - (20-10)% (Second or Third Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
F4 - Herbaceous Vegetation (Second or Third Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	23	17	73,91%	637.624.558,53	621.675.460,84	97,50%
F2 - Second and/or Third Layer Present	23			637.624.558,53		

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	23			637.624.558,53		
A11 - Open General (70-60) - (20-10)% (Main Layer)	23			637.624.558,53		
A12 - Open (70-60) - 40% (Main Layer)	23			637.624.558,53		
B2 - > 30 - 3m (Trees Height Main Layer)	23			637.624.558,53		
D1 - Broadleaved	23			637.624.558,53		
E2 - Deciduous	23			637.624.558,53		
F2 - Second and/or Third Layer Present	23			637.624.558,53		
F6 - Shrubs (Second or Third Layer)	23			637.624.558,53		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23			637.624.558,53		
F9 - Open (70-60) - (20-10)% (Second or Third Layer)	23			637.624.558,53		
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)	23			637.624.558,53		
F4 - Herbaceous Vegetation (Second or Third Layer)	23			637.624.558,53		
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	23			637.624.558,53		
F2 - Second and/or Third Layer Present	23			637.624.558,53		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23			637.624.558,53		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)
--

Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	23	2	8,70%	637.624.558,53	5.572.444,53	0,87%
A11 - Open General (70-60) - (20-10)% (Main Layer)	23			637.624.558,53		
A12 - Open (70-60) - 40% (Main Layer)	23			637.624.558,53		
B2 - > 30 - 3m (Trees Height Main Layer)	23			637.624.558,53		
D1 - Broadleaved	23			637.624.558,53		
E2 - Deciduous	23			637.624.558,53		
F2 - Second and/or Third Layer Present	23			637.624.558,53		
F6 - Shrubs (Second or Third Layer)	23			637.624.558,53		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23			637.624.558,53		
F9 - Open (70-60) - (20-10)% (Second or Third Layer)	23			637.624.558,53		
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)	23			637.624.558,53		
F4 - Herbaceous Vegetation (Second or Third Layer)	23			637.624.558,53		
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	23			637.624.558,53		
F2 - Second and/or Third Layer Present	23			637.624.558,53		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	23			637.624.558,53		

Repairable and not repairable errors:

LEVEL OF ERROR								
(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Trees (Main Layer)	8,70%	0,87%						
A11 - Open General (70-60) - (20-10)% (Main Layer)								
A12 - Open (70-60) - 40% (Main Layer)								
B2 - > 30 - 3m (Trees Height Main Layer)							8,70%	0,87%
D1 - Broadleaved							8,70%	0,87%
E2 - Deciduous							8,70%	0,87%
F2 - Second and/or Third Layer Present							8,70%	0,87%
F6 - Shrubs (Second or Third Layer)							8,70%	0,87%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)							8,70%	0,87%

F9 - Open (70-60) - (20-10)% (Second or Third Layer)							82,61%	98,37%
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)							8,70%	0,87%
F4 - Herbaceous Vegetation (Second or Third Layer)							8,70%	0,87%
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)							8,70%	0,87%
F2 - Second and/or Third Layer Present							8,70%	0,87%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)							8,70%	0,87%

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Class name: 22687-3011(1)[Z1] - Broadleaved Deciduous ((70-60) - 40%) Woodland With Open Shrubs And Open Herbaceous Layer

General information:

Total number of polygons		571	Total area		1.087.727.495,51
Number of extracted polygons		14	Extracted area		17.107.499,92
Number of checked polygons		14	Checked area		17.107.499,92
Number of correct polygons	(85,71%)	12	Correct area	(93,92%)	16.068.178,97
Number of wrong polygons	(14,29%)	2	Wrong area	(3,64%)	623.502,52
Number of small polygons		7			
Number of large polygons		7			

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 14, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	95,68%
Variance	0,00
Standard Deviation	0,03
Coefficient of Variation	3,48%
Confidence Interval (95 %)	±6,52

MAP ACCURACY %

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 14, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	1.040.773.963,92
Variance	538.958.820.153.565,00
Standard Deviation	23.215.486,64
Coefficient of Variation	2,23%
Confidence Interval (95 %)	±45.502.353,82

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on number of fully correct polygons)

Estimate of correct polygon number	85,71%
Variance	0,01
Standard Deviation	0,10
Coefficient of Variation	11,18%
Confidence Interval (95 %)	±22,36

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	6,08%
Omission Error	0,00%

(based on area of fully correct polygons)

WARNING: sampling number for this class is 14, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	655.352.156,75
Variance	25.481.910.020.895.900,00
Standard Deviation	159.630.542,26
Coefficient of Variation	24,36%
Confidence Interval (95 %)	±74.621.443,40

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	489,43
Variance	2.995,73
Standard Deviation	54,73
Coefficient of Variation	11,18%
Confidence Interval (95 %)	±25,59

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %

Error analisys for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)		
Classifier	Polygons	Area

	Checked	Analogous	%	Checked	Analogous	%
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ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %

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Class name: **22687-6021 - Broadleaved Deciduous (40 - (20-10%)) Woodland With Open Shrubs And Open Herbaceous Layer**

General information:

Total number of polygons	1113	Total area	8.141.244.849,69
Number of extracted polygons	28	Extracted area	99.006.779,36
Number of checked polygons	28	Checked area	99.006.779,36
Number of correct polygons	(78,57%) 22	Correct area	(95,12%) 94.171.797,33
Number of wrong polygons	(21,43%) 6	Wrong area	(4,24%) 4.201.739,00
Number of small polygons	17		
Number of large polygons	11		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 28, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	96,77%
Variance	0,00
Standard Deviation	0,02
Coefficient of Variation	1,82%
Confidence Interval (95 %)	±3,45

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	78,57%
Variance	0,01
Standard Deviation	0,08
Coefficient of Variation	9,92%
Confidence Interval (95 %)	±17,07

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	4,88%
Omission Error	1,59%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 28, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	7.878.313.220,93
Variance	4.799.552.205.889.980,00
Standard Deviation	69.278.800,55
Coefficient of Variation	0,88%
Confidence Interval (95 %)	±135.786.449,08

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 28, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	3.743.328.943,95
Variance	1.145.238.634.836.270.000,00
Standard Deviation	1.070.158.228,88
Coefficient of Variation	28,59%
Confidence Interval (95 %)	±340.113.878,04

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	874,50
Variance	7.530,42
Standard Deviation	86,78
Coefficient of Variation	9,92%
Confidence Interval (95 %)	±27,58

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SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Trees (Main Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
A11 - Open General (70-60) - (20-10)% (Main Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
A13 - Very Open 40 - (10-20)% (Main Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
B2 - > 30 - 3m (Trees Height Main Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
D1 - Broadleaved	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
E2 - Deciduous	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
F2 - Second and/or Third Layer Present	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
F6 - Shrubs (Second or Third Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
F9 - Open (70-60) - (20-10)% (Second or Third Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
F4 - Herbaceous Vegetation (Second or Third Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	28	22	78,57%	99.006.779,36	94.171.797,33	95,12%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36		

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	28			99.006.779,36		
A11 - Open General (70-60) - (20-10)% (Main Layer)	28			99.006.779,36		
A13 - Very Open 40 - (10-20)% (Main Layer)	28			99.006.779,36		
B2 - > 30 - 3m (Trees Height Main Layer)	28			99.006.779,36		
D1 - Broadleaved	28			99.006.779,36		
E2 - Deciduous	28			99.006.779,36		
F2 - Second and/or Third Layer Present	28			99.006.779,36		
F6 - Shrubs (Second or Third Layer)	28			99.006.779,36		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36		
F9 - Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36		
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)	28			99.006.779,36		
F4 - Herbaceous Vegetation (Second or Third Layer)	28			99.006.779,36		
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	28			99.006.779,36		

