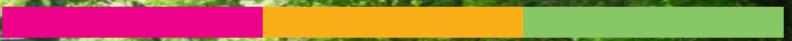
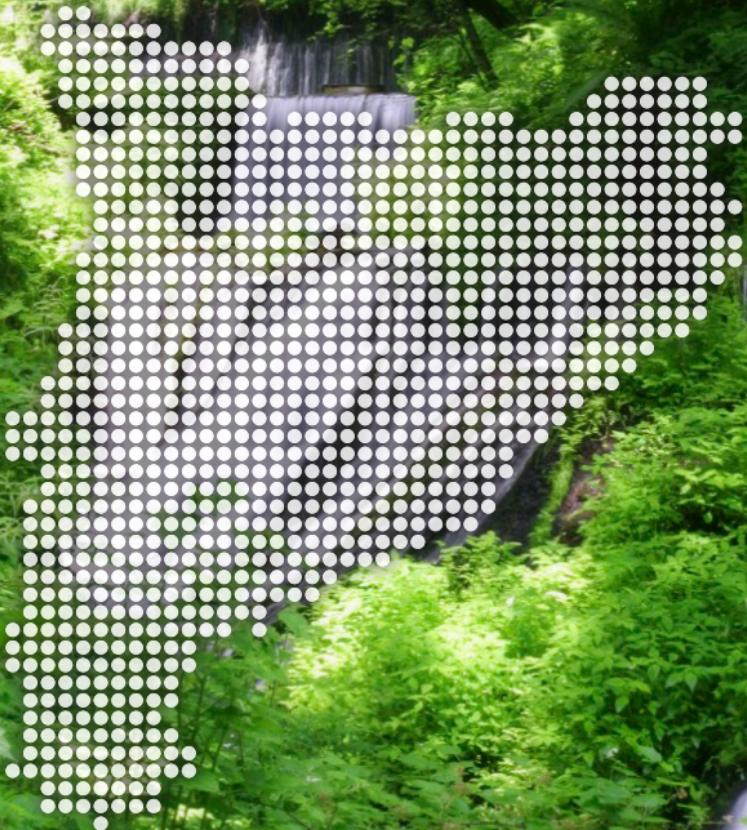


# Data of the environment in Catalonia



2012



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

# Data of the environment in Catalonia



## 2012

### 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:

Subdirectorat-General for Information and Environment Education

Environmental Information Service

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## 1. Interesting environmental data

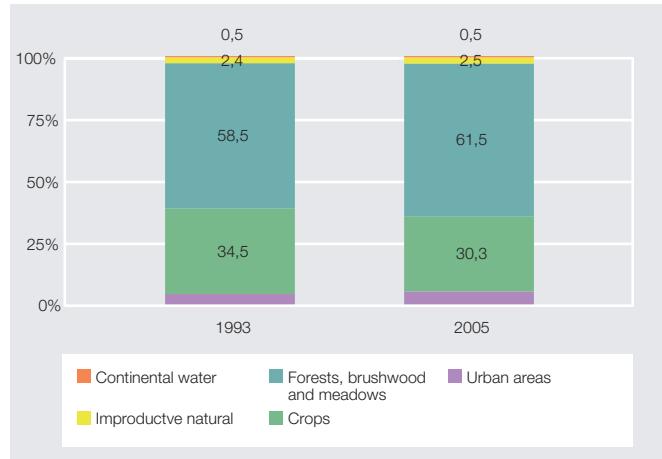
### Groups of municipalities according to intervals of population 2011

Intervals (inhabitants)	Municipalities		Population	
	Partial	Accumulated %	Partial	Accumulated %
0 - 1.000	479	50,6	192.346	2,6
1.001 - 5.000	259	77,9	599.147	10,5
5.001 - 10.000	88	87,2	615.146	18,7
10.001 - 20.000	58	93,2	827.457	29,6
20.001 - 50.000	40	97,6	1.238.537	46,1
50.001 - 100.000	13	98,9	929.666	58,4
més de 100.000	10	100,0	3.136.619	100,0
<b>Total</b>	<b>947</b>		<b>7.539.618</b>	

### Geographical distribution of population 2011

Municipalities	Municipalities	Population (inh)	Area (km <sup>2</sup> )	Density (inh/km <sup>2</sup> )
Mountain	465	332.755	14.540,0	23
Coast	71	3.242.011	2.120,2	1.531
Rest of municipalities	411	3.960.852	15.255,0	260
<b>Total</b>	<b>947</b>	<b>7.539.618</b>	<b>31.915,0</b>	<b>236</b>

### Land use



Source: Land cover map 3rd edition

### Structure of economic activity 2011

Activity sectors	VAB pm <sup>1</sup>	% off the total	% variation <sup>2</sup>	Employed <sup>3</sup> (thousands)	% off the total	% variation <sup>4</sup>
Agriculture	1.840,0	0,9	1,1	60,8	1,9	-11,5
Industry	39.361,0	20,3	1,7	560,9	18,7	-6,1
Construction	20.516,0	10,6	-4,7	221,8	6,9	-15,1
Services	132.169,0	68,2	1,3	2.163,3	72,5	1,3
<b>Total</b>	<b>193.886</b>	<b>100,0</b>		<b>3.006,8</b>	<b>100,0</b>	<b>-1,8</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

