

# Data of the environment in Catalonia

2008





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## Territorial distribution of population

### Groups of municipalities according to intervals of population. 2007

Intervals (inhabitants)	Municipalities		Population	
	Partial	Accumulated %	Partial	Accumulated %
0 - 1.000	490	51,8	438.168	6,1
1.001 - 5.000	256	78,9	554.932	13,8
5.001 - 10.000	87	88,1	573.327	21,7
10.001 - 20.000	52	93,6	678.857	31,1
20.001 - 50.000	38	97,6	1.130.202	46,8
50.001 - 100.000	13	98,9	889.878	59,2
More than 100.000	10	100,0	2.945.027	100,0
<b>Total</b>	<b>946</b>		<b>7.210.391</b>	

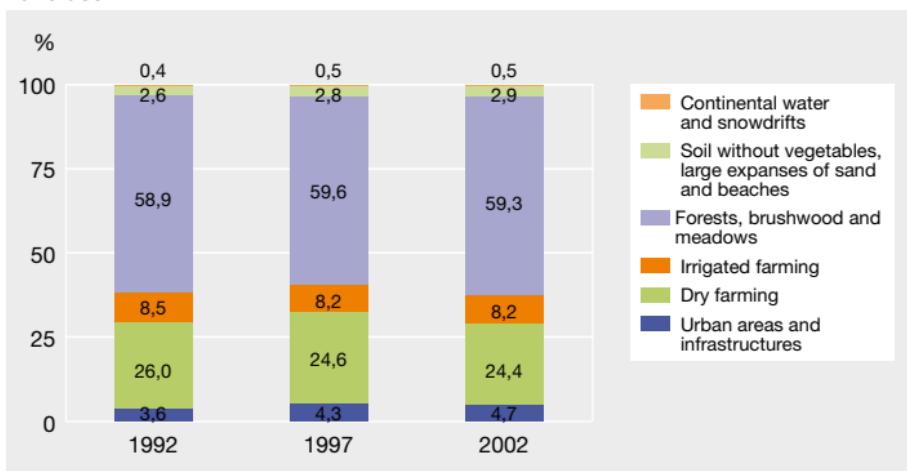
### Geographical distribution of population. 2007

Municipalities	Municipalities	Population (inh.)	Area (km <sup>2</sup> )	Density (inh./km <sup>2</sup> )
Mountain <sup>(1)</sup>	294	321.531	14.650,04	22
Coast	70	3.137.026	2.112,23	1.485
Rest of municipalities	582	3.751.834	15.133,03	248
<b>Total</b>	<b>946</b>	<b>7.210.391</b>	<b>31.895,30</b>	<b>226</b>

<sup>(1)</sup> Tossa de Mar is not included, as it is considered a coastal municipality.

## Environmental data

### Land use



### Structure of economic activity. 2007

Activity sectors	VAB pm <sup>(1)</sup>	% of the total	% variation <sup>(2)</sup>	Employed (thousands)	% of the total	% variation
Agriculture	2.359	1,3	-3,5	75,1	2,1	-12,2
Industry	41.618	22,1	2,0	763,6	21,5	-3,3
Construction	20.070	10,7	3,6	448,6	12,6	7,1
Services	123.960	65,9	4,3	2.260,0	63,7	4,7
<b>Total</b>	<b>188.007</b>	<b>100,0</b>	<b>3,6</b>	<b>3.547,3</b>	<b>100,0</b>	<b>2,7</b>

<sup>(1)</sup> Millions of euros.

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

<b>Evolution of the number of motor vehicles</b>						
<b>Vehicle</b>	<b>2002</b>	<b>2003<sup>(2)</sup></b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Motorbikes	425	420	443	486	536	587
Cars	2.999	2.985	3.090	3.181	3.243	3.333
Buses, lorries and other	796	815	858	906	953	1.002
<b>Total</b>	<b>4.220</b>	<b>4.220</b>	<b>4.391</b>	<b>4.573</b>	<b>4.732</b>	<b>4.922</b>
<b>Vehicles/1,000 inh.<sup>(1)</sup></b>	<b>649</b>	<b>649</b>	<b>585</b>	<b>634</b>	<b>656</b>	<b>683</b>

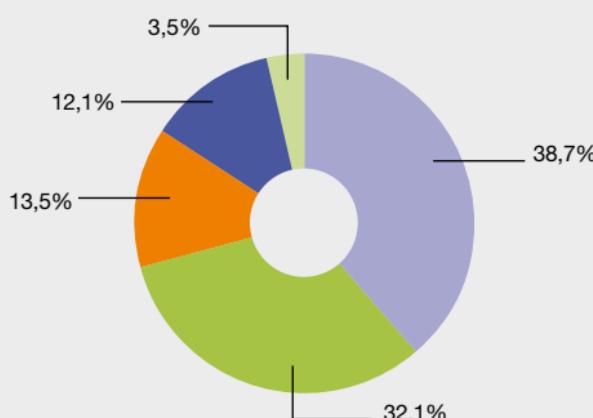
<sup>(1)</sup> Official population figures in each period.

<sup>(2)</sup> Since 2003 vehicles temporarily out of service are not included.

### Primary energy production and consumption. 2006

<b>Energy</b>	<b>Production</b>		<b>Consumption</b>	
	ktoe	%	ktoe	%
Oil	136,8	2,0	12.758,5	48,1
Nuclear	5.929,8	86,3	5.929,8	22,4
Natural gas	0,0	0,0	6.149,7	23,2
Coal	82,4	1,2	298,1	1,1
Balance of electric exchanges	0,0	0,0	690,0	2,6
Non-renewable industrial waste	58,4	0,8	58,4	0,2
Renewable energy	665,6	9,7	630,3	2,4
Hydraulic power	302,9	4,4	302,9	1,1
Urban solid waste power	117,6	1,7	117,6	0,4
Forest and farming biomass	92,6	1,3	92,6	0,3
Wind power	26,9	0,4	26,9	0,1
Biogas power	40,8	0,6	40,8	0,2
Biofuels	72,9	1,1	37,6	0,1
Solar power	12,0	0,2	12,0	0,0
<b>Total</b>	<b>6.873,0</b>	<b>100,0</b>	<b>26.514,8</b>	<b>100,0</b>

### Final consumption of energy in 2006



Transport

Industry

Domestic

Services

Primary

## Water

### Urban waste water treatment plants <sup>(1)</sup>. 2007

Plant	Number of plants	Treatment capacity		Total capacity in inh.-e <sup>(2)</sup>	
		(m <sup>3</sup> /day)	(%)	(inh.-e)	(%)
Biological	293	2.689.380	97,38	15.557.568	96,86
Lagooning	37	30.598	1,11	167.420	1,04
Primary treatments	5	1.330	0,05	983	0,01
UWWTP	335				
Pre-treatments	8	40.430	1,46	335.182	2,09
<b>Total</b>	<b>343</b>	<b>2.761.738</b>	<b>100,00</b>	<b>16.061.153</b>	<b>100,00</b>

<sup>(1)</sup> The data on inhabitant equivalent and treatment capacity refer to design.