F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36	
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ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	28			99.006.779,36		
A11 - Open General (70-60) - (20-10)% (Main Layer)	28			99.006.779,36		
A13 - Very Open 40 - (10-20)% (Main Layer)	28			99.006.779,36		
B2 - > 30 - 3m (Trees Height Main Layer)	28			99.006.779,36		
D1 - Broadleaved	28			99.006.779,36		
E2 - Deciduous	28			99.006.779,36		
F2 - Second and/or Third Layer Present	28			99.006.779,36		
F6 - Shrubs (Second or Third Layer)	28			99.006.779,36		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36		
F9 - Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36		
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)	28			99.006.779,36		
F4 - Herbaceous Vegetation (Second or Third Layer)	28			99.006.779,36		
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)	28			99.006.779,36		
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)	28			99.006.779,36		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
	A3 - Trees (Main Layer)							3,57%
A11 - Open General (70-60) - (20-10)% (Main Layer)							3,57%	0,64%
A13 - Very Open 40 - (10-20)% (Main Layer)							3,57%	0,64%
B2 - > 30 - 3m (Trees Height Main Layer)							3,57%	0,64%
D1 - Broadleaved							3,57%	0,64%
E2 - Deciduous							3,57%	0,64%

F2 - Second and/or Third Layer Present							3,57%	0,64%
F6 - Shrubs (Second or Third Layer)							3,57%	0,64%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)							3,57%	0,64%
F9 - Open (70-60) - (20-10)% (Second or Third Layer)							82,14%	95,76%
G3 - 5 - 0.3m (Shrubs Height Second or Third Layer)							3,57%	0,64%
F4 - Herbaceous Vegetation (Second or Third Layer)							3,57%	0,64%
G4 - 3 - 0.03m (Herbaceous Height Second or Third Layer)							3,57%	0,64%
F7 - Closed (> 70-60%) To Open (70-60) - (20-10)% (Second or Third Layer)							3,57%	0,64%

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Class name: 3610-16-S0308 - Large To Medium Sized Field(s) Of Graminoid Crops With Sequential Cropping On Permanently Flooded Land (With One Additional Crop) (Herbaceous Terrestrial) Dominant Crop: Cereals - Rice (Oryza spp.)

General information:

Total number of polygons	368	Total area	1.123.590.090,88
Number of extracted polygons	9	Extracted area	11.252.248,26
Number of checked polygons	9	Checked area	11.252.248,26
Number of correct polygons	(100,00%) 9	Correct area	(100,00%) 11.252.248,26
Number of wrong polygons	(0,00%) 0	Wrong area	(0,00%) 0,00
Number of small polygons	5		
Number of large polygons	4		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 9, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 9, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	1.123.590.090,88
Variance	0,00
Standard Deviation	0,00

Coefficient of Variation **0,00%**
 Confidence Interval (95 %) **±0,00**

Coefficient of Variation **0,00%**
 Confidence Interval (95 %) **±0,00**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **100,00%**
 Variance **0,00**
 Standard Deviation **0,00**
 Coefficient of Variation **0,00%**
 Confidence Interval (95 %) **±5,56**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **0,00%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 9, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **460.091.928,84**
 Variance **22.293.779.278.671.400,00**
 Standard Deviation **149.311.015,26**
 Coefficient of Variation **32,45%**
 Confidence Interval (95 %) **±91.411.598,18**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **368,00**
 Variance **0,00**
 Standard Deviation **0,00**
 Coefficient of Variation **0,00%**
 Confidence Interval (95 %) **±0,00**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Graminoid Crops	9	9	100,00%	11.252.248,26	11.252.248,26	100,00%
B1 - Large To Medium Sized Field(s)	9	9	100,00%	11.252.248,26	11.252.248,26	100,00%

Class name: 3685-L13S0308 - Small Sized Field(s) Of Graminoid Crops On Waterlogged Soil
Major Landclass: Level Land, Depression
Dominant Crop: Cereals - Rice (Oryza spp.)

General information:

Total number of polygons	348	Total area	723.072.391,61
Number of extracted polygons	9	Extracted area	6.397.879,41
Number of checked polygons	9	Checked area	6.397.879,41
Number of correct polygons	(88,89%) 8	Correct area	(70,78%) 4.528.659,75
Number of wrong polygons	(11,11%) 1	Wrong area	(29,22%) 1.869.219,65
Number of small polygons	8		
Number of large polygons	1		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 9, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	78,57%
Variance	0,03
Standard Deviation	0,17
Coefficient of Variation	21,77%
Confidence Interval (95 %)	±33,53

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	88,89%
Variance	0,01
Standard Deviation	0,11
Coefficient of Variation	12,34%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 9, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	568.114.338,50
Variance	1.791.080.520.795.690,00
Standard Deviation	42.321.159,26
Coefficient of Variation	7,45%
Confidence Interval (95 %)	±82.949.472,14

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

Correct area estimate	175.108.177,08
Variance	1.246.568.587.436.140,00

Confidence Interval (95 %)

±27,05

Standard Deviation

35.306.778,21

Coefficient of Variation

20,16%

Confidence Interval (95 %)

±21.600.035,01

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error

29,22%

Omission Error

9,43%

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate

309,33

Variance

1.456,44

Standard Deviation

38,16

Coefficient of Variation

12,34%

Confidence Interval (95 %)

±23,35

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Graminoid Crops	9	8	88,89%	6.397.879,41	4.528.659,75	70,78%
B2 - Small Sized Field(s)	9	8	88,89%	6.397.879,41	4.528.659,75	70,78%
C3 - On Waterlogged Soil	9	8	88,89%	6.397.879,41	4.528.659,75	70,78%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Graminoid Crops	9			6.397.879,41		

B2 - Small Sized Field(s)	9			6.397.879,41		
C3 - On Waterlogged Soil	9			6.397.879,41		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Graminoid Crops	9			6.397.879,41		
B2 - Small Sized Field(s)	9			6.397.879,41		
C3 - On Waterlogged Soil	9			6.397.879,41		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A1 - Graminoid Crops								
B2 - Small Sized Field(s)								
C3 - On Waterlogged Soil								

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Class name: [40047-L15L5N1110R1Zt2 - Woodland On Temporarily Flooded Land](#).Major Landclass: [Level Land, Valley Floor](#), Slope Class: [Flat To Almost Flat](#)Soils: [Subsurface: Fluvisols](#)Water Quality: [Fresh Water](#)Floristic Aspect: [Acacia nilotica](#)

General information:

Total number of polygons	52	Total area	48.964.378,54
Number of extracted polygons	2	Extracted area	353.349,60
Number of checked polygons	2	Checked area	353.349,60

Number of correct polygons	(100,00%)	2
Number of wrong polygons	(0,00%)	0
Number of small polygons		2
Number of large polygons		0

Correct area	(100,00%)	353.349,60
Wrong area	(0,00%)	0,00

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±25,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	48.964.378,54
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	9.187.089,64
Variance	5.734.463.791.049,24
Standard Deviation	2.394.674,05
Coefficient of Variation	26,07%
Confidence Interval (95 %)	±10.483.402,47

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	52,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A3 - Trees (Main Layer)	2	2	100,00%	353.349,60	353.349,60	100,00%
A13 - Open General (70-60) - (20-10)% (Main Layer)	2	2	100,00%	353.349,60	353.349,60	100,00%
B2 - > 30 - 3m (Trees Height Main Layer)	2	2	100,00%	353.349,60	353.349,60	100,00%
C2 - On Temporarily Flooded Land	2	2	100,00%	353.349,60	353.349,60	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	2			353.349,60		
A13 - Open General (70-60) - (20-10)% (Main Layer)	2			353.349,60		
B2 - > 30 - 3m (Trees Height Main Layer)	2			353.349,60		
C2 - On Temporarily Flooded Land	2			353.349,60		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A3 - Trees (Main Layer)	2			353.349,60		
A13 - Open General (70-60) - (20-10)% (Main Layer)	2			353.349,60		
B2 - > 30 - 3m (Trees Height Main Layer)	2			353.349,60		
C2 - On Temporarily Flooded Land	2			353.349,60		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A3 - Trees (Main Layer)								
A13 - Open General (70-60) - (20-10)% (Main Layer)								
B2 - > 30 - 3m (Trees Height Main Layer)								
C2 - On Temporarily Flooded Land								

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Class name: 41899-67278-R2Zt3 - Closed to Open (100-40)% Broadleaved Evergreen Shrubs On Permanently Flooded Land (With Daily Variations)Water Quality: Brackish WaterFloristic Aspect: Rizophora