(thousands of vehicles)

Vehicles	2006	2007	2008	2009	2010	2011
Motorbikes	536	587	624	645,5	666,7	686
Cars	3.243	3.333	3.370	3.346,6	3.355,7	3.368
Buses, lorries and other	953	1002	1011	1001,9	991,6	956
<b>Total</b>	<b>4.732</b>	<b>4.922</b>	<b>5.005</b>	<b>4.994</b>	<b>5.014</b>	<b>5.010</b>
<b>Vehicles/1.000 inh.<sup>(1)</sup></b>	<b>663</b>	<b>683</b>	<b>5.384</b>	<b>665</b>	<b>667</b>	<b>664</b>

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

### Educational establishments in the Green Schools Programme



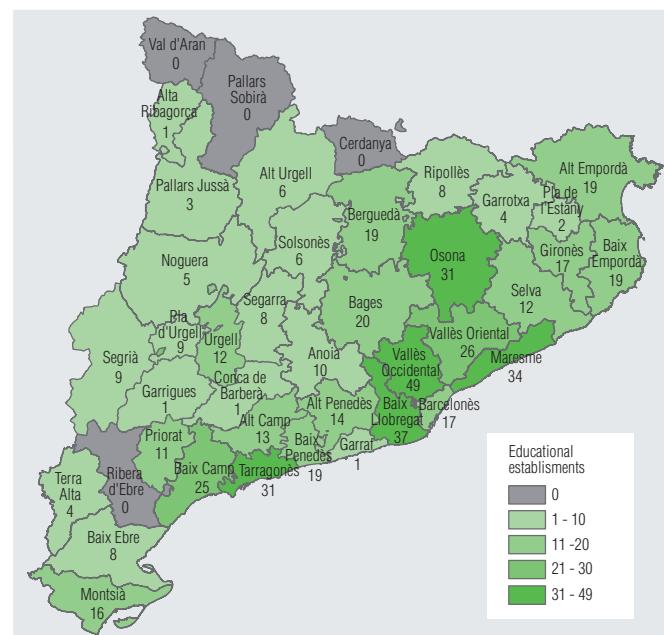
From 2009 the School's net for the sustainability of Catalonia (SNSC) was created.

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, 2011/2012



## 2. Water

### Urban wastewater treatment plants 2011

Plant	Number of plants	Treatment capacity		Total capacity in p.e. <sup>1</sup>	
		(m <sup>3</sup> /day)	%	(inh.-e)	%
Biological	372	2.799.424	97,62	15.208.600	98,06
Lagooning	26	26.530	0,93	135.099	0,87
Primary treatments	16	1.605	0,06	625	0,00
UWWTP	<b>414</b>	<b>2.827.559</b>	<b>98,61</b>	<b>15.343.699</b>	<b>98,93</b>
Pre-treatments	2	40.000	1,40	166.666	1,07
<b>Total</b>	<b>416</b>	<b>2.867.559</b>	<b>100,00</b>	<b>15.510.990</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

	2006	2007	2008	2009	2010	2011
Number of plants in service	330	335	340	368	389	414
Number of plants analysed	326	330	336	363	378	368
Treated flow (m <sup>3</sup> /day) <sup>1</sup>	1.879	1.805	1.816	1.850	1.935	1.917
Global average output of SM elimination (%)	87	88	90	89	89	95
Global average output of BOD <sub>5</sub> elimination (%)	90	91	92	92	92	95
Global average output of COD <sub>5</sub> elimination (%)	83	84	86	91	91	91

<sup>1</sup>In thousands

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

Sludge generated <sup>1</sup>	2006	2007	2008	2009	2010	2011
EI Besòs plant	42.759	47.847	46.560	46.001	44.003	41.657
EI Prat plant	13.319	14.485	14.955	13.323	13.478	12.378
Other plants	78.647	79.032	77.782	71.573	70.374	69.720
<b>TOTAL</b>	<b>134.725</b>	<b>141.364</b>	<b>139.297</b>	<b>130.897</b>	<b>127.855</b>	<b>123.755</b>

<sup>1</sup>Dry material

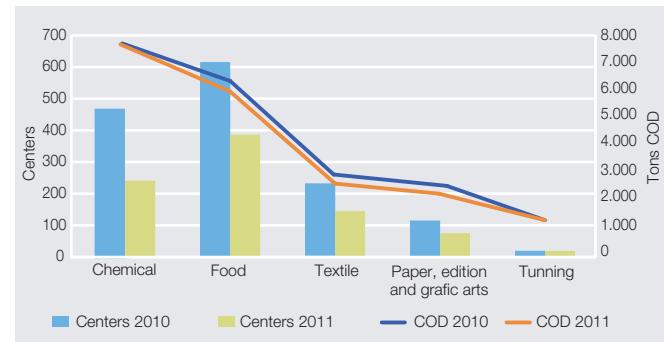
Sludge treatment	2006	2007	2008	2009	2010	2011
Composting ACA <sup>1</sup>	6.798	7.965	8.247	7.312	7.981	7.127
Composting external	41.011	68.691	65.495	56.375	29.473	25.068
Composting	47.809	76.656	73.742	63.686	37.453	32.195
Thermal drying	50.480	26.553	29.374	37.207	63.372	64.339
Other treatments*	-	2.503	3.694	1.859	1.010	694
Digestion without post-treatment	31.700	33.759	31.751	27.851	25.817	26.401
<b>TOTAL</b>	<b>177.798</b>	<b>216.127</b>	<b>212.303</b>	<b>194.290</b>	<b>165.106</b>	<b>155.824</b>

<sup>1</sup>Catalan Water Agency

\*Grey composting, special treatment.

