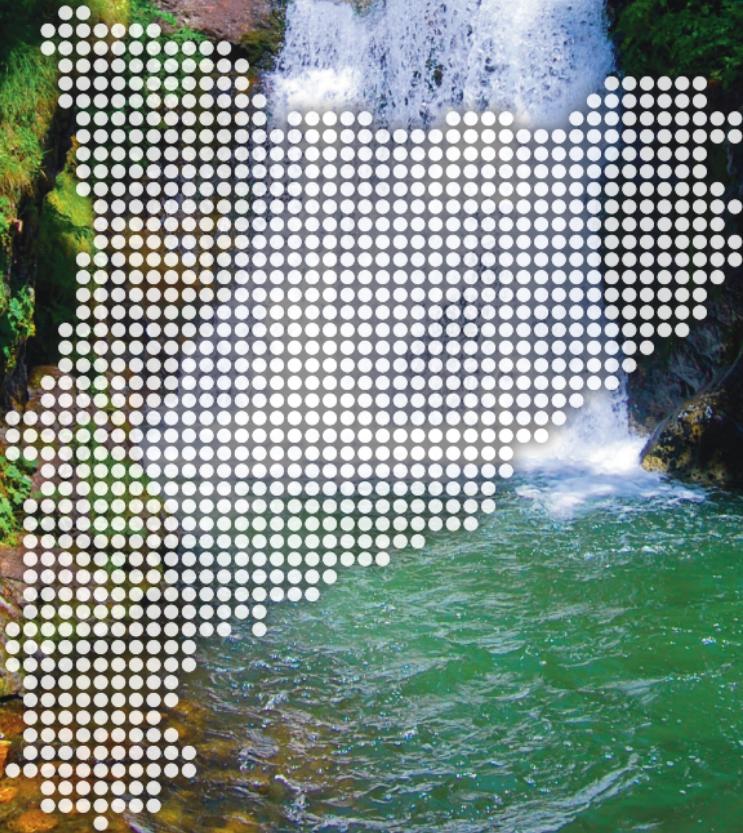


# Data of the environment in Catalonia

2013



Generalitat de Catalunya  
**Departament de Territori  
i Sostenibilitat**

Sources:

Ministry of Territoy and Sustainability

Ministry of Agriculture, Livestock, Fisheries, Food and Natural Environment

Ministry of Governance and Institutional Relations

Institute of Statistics of Catalonia

Centre for Ecological Research and Forestry Applications (CREAF)

Data at 31st December of the year given.

Coordination:

Subdirectorate-General for Information and Environment Education

Environmental Information Service

B. 30145-2012

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# Data of the environment in Catalonia



2013

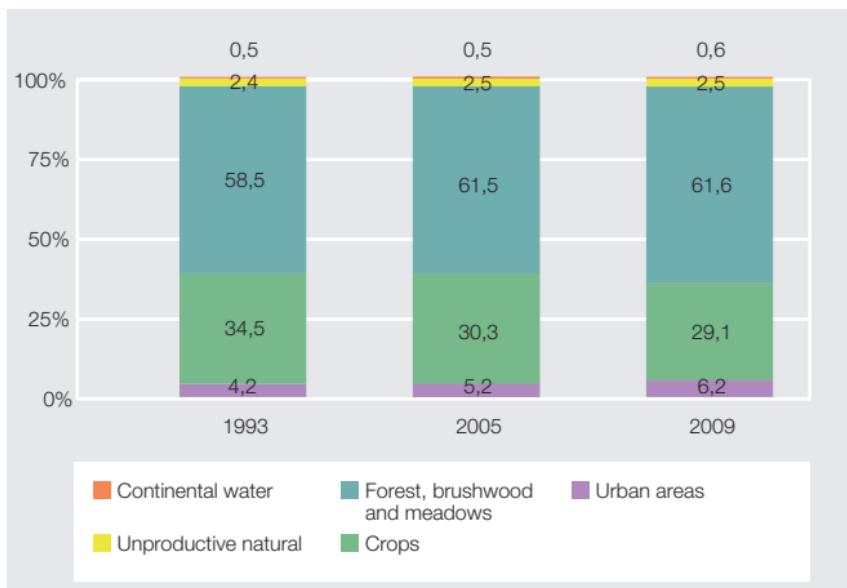
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## 1. Interesting environmental data

### Groups of municipalities according to intervals of population 2012

Intervals (inhabitants)	Municipalities		Població	
	Partial	Accumulated %	Partial	Accumulated %
0-1.000	481	50,8	194.326	2,6
1.001-5.000	256	77,8	595.110	10,4
5.001-10.000	89	87,2	624.508	18,7
10.001-20.000	58	93,3	830.943	29,7
20.001-50.000	40	97,6	1.246.008	46,1
50.001-100.000	13	98,9	931.744	58,4
més de 100.000	10	100,0	3.148.269	100,0
<b>Total</b>	<b>947</b>		<b>7.570.908</b>	

### Land use



Source: Land cover map of Catalonia 1, 3 and 4th edition from Center of Ecological Research and Forestry Applications. The 4th edition of the map has 25 cm of side of the pixel, the 1st edition had 50cm

### Structure of economic activity 2012

Activity sectors	VAB <sup>1</sup>	% of the total	% variation <sup>2</sup>	Employed <sup>3</sup> (thousands)	% of the total	% variation <sup>4</sup>
Agricultura	1.908	1,0	-8	49,7	1,8	-7,9
Indústria i energia	39.999	20,9	-1,1	519,8	18,5	-5,1
Construcció	16.255	8,5	-7,5	169,9	6,0	-21,0
Serveis	133.313	69,6	-0,5	2.072,0	73,7	-4,8
<b>Total</b>	<b>191.475</b>	<b>100,0</b>		<b>2.811,4</b>	<b>100,0</b>	<b>-6,2</b>

Data: Institute of Statistics of Catalonia (IDESCAT) .

<sup>1</sup> Million euros

<sup>2</sup> Referring to the previous year, at constant prices. Estimation

<sup>3</sup> INE. Survey of the active population (Data available in June 2010): The results of this table show the economic activities classified by the new Catalan Classification of economic activities 2009 (CCAE 2009).

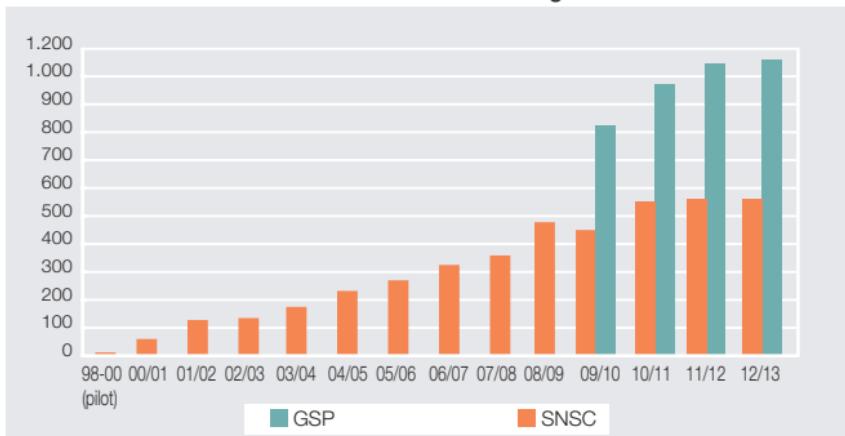
<sup>4</sup> Referring to the previous year

### Evolution of the number of motor vehicles (in thousands of vehicles)

Vehicles	2007	2008	2009	2010	2011	2012
Motorbikes	587,0	623,9	645,5	666,7	685,6	696,8
Cars	3333,0	3370,3	3346,6	3355,7	3368,1	3359,7
Buses, lorries and other	1002,0	1010,6	1001,9	991,6	956,2	968,9
<b>Total</b>	<b>4922,0</b>	<b>5004,8</b>	<b>4994,0</b>	<b>5014,0</b>	<b>5009,9</b>	<b>5025,4</b>
<b>Vehicles/1.000 inh.<sup>(1)</sup></b>	<b>683,0</b>	<b>679,6</b>	<b>664,8</b>	<b>667,4</b>	<b>664,0</b>	<b>663,8</b>

<sup>1</sup> Official population figures in each period.