General information:

Total number of polygons		303	Total area		1.071.016.695,96
Number of extracted polygons		8	Extracted area		11.304.841,18
Number of checked polygons		8	Checked area		11.304.841,18
Number of correct polygons	(100,00%)	8	Correct area	(100,00%)	11.304.841,18
Number of wrong polygons	(0,00%)	0	Wrong area	(0,00%)	0,00
Number of small polygons		6			
Number of large polygons		2			

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 8, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±6,25

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

WARNING: sampling number for this class is 8, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	1.071.016.695,96
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 8, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	428.170.859,68
Variance	115.560.718.236.392.000,00
Standard Deviation	339.942.227,79
Coefficient of Variation	79,39%
Confidence Interval (95 %)	±224.679.027,61

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	303,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

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Statistics for each selected classifier:

SAME CLASSIFIER

Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
A20 - Closed to Open (100-15)%	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
A21 - Closed to Open (100-40)%	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
C1 - On Permanently Flooded Land	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
C5 - (With Daily Variations)	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
D1 - Broadleaved	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%
E1 - Evergreen	8	8	100,00%	11.304.841,18	11.304.841,18	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	8			11.304.841,18		
A20 - Closed to Open (100-15)%	8			11.304.841,18		
A21 - Closed to Open (100-40)%	8			11.304.841,18		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	8			11.304.841,18		
C1 - On Permanently Flooded Land	8			11.304.841,18		
C5 - (With Daily Variations)	8			11.304.841,18		
D1 - Broadleaved	8			11.304.841,18		
E1 - Evergreen	8			11.304.841,18		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	8			11.304.841,18		
A20 - Closed to Open (100-15)%	8			11.304.841,18		
A21 - Closed to Open (100-40)%	8			11.304.841,18		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	8			11.304.841,18		
C1 - On Permanently Flooded Land	8			11.304.841,18		
C5 - (With Daily Variations)	8			11.304.841,18		
D1 - Broadleaved	8			11.304.841,18		

Repairable and not repairable errors:

LEVEL OF ERROR								
(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Shrubs (Main Layer)								
A20 - Closed to Open (100-15)%								
A21 - Closed to Open (100-40)%								
B3 - 5 - 0.3m (Shrubs Height Main Layer)								
C1 - On Permanently Flooded Land								
C5 - (With Daily Variations)								
D1 - Broadleaved								
E1 - Evergreen								

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Class name: **41983-4786 - Closed to Open Medium High Shrubs On Temporarily Flooded Land.**

General information:

Total number of polygons		24	Total area	28.222.403,94
Number of extracted polygons		2	Extracted area	2.184.193,09
Number of checked polygons		2	Checked area	2.184.193,09
Number of correct polygons	(100,00%)	2	Correct area	(100,00%) 2.184.193,09
Number of wrong polygons	(0,00%)	0	Wrong area	(0,00%) 0,00
Number of small polygons		0		
Number of large polygons		2		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±25,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	2,23%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	28.222.403,94
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	26.210.317,05
Variance	114.928.645.990.927,00
Standard Deviation	10.720.477,88
Coefficient of Variation	40,90%
Confidence Interval (95 %)	±45.823.935,60

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	24,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Shrubs (Main Layer)	2	2	100,00%	2.184.193,09	2.184.193,09	100,00%
A20 - Closed to Open (100-15)%	2	2	100,00%	2.184.193,09	2.184.193,09	100,00%
B3 - 5 - 0.3m (Shrubs Height Main Layer)	2	2	100,00%	2.184.193,09	2.184.193,09	100,00%
B9 - Medium High	2	2	100,00%	2.184.193,09	2.184.193,09	100,00%
C2 - On Temporarily Flooded Land	2	2	100,00%	2.184.193,09	2.184.193,09	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	2			2.184.193,09		
A20 - Closed to Open (100-15)%	2			2.184.193,09		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	2			2.184.193,09		
B9 - Medium High	2			2.184.193,09		
C2 - On Temporarily Flooded Land	2			2.184.193,09		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Shrubs (Main Layer)	2			2.184.193,09		
A20 - Closed to Open (100-15)%	2			2.184.193,09		
B3 - 5 - 0.3m (Shrubs Height Main Layer)	2			2.184.193,09		
B9 - Medium High	2			2.184.193,09		
C2 - On Temporarily Flooded Land	2			2.184.193,09		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Shrubs (Main Layer)								
A20 - Closed to Open (100-15)%								
B3 - 5 - 0.3m (Shrubs Height Main Layer)								
B9 - Medium High								
C2 - On Temporarily Flooded Land								

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Class name: 42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Water Quality: Fresh Water

General information:

Total number of polygons	147	Total area	201.987.144,74
Number of extracted polygons	21	Extracted area	10.624.371,52
Number of checked polygons	21	Checked area	10.624.371,52
Number of correct polygons	(38,10%) 8	Correct area	(52,80%) 5.609.528,72
Number of wrong polygons	(61,90%) 13	Wrong area	(39,25%) 4.169.965,53
Number of small polygons	14		
Number of large polygons	7		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 21, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area **72,56%**

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 21, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate **146.556.694,87**

Variance **0,01**
 Standard Deviation **0,09**
 Coefficient of Variation **11,78%**
 Confidence Interval (95 %) **±16,75**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **38,10%**
 Variance **0,01**
 Standard Deviation **0,10**
 Coefficient of Variation **26,39%**
 Confidence Interval (95 %) **±22,09**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **47,20%**
 Omission Error **11,10%**

Variance **40.408.601.097.330,50**
 Standard Deviation **6.356.776,00**
 Coefficient of Variation **4,34%**
 Confidence Interval (95 %) **±12.459.280,96**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 21, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **39.266.701,04**
 Variance **284.529.238.941.013,00**
 Standard Deviation **16.867.994,51**
 Coefficient of Variation **42,96%**
 Confidence Interval (95 %) **±5.877.579,40**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **56,00**
 Variance **218,40**
 Standard Deviation **14,78**
 Coefficient of Variation **26,39%**
 Confidence Interval (95 %) **±5,15**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A2 - Herbaceous Vegetation (Main Layer)	21	8	38,10%	10.624.371,52	5.609.528,72	52,80%

A20 - Closed to Open (100-15)%	21	8	38,10%	10.624.371,52	5.609.528,72	52,80%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	21	8	38,10%	10.624.371,52	5.609.528,72	52,80%
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)	21	8	38,10%	10.624.371,52	5.609.528,72	52,80%
C2 - On Temporarily Flooded Land	21	8	38,10%	10.624.371,52	5.609.528,72	52,80%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	21	3	14,29%	10.624.371,52	794.965,34	7,48%
A20 - Closed to Open (100-15)%	21	1	4,76%	10.624.371,52	446.124,36	4,20%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	21			10.624.371,52		
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)	21			10.624.371,52		
C2 - On Temporarily Flooded Land	21			10.624.371,52		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	21			10.624.371,52		
A20 - Closed to Open (100-15)%	21			10.624.371,52		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	21			10.624.371,52		
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)	21			10.624.371,52		
C2 - On Temporarily Flooded Land	21			10.624.371,52		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)				
Classifier	Level 1	Level 2	Level 3	Level 4
		same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED	different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR	different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR

	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A2 - Herbaceous Vegetation (Main Layer)			14,29%	7,48%			4,76%	0,47%
A20 - Closed to Open (100-15)%			4,76%	4,20%			14,29%	3,75%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)							19,05%	7,95%
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)							19,05%	7,95%
C2 - On Temporarily Flooded Land							19,05%	7,95%

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Class name: 5003-9 - Urban Area(s)

General information:

Total number of polygons	187	Total area	516.463.355,39
Number of extracted polygons	5	Extracted area	7.806.400,03
Number of checked polygons	5	Checked area	7.806.400,03
Number of correct polygons	(80,00%) 4	Correct area	(98,86%) 7.717.514,03
Number of wrong polygons	(20,00%) 1	Wrong area	(1,14%) 88.886,00
Number of small polygons	3		
Number of large polygons	2		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	98,86%
Variance	0,00
Standard Deviation	0,02
Coefficient of Variation	1,56%
Confidence Interval (95 %)	±3,02