Sludge disposed of according to destination	2006	2007	2008	2009	2010	2011
Soil application	93.366	114.096	113.163	100.461	82.554	62.724
Quarry restoration	125	149	43	0	38	628
Controlled deposit	22.293	16.136	9.354	2.643	1.227	738
Other	0	0	0	0	0	0
Energy recovery	8.806	6.870	14.215	24.619	37.869	53.655
<b>TOTAL</b>	<b>124.590</b>	<b>137.251</b>	<b>136.775</b>	<b>127.723</b>	<b>121.688</b>	<b>117.745</b>

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

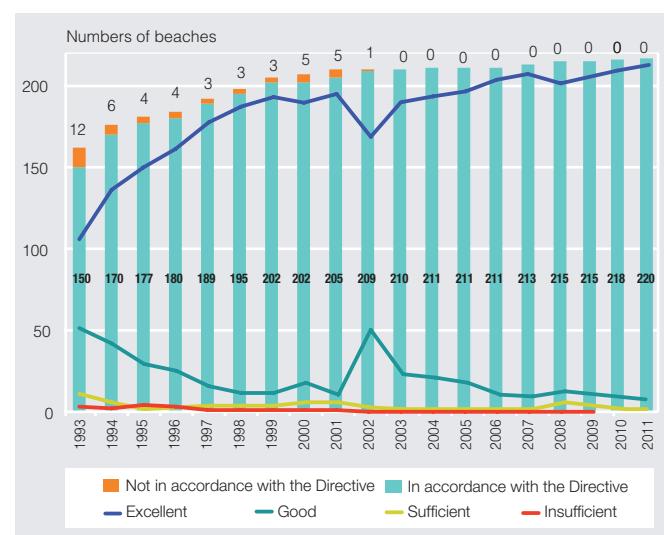


<sup>1</sup> According to the Declaration of use and pollution of water (DUCA): sections B (05.02) and C, D and E of CCAE, it exceeds the parameters indicated in the regulation, if 7.000 m<sup>3</sup>/year are exceeded. In this case, when non-discharged water represents more than 50% of total consumption, 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

Quality control networks	2006	2007	2008	2009	2010	2011
Surface water	225	532	512	538	532	3.056
Groundwater	1.567	1.840	1.851	3.422	1.439	2.255
Marine water	4.481	4.733	4.165	4.685	5.126	2.220
Quantity control networks	2006	2007	2008	2009	2010	2011
Groundwater	370	396	427	464	497	487
Surface water	-	-	-	-	-	-

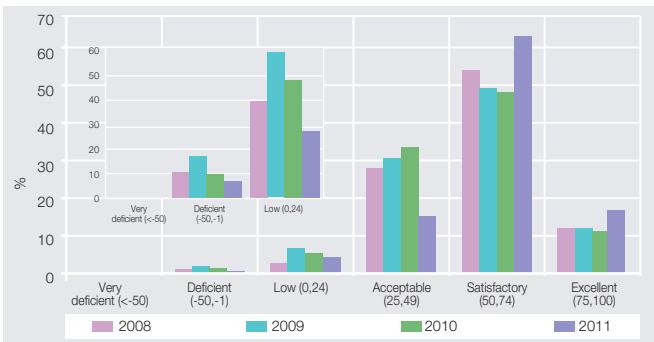
### Degree of compliance with Directive 2006/7/EC<sup>1</sup>



<sup>1</sup> In accordance with the European Directive 2006/7/EC, 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 PM10 and PST..