### Educational establishments in the Green Schools Programme



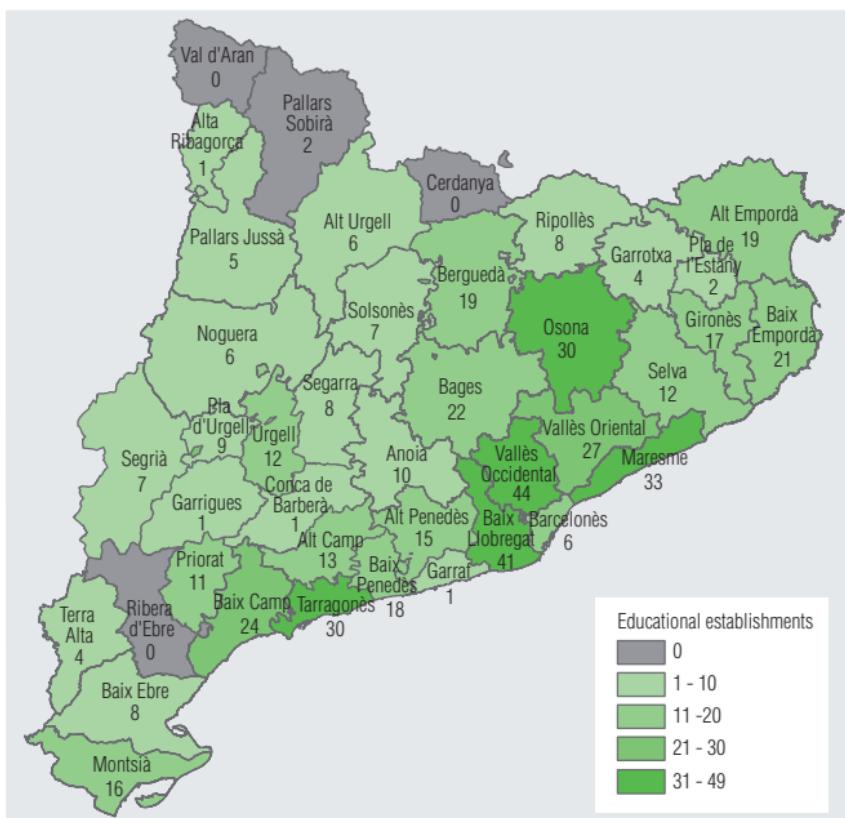
From 2009 the School's net for the sustainability of Catalonia (SNSC) was created.

This net includes Green schools and local nets that promote education programs for the sustainability addressed to the educational centers of Catalonia.

GSP: Green Schools Programme

SNSC: School's Net for the sustainability of Catalonia

### Local distribution of the educational establishments in the Green Schools Programme, 2012/2013



## 2. Water

### Urban wastewater treatment plants 2012

Plant	Number of plants	Treatment capacity		Total capacity in p.e. <sup>1</sup>	
		(m <sup>3</sup> /day)	%	(inh.-e)	%
Biological	396	2.873.744,00	99	15.765.779	99,11
Lagooning	35	26.410,00	1	139.819	0,88
Primary treatments	7	1.605,00	0	925	0,01
UWWTP	<b>438</b>				
Pre-treatments	1				
<b>Total</b>	<b>439</b>	<b>2.901.759</b>	<b>100,00</b>	<b>15.906.523</b>	<b>100,00</b>

<sup>1</sup> p.e.: population equivalent.

<sup>1</sup> Population equivalent is the unit used to determine pollutant load. This concept is included in Directive 91/271/EEC of 21 May 1991 concerning urban waste water treatment.

### Global output of plants in service

	2007	2008	2009	2010	2011	2012
Number of plants in service	335	340	368	389	414	439
Number of plants analysed	330	336	363	378	368	411
Treated flow (m <sup>3</sup> /day) <sup>1</sup>	1.806	1.817	18.751	1.935	1.917	1.771
Global average output of SM elimination (%)	88	90	89	89	95	93
Global average output of BOD <sub>5</sub> elimination (%)	91	92	92	92	95	96
Global average output of COD <sub>5</sub> elimination (%)	84	86	91	91	91	92

<sup>1</sup>In thousands

### Generation, treatment development and destination of sewage sludge

Tons

Sludge generated <sup>1</sup>	2.007	2.008	2.009	2.010	2.011	2.012
El Besòs plant	148.907	60.865	144.951	144.628	136.862	134.495
El Prat plant	57.951	145.232	53.821	55.146	52.831	56.193
Other plants	386.732	378.492	349.451	335.645	347.473	344.648
<b>TOTAL</b>	<b>593.590</b>	<b>584.589</b>	<b>548.223</b>	<b>535.419</b>	<b>537.166</b>	<b>535.335</b>

<sup>1</sup>Dry material

Tons

Sludge treatment	2.007	2.008	2.009	2.010	2.011	2.012
Composting ACA <sup>1</sup>	39.990	42.091	37.464	42.278	39.166	40.057
Composting external	258.136	245.384	219.573	136.248	124.147	115.272
Composting	298.126	287.475	257.037	178.526	163.313	155.329
Thermal Drying	109.624	123.404	146.142	233.053	240.422	226.542
Other treatments*	14.300	14.665	7.108	3.981	12.369	16.674
Digestion without post-treatment	141.609	137.610	124.339	115.193	120.658	136.545
<b>TOTAL</b>	<b>563.659</b>	<b>563.154</b>	<b>534.626</b>	<b>530.753</b>	<b>536.762</b>	<b>535.090</b>

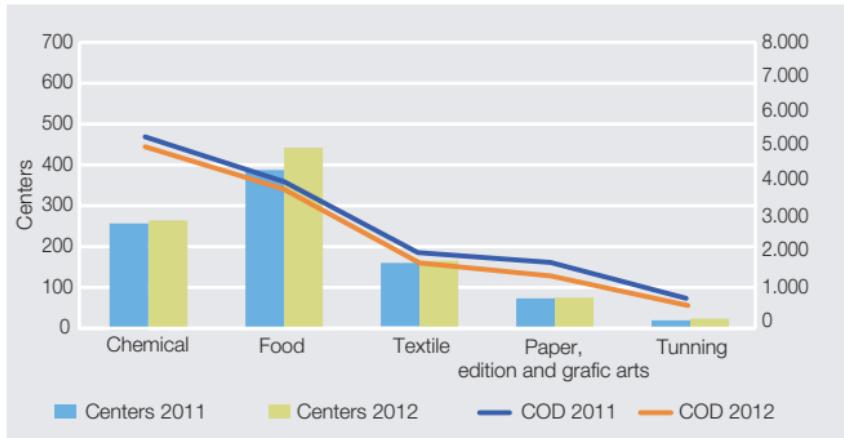
<sup>1</sup>Catalan Water Agency

\*Grey composting, special treatment.