<sup>(2)</sup> inh.-e: inhabitant equivalent.

### Global output of plants in service

	2002	2003	2004	2005	2006	2007
Number of plants in service	290	297	314	328	330	335
Number of plants analysed	275	279	301	320	326	330
Treated flow (m <sup>3</sup> /day)	1.606.844	1.958.800	1.972.069	1.851.074	1.879.482	1.805.558
Global average output of SM elimination (%)	89,3	93,2	87,1	89	87	88
Global average output of BOD <sub>5</sub> elimination (%)	91,9	94,5	90,8	91	90	91
Plants in accordance with Directive 71/EEC (%)	95,5	95,6	92,3	85 <sup>(1)</sup>	-	-
Global average output of COD5 elimination (%)					83	84

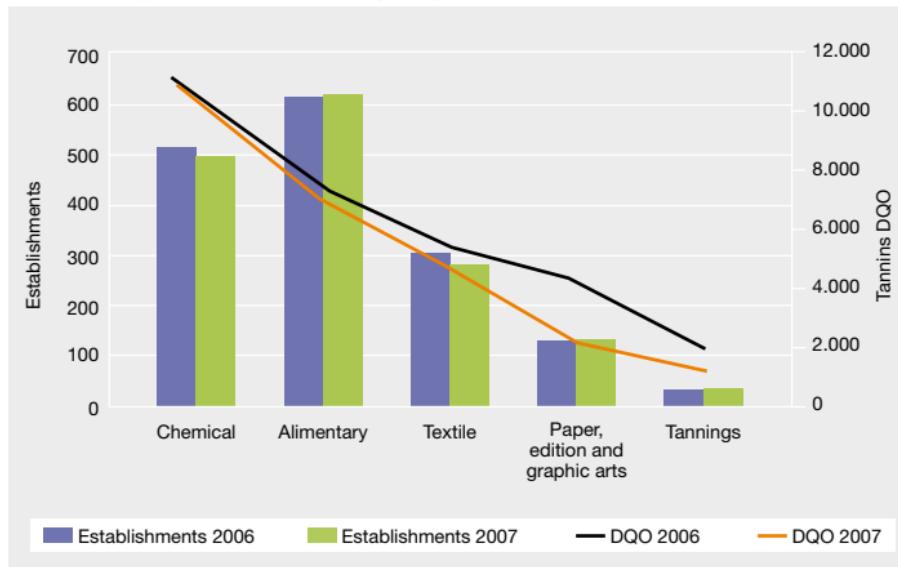
<sup>(1)</sup> Since 2004 we also consider the plants located in environmentally sensitive zones treating more than 10,000 inh.-e, which, despite complying with their design, do not attain the Directive's aims regarding the removal of nutrients.

### Generation, treatment development and destination of sewage sludge (tons of fresh material)

	2002	2003	2004	2005	2006	2007
<b>Sludge generated (fresh material)</b>	<b>522.614</b>	<b>518.224</b>	<b>553.928</b>	<b>539.353</b>	<b>547.288</b>	<b>593.590</b>
Rest of sewage plants	424.802	401.641	377.028	366.040	364.263	386.732
Plant of El Besòs	97.812	116.583	146.052	126.072	129.654	148.907
Other	-	-	-	-	-	-
Outfall	-	-	-	-	-	-
Plant of El Prat			30.848	47.241	53.371	57.951
<b>Sludge disposed of according to destination</b>	<b>490.158</b>	<b>403.075</b>	<b>430.722</b>	<b>366.398</b>	<b>388.422</b>	<b>478.695</b>
Agriculture and gardening	344.988	281.876	297.546	272.124	332.489	427.417
Quarry restoration	2.643	376,15	-	-	527	677
Controlled deposit	142.527	120.608	126.419	70.509	45.703	42.834
Other	-	-	283	-	-	-
Outfall	-	-	-	-	-	-
Energetic valorisation	-	215	6.474	23.765	9.703	7.767
<b>Sludge treatment</b>	<b>349.989</b>	<b>400.705</b>	<b>441.348</b>	<b>490.629</b>	<b>520.560</b>	<b>563.659</b>
Composting	124.553	129.825	133.711	179.272	203.165	298.126
Thermal drying	90.147	128.609	160.771	202.732	182.379	109.624
Other treatments*	-	-	-	-	-	14.300
Digestion without post-treatment	135.289	142.271	146.866	108.625	135.016	141.609

\* Grey composting, special treatment.

### 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.

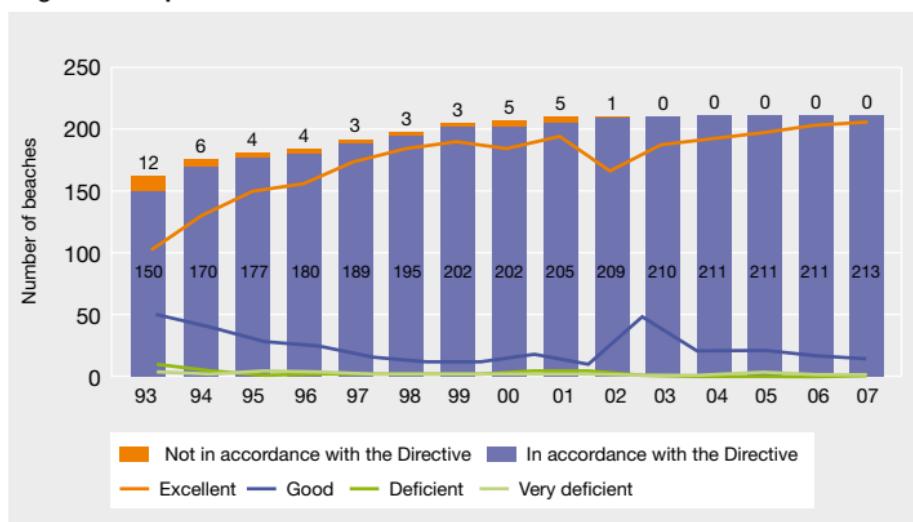
### Water quality and quantity control points

	2002	2003 <sup>(1)</sup>	2004 <sup>(2)</sup>	2005	2006	2007
<b>Quality control networks</b>	<b>6.519</b>	<b>5.699</b>	<b>5.794</b>	<b>5.670</b>	<b>6.273</b>	<b>7.105</b>
Surface water	775	167	236	226	225	532
Ground water	1.600	1.445	1.468	1.362	1.567	1.840
Marine water	4.144	4.087	4.090	4.083	4.481	4.733
<b>Quantity control networks</b>	<b>808</b>	<b>768</b>	<b>757</b>	<b>803</b>	<b>370</b>	<b>396</b>
Ground water	430	380	380	405	370	396
Surface water	378	388	377	398	—	—