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

#### Control of ozone immission levels

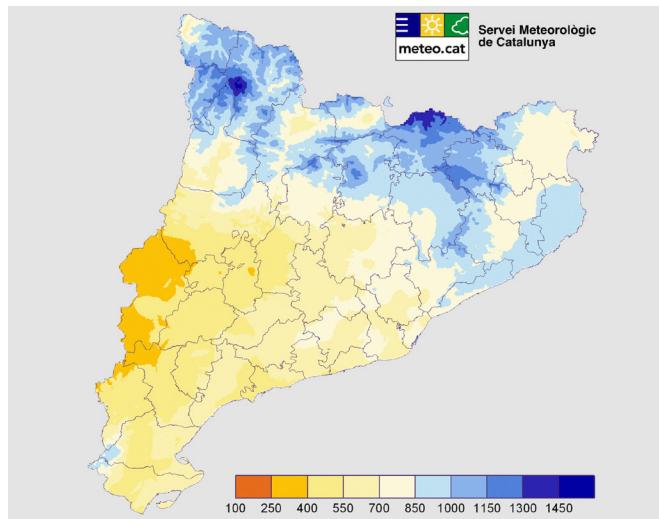
	2005	2006	2007	2008	2009	2010	2011
Total number of sensors	47	50	53	52	58	55	48
Stations exceeding population alert threshold <sup>1</sup>	1	1	0	0	0	0	0
Stations exceeding population information threshold <sup>2</sup>	20	20	9	8	13	17	12
Time value exceeding population information threshold (units)	111	110	15	14	60	125	34
<b>Average level (mg/m<sup>3</sup>)<sup>(3)</sup></b>	<b>61</b>	<b>47</b>	<b>48</b>	<b>46</b>	<b>50</b>	<b>54</b>	<b>52</b>
<b>Maximum level (mg/m<sup>3</sup>)<sup>(3)</sup></b>	<b>246</b>	<b>250</b>	<b>233</b>	<b>219</b>	<b>233</b>	<b>232</b>	<b>218</b>

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

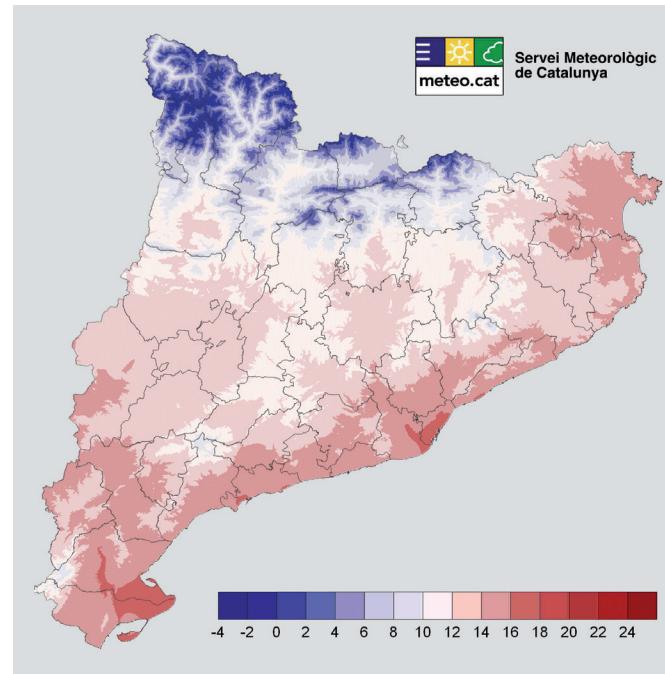
<sup>2</sup> 180 mg/m<sup>3</sup> in one hour (RD 102/2011).

<sup>3</sup> Calculated as the average of annual averages given for all the stations (which were obtained from the hourly averages)

#### Automatic meteorological stations. Annual precipitation in mm. 2011



#### Annual medium temperature in °C. 2011



### 4. Biodiversity

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

	Situation on 31.12.2011		
	Number of areas	Terrestrial hectares	Marine hectares
<b>PEIN</b>	164	987.898	77.893
<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>	977.224	85.141
			30,44 <sup>3</sup>

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

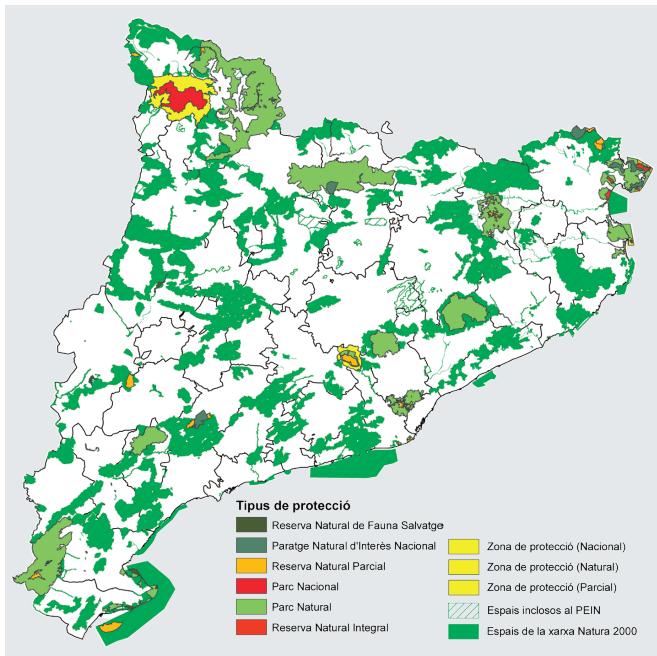
<sup>2</sup> Pyrenean sites – Pre-Pyrenean sites – Agricultural plain – Inland mountain – Inland water – Coastal mountain – Coastal marshes and marine areas.