Tons

Sludge disposed of according to destination	2007	2008	2009	2010	2011	2012
Soil application	427.417	421.282	373.037	287.157	267.462	280.849
Quarry restoration	677	215	0	171	3.138	3.853
Controlled deposit	42.834	24.006	10.979	5.609	3.065	10.759
Other	0	164	0	0	0	0
Energy recovery	7.767	15.738	26.823	41.322	58.402	46.658
<b>TOTAL</b>	<b>478.695</b>	<b>461.404</b>	<b>410.839</b>	<b>334.259</b>	<b>332.067</b>	<b>342.118</b>

### Evolution of pollutant load discharged by industrial centres<sup>1</sup>

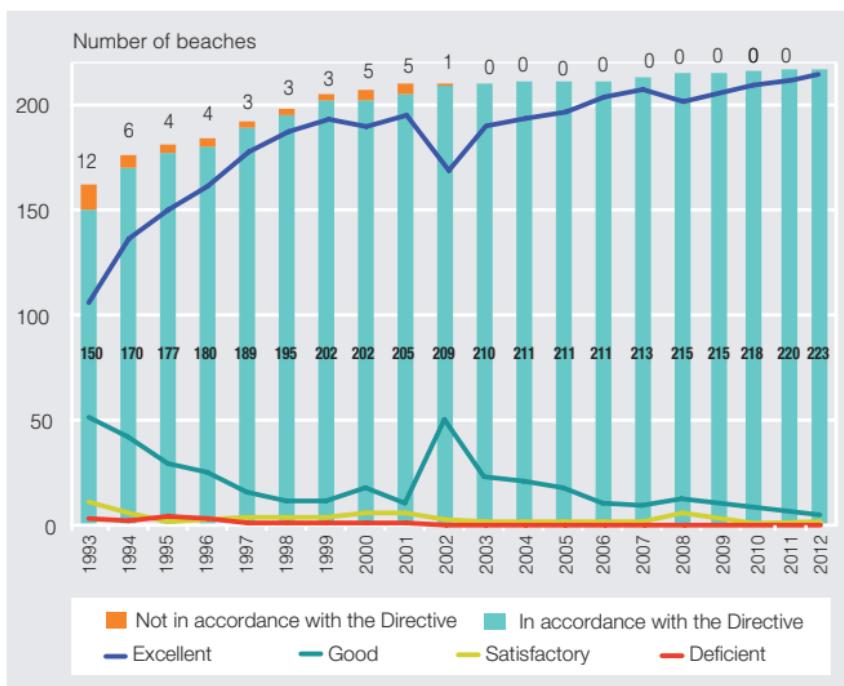


<sup>1</sup> According to the Declaration of use and pollution of water (DUCA): sections B (05.02) and C, D and E of CCAE, it exceeds the parameters indicated in the regulation, if 7.000 m<sup>3</sup>/year are exceeded. In this case, when non-discharged water represents more than 50% of total consumption, systems of treatment should be available in accordance with Decree 103/2000, of 6th March, modified by Decree 47/2005, of 22nd March.

### Water quality and quantity control points

	2007	2008	2009	2010	2011	2012
<b>Water quality and quantity control points</b>	<b>3.054</b>	<b>2.954</b>	<b>4.608</b>	<b>2.638</b>	<b>2.812</b>	<b>1.279</b>
Surface water	598	539	569	542	456	246
Groundwater	1840	1851	3422	1439	1819	691
Groundwater	682	591	648	667	537	342
<b>Quantity control networks</b>	<b>396</b>	<b>427</b>	<b>464</b>	<b>497</b>	<b>487</b>	<b>235</b>
Groundwater	396	427	464	497	487	235

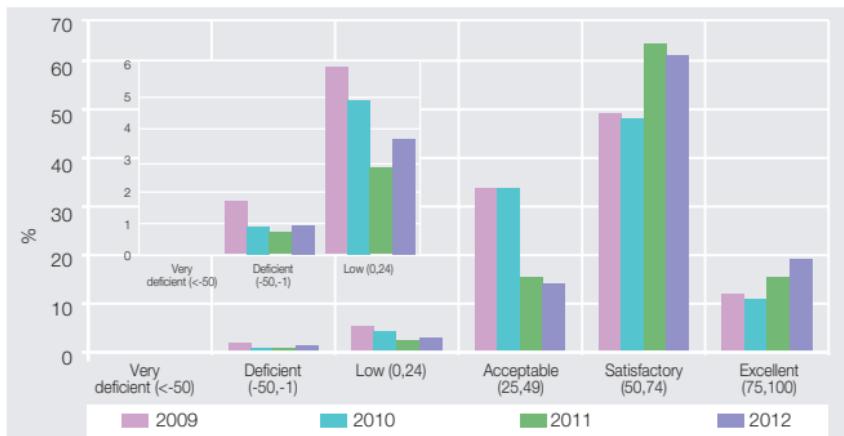
### Degree of compliance with Directive 76/160/EEC<sup>1</sup>



<sup>1</sup> In accordance with the European Directive 2006/7/CE, the category of sufficient has been added from 2008 and the categories of poor and very poor have been changed into insufficient.

### 3. Climate and Atmosphere

#### Distribution of ICQA<sup>1</sup> values according to air quality level



<sup>1</sup> ICQA was calculated using levels of: carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>), ozone (O<sub>3</sub>) and suspended particulate matter PM<sub>10</sub> and PST.

The result is a value for every measuring station and day that they represent the different levels of quality.

<sup>1</sup> Catalan rate air quality

#### Control of ozone immission levels

	2007	2008	2009	2010	2011	2012
Total number of sensors	53	52	58	55	48	49
Stations exceeding population alert threshold <sup>(1)</sup>	0	0	0	0	0	0
Stations exceeding population information threshold <sup>(2)</sup>	9	8	13	17	12	13
Time value exceeding population information threshold (units)	15	14	60	125	34	71
<b>Average level (µg/m<sup>3</sup>) <sup>(3)</sup></b>	<b>48</b>	<b>46</b>	<b>50</b>	<b>54</b>	<b>52</b>	<b>56</b>
<b>Maximum level (µg/m<sup>3</sup>) <sup>(3)</sup></b>	<b>233</b>	<b>219</b>	<b>233</b>	<b>232</b>	<b>218</b>	<b>229</b>

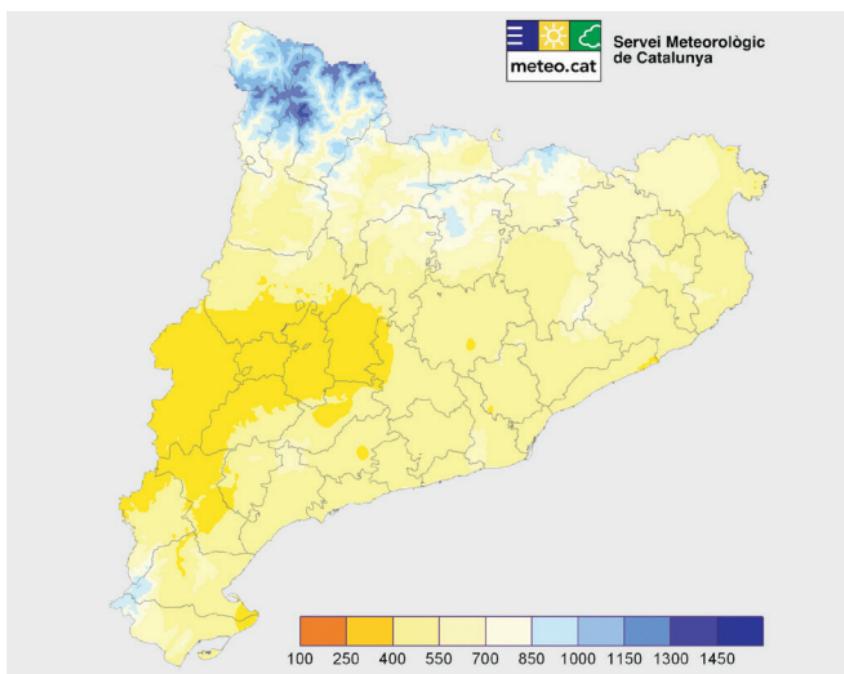
<sup>1</sup> 240 µg/m<sup>3</sup> in one hour (RD 102/2011).