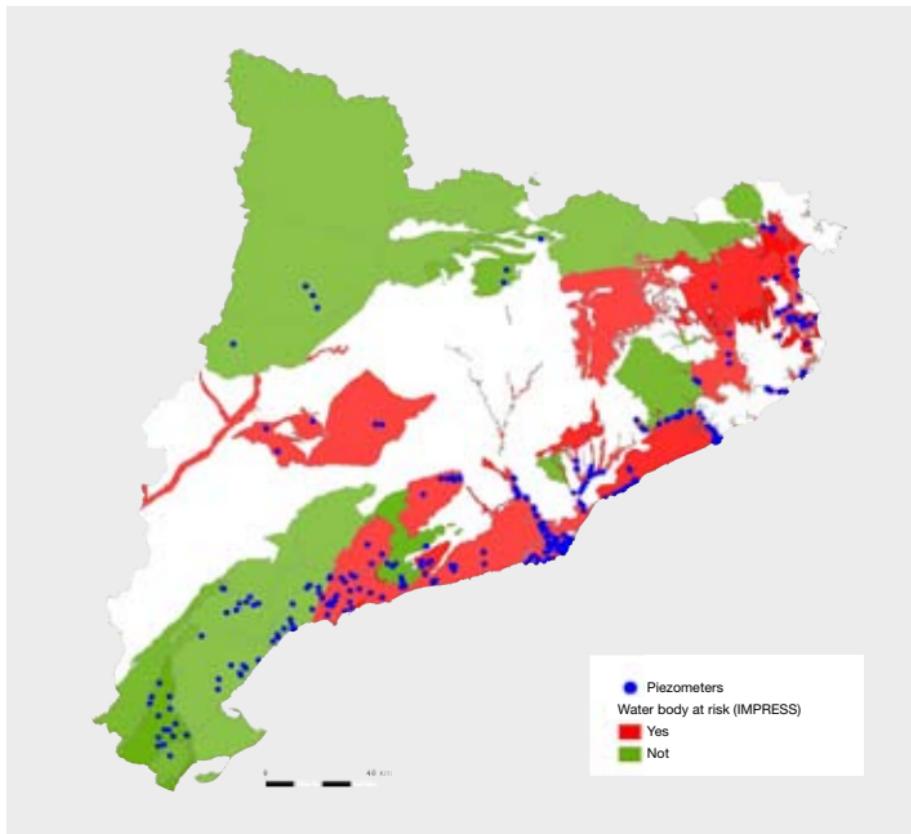
<sup>(1)</sup> In 2003, the number of control points in surface water is lower than in the previous ones, since the sampling rate and the number of controlled parameters have been intensified.

<sup>(2)</sup> Since 2004 all points where manual quantity control is undertaken (in rivers, water channels and marshes) have been counted.

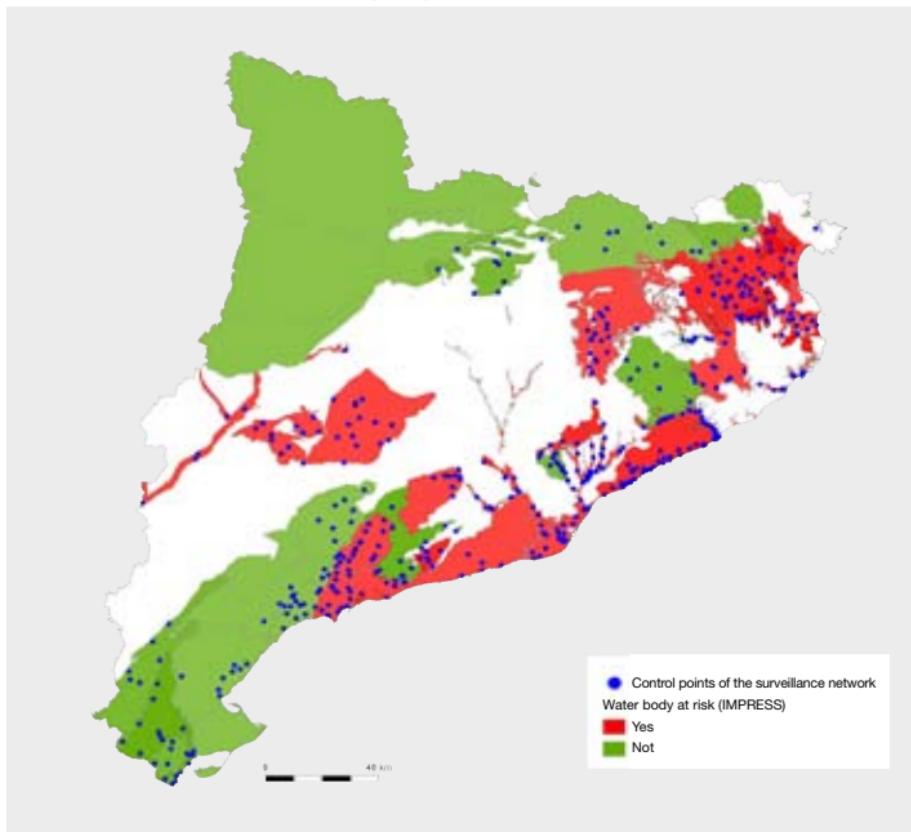
### Degree of compliance with Directive 76/160/EEC



### Location of the control points of the quantity network



### Control network of surface water quality

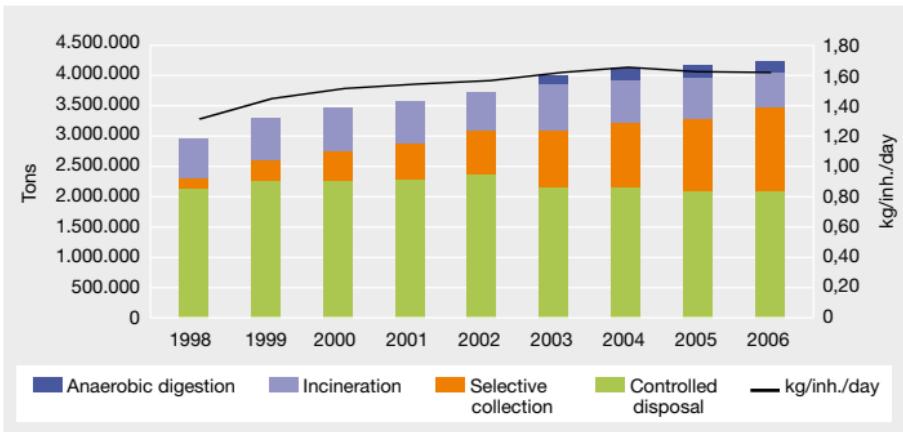


## Waste

### Final destination of municipal waste

Municipal waste production 2006: 4.259.980 tones

Production coefficient (kg/inh./day) 2006: 1,64



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 IDECAT.