<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<sup>1</sup>**



<sup>1</sup> All the PEIN areas are included into Natura 2000 network

**Parks of Catalonia**

	Year of creation	Terrestrial hectares <sup>1</sup>	Marine hectares	Observ. (protection areas, etc.)	Visitors <sup>2</sup>
<b>Nacional Parks</b>					
Aiguëstortes i Estany de Sant Maurici	1955	13.900		26.079,24	295.000
<b>Natural Parks</b>					
El Cadi-Moixeró	1983	41.060			430.000
Zona Volcànica de la Garrotxa	1982	15.310			600.000
Aiguamolls de l'Empordà	1983	4.731			184.000
Delta de l'Ebre	1983	8.445	564,43		860.000
Montserrat	1987	3.500		4.261,20	2.107.000
El Montseny	1987	17.126			-
Sant Llorenç del Munt i Serra de l'Obac	1987	9.410			-
Cap de Creus	1998	10.770	3.062,75		440.000
Els Ports	2001	35.050			256.000
El Montsant	2002	9.242			72.000
L'Alt Pirineu	2003	69.850			200.000
Serra de Collserola	2010	8.296			-
Montgrí, illes Medes i Baix Ter	2010	6.154	2.038		-

<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**

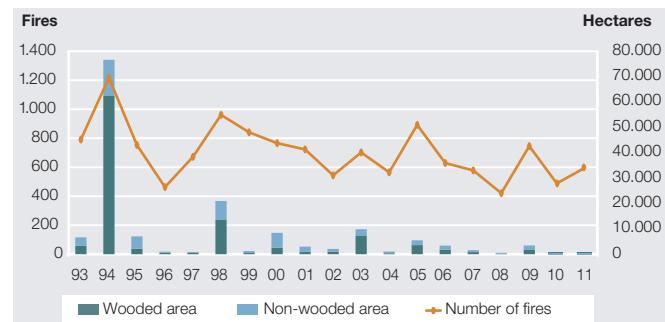
	Number of areas	Area in hectares
<b>Authorised hunting/fishing</b>		
National hunting reserves	7	244.206
Controlled hunting zones	16	88.060
Controlled fishing zones	270	2018 <sup>1,2</sup>
Free catch-and-release fishing zones	37	130 <sup>2</sup>
<b>Protected areas</b>		
Wildlife preserves	88	12.235,04
Hunting preserves	2	355
Fishing preserves	269 <sup>3</sup>	1240

<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

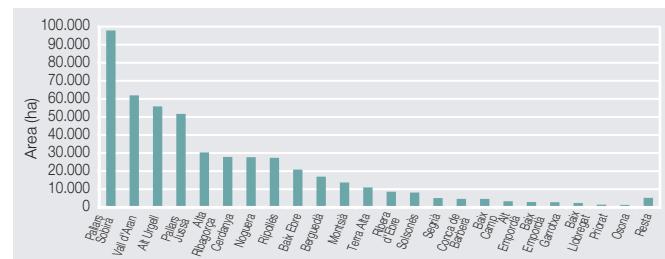
**Evolution of number of fires and affected area**



**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)
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
<b>2011</b>	<b>553</b>	<b>328.686,53</b>	<b>36</b>	<b>12.429,60</b>

**Area of public forests by counties. Year 2011**



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

Year	PTGMF valid	Area under organisation with PTGMF (hectares) valid	Number of PTGMF approved per year	Area under organisation with PTGMF (hectares) per year
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
<b>2011</b>	<b>2.884</b>	<b>424.327,80</b>	<b>148</b>	<b>23.067,0</b>

Year	PTGMF valid	Area under organisation with PTGMF (hectares) valid	Number of PTGMF approved per year	Area under organisation with PTGMF (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
<b>2011</b>	<b>290</b>	<b>3.452,00</b>	<b>31</b>	<b>320,0</b>
<b>Total PTGMF and PSGF 2011</b>	<b>3.174</b>	<b>427.779,00</b>	<b>179</b>	<b>23.387,0</b>

## 5. Climate change

### Total greenhouse gas emissions in Catalonia. From the base year to 2010

Sectors	Base year <sup>1</sup>	1990	1995	2000	2005	2010	ktCO <sub>2</sub> equivalents <sup>2</sup>
Energy processing	26574,4	26190,0	31992,0	34904,0	44.210	37.991	
Industrial processes (non-energy)	7169,7	4924,0	7370,0	9614,0	5.861	4.237	
Use of solvents and other products	245,7	311,0	380,0	418,0	463	497	
Agriculture	5041,7	4164,0	4278,0	4764,0	4.360	4.213	
Waste treatment and disposal	1299,6	1673,0	2112,0	2568,0	2.801	3.222	
<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>	
Percentage increase compares to base year	0%	-8%	14%	30%	43%	24%	

Emissions data from inventory of 7 IPCC sectors.