MAP ACCURACY %

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	510.582.749,53
Variance	20.212.693.428.664,10
Standard Deviation	4.495.852,91
Coefficient of Variation	0,88%
Confidence Interval (95 %)	±8.811.871,71

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on number of fully correct polygons)

Estimate of correct polygon number	80,00%
Variance	0,04
Standard Deviation	0,20
Coefficient of Variation	24,66%
Confidence Interval (95 %)	±48,67

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	1,14%
Omission Error	0,00%

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	288.635.024,62
Variance	34.280.700.918.746.700,00
Standard Deviation	185.150.481,82
Coefficient of Variation	64,15%
Confidence Interval (95 %)	±174.144.903,03

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	149,60
Variance	1.361,36
Standard Deviation	36,90
Coefficient of Variation	24,66%
Confidence Interval (95 %)	±34,70

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Non-Linear (Feature)	5	4	80,00%	7.806.400,03	7.717.514,03	98,86%
A13 - Urban Area(s)	5	4	80,00%	7.806.400,03	7.717.514,03	98,86%

Error analisys for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A

(same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Non-Linear (Feature)	5			7.806.400,03		
A13 - Urban Area(s)	5			7.806.400,03		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Non-Linear (Feature)	5			7.806.400,03		
A13 - Urban Area(s)	5			7.806.400,03		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Non-Linear (Feature)							20,00%	1,14%
A13 - Urban Area(s)							20,00%	1,14%

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Class name: [5003-9-A44Zp1 - Urban Area\(s\)Built-Up Object: Other - Rural Settlement](#)

General information:

Total number of polygons	1426	Total area	286.235.139,46
Number of extracted polygons	36	Extracted area	9.090.601,16
Number of checked polygons	36	Checked area	9.090.601,16

Number of correct polygons	(88,89%)	32
Number of wrong polygons	(11,11%)	4
Number of small polygons		13
Number of large polygons		23

Correct area	(91,14%)	8.284.947,53
Wrong area	(5,00%)	454.403,84

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

Estimate of correct area	92,16%
Variance	0,00
Standard Deviation	0,04
Coefficient of Variation	4,83%
Confidence Interval (95 %)	±8,72

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	88,89%
Variance	0,00
Standard Deviation	0,05
Coefficient of Variation	5,90%
Confidence Interval (95 %)	±11,67

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	8,86%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

Correct area estimate	263.800.924,43
Variance	256.917.065.561.018,00
Standard Deviation	16.028.632,68
Coefficient of Variation	6,08%
Confidence Interval (95 %)	±31.416.120,05

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

Correct area estimate	328.175.977,05
Variance	2.440.166.196.941.950,00
Standard Deviation	49.398.038,39
Coefficient of Variation	15,05%
Confidence Interval (95 %)	±13.370.062,75

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	1.267,56
Variance	5.593,34
Standard Deviation	74,79
Coefficient of Variation	5,90%
Confidence Interval (95 %)	±20,24

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A4 - Non-Linear (Feature)	36	32	88,89%	9.090.601,16	8.284.947,53	91,14%
A13 - Urban Area(s)	36	32	88,89%	9.090.601,16	8.284.947,53	91,14%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Non-Linear (Feature)	36			9.090.601,16		
A13 - Urban Area(s)	36			9.090.601,16		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A4 - Non-Linear (Feature)	36			9.090.601,16		
A13 - Urban Area(s)	36			9.090.601,16		

Repairable and not repairable errors:

LEVEL OF ERROR

(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A4 - Non-Linear (Feature)							8,33%	3,86%
A13 - Urban Area(s)							8,33%	3,86%

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Class name: 6006 - Loose And Shifting Sands

General information:

Total number of polygons		25	Total area	46.902.148,91
Number of extracted polygons		2	Extracted area	797.973,90
Number of checked polygons		2	Checked area	797.973,90
Number of correct polygons	(100,00%)	2	Correct area	(100,00%) 797.973,90
Number of wrong polygons	(0,00%)	0	Wrong area	(0,00%) 0,00
Number of small polygons		1		
Number of large polygons		1		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	46.902.148,91
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±25,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30	
Correct area estimate	9.974.673,80
Variance	12.944.519.036.633,80
Standard Deviation	3.597.849,22
Coefficient of Variation	36,07%
Confidence Interval (95 %)	±15.406.691,78

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	25,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

[Top of document](#)**Statistics for each selected classifier:**

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A6 - Loose and Shifting Sands	2	2	100,00%	797.973,90	797.973,90	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A6 - Loose and Shifting Sands	2			797.973,90		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A6 - Loose and Shifting Sands	2			797.973,90		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A6 - Loose and Shifting Sands								

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Class name: **6009 - Shifting Sands / Dune(s)**

General information:

Total number of polygons		3	Total area	4.945.143,81
Number of extracted polygons		2	Extracted area	1.903.486,05
Number of checked polygons		2	Checked area	1.903.486,05
Number of correct polygons	(100,00%)	2	Correct area	(100,00%) 1.903.486,05
Number of wrong polygons	(0,00%)	0	Wrong area	(0,00%) 0,00

Number of small polygons	2
Number of large polygons	0

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±25,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	4.945.143,81
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	2.855.229,07
Variance	359.989.912.439,57
Standard Deviation	599.991,59
Coefficient of Variation	21,01%
Confidence Interval (95 %)	±1.546.525,41

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	3,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A6 - Loose and Shifting Sands	2	2	100,00%	1.903.486,05	1.903.486,05	100,00%
B1 - Dune(s)	2	2	100,00%	1.903.486,05	1.903.486,05	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A6 - Loose and Shifting Sands	2			1.903.486,05		
B1 - Dune(s)	2			1.903.486,05		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A6 - Loose and Shifting Sands	2			1.903.486,05		
B1 - Dune(s)	2			1.903.486,05		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)				
Classifier	Level 1	Level 2	Level 3	Level 4
	same LCCS group analogous classifier (similarity B)	different LCCS group analogous classifier (similarity A)	different LCCS group analogous classifier (similarity B)	different classifier ERROR NOT REPAIRABLE

	AUTOREPAIR ENABLED		ONLY MANUAL REPAIR		ONLY MANUAL REPAIR			
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A6 - Loose and Shifting Sands								
B1 - Dune(s)								

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Class name: 8003-76 - Non-Perennial Natural Waterbodies (Surface Aspect: Bare Soil) (Water presence 3-1 months)

General information:

Total number of polygons		461	Total area		546.753.096,17
Number of extracted polygons		12	Extracted area		6.867.926,34
Number of checked polygons		12	Checked area		6.867.926,34
Number of correct polygons	(83,33%)	10	Correct area	(90,23%)	6.197.041,84
Number of wrong polygons	(16,67%)	2	Wrong area	(9,77%)	670.884,51
Number of small polygons		5			
Number of large polygons		7			

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 12, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	97,58%
Variance	0,00
Standard Deviation	0,02
Coefficient of Variation	2,03%
Confidence Interval (95 %)	±3,88

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	83,33%
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STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 12, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	533.544.433,46
Variance	27.248.731.178.729,60
Standard Deviation	5.220.031,72
Coefficient of Variation	0,98%
Confidence Interval (95 %)	±10.231.262,18

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 12, and ratio estimator should be used only with sampling number greater than 30

Variance **0,01**
 Standard Deviation **0,11**
 Coefficient of Variation **13,31%**
 Confidence Interval (95 %) **±25,90**

Correct area estimate **238.069.690,64**
 Variance **5.618.997.018.012.370,00**
 Standard Deviation **74.959.969,44**
 Coefficient of Variation **31,49%**
 Confidence Interval (95 %) **±38.352.175,91**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **9,77%**
 Omission Error **0,00%**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **384,17**
 Variance **2.613,50**
 Standard Deviation **51,12**
 Coefficient of Variation **13,31%**
 Confidence Interval (95 %) **±26,16**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Inland Water	12	10	83,33%	6.867.926,34	6.197.041,84	90,23%
B2 - Non-Perennial Or Seasonal	12	10	83,33%	6.867.926,34	6.197.041,84	90,23%
B5 - (Surface Aspect: Bare Soil)	12	10	83,33%	6.867.926,34	6.197.041,84	90,23%
B9 - 3-1 months	12	10	83,33%	6.867.926,34	6.197.041,84	90,23%