<sup>2</sup> 180 µg/m<sup>3</sup> in one hour (RD 102/2011).

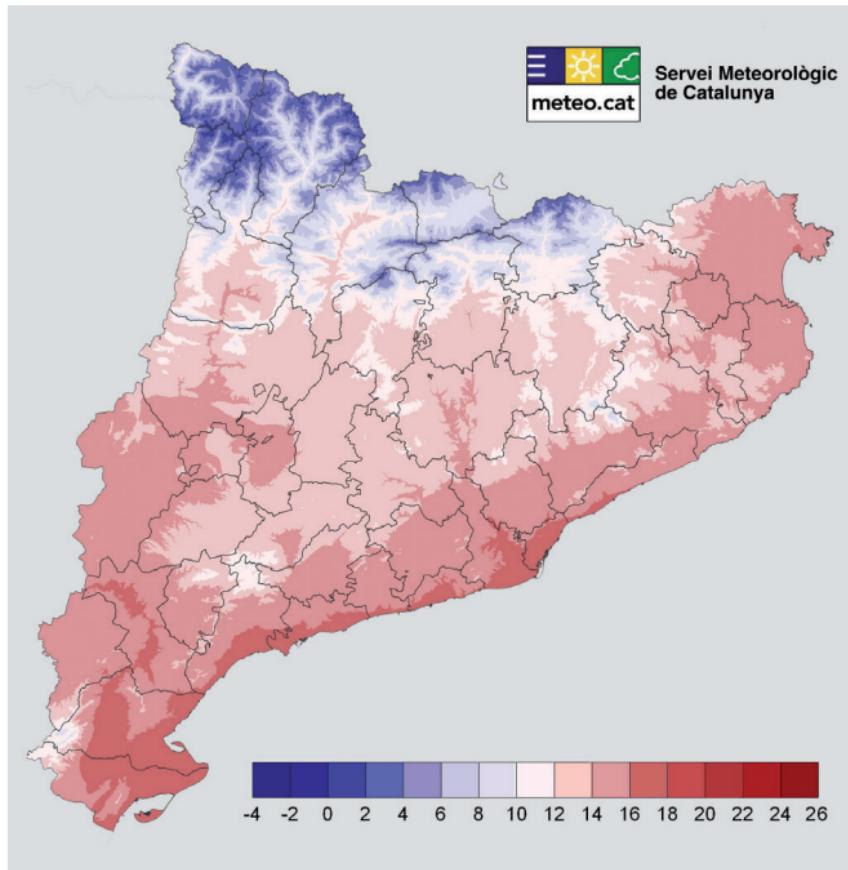
<sup>3</sup> Calculated as the average of the annual averages of all stations (which is taken from the hourly averages)

#### Automatic meteorological stations

#### Annual precipitation in mm. 2012



### Annual medium temperature in °C. 2012



## 4. Biodiversity

### Current situation of Plan for Areas of Natural Interest (PEIN) and Natura 2000 Network

	Number of areas	Situation on 31.12.2012		
		Terrestrial hectares	Marines hectares	Percentage in respect to the total
<b>PEIN</b>	164	987.890	77.893	30,77
<b>NASP<sup>1</sup></b>	86	292.543	5.665	
<b>Natural Park</b>	13	243.205	5.665	
<b>Natural Site of National Interest</b>	7	12.039		
<b>Nature Reserve</b>	6	1.868	20	
<b>National Park</b>	1	13.900		
 <b>NWR</b>	 13	 2.059		
 <b>Natura 2000 network</b>	 8 ecological types <sup>2</sup>	 977.230	 85.141	 30,44 <sup>3</sup>

<sup>1</sup> Including nature wildlife reserves

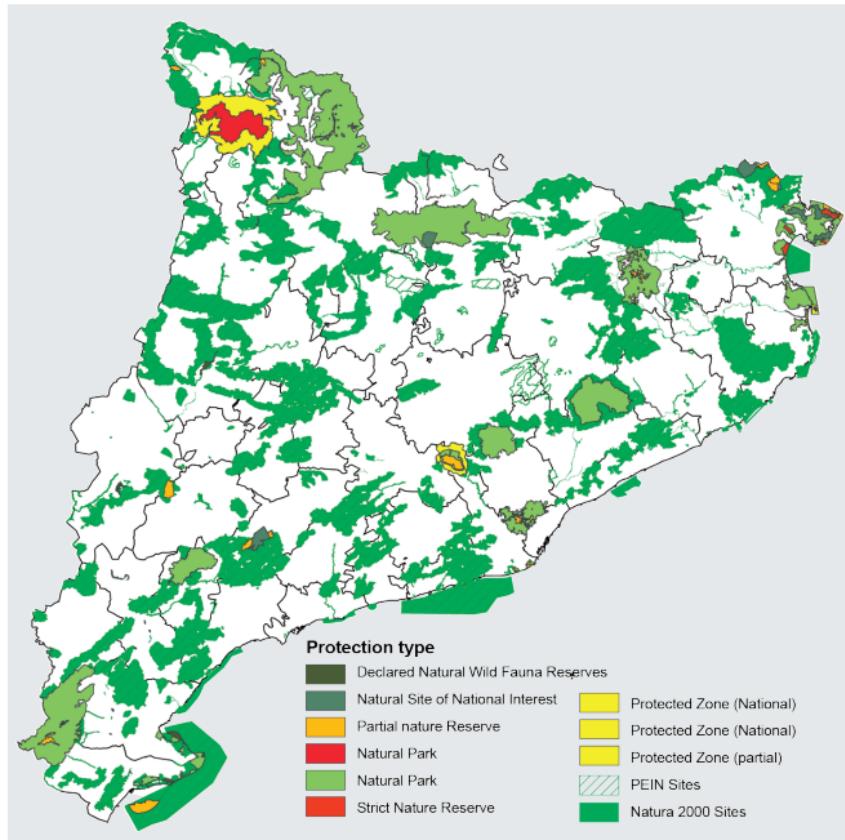
<sup>2</sup> Pyrenean sites – Pre-Pyrenean sites – Agricultural plain – Inland mountain – Inland water – Coastal mountain – Coastal marshes and marine areas.

<sup>3</sup> Total terrestrial.

NASP: Natural Area of Special Protection.

NWR: Declared Nature Wildlife Reserve, pending approval with regard to definitive demarcation.