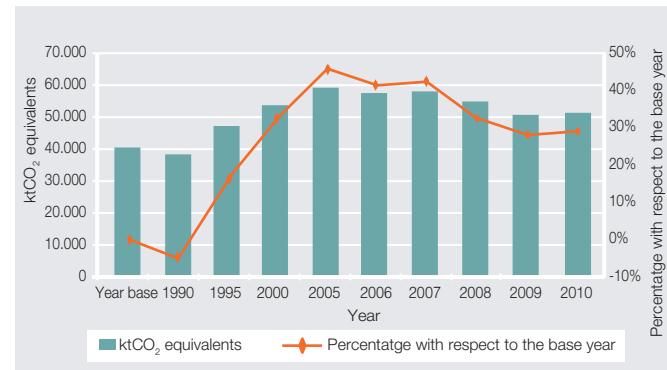
<sup>1</sup> Base year emissions: emissions for 1990 in regard to CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and emissions for 1995 in regard to HFC, PFC and SF<sub>6</sub>.

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 i 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

<sup>2</sup>KtCO<sub>2</sub> eq= thousands of tons

### 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
Ecolabel	11	17	37	51	49	71
Emblem of environmental quality guarantee						
Products	1.100	1.144	1.304	1.281	1.416	1.387
Services	165	188	220	221	242	233
Eco-Management and Audit Scheme (EMAS)	190	206	232	249	268	295

### Open cast mining according to its degree of restoration. February 2012\*

Degree of restoration	Dossier Number		Surface areas Hectares %	
	Number	%	Hectares	%
Briefed and/or authorized open cast mining when it is not evident that they have pioneered the exploitation	370	13	667	6
Open cast mining in exploitation and with no restoration started	831	28	3342	31
Open cast mining in exploitation with integrated restoration	337	11,4	3258	31
Restored open cast mining in guarantee period	258	9	973	9
Restored open cast mining with a returned deposit (467 activities) or of PWR(1) (459 activities)	1161	39	2371	22
<b>Totals</b>	<b>2.957</b>	<b>100</b>	<b>10.611</b>	<b>100</b>

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

<sup>2</sup> Updated in February 2012.

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

Actions	2006	2007	2008	2009	2010	2011
Harbours	0	0	0	0	1	0
Linear infrastructures	9	23	15	26	18	3
Basins	1	3	7	5	1	1
Industrial activities	133	184	112	120	137	149
Soil use transformation	3	0	5	5	6	3
Affecting PEIN areas	9	5	6	2	14	6
<b>Total</b>	<b>155</b>	<b>215</b>	<b>145</b>	<b>158</b>	<b>177</b>	<b>162</b>

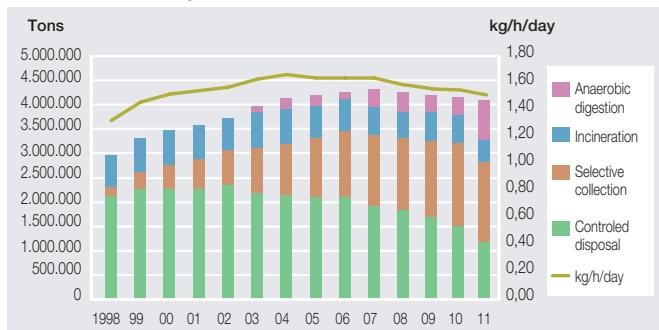
<sup>1</sup> According to the date of the environmental report.

## 7. Waste

### Final destination of municipal waste

Municipal waste production 2011: 4.066.063 tons

Production coefficient (kg/h./dia) 2011: 1,48



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 2011

Waste	Tons collected	Generation coefficient (kg/inh./yr) <sup>1</sup>
Glass	180.831,44	24,0
Paper and cardboard	408.709,00	54,2
Light packaging	137.109,00	18,2
Organic matter <sup>2</sup>	411.757,00	54,6
Batteries	598,52	0,1
Medicines	715,32	0,1
Large packaging	185.840,09	24,6
Pruning-gardening	105.624,99	14,0
Textil	10.216,63	1,4
Collection centres <sup>3</sup>	39.603,84	5,3
Debris	136.206,70	18,1
REED <sup>4</sup>	44.905,67	6,0
Other specials	1.956,89	0,3
<b>Total selective collection</b>	<b>1.664.075,00</b>	

<sup>1</sup> Official population in 2010 published by IDESCAT.

<sup>2</sup> Population only considered where the selective collection is well-established.

<sup>3</sup> Except glass, paper, large packaging, pruning and gardening and batteries collected in a collection centre.

<sup>4</sup> Register of electrical and electronic devices

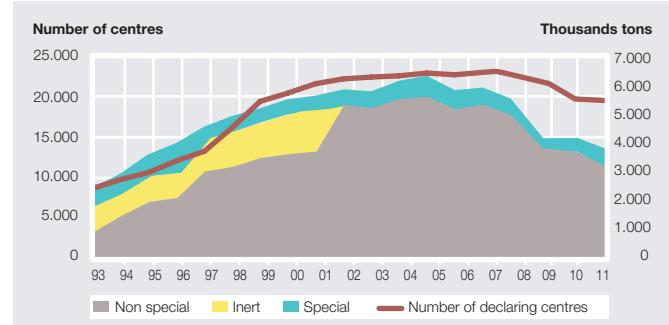
### Industrial waste declaration for industrial activities (CCAE 2009)<sup>1</sup> from declaration 2010