### Selective collection. 2007

Waste	Tons collected	Generation coefficient (kg/inh./yr) <sup>(1)</sup>
Glass	201.684	28,8
Paper and cardboard	408.734	58,4
Light packaging	103.873	14,8
Organic matter <sup>(2)</sup>	302.724	43,3
Batteries	576	0,1
Medicines	546	0,1
Large packaging	180.099	25,7
Pruning-gardening	64.871	9,3
Textile	6.513	0,9
Collection centres <sup>(3)</sup>	184.344	
<b>Total selective collection</b>	<b>1.453.964</b>	

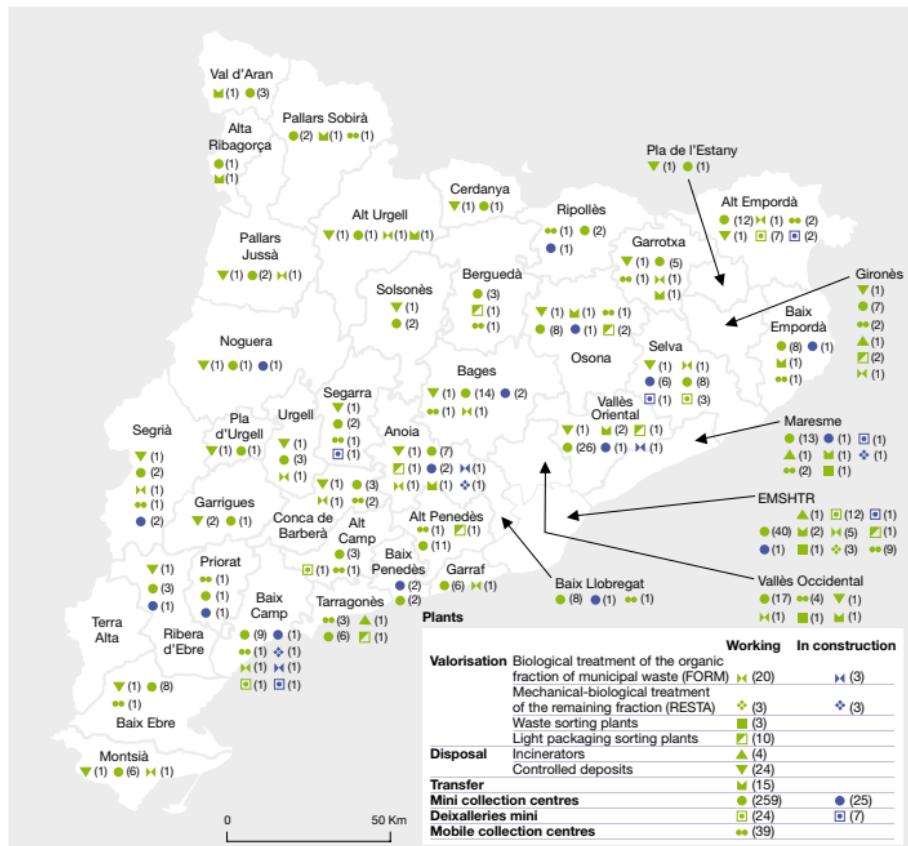
<sup>(1)</sup> Official population in 2007 published by IDECAT.

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

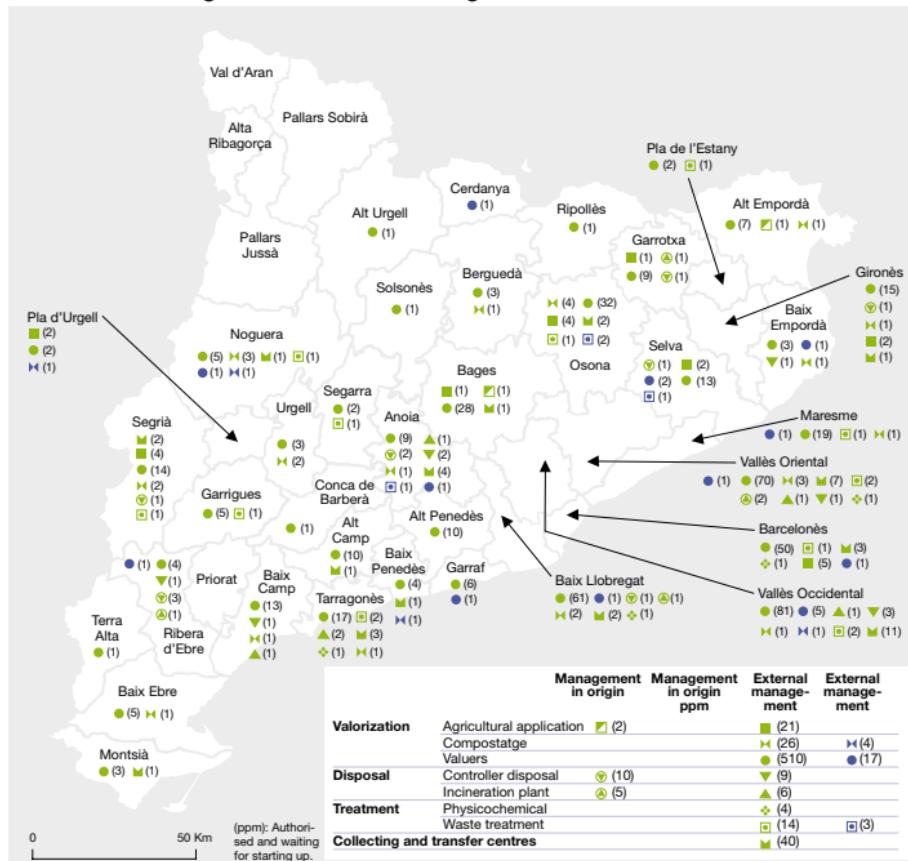
<sup>(3)</sup> Except glass, paper, large packaging, pruning and gardening and batteries collected in a collection centre.