Error analisys for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A
 (same element, different dichotomous group)

Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Inland Water	12			6.867.926,34		
B2 - Non-Perennial Or Seasonal	12			6.867.926,34		
B5 - (Surface Aspect: Bare Soil)	12			6.867.926,34		
B9 - 3-1 months	12			6.867.926,34		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Inland Water	12			6.867.926,34		
B2 - Non-Perennial Or Seasonal	12			6.867.926,34		
B5 - (Surface Aspect: Bare Soil)	12			6.867.926,34		
B9 - 3-1 months	12			6.867.926,34		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A1 - Inland Water								
B2 - Non-Perennial Or Seasonal								
B5 - (Surface Aspect: Bare Soil)								
B9 - 3-1 months								

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Class name: **8004-18 - Tidal Area (Surface Aspect: Bare Soil)**

General information:

Total number of polygons	198	Total area	799.852.288,92
Number of extracted polygons	5	Extracted area	6.767.704,84
Number of checked polygons	5	Checked area	6.767.704,84
Number of correct polygons	(80,00%) 4	Correct area	(83,84%) 5.674.197,19
Number of wrong polygons	(20,00%) 1	Wrong area	(16,16%) 1.093.507,65
Number of small polygons	1		
Number of large polygons	4		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	91,27%
Variance	0,01
Standard Deviation	0,10
Coefficient of Variation	10,94%
Confidence Interval (95 %)	±19,57

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	80,00%
Variance	0,04
Standard Deviation	0,20
Coefficient of Variation	24,68%
Confidence Interval (95 %)	±48,70

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	16,16%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	730.023.523,22
Variance	715.688.177.112.030,00
Standard Deviation	26.752.349,00
Coefficient of Variation	3,66%
Confidence Interval (95 %)	±52.434.604,04

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 5, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	224.698.208,63
Variance	18.383.380.196.251.200,00
Standard Deviation	135.585.324,41
Coefficient of Variation	60,34%
Confidence Interval (95 %)	±127.623.242,51

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	158,40
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Variance	1.528,56
Standard Deviation	39,10
Coefficient of Variation	24,68%
Confidence Interval (95 %)	±36,80

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Inland Water	5	4	80,00%	6.767.704,84	5.674.197,19	83,84%
B3 - Tidal Area	5	4	80,00%	6.767.704,84	5.674.197,19	83,84%
B5 - (Surface Aspect: Bare Soil)	5	4	80,00%	6.767.704,84	5.674.197,19	83,84%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Inland Water	5			6.767.704,84		
B3 - Tidal Area	5			6.767.704,84		
B5 - (Surface Aspect: Bare Soil)	5			6.767.704,84		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Inland Water	5			6.767.704,84		

B3 - Tidal Area	5			6.767.704,84		
B5 - (Surface Aspect: Bare Soil)	5			6.767.704,84		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A1 - Inland Water								
B3 - Tidal Area								
B5 - (Surface Aspect: Bare Soil)								

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Class name: Orchard Small & Large (Defined in 11182-W8 - Permanently Cropped Area With Rainfed Tree Crop(s) Crop Cover: Orchard(s))

General information:

Total number of polygons	71	Total area	47.552.752,56
Number of extracted polygons	2	Extracted area	787.238,90
Number of checked polygons	2	Checked area	787.238,90
Number of correct polygons	(100,00%) 2	Correct area	(100,00%) 787.238,90
Number of wrong polygons	(0,00%) 0	Wrong area	(0,00%) 0,00
Number of small polygons	0		
Number of large polygons	2		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±25,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	0,00%
Omission Error	35,32%

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	47.552.752,56
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30	
Correct area estimate	27.946.980,96
Variance	67.811.011.238.166,60
Standard Deviation	8.234.744,15
Coefficient of Variation	29,47%
Confidence Interval (95 %)	±36.242.487,91

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	71,00
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%
Confidence Interval (95 %)	±0,00

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Statistics for each selected classifier:

SAME CLASSIFIER

Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Tree Crops	2	2	100,00%	787.238,90	787.238,90	100,00%
B1 - Large To Medium Sized Field(s)	2	2	100,00%	787.238,90	787.238,90	100,00%
C1 - Monoculture	2	2	100,00%	787.238,90	787.238,90	100,00%
D1 - Rainfed Cultivation	2	2	100,00%	787.238,90	787.238,90	100,00%
D9 - Permanently Cropped Area	2	2	100,00%	787.238,90	787.238,90	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Tree Crops	2			787.238,90		
B1 - Large To Medium Sized Field(s)	2			787.238,90		
C1 - Monoculture	2			787.238,90		
D1 - Rainfed Cultivation	2			787.238,90		
D9 - Permanently Cropped Area	2			787.238,90		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Tree Crops	2			787.238,90		
B1 - Large To Medium Sized Field(s)	2			787.238,90		
C1 - Monoculture	2			787.238,90		
D1 - Rainfed Cultivation	2			787.238,90		
D9 - Permanently Cropped Area	2			787.238,90		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)
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Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A1 - Tree Crops								
B1 - Large To Medium Sized Field(s)								
C1 - Monoculture								
D1 - Rainfed Cultivation								
D9 - Permanently Cropped Area								

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Class name: Plantation Small & Large (Defined in 11182-W7 - Permanently Cropped Area With Rainfed Tree Crop(s)Crop Cover: Plantation(s))

General information:

Total number of polygons		57	Total area		252.967.693,19
Number of extracted polygons		2	Extracted area		857.984,02
Number of checked polygons		2	Checked area		857.984,02
Number of correct polygons	(100,00%)	2	Correct area	(100,00%)	857.984,02
Number of wrong polygons	(0,00%)	0	Wrong area	(0,00%)	0,00
Number of small polygons		2			
Number of large polygons		0			

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	100,00%
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	252.967.693,19
Variance	0,00
Standard Deviation	0,00
Coefficient of Variation	0,00%

Confidence Interval (95 %)

±0,00

Confidence Interval (95 %)

±0,00

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number

100,00%

Variance

0,00

Standard Deviation

0,00

Coefficient of Variation

0,00%

Confidence Interval (95 %)

±25,00

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error

0,00%

Omission Error

0,00%

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 2, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate

24.452.544,44

Variance

123.899.142.268.177,00

Standard Deviation

11.130.999,16

Coefficient of Variation

45,52%

Confidence Interval (95 %)

±48.814.695,89

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate

57,00

Variance

0,00

Standard Deviation

0,00

Coefficient of Variation

0,00%

Confidence Interval (95 %)

±0,00

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Tree Crops	2	2	100,00%	857.984,02	857.984,02	100,00%
A7 - Broadleaved	2	2	100,00%	857.984,02	857.984,02	100,00%
A10 - Deciduous	2	2	100,00%	857.984,02	857.984,02	100,00%
B1 - Large To Medium Sized Field(s)	2	2	100,00%	857.984,02	857.984,02	100,00%
C1 - Monoculture	2	2	100,00%	857.984,02	857.984,02	100,00%

D1 - Rainfed Cultivation	2	2	100,00%	857.984,02	857.984,02	100,00%
D9 - Permanently Cropped Area	2	2	100,00%	857.984,02	857.984,02	100,00%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Tree Crops	2			857.984,02		
A7 - Broadleaved	2			857.984,02		
A10 - Deciduous	2			857.984,02		
B1 - Large To Medium Sized Field(s)	2			857.984,02		
C1 - Monoculture	2			857.984,02		
D1 - Rainfed Cultivation	2			857.984,02		
D9 - Permanently Cropped Area	2			857.984,02		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Tree Crops	2			857.984,02		
A7 - Broadleaved	2			857.984,02		
A10 - Deciduous	2			857.984,02		
B1 - Large To Medium Sized Field(s)	2			857.984,02		
C1 - Monoculture	2			857.984,02		
D1 - Rainfed Cultivation	2			857.984,02		
D9 - Permanently Cropped Area	2			857.984,02		