Sub-sector (CCAE 2009)	Hazardous	Non Hazardous	Total	%
Agriculture, livestock, forestry and fishing	24,0	7.376,0	7.401,0	0,2
Extraction Industry	1.214,0	14.774,0	15.989,0	0,4
Food, drink and tobacco	26.099,0	1.122.589,0	1.148.687,0	27,8
Textiles, footwear and leather	3.918,0	70.541,0	74.459,0	1,8
Wood and cork industry, except furniture, basketwork and esparto workshop	3.738,0	54.880,0	58.618,0	1,4
Paper industry, publishing, graphic arts and reproduction of registered supports	13.342,0	439.373,0	452.715,0	11,0
Manufacture of coke and refined petroleum	1.024,0	9.909,0	10.933,0	0,3
Chemical industries, of manufacture of rubber and plastic products	278.308,0	370.437,0	648.745,0	15,7
Manufacture of other non-metallic mineral products	7.614,0	244.008,0	251.622,0	6,1
Metallurgy, manufacture of basic iron and steel, ferro alloys and metal products	78.226,0	764.124,0	842.351,0	20,4
Manufacture of machinery, computers, electrical, electronics and transportation	24.750,0	334.929,0	359.678,0	8,7
Manufacture of furniture, other manufacturing industries, repair and installation fixing	3.804,0	39.650,0	43.454,0	1,1
Distribution of electrical energy, gas, steam and air conditioning	5.711,0	77.988,0	83.699,0	2,0
Treatment and decontamination activities	1.054,0	10.515,0	11.568,0	0,3
Collection activities, treatment and disposal activities, valorization activities	1.516,0	19.746,0	21.262,0	0,5
Construction	930	12505	13435	0,33
Services (except wholesale scrap and waste products)	15815	66267	82082	1,99
Wholesale scrap and waste products	28	891	918	0,02
<b>Total</b>	<b>467.114</b>	<b>3.660.502</b>	<b>4.127.616</b>	<b>100</b>

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

All data is in tons

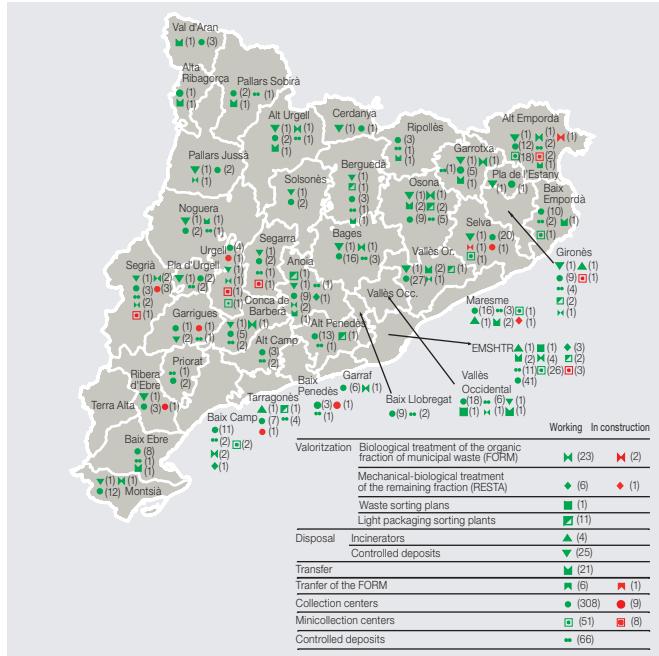
### Evolution of the number of declaring centres and declared industrial waste



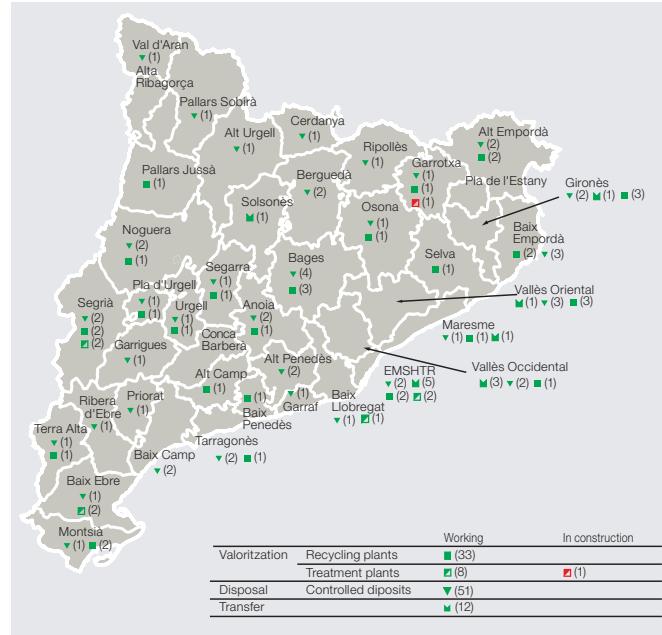
Waste of industries and treatment plants is not counted. They are not business agents.

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).