Treatment of declared industrial waste (tons)						
Treatment	Special		Non-special		Total	
	2005	2006	2005	2006	2005	2006
Recovery	409.064	435.627	3.569.636	3.513.640	3.978.700	3.949.267
Sub-product	22.076	17.059	240.536	216.877	262.612	233.936
Storage	9.288	8.773	38.670	28.426	47.958	37.199
Physicochemical-biological plant	122.237	111.709	283.075	219.356	405.312	331.065
Controlled	75.187	66.765	1.297.375	1.156.425	1.372.562	1.223.190
Incineration	133.793	89.324	137.180	12.125	270.973	101.450
Insufficient	1.747	2	17.467	10.686	19.214	10.689
No specified mana-	23.887	1.188	17.354	17.634	41.241	18.822
<b>Total</b>	<b>797.279</b>	<b>730.448</b>	<b>5.601.293</b>	<b>5.175.170</b>	<b>6.398.572</b>	<b>5.905.619</b>

## Installations working and in construction for the management of municipal waste in Catalonia. 2007



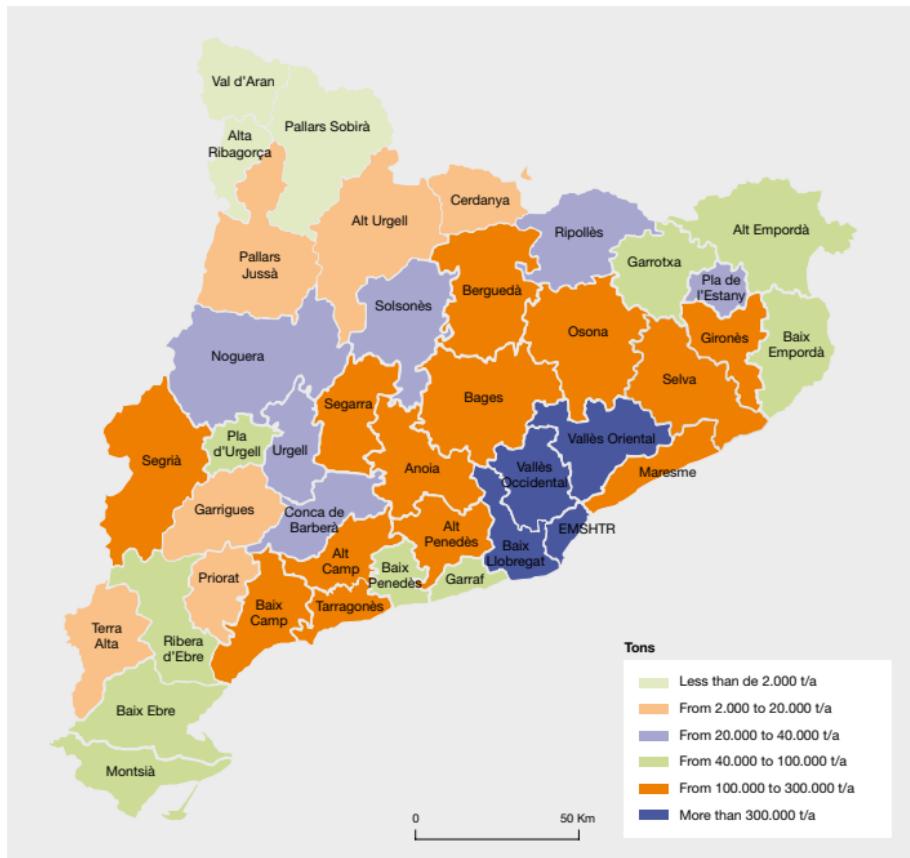
## Installations working and on trial for the management of industrial waste in Catalonia. 2007



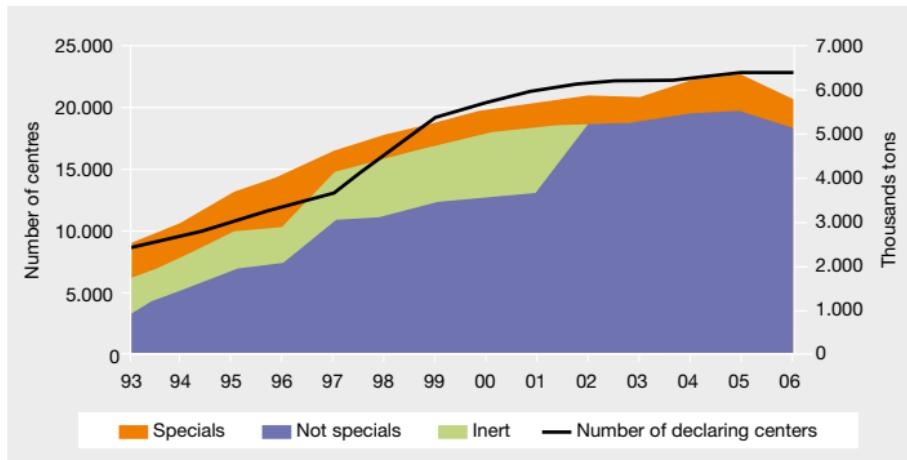
### Generation of municipal waste by region. Year 2007



### Industrial waste declared by region 2007



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



Waste of industries and treatment plants is counted out. There are not the 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-special (149) or special in some cases (61).

### Industrial waste declaration in economic sectors

Sub-sector CCAE <sup>(1)</sup>	Sector	Tons		
		2004	2005	2006 <sup>(3)</sup>
10	Extraction and accumulation of anthracite, hard coal, lignite and peat	14,14 <sup>(2)</sup>	11	32
15	Food and drink industry	1.188.730	2.509.221,17	1.263.190
17	Textiles industry	122.827	111.403	107.934
19	Hide preparation, tanning and finishing; fur manufacture, leather goods, saddlery and shoe shop	38.868	34.432	32.298
20	Wood and cork industry, except furniture, basketwork and esparto workshop	165.696	140.637	122.274
21	Paper industry	407.288	401.609	357.938
22	Publishing, graphic arts and reproduction of registered supports	139.372	136.883	157.284
24	Chemicals industry	642.348	667.904	674.636
25	Manufacture of rubber and plastic products	133.054	142.686	132.205
26	Manufacture of other non-metallic mineral products	301.867	374.770	432.645
27	Metallurgy	458.856	596.733	563.040
28	Manufacture of metallic products except machinery and equipment	372.185	336.782	431.908
29	Machinery and mechanical equipment construction industries	75.200	81.620	85.714
31	Manufacture of machinery and electrical aterial	65.114	65.148	68.087
34	Manufacture of motor vehicles, trailers and semi-trailers	319.956	317.177	343.425
36	Manufacture of furniture; other manufacturing industry	65.901	64.405	80.541
37	Recycling	181.603	209.113	109.383
40	Production and distribution of electrical energy, gas, steam and hot water	138.066	97.941	149.182
90	Public sanitation activities	1.297.244	1.238.275	664.873
	Other	117.127	216.275	129.030
<b>Total</b>		<b>6.231.302</b>	<b>6.398.573</b>	<b>5.905.619</b>

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

<sup>(2)</sup> Group 10 is smaller because there is waste produced by the company Unión Minera del Bajo Segre, which has not been taken into account, as it is considered water.

<sup>(3)</sup> The datum of industrial waste stated for year 2006. Waste of industries and treatment plants is counted out.