**Natural areas of special protection. Plan for areas of natural interest (PEIN) and Natura 2000 network**



**Parks of Catalonia 2012**

	Year of creation	Terrestrial hectares	Marine hectares	Observ. (protection areas, etc)	Visitors <sup>2</sup>
<b>National Parks</b>					
Aigüestortes i Estany de Sant Maurici	1955	13900		26.079,24	300.000
<b>Natural Parks</b>					
EEI Cadí-Moixeró	1983	41060			430.000
Zona Volcànica de la Garrotxa	1982	15310			600.000
Aiguamolls de l'Empordà	1983	4731			225.000
Delta de l'Ebre	1983	8445	564,43		731.000
Montserrat	1987	3500		4.261,20	2.107.000
El Montseny	1987	17126			-
Sant Llorenç del Munt i Serra de l'Obac	1987	9410			-
Cap de Creus	1998	10770	3.062,75		440.000
Els Ports	2001	35050			255.000
El Montsant	2002	9242			72.000
L'Alt Pirineu	2003	69850			200.000
Serra de Collserola	2010	8296			-
Montgrí, illes Medes i Baix Ter	2010	6154	2.038		205.000

<sup>1</sup> Some ENPE areas can be included in other protection classifications, such as nature reserves.

<sup>2</sup> Estimated figures.

### Hunting and fishing areas. Season 2011/2012

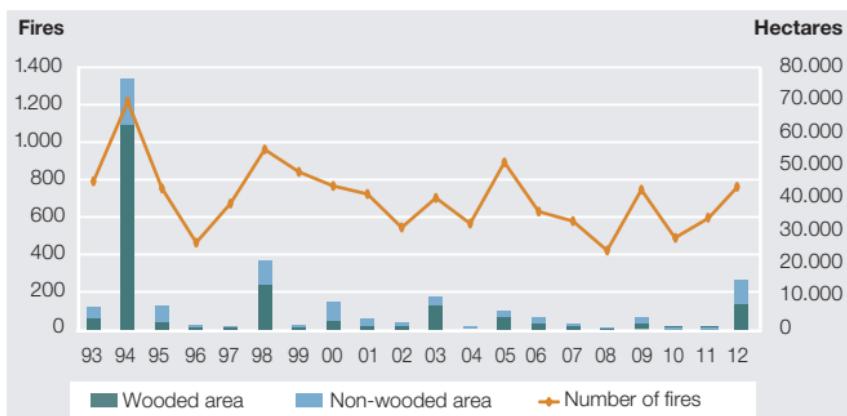
	Number of areas	Area in hectares
<b>Authorised hunting/fishing</b>		
National hunting reserves	7	244.206
Controlled hunting zones	17	88.060
Controlled fishing zones	155	1700.6 i 6.073,5 ha <sup>12</sup>
Free catch-and-release fishing zones	37	2.772,5 km i 1.417,1 ha <sup>2</sup>
<b>Protected areas</b>		
Wildlife preserves	96	12.679,39
Hunting preserves	2	355
Fishing preserves	351 <sup>3</sup>	3.479,7 km

<sup>1</sup> Area in km.

<sup>2</sup> Surface calculated without the Val d'Aran

<sup>3</sup> In the Val d'Aran are fishing preserves not delimited by controlled fishing zones

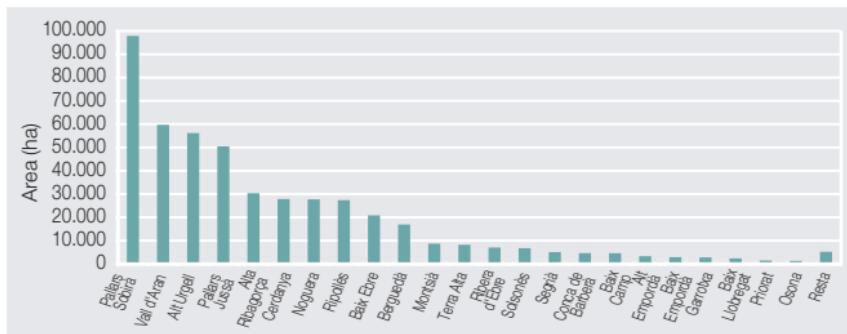
### Evolution of number of fires and affected area



### Evolution of the planning of public forests

	Total number of public forest planned	Total area of public forest planned (ha)	Number of public forests planned per year (ha)	Area of planned public forests per year (ha)
2001	40	32.129,47	23	6.860,27
2002	44	40.864,54	4	8.735,07
2003	73	59.191,73	29	18.327,19
2004	146	106.413,29	73	47.221,56
2005	273	171.301,77	127	64.888,48
2006	305	184.773,16	32	13.471,39
2007	360	221.864,92	55	37.091,76
2008	418	268.152,26	58	46.287,34
2009	487	298.970,06	69	30.817,80
2010	517	316.256,93	30	17.286,87
2011	553	328.686,53	36	12.429,60
2012	584	331.992,77	72	24.772,57

### Area of public forests by counties. Year 2012



**Evolution of the forest planning of private property  
(technical plans PTGMF and simple plans PSGF)**

	PTGMF valid	Area under organisation with PTGMF (hectares) valid	Number of PTGMF approved per year	Area of planned public forests per year (ha)
2000	1.047	164.113,7	171	28.925,1
2001	1.308	205.511,2	273	43.324,9
2002	1.679	259.989,2	377	56.336,6
2003	2.033	309.023,6	364	50.201,5
2004	2.312	348.520,5	312	44.875,7
2005	2.550	379.111,5	308	37.701,0
2006	2.601	389.527,2	203	30.433,9
2007	2.733	405.641,0	242	34.058,5
2008	2.787	413.248,3	150	20.052,4
2009	2.833	419.339,70	207	28.293,3
2010	2.893	424.458,80	173	27.892,7
2011	2.884	424.327,00	148	23.067
<b>2012</b>	<b>2.893</b>	<b>428.407,57</b>	<b>160</b>	<b>24.274</b>
	PSGF valid	Area under organisation with PSGF (hectares) valid	Number of PSGF approved per year	Area under organisation with PSGF (hectares) per year
2004	18	255,1	18	255,1
2005	113	1.322,0	95	1.066,9
2006	180	2.061,6	67	739,6
2007	199	2.323,7	19	262,1
2008	218	2567,03	19	243,3
2009	231	2.761,50	14	218,8
2010	260	3.154,20	29	392,7
2011	290	3.452,00	31	320
<b>2012</b>	<b>331</b>	<b>3.941,40</b>	<b>41</b>	<b>496</b>
<b>Total PTGMF and PSGF 2012</b>	<b>3.224</b>	<b>432.349,0</b>	<b>201</b>	<b>24.770,1</b>

## 5. Climate change

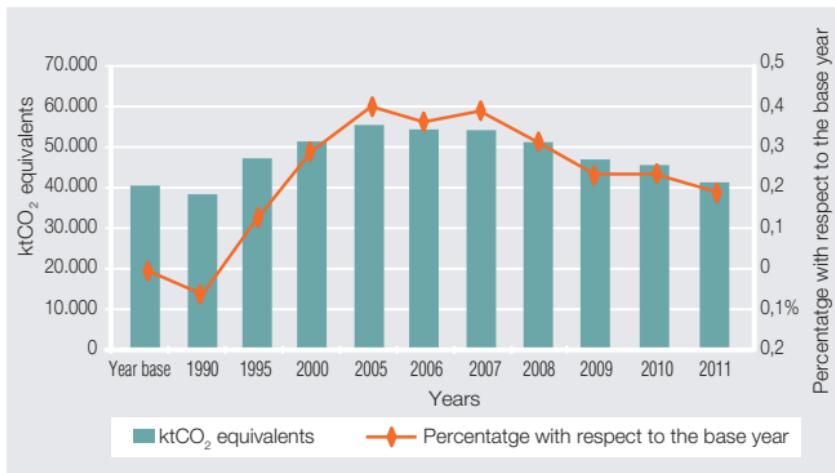
Total greenhouse gas emissions in Catalonia. From the base year to 2011

Sectors	Base year <sup>1</sup>	ktCO <sub>2</sub> equivalents					
		1990	1995	2000	2005	2010	2011
Energy processing	26.574	26.190	31.992	34.904	44.210	37.991	35.259
Industrial processes (non-energy)	7.170	4.924	7.370	9.614	5.861	4.237	3.942
Use of solvents and other products	246	311	380	418	463	497	255
Agriculture	5.042	4.164	4.278	4.764	4.360	4.213	3.949
Waste treatment and disposal	1.300	1.673	2.112	2.568	2.801	3.222	2.511
<b>Total</b>	<b>40.331</b>	<b>37.262</b>	<b>46.132</b>	<b>52.268</b>	<b>57.695</b>	<b>50.159</b>	<b>47.927</b>
Percentage increase compared to the base year	0%	-8%	14%	30%	43%	24%	19%

Emissions data from inventory of 7 IPCC sectors.