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)				
Classifier	Level 1	Level 2	Level 3	Level 4
	same LCCS group	different LCCS group	different LCCS group	different classifier

	analogous classifier (similarity B) AUTOREPAIR ENABLED		analogous classifier (similarity A) ONLY MANUAL REPAIR		analogous classifier (similarity B) ONLY MANUAL REPAIR		ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A1 - Tree Crops								
A7 - Broadleaved								
A10 - Deciduous								
B1 - Large To Medium Sized Field(s)								
C1 - Monoculture								
D1 - Rainfed Cultivation								
D9 - Permanently Cropped Area								

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Class name: Herbaceous Flooded with Fresh & Brackish Water (Defined in 40055-4723-R1 - Closed Tall Herbaceous Vegetation On Permanently Flooded LandWater Quality: Fresh Water)

General information:

Total number of polygons	243	Total area	380.395.811,92
Number of extracted polygons	6	Extracted area	1.387.897,70
Number of checked polygons	6	Checked area	1.387.897,70
Number of correct polygons	(66,67%) 4	Correct area	(70,05%) 972.186,39
Number of wrong polygons	(33,33%) 2	Wrong area	(29,95%) 415.711,31
Number of small polygons	5		
Number of large polygons	1		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 6, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	91,61%
Variance	0,00
Standard Deviation	0,06

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 6, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	348.463.750,39
Variance	11.428.908.030.351,10
Standard Deviation	3.380.666,80

Coefficient of Variation **6,57%**
 Confidence Interval (95 %) **±11,79**

Coefficient of Variation **0,97%**
 Confidence Interval (95 %) **±6.626.106,93**

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number **66,67%**
 Variance **0,04**
 Standard Deviation **0,21**
 Coefficient of Variation **31,23%**
 Confidence Interval (95 %) **±49,14**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **29,95%**
 Omission Error **77,38%**

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 6, and ratio estimator should be used only with sampling number greater than 30
 Correct area estimate **39.373.548,78**
 Variance **233.712.477.930.653,00**
 Standard Deviation **15.287.657,70**
 Coefficient of Variation **38,83%**
 Confidence Interval (95 %) **±12.420.004,60**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **162,00**
 Variance **2.559,60**
 Standard Deviation **50,59**
 Coefficient of Variation **31,23%**
 Confidence Interval (95 %) **±41,10**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A2 - Herbaceous Vegetation (Main Layer)	6	4	66,67%	1.387.897,70	972.186,39	70,05%
A12 - Closed > (70-60)% (Main Layer)	6	4	66,67%	1.387.897,70	972.186,39	70,05%

A12 - Closed > (70-60)% (Main Layer)								
B4 - 3 - 0.03m (Herbaceous Height Main Layer)								
B11 - Tall 3-0.8m (Herbaceous Height Main Layer)								
C1 - On Permanently Flooded Land								

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Class name: Bare Soil & Bare Soil Eroded (Defined in 6005 - Bare Soil And/Or Other Unconsolidated Material(s))

General information:

Total number of polygons		252	Total area	407.194.442,00
Number of extracted polygons		6	Extracted area	28.216.345,68
Number of checked polygons		6	Checked area	28.216.345,68
Number of correct polygons	(83,33%)	5	Correct area	(95,64%) 26.986.475,31
Number of wrong polygons	(16,67%)	1	Wrong area	(4,36%) 1.229.870,37
Number of small polygons		3		
Number of large polygons		3		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 6, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	97,59%
Variance	0,00
Standard Deviation	0,03
Coefficient of Variation	3,21%
Confidence Interval (95 %)	±6,14

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	83,33%
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STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 6, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	397.389.470,76
Variance	1.378.390.481.235.370,00
Standard Deviation	37.126.681,53
Coefficient of Variation	9,34%
Confidence Interval (95 %)	±72.768.295,79

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 6, and ratio estimator should be used only with sampling number greater than 30

Variance **0,03**
 Standard Deviation **0,16**
 Coefficient of Variation **19,76%**
 Confidence Interval (95 %) **±40,61**

Correct area estimate **1.133.431.962,96**
 Variance **611.977.630.603.600.000,00**
 Standard Deviation **782.289.991,37**
 Coefficient of Variation **69,02%**
 Confidence Interval (95 %) **±635.835.581,85**

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error **4,36%**
 Omission Error **0,33%**

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate **210,00**
 Variance **1.722,00**
 Standard Deviation **41,50**
 Coefficient of Variation **19,76%**
 Confidence Interval (95 %) **±33,73**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A5 - Bare Soil And/Or Other Unconsolidated Material(s)	6	5	83,33%	28.216.345,68	26.986.475,31	95,64%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)		
Classifier	Polygons	Area

A5 - Bare Soil And/Or Other Unconsolidated Material(s)	6			28.216.345,68	
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ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%

Repairable and not repairable errors:

LEVEL OF ERROR (about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A5 - Bare Soil And/Or Other Unconsolidated Material(s)								

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Class name: Bare Soil or Sparse Vegetation Flooded with Fresh & Brackish Water (Defined in 8003-3-V1 // 40451 - Non-Perennial Natural Waterbodies (Flowing) (Surface Aspect: Bare Soil)Salinity: Fresh, < 1.000 ppm of TDS // Sparse Shrubs With Sparse Herbaceous Vegetation On Temporarily Flooded Land)

General information:

Total number of polygons	539	Total area	1.027.175.345,39
Number of extracted polygons	13	Extracted area	18.819.636,25
Number of checked polygons	13	Checked area	18.819.636,25
Number of correct polygons	(69,23%) 9	Correct area	(73,56%) 13.843.159,13
Number of wrong polygons	(30,77%) 4	Wrong area	(5,99%) 1.127.512,96
Number of small polygons	8		
Number of large polygons	5		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 13, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	76,36%
Variance	0,03
Standard Deviation	0,17
Coefficient of Variation	22,44%
Confidence Interval (95 %)	±33,58

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	69,23%
Variance	0,02
Standard Deviation	0,13
Coefficient of Variation	19,01%
Confidence Interval (95 %)	±29,64

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	26,44%
Omission Error	0,00%

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 13, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	784.349.469,44
Variance	17.872.320.410.767.400,00
Standard Deviation	133.687.398,10
Coefficient of Variation	17,04%
Confidence Interval (95 %)	±262.027.300,28

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 13, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	573.958.674,49
Variance	73.554.951.987.331.500,00
Standard Deviation	271.210.162,03
Coefficient of Variation	47,25%
Confidence Interval (95 %)	±132.437.402,56

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	373,15
Variance	5.032,79
Standard Deviation	70,94
Coefficient of Variation	19,01%
Confidence Interval (95 %)	±34,64

Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A1 - Inland Water	13	9	69,23%	18.819.636,25	13.843.159,13	73,56%
A4 - (Flowing)	13	6	46,15%	18.819.636,25	12.481.503,26	66,32%
B2 - Non-Perennial Or Seasonal	13	9	69,23%	18.819.636,25	13.843.159,13	73,56%
B5 - (Surface Aspect: Bare Soil)	13	6	46,15%	18.819.636,25	12.481.503,26	66,32%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Inland Water	13			18.819.636,25		
A4 - (Flowing)	13			18.819.636,25		
B2 - Non-Perennial Or Seasonal	13			18.819.636,25		
B5 - (Surface Aspect: Bare Soil)	13			18.819.636,25		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A1 - Inland Water	13			18.819.636,25		
A4 - (Flowing)	13	3	23,08%	18.819.636,25	1.361.655,87	7,24%
B2 - Non-Perennial Or Seasonal	13			18.819.636,25		
B5 - (Surface Aspect: Bare Soil)	13			18.819.636,25		

Repairable and not repairable errors:

LEVEL OF ERROR

(about the opportunity to repair the error by a manual or automatic method)

Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
	A1 - Inland Water							15,38%
A4 - (Flowing)	23,08%	7,24%					15,38%	20,45%
B2 - Non-Perennial Or Seasonal							15,38%	20,45%
B5 - (Surface Aspect: Bare Soil)							38,46%	27,69%

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STATISTICS FOR ALL SELECTED STRATA