## Biodiversitat

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

	Number of areas	Situation a 31.12.2006		
		Terrestrial hectares	Marine hectares	Percentage in respect to the total
PEIN	165	960.102	77.818	29,91
NASP <sup>(1)</sup>	79	277.892	3.532	
Natural Park	11	222.418		
Natural Site of National Interest	7	12.022		
Nature Reserve	5	1.805		
National Park	1	13.900		
NWR	13	2.059		
Natura 2000 Network	8 ecological types <sup>(2)</sup>	957.051	83.104	29,83 <sup>(3)</sup>

<sup>(1)</sup> Including nature wildlife reserves.

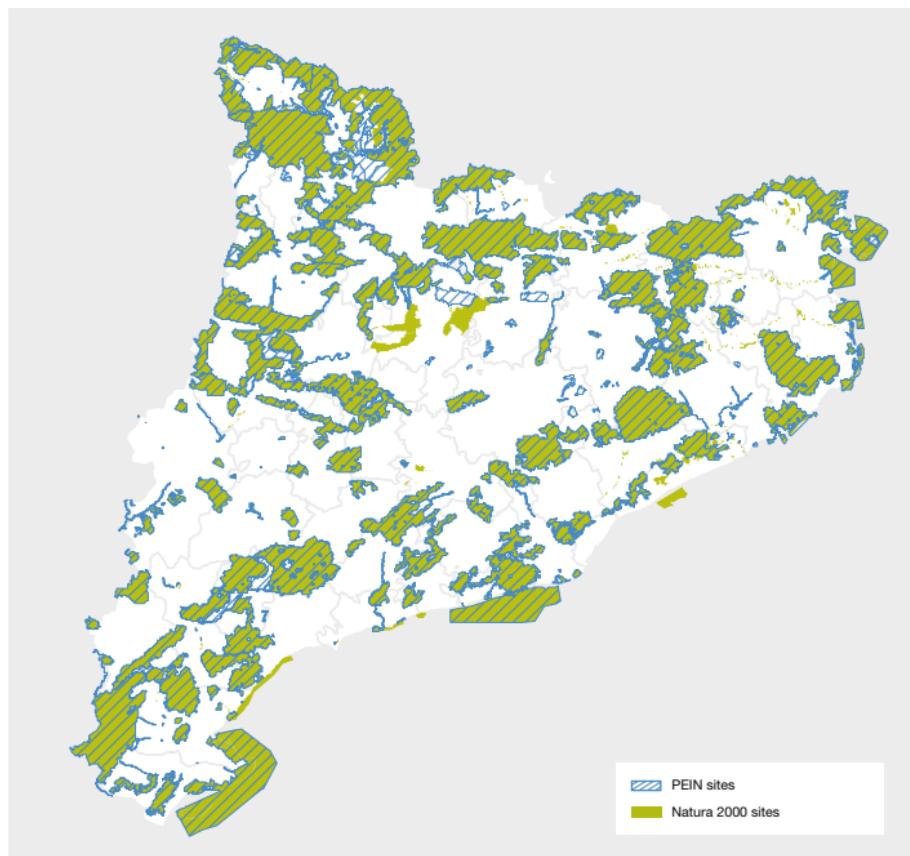
<sup>(2)</sup> Pyrenean sites – Pre-Pyrenean sites – Agricultural plain – Inland mountain – Inland water – Coastal mountain – Coastal marshes and marine areas.

<sup>(3)</sup> Total terrestrial.

NASP: Natural Area of Special Protection.

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

### Plan for Areas of Natural Interest (PEIN) and Natura 2000 network. Year 2007



**Parks of Catalonia. 2007**

	Year of creation	Terrestrial ha <sup>(1)</sup>	Marine ha	Observ. (protection areas, etc.)	Visitors <sup>(2)</sup>
<b>National Parks</b>					
Aigüestortes i Estany de Sant Maurici	1955	14.119		26.733	268.796
<b>Natural Parks</b>					
El Cadí-Moixeró	1983	39.671			430.000
Volcanic Region of La Garrotxa	1982	12.007			600.000
Aiguamolls de l'Empordà	1983	4.729			188.000
Delta de l'Ebre	1983	7.313	489		919.000
Montserrat	1987	3.630		4.039	-
El Montseny	1987	17.372		12.748	-
Sant Llorenç del Munt i Serra de l'Obac	1987	9.638		4.056	-
Cap de Creus	1998	10.813	3.073		435.000
Els Ports	2001	35.051			142.000
Serra de Montsant	2002	9.192			68.700
L'Alt Pirineu	2003	69.850			150.000
<b>Natural Sites of National Interest</b>					
Pedraforca	1982	1.671			-
Poblet	1984	3.408			184.000
L'Albera	1986	4.108			55.600
Pinya de Rosa	2003	50			-
<b>Nature Reserves</b>					
Delta del Llobregat	1987	297		201	95.000
<b>Marine Reserves</b>					
Illes Medes	1990		511		200.000
Masia Blanca (i zona d'amortiment)	2000		448		-
<b>Areas protected by urban legislation</b>					
Collserola	1987	6.535			-
Garraf	1986	12.377			-
Montnegre-Corredor	1989	15.010			-
Montesquiu	1986	547			-
Oliàrdola	1992	609			-

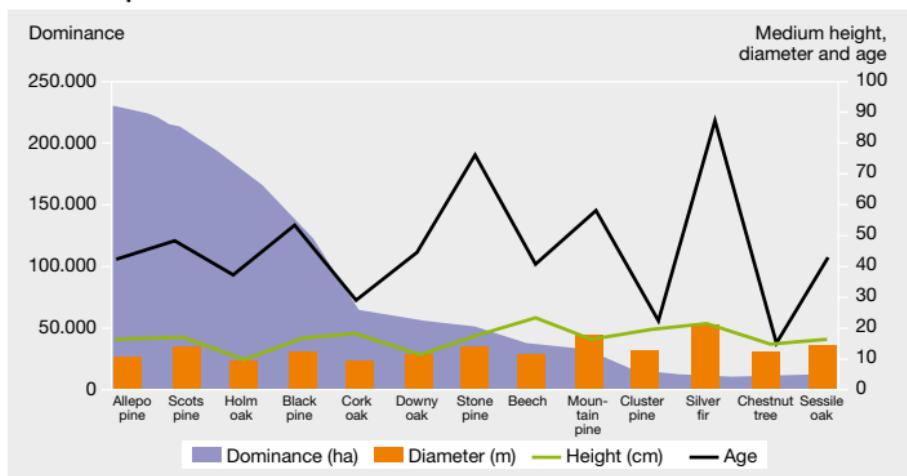
<sup>(1)</sup> Some ENPE areas can be included in other protection classifications, such as nature reserves.

<sup>(2)</sup> Estimated figures.