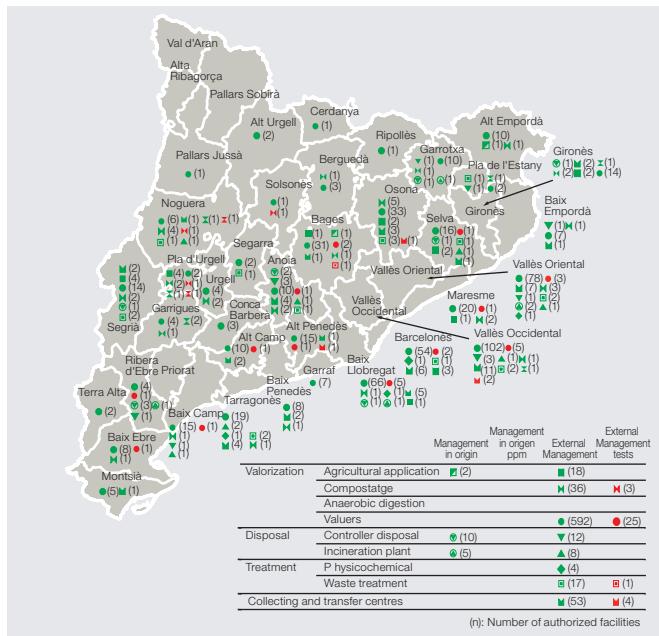
**Installations working and in construction for the management of municipal waste in Catalonia. Year 2010**



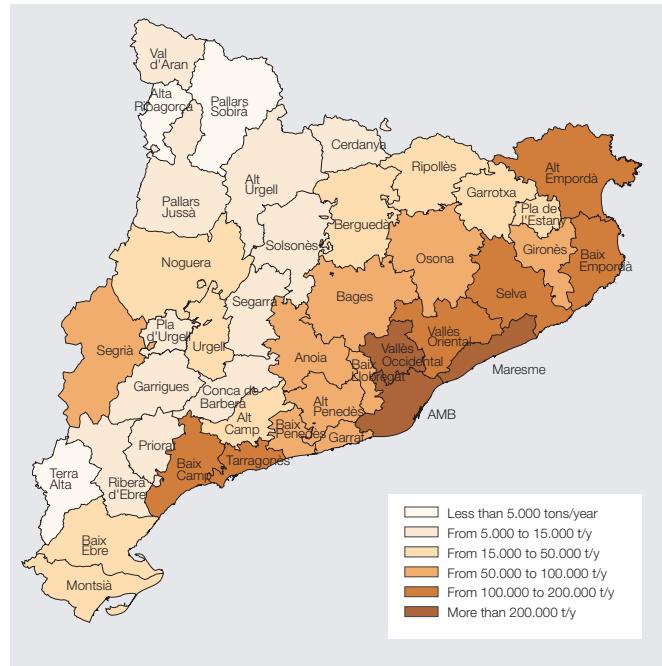
**Installations working and on trial for the management of debris in Catalonia. Year 2010**

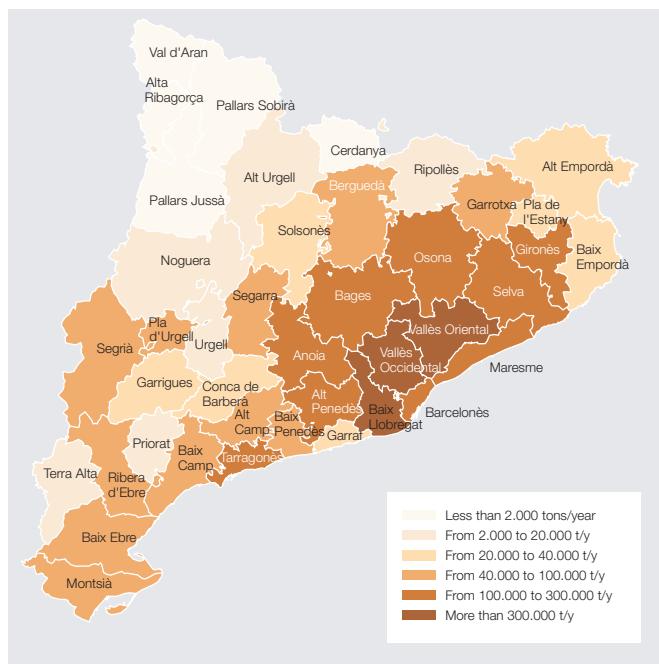


**Installations working and on trial for the management of industrial waste in Catalonia. Year 2010**



**Generation of municipal waste by region. Year 2010**



**Industrial waste declared by region. Year 2010**

**Treatment of declared industrial waste<sup>1</sup>. Year 2011**

(tons)

Type of treatment	Hazardous	Non-hazardous	Total
Recovery <sup>2</sup>	266.722	2.961.644	3.228.366
Storage	14082	272505	286587
Sub-product	3.224	10.132	13.356
Physicochemical-biological plant	72.841	54.310	127.151
Controlled disposal	52.636	618.738	671.374
Incineration	70.244	4.200	74.444
Insufficient management	0	4.530	4.530
No specified management	1.447	6.948	8.395
<b>Total</b>	<b>467.114</b>	<b>3.660.502</b>	<b>4.127.616</b>

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

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

<http://gencat.cat/territori>  
<http://gencat.cat/mediambient>