<sup>1</sup> Base year emissions: emissions for 1990 in regard to CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O, and emissions for 1995 in regard to HFC, PFC and SF<sub>6</sub>. The base year is the method used to calculate compliance with Kyoto and, therefore, a reference point. The other reference point is the average emissions of gases CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFC, PFC and SF<sub>6</sub> in the Kyoto Protocol compliance period (2008 - 2012). Unlike Spanish inventories, this does not take into account the land-use changes and silviculture sector

Trend of total greenhouse gas emissions in Catalonia



## 6. Quality and environmental evaluation

Number of companies with voluntary systems to protect the environment

System	2006	2007	2008	2009	2010	2011	2012
Ecolabel	11	17	37	51	49	71	61
Emblem of environmental quality guarantee							
Products	1.100	1.144	1.304	1.281	1.416	1.387	959
Services	165	188	220	221	242	233	177
Eco-Management and Audit Scheme (EMAS)	190	206	232	249	255	295	298

### Open cast mining according to its degree of restoration. july 2013

Degree of restoration	Dossier Number	%	Surface areas Hectares	%
Briefed and/or authorized open cast mining when it is not evident that they have pioneered the exploitation	130	5	902	8
Open cast mining in exploitation and with no restoration started	662	26	3.769	33
Open cast mining in exploitation with integrated restoration	395	15	3.386	30
Restored open cast mining in guarantee period	210	8	968	9
Restored open cast mining with a returned deposit (704activities) or of PWR <sup>1</sup> (461activities)	1.165	45	2.323	20
<b>Totals</b>	<b>2.562</b>	<b>100</b>	<b>11.348</b>	<b>100</b>

<sup>1</sup> Public Water Resources.

### Number of declarations of environmental impact issued<sup>1</sup>

Actions	2007	2008	2009	2010	2011	2012
Harbours	0	0	0	1	0	0
Linear infrastructures	23	15	26	18	3	6
Basins	3	7	5	1	1	1
Industrial activities	184	112	120	137	149	118
Soil use transformation	0	5	5	6	3	1
Affecting PEIN areas	5	6	2	14	6	7
<b>Total</b>	<b>215</b>	<b>145</b>	<b>158</b>	<b>177</b>	<b>162</b>	<b>133</b>

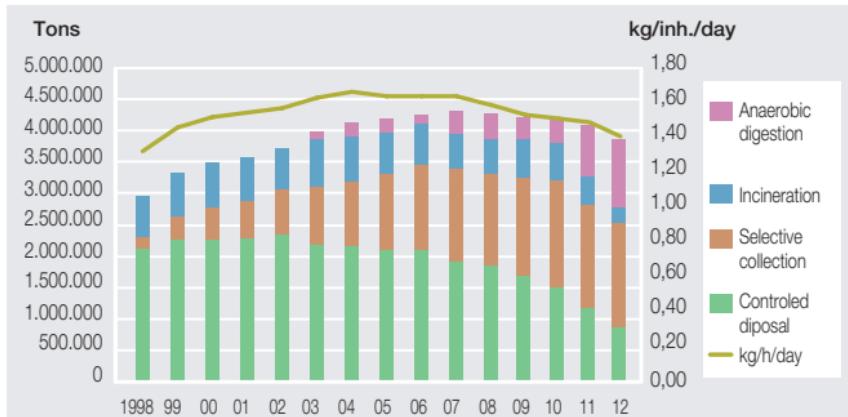
<sup>1</sup>According to the date of the environmental report.

## 7. Waste

### Final destination of municipal waste

Municipal waste production 2012: 3.731.436,92 tons

Production coefficient (kg/h./dia) 2012: 1,35



Municipal waste is waste coming from domestic activities and shops, offices or services, activities whose nature or composition are comparable to domestic waste.

Based on the official population figures published by IDESCAT.

## Selective collection 2012

Waste	Tons collected tons 2012	Tons collected tons 2011	% Total respect of municipal waste	Variation respect 2011
Self composting	5.105,80	-	-	-
Organic matter <sup>1</sup>	384.136,28	411.770,05	10,29%	-6,71%
Pruning-gardening	99.178,02	104.626,19	2,66%	-5,21%
Paper and cardboard	318.020,39	408.541,52	8,52%	-22,16%
Glass	169.116,71	180.740,81	4,53%	-6,43%
Light packaging	135.289,31	137.012,63	3,63%	-1,26%
Large packaging and wood	163.548,78	185.444,83	4,38%	-11,81%
REED <sup>2</sup>	19.996,83	24.897,77	0,54%	-19,68%
Scrap <sup>3</sup>	6.224,32	8.993,52	0,17%	-30,79%
Vegetable oils	1.155,47	1.076,77	0,03%	7,31%
Textil	6.653,85	10.216,64	0,18%	-34,87%
Debris	122.491,81	135.872,23	3,28%	-9,85%
Other specials	1.828,63	1.975,47	0,05%	-7,43%
Other specials collection	25.018,43	30.891,09	0,67%	-19,01%
<b>Total Gross Selective Collection</b>	<b>1.457.764,62</b>	<b>1.642.059,52</b>	<b>38,93%</b>	<b>-11,22%</b>

<sup>1</sup> Population only considered where the selective collection is well-established.

<sup>2</sup> Register of electrical and electronic devices

<sup>3</sup> Hazardous wastes in small quantities (for workshops and small industries)

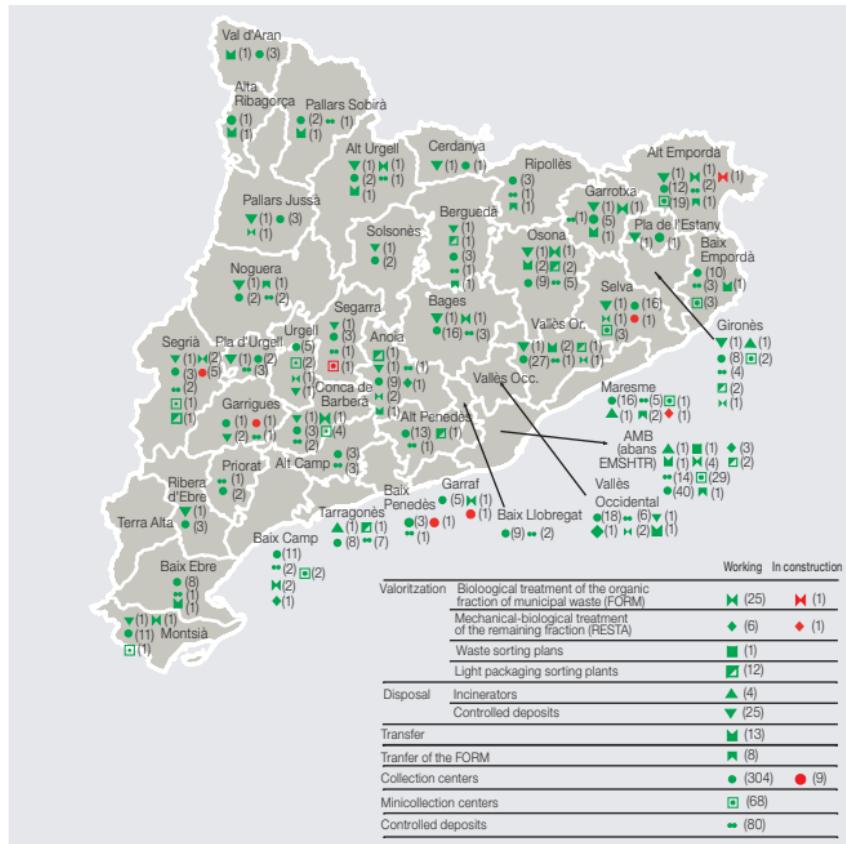
## Industrial waste declaration for industrial activities (CCAE 2009)<sup>1</sup> from declaration 2011