**Estimated population of species, protected or in decline (mentioned in the annexes of the directives of habitats and birds and in the red lists of the EU)**

Species	2001	2002	2003	2004	2005	2006	2007
Great white egret	6	7	8	9	9	11	11
Bonelli's eagle	66	66	66	67	66	69	67
Dupont's Lark	20	10-12	4-6	7	0-1	0	0
Marsh harrier	35	40	45	35	48	49	53
Bittern	1	1	4-5		3	4-5	1
Glossy ibis	21	23	26	51	62	102	111-119
Montagu's harrier	73	70	66	88	70	79	66
Greater Flamingo	251	1677	1.355	1.650	0	1.907	1.900
Audouin's gull	11.666	10122	10.356	10.717	13.849	15.396	14.177
Lesser grey shrike	18	19	17	18-19	17-19	10	9
Bearded vulture	21	21	22	24	25	25	28
Vulture	-	-	-	-	-	-	-
Sandwich tern	1.666	1893	2.127	2.786	2.659	1.378	1.744
Lesser crested tern	1	1	2	2	1	1	-
Common tern	3.393	4221	4.734	5.452	5.341	2.803	2
Little tern	294	314	332	384	393	286	-
Lesser Kestrel	67	74	94	79	102	118	116
Capercaillie					512-521 m	-	-
Shag	-	18	-	-	29-33 p	41-42 p	41-48 p
Brown bear	7	8 a 9	9 a 10	10 a 12	11 a 13	10 a 15	10 a 12
Storm petrel	0	0	0	0	3 a 4 p	0	0

## Main tree species in Catalonia



Source: Forest and Ecological Inventory of Catalonia, 1988-1998. CREAF.

## Open cast mining according to its degree of restoration. 2007

Degree of restoration	Dossier		Surface areas	
	Number	%	Hectares	%
Briefed and/or authorized open cast mining when it is not evident that they have pioneered the exploitation	395	14	1.371	1.465
Open cast mining in exploitation and with no restoration started	797	28	5.075	5.425
Open cast mining in exploitation with integrated restoration	388	14	4.028	4.306
Restored open cast mining in guarantee period	275	10	1.312	1.402
Restored open cast mining with a returned deposit (467 activities) or of DPH <sup>(1)</sup> (459 activities)	951	34	1.585	1.694
<b>Total</b>	<b>2.806</b>	<b>100</b>	<b>13.371</b>	<b>14.293</b>

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

## Number of declarations of environmental impact issued in 2007 <sup>(1)</sup>

Actions	2003	2004	2005	2006	2007
Harbours	0	1	3	0	0
Linear infrastructures	18	33	6	9	23
Basins	0	1	1	1	3
Industrial activities	50	48	78	133	184
Soil use transformation	10	15	4	3	0
Affecting PEIN areas	9	12	5	9	5
<b>Total</b>	<b>87</b>	<b>107</b>	<b>97</b>	<b>155</b>	<b>215</b>

<sup>(1)</sup> According to date of Environmental Report.

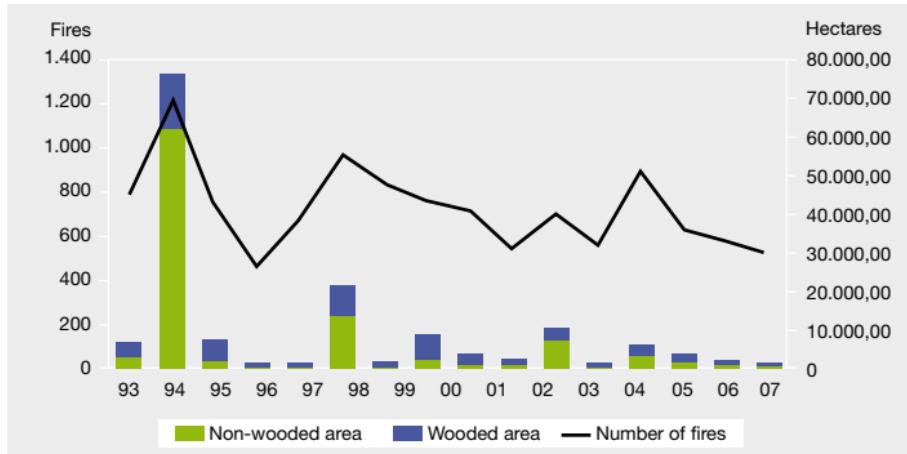
## Hunting and fishing areas 2007

	Number of areas	Area in hectares
<b>Authorised hunting/fishing</b>		
National hunting reserves	7	238.831
Controlled hunting zones	15	85.867
Controlled fishing zones	311	1.432 <sup>(1)</sup>
<b>Protected areas</b>		
Wildlife preserves	79	10.473
Hunting preserves	2	389
Fishing preserves	229 <sup>(2)</sup>	-

<sup>(1)</sup> Area in km<sup>2</sup>.

<sup>(2)</sup> In the Val d'Aran, all zones not delimited by controlled fishing areas are considered fishing preserves.

### Evolution of number of fires and affected area



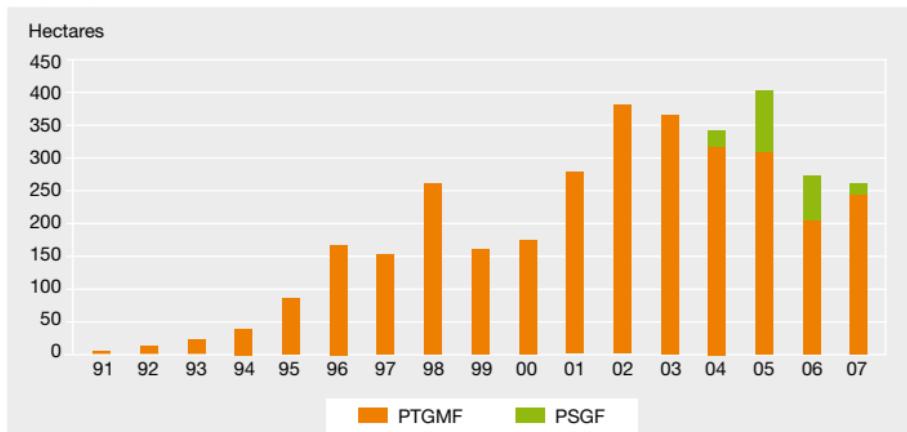
### Evolution of the forest planning of private property (technical plans and simple plans).