TOTAL SURFACE ACCURACY COMBINED %

(based on ratio between correct and total surface)

Correct area estimate	99,60%
Variance	0,02
Standard Deviation	0,02
Coefficient of Variation	1,58%
Confidence Interval (95 % , fd=0)	±9,91

TOTAL SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number in some selected strata is too small, and ratio total estimator should be used only with a sampling number greater than 30 for each strata

Correct area estimate	97,89%
Variance	0,00%
Standard Deviation	0,01
Coefficient of Variation	0,52%
Confidence Interval (95 % , fd=1)	±3,23

TOTAL MAP ACCURACY %

STATISTICS FOR TOTAL CORRECT AREA BY RATIO COMBINED

(based on ratio between correct and total surface)

Correct area estimate	104.853.418.535,49
Variance	2.733.077.405.181.920.000,00
Standard Deviation	1.653.202.167,06
Coefficient of Variation	1,58%
Confidence Interval (95 % , fd=438)	±2.719.276.197,30

STATISTICS FOR TOTAL CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number in some selected strata is too small, and ratio total estimator should be used only with a sampling number greater than 30 for each strata

Correct area estimate	103.052.441.561,92
Variance	290.900.123.002.401.000,00
Standard Deviation	539.351.576,43
Coefficient of Variation	0,52%
Confidence Interval (95 % , fd=438)	±887.154.597,90

(based on number of fully correct polygons)

Correct area estimate	82,41%
Variance	0,00
Standard Deviation	0,02
Coefficient of Variation	2,20%
Confidence Interval (95 % , fd=3)	±4,27

STATISTICS FOR TOTAL CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

Correct area estimate	494.794.794.442,53
Variance	162.975.788.465.692.000.000.000,00
Standard Deviation	403.702.599.032,62
Coefficient of Variation	81,59%
Confidence Interval (95 % , fd=438)	±664.031.834.829,20

STATISTICS FOR TOTAL NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	13.178,23
Variance	84.222,61
Standard Deviation	290,21
Coefficient of Variation	2,20%
Confidence Interval (95 % , fd=438)	±477,36

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Additional Accuracy Assessment Statistical Report

MAP ACCURACY ESTIMATE (Confusion Matrix)

Configuration

Summary of correct photointerpretation

Expansion to total of correct photointerpretation

Confusion Matrix

CONFIGURATION

Configuration created on 24/11/2008 (1)

SUMMARY OF CHECKED POLYGONS

Correct photointerpretation by MAP and SURFACE approach

STRATUM (CLASS OR GROUP)	Correct Photointerpretation						Total Checked	
	MAP Approach			SURFACE Approach			Number	Area
	Number	Area		Area				
21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation	7	70,00%	13.906.431,59	89,96%	14.261.107,57	92,25%	10	15.459.007,02
42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Water Quality: Fresh Water	8	80,00%	8.477.478,37	91,94%	8.792.447,58	95,36%	10	9.220.308,50

EXPANSION TO ALL POLYGONS

Expansion of proportion of correct photointerpretation to all polygons of each stratum

STRATUM (CLASS OR GROUP)	Expansion of Correct Photointerpretation		Total		
	MAP Approach	SURFACE Approach	Number	Area	
	Number	Area			
21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation	75	157.043.057,08	161.048.354,97	107	174.576.037,53
42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Water Quality: Fresh Water	98	90.945.973,36	94.324.947,66	123	98.915.018,76

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CONFUSION MATRIX

The table presents a summary of MAP ACCURACY based on proportion of correct area and number of correct polygons. It presents also information about Omission/Commission errors.

STRATUM (CLASS OR GROUP)		1	2	3	4	TOTAL
1 (21454-121340)	Area (Ha)	93,08% 1.390,64		2,43% 36,28	4,49% 67,06	1.493,98
	Number	77,78% 7		11,11% 1	11,11% 1	9
2 (42348-4732-L15L5R1)	Area (Ha)		100,00% 847,75			847,75
						8

	Number		100,00% 8			
TOTAL	Area (Ha)	1.390,64	847,75	36,28	67,06	2.341,73
		7	8	1	1	17

LEGEND

CLASS	DESCRIPTION
1. 21454-121340	- "Herbacées ouvertes à fermées (40-100%) avec des arbres et arbustes négligeables (< 4%)." - "Herbaceous Closed to Open (100-40)% Vegetation"
2. 42348-4732-L15L5R1	- "Herbacée ouvertes à fermée (40-100%) saisonnièrement inondés (2-4 mois); eau douce dans le vallée." - "Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat Water Quality: Fresh Water"
3. 21642-121340	- "Tapis herbacé ouvert à fermé (40-100%) avec des arbres et arbustes epars (4-15%)." - "Closed to Open (100-40)% Herbaceous Vegetation with Trees and Shrubs"
4. 22687-6021	- "Arbres très ouverts (15-40%) avec des arbustes et herbacées ouverts (15-65%)." - "Broadleaved Deciduous (40 - (20-10)% Woodland With Open Shrubs And Open Herbaceous Layer"

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MAP ACCURACY ESTIMATE
(Statistical report)

Configuration

Sample Settings

General Information

Stratification Details

Stratum (Class or Group) Statistics

21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation

42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land Major Landclass: Level Land, Valley Floor,

Slope Class: Flat To Almost Flat Water Quality: Fresh Water

Statistics for All Selected Strata

SAMPLE SETTINGS

Extraction type	Apply Criteria
Geographical area	D:\SENEGAL\Accuracy Assessment\shapes\mosaic_clipped_z28.shp
Size criterium	Yes
Original sample size (from configuration)	20
Current sample size (also re-extracted)	20

CONFIGURATION

Configuration

Configuration created on
24/11/2008 (1)

STRATIFICATION DETAILS

Number of selected strata	4
Number of selected strata with no polygons	0
Total number of polygons of selected strata	230
Number of extracted polygons	20
% of extracted polygons over selected strata	8,70%
% of extracted polygons over all strata (selected and not)	0,08%
Total area of polygons of selected strata	273.491.056,29
Area of extracted polygons	24.679.315,53
% of area of extracted polygons over selected strata	9,02%
% of area of extracted polygons over all strata (selected and not)	0,01%

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GENERAL INFORMATION

Total number of strata	51
Total number of polygons	23927
Total area	196.596.280.080,79

STRATUM (CLASS OR GROUP) STATISTICS

Class name: **21454-121340 - Herbaceous Closed to Open (100-40)% Vegetation**

General information:

Total number of polygons	107
Number of extracted polygons	10
Number of checked polygons	10
Number of correct polygons	(70,00%) 7
Number of wrong polygons	(30,00%) 3
Number of small polygons	5
Number of large polygons	5

Total area	174.576.037,53
Extracted area	15.459.007,02
Checked area	15.459.007,02
Correct area	(89,96%) 13.906.431,59
Wrong area	(3,36%) 519.185,13

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	92,25%
Variance	0,00
Standard Deviation	0,06
Coefficient of Variation	6,43%
Confidence Interval (95 %)	±11,63

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	70,00%
Variance	0,02
Standard Deviation	0,15
Coefficient of Variation	20,78%
Confidence Interval (95 %)	±33,51

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	161.048.354,97
Variance	96.377.904.882.140,80
Standard Deviation	9.817.224,91
Coefficient of Variation	6,10%
Confidence Interval (95 %)	±19.241.760,82

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	148.798.817,98
Variance	3.922.957.102.380.830,00
Standard Deviation	62.633.514,21
Coefficient of Variation	42,09%

Commission Error
Omission Error

10,04%
0,00%

Confidence Interval (95 %)

±34.569.253,01

**STATISTICS FOR STRATUM NUMBER OF
CORRECT POLYGONS**

(based on number of fully correct polygons)

Correct number estimate **74,90**
Variance **242,18**
Standard Deviation **15,56**
Coefficient of Variation **20,78%**
Confidence Interval (95 %) **±8,59**

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A2 - Herbaceous Vegetation (Main Layer)	10	8	80,00%	15.459.007,02	14.269.191,09	92,30%
A20 - Closed to Open (100-15)%	10	8	80,00%	15.459.007,02	14.269.191,09	92,30%
A21 - Closed to Open (100-40)%	10	8	80,00%	15.459.007,02	14.269.191,09	92,30%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10	8	80,00%	15.459.007,02	14.269.191,09	92,30%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A