Sub-sector (CCAE 2009)	Hazardous	Non-hazardous	Total	%
Farming, forestry and fishing	49	6.438	6.487	0,17
Extraction Industry	1.225	9.360	10.585	0,27
Food, drink and tobacco	30.141	995.439	1.025.580	26,11
Textiles, footwear and leatherl	3.455	63.631	67.086	1,71
Wood and cork industry, except furniture, basketwork and esparto workshop	976	53.704	54.680	1,39
Paper industry, publishing, graphic arts and reproduction of registered supports	14.282	431.715	445.997	11,36
Manufacture of coke and refined petroleum	2.294	13.365	15.659	0,40
Chemical industries, of manufacture of rubber and plastic products	267.968	387.164	655.132	16,68
Manufacture of other non-metallic mineral products	4.732	216.041	220.773	5,62
Metallurgy, manufacture of basic iron and steel, ferro alloys and metal products	75.702	787.066	862.768	21,97
Manufacture of machinery, computers, electrical, electronics and transportation	25.395	339.036	364.431	9,28
Manufacture of furniture, other manufacturing industries, repair and installation fixing	4.601	35.500	40.101	1,02
PDistribution of electrical energy, gas, steam and air conditioning	6.966	11.937	18.903	0,48
Treatment and decontamination activities	758	12.656	13.414	0,34
Collection activities, treatment and disposal activities, valorization activities	1.135	8.992	10.127	0,26
Construction	3.763	10.967	14.730	0,38
Services (except wholesale scrap and waste products)	18.421	81.121	99.542	2,53
Wholesale scrap and waste products	29	1.330	1.359	0,03
<b>Total*</b>	<b>461.892</b>	<b>3.465.462</b>	<b>3.927.354</b>	<b>100</b>

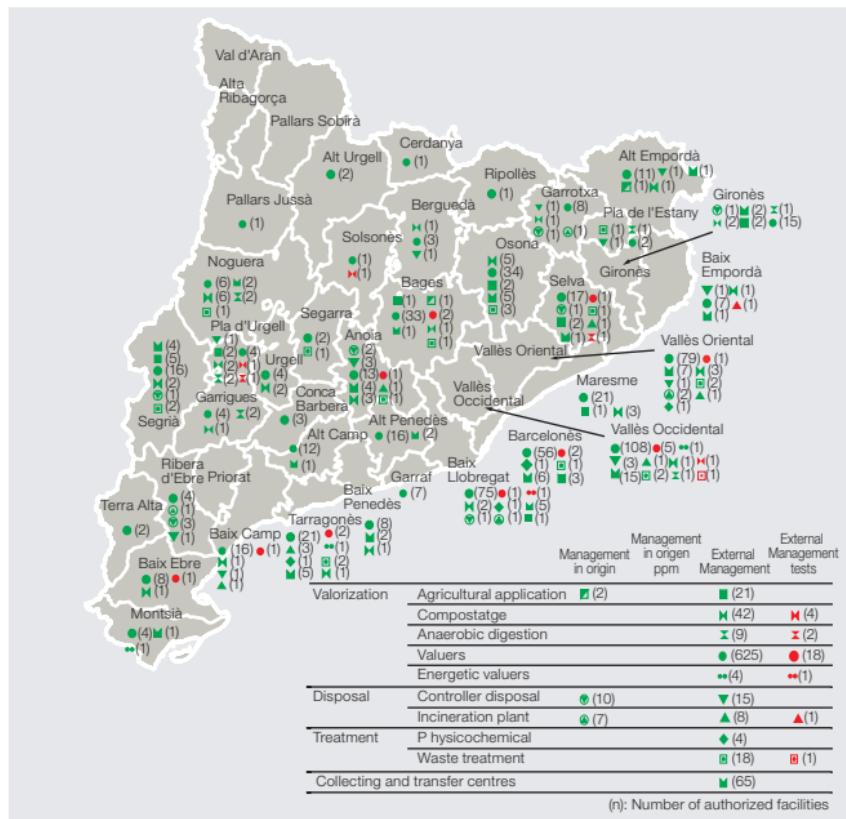
All data is in tons

<sup>1</sup>Catalan Classification of Economic Activities.