(same element, different dichotomous group)

Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	10			15.459.007,02		
A20 - Closed to Open (100-15)%	10			15.459.007,02		
A21 - Closed to Open (100-40)%	10			15.459.007,02		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10			15.459.007,02		

ANALOGOUS CLASSIFIER - SIMILARITY B

(different detail of the same element)

Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	10			15.459.007,02		
A20 - Closed to Open (100-15)%	10			15.459.007,02		
A21 - Closed to Open (100-40)%	10			15.459.007,02		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10			15.459.007,02		

Repairable and not repairable errors:

LEVEL OF ERROR

(about the opportunity to repair the error by a manual or automatic method)

Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A2 - Herbaceous Vegetation (Main Layer)							10,00%	4,34%

A20 - Closed to Open (100-15)%								10,00%	4,34%
A21 - Closed to Open (100-40)%								10,00%	4,34%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)								10,00%	4,34%

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Class name: 42348-4732-L15L5R1 - Closed to Open Medium Tall Herbaceous Vegetation On Temporarily Flooded Land
Major Landclass: Level Land, Valley Floor, Slope Class: Flat To Almost Flat
Water Quality: Fresh Water

General information:

Total number of polygons	123	Total area	98.915.018,76
Number of extracted polygons	10	Extracted area	9.220.308,50
Number of checked polygons	10	Checked area	9.220.308,50
Number of correct polygons (80,00%)	8	Correct area (91,94%)	8.477.478,37
Number of wrong polygons (20,00%)	2	Wrong area (8,06%)	742.830,14
Number of small polygons	5		
Number of large polygons	5		

Statistics for the class or group:

SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Estimate of correct area	95,36%
Variance	0,00

STATISTICS FOR STRATUM CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	94.324.947,66
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Standard Deviation	0,04
Coefficient of Variation	4,38%
Confidence Interval (95 %)	±8,19

MAP ACCURACY %

(based on number of fully correct polygons)

Estimate of correct polygon number	80,00%
Variance	0,02
Standard Deviation	0,13
Coefficient of Variation	15,97%
Confidence Interval (95 %)	±30,05

OMISSION / COMMISSION

(based on map accuracy weighted by polygon area)

Commission Error	8,06%
Omission Error	0,00%

Variance	22.474.950.101.184,90
Standard Deviation	4.740.775,26
Coefficient of Variation	5,03%
Confidence Interval (95 %)	±9.291.919,52

STATISTICS FOR STRATUM CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

WARNING: sampling number for this class is 10, and ratio estimator should be used only with sampling number greater than 30

Correct area estimate	104.272.983,90
Variance	1.609.244.939.618.010,00
Standard Deviation	40.115.395,29
Coefficient of Variation	38,47%
Confidence Interval (95 %)	±22.288.814,99

STATISTICS FOR STRATUM NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	98,40
Variance	247,09
Standard Deviation	15,72
Coefficient of Variation	15,97%
Confidence Interval (95 %)	±8,73

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Statistics for each selected classifier:

SAME CLASSIFIER						
Classifier	Polygons			Area		
	Checked	Correct	Correct %	Checked	Area	Area %
A2 - Herbaceous Vegetation (Main Layer)	10	8	80,00%	9.220.308,50	8.477.478,37	91,94%
A20 - Closed to Open (100-15)%	10	8	80,00%	9.220.308,50	8.477.478,37	91,94%
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10	8	80,00%	9.220.308,50	8.477.478,37	91,94%
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)	10	8	80,00%	9.220.308,50	8.477.478,37	91,94%
C2 - On Temporarily Flooded Land	10	8	80,00%	9.220.308,50	8.477.478,37	91,94%

Error analysis for analogous classifiers:

ANALOGOUS CLASSIFIER - SIMILARITY A (same element, different dichotomous group)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	10			9.220.308,50		
A20 - Closed to Open (100-15)%	10			9.220.308,50		
B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10			9.220.308,50		
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)	10			9.220.308,50		
C2 - On Temporarily Flooded Land	10			9.220.308,50		

ANALOGOUS CLASSIFIER - SIMILARITY B (different detail of the same element)						
Classifier	Polygons			Area		
	Checked	Analogous	%	Checked	Analogous	%
A2 - Herbaceous Vegetation (Main Layer)	10			9.220.308,50		
A20 - Closed to Open (100-15)%	10			9.220.308,50		

B4 - 3 - 0.03m (Herbaceous Height Main Layer)	10			9.220.308,50		
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)	10			9.220.308,50		
C2 - On Temporarily Flooded Land	10			9.220.308,50		

Repairable and not repairable errors:

LEVEL OF ERROR								
(about the opportunity to repair the error by a manual or automatic method)								
Classifier	Level 1 same LCCS group analogous classifier (similarity B) AUTOREPAIR ENABLED		Level 2 different LCCS group analogous classifier (similarity A) ONLY MANUAL REPAIR		Level 3 different LCCS group analogous classifier (similarity B) ONLY MANUAL REPAIR		Level 4 different classifier ERROR NOT REPAIRABLE	
	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %	Polygons %	Area %
A2 - Herbaceous Vegetation (Main Layer)								
A20 - Closed to Open (100-15)%								
B4 - 3 - 0.03m (Herbaceous Height Main Layer)								
B12 - Medium Tall 0.8-0.3m (Herbaceous Height Main Layer)								
C2 - On Temporarily Flooded Land								

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STATISTICS FOR ALL SELECTED STRATA

TOTAL SURFACE ACCURACY COMBINED %

STATISTICS FOR TOTAL CORRECT AREA BY

(based on ratio between correct and total surface)

WARNING: sampling number for all selected strata is 20, and ratio combined estimator should be used only with total sampling number greater than 30

Correct area estimate	93,52%
Variance	0,04
Standard Deviation	0,04
Coefficient of Variation	4,16%
Confidence Interval (95 % , fd=9)	±7,13

TOTAL SURFACE ACCURACY %

(based on ratio between correct and total surface)

WARNING: sampling number in some selected strata is too small, and ratio total estimator should be used only with a sampling number greater than 30 for each strata

Correct area estimate	93,38%
Variance	0,00%
Standard Deviation	0,04
Coefficient of Variation	4,27%
Confidence Interval (95 % , fd=9)	±7,31

TOTAL MAP ACCURACY %

(based on number of fully correct polygons)

Correct area estimate	75,35%
Variance	0,01
Standard Deviation	0,10
Coefficient of Variation	12,82%
Confidence Interval (95 % , fd=9)	±17,71

RATIO COMBINED

(based on ratio between correct and total surface)

WARNING: sampling number for all selected strata is 20, and ratio combined estimator should be used only with total sampling number greater than 30

Correct area estimate	255.756.475,00
Variance	113.174.335.993.506,00
Standard Deviation	10.638.342,73
Coefficient of Variation	4,16%
Confidence Interval (95 % , fd=18)	±18.447.567,14

STATISTICS FOR TOTAL CORRECT AREA BY RATIO

(based on ratio between correct and total surface)

WARNING: sampling number in some selected strata is too small, and ratio total estimator should be used only with a sampling number greater than 30 for each strata

Correct area estimate	255.373.302,63
Variance	118.852.854.983.326,00
Standard Deviation	10.901.965,65
Coefficient of Variation	4,27%
Confidence Interval (95 % , fd=18)	±18.904.706,16

STATISTICS FOR TOTAL CORRECT AREA BY POLYGON

(based on area of fully correct polygons)

Correct area estimate	253.071.801,88
Variance	5.532.202.041.998.850,00
Standard Deviation	74.378.774,14
Coefficient of Variation	29,39%
Confidence Interval (95 % , fd=18)	±128.977.554,59

STATISTICS FOR TOTAL NUMBER OF CORRECT POLYGONS

(based on number of fully correct polygons)

Correct number estimate	173,30
Variance	489,27
Standard Deviation	22,12
Coefficient of Variation	12,76%
Confidence Interval (95 % , fd=18)	±38,36