**Installations working and in construction for the management of municipal waste in Catalonia. Year 2011**

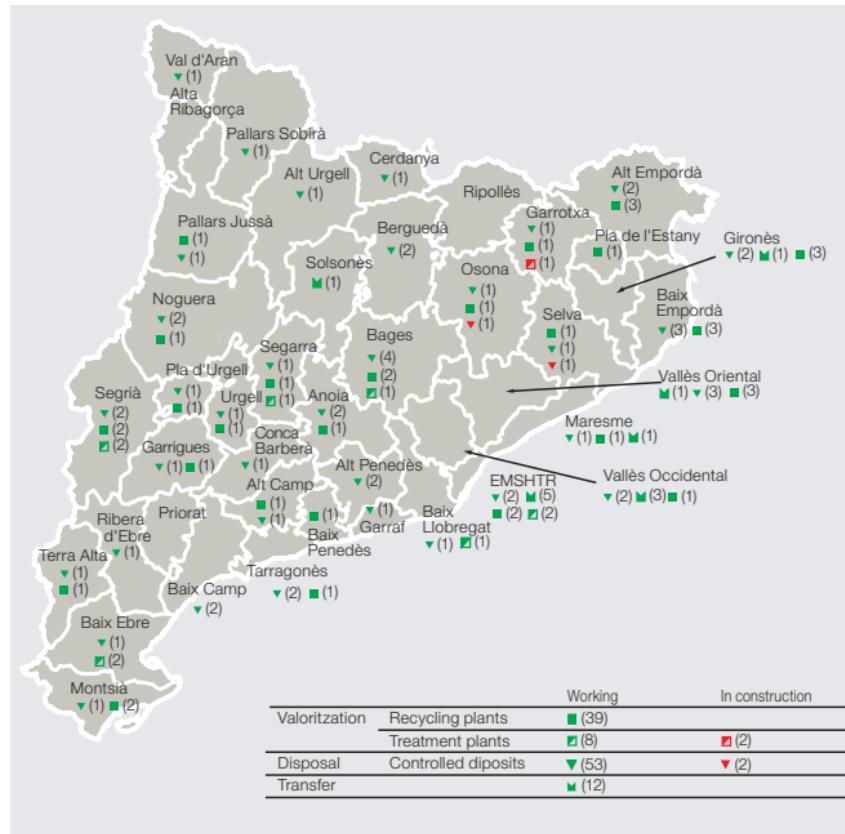


**Installations working and on trial for the management of industrial waste in Catalonia. Year 2011**

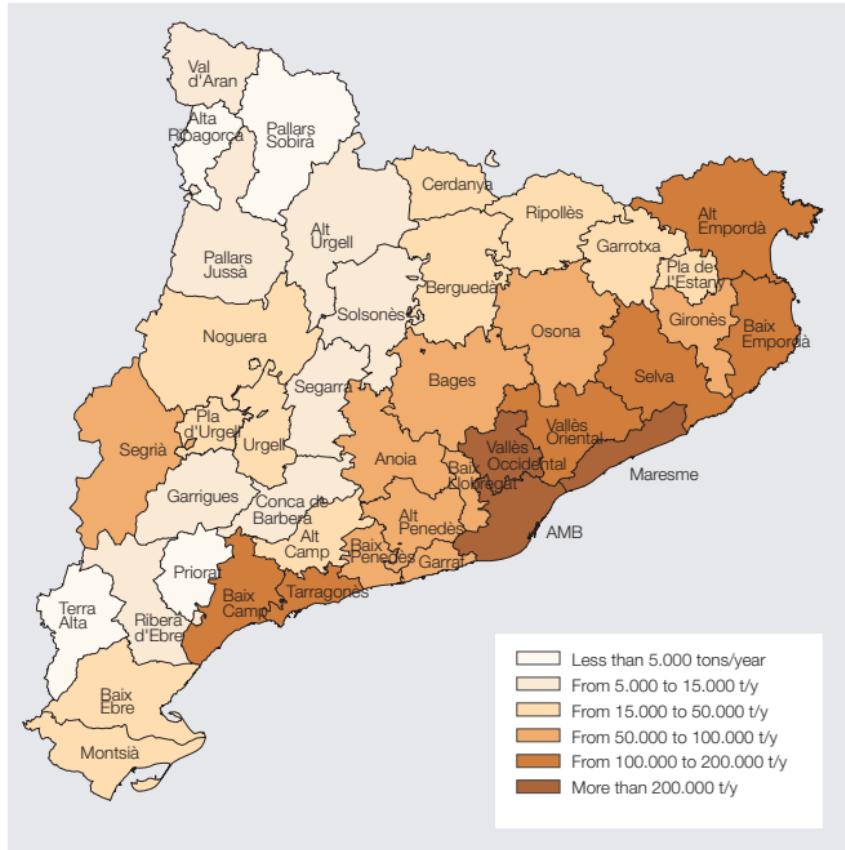


#### **Installations working and on trial for the management of debris in Catalonia.**

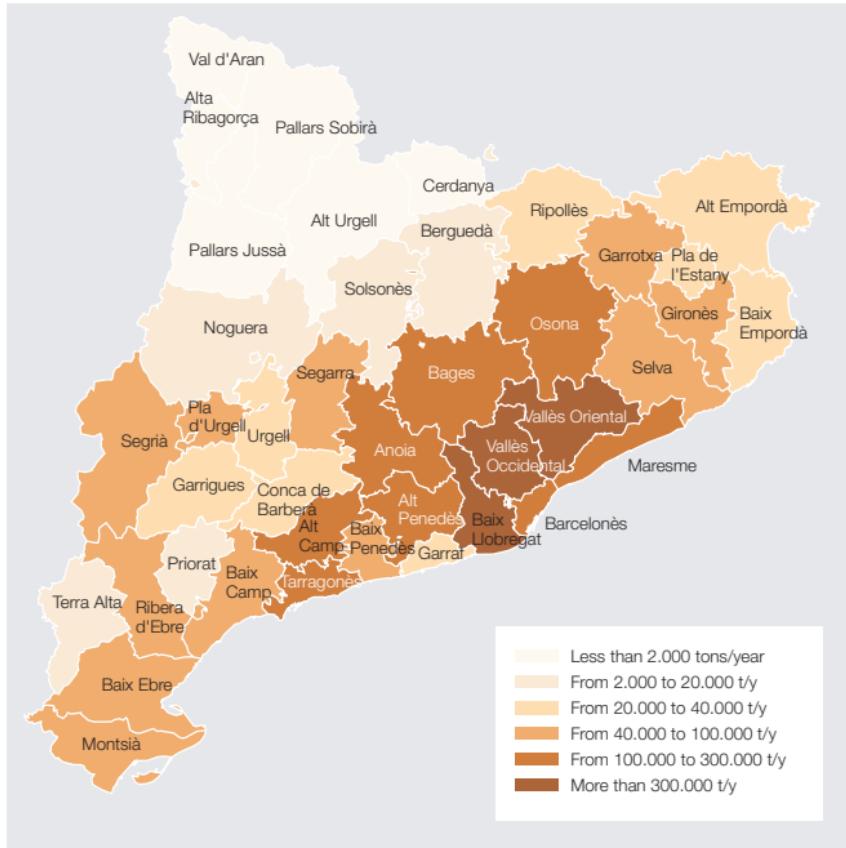
Year 2011



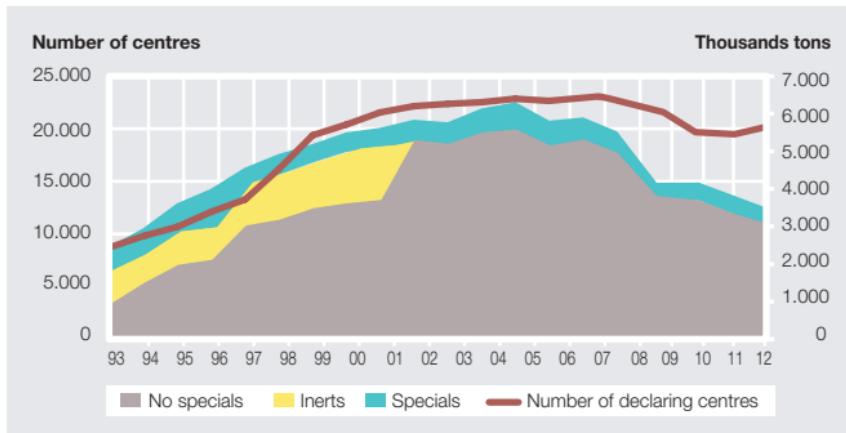
## **Generation of municipal waste by region. Year 2011**



### Industrial waste declared by region. Year 2011



### Evolution of the number of declaring centres and declared industrial waste



Waste of industries and treatment plants is not counted. They are not business agents. With the entry into force of the European Waste Catalogue in 2002, the category inert waste is eliminated (type 210 of waste) and becomes non-hazardous (149) or hazardous in some cases (61).

<b>Treatment of declared industrial waste<sup>1</sup>. Year 2012*</b>			(tons)
<b>Type of treatment</b>	<b>Hazardous</b>	<b>Non-hazardous</b>	<b>Total</b>
Recovery <sup>2</sup>	219.000	2.349.000	2.568.000
Storage	16.000	217.000	233.000
Sub-product	1.000	9.000	10.000
Physicochemical-biological plant	69.000	38.000	107.000
Controlled disposal	44.000	560.000	604.000
Incineration	63.000	6.000	69.000
Insufficient management	1.000	2.000	3.000
No specified management	1.000	6.000	7.000
<b>Total*</b>	<b>414.000</b>	<b>3.187.000</b>	<b>3.601.000</b>

<sup>1</sup> Industries and wastewater treatment plants

<sup>2</sup> Includes recovery in origin, external, sub-product and energy

\* Data may have slight variances due to rounding of decimal calculation