Year	PTGMF valid	Area under organisation with PTGMF (ha) valid	Number of PTGMF approved per year	Area under organisation with PTGMF (ha) per year
2000	1.049	165.915,5	169	28.541,1
2001	1.310	207.153,3	261	41.237,8
2002	1.681	261.720,1	371	54.782,2
2003	2.037	312.508,0	356	50.787,8
2004	2.268	343.959,0	308	43.658,5
2005	2.396	358.688,0	303	36.944,1
2006	2.605	390.408,0	203	30.281,7
2007	2.732	405.785,5	242	34.137,0
Year	PSGF valid	Area under organisation with PSGF (ha) valid	Number of PSGF approved per year	Area under organisation with PSGF (ha) per year
2004	17	250,2	17	250,2
2005	112	1.306,0	94	1.050,8
2006	180	2.055,5	67	739,6
2007	199	2.317,0	19	262,1
<b>Total PTGMF and PSGF 2007</b>	<b>2.931</b>	<b>408.102,5</b>	<b>261</b>	<b>34.399,1</b>

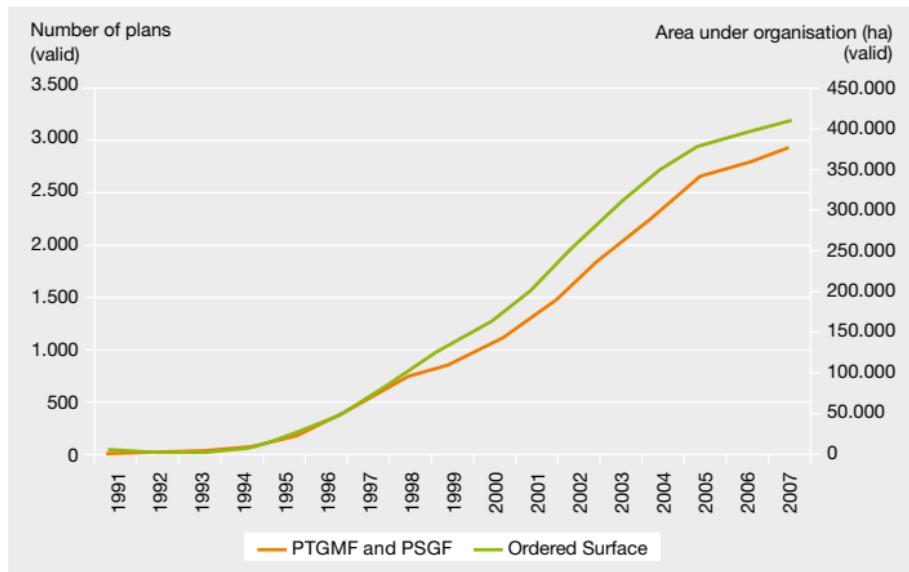
PTGMF: Technical Forest Management and Improvement Plans.

PSGF: Simple Forest Management Plans.

### Distribution of technical plans (PTGMF) and simple plans (PSGF) approved, in private property, 1991-2007

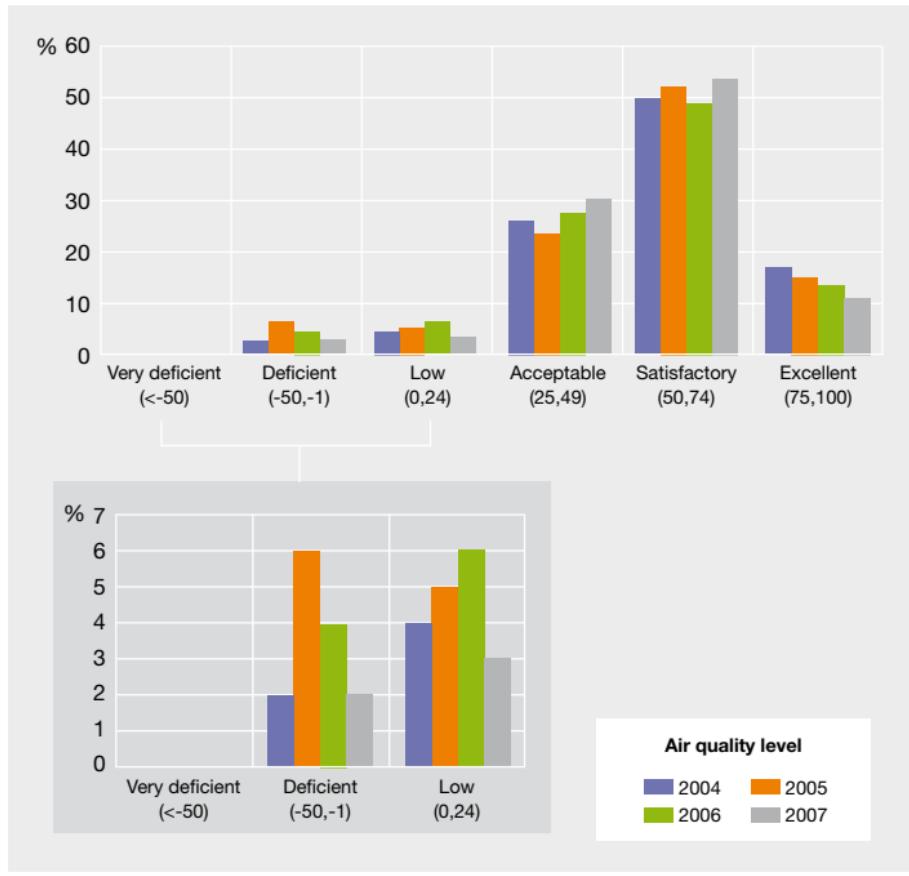


## Evolution of the number of plans approved and planned area (ha) in private forest property



## Atmosphere

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



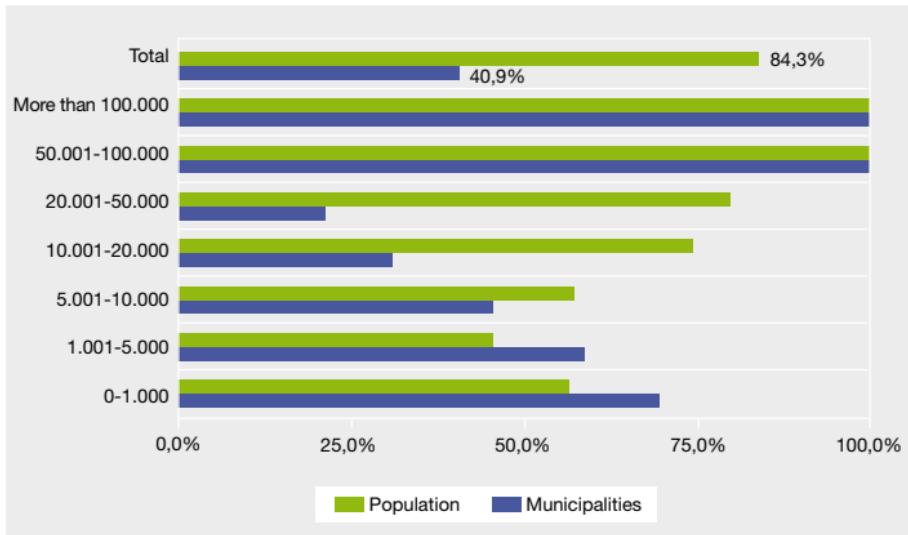
<sup>(1)</sup> ICQA was calculated using levels of: carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>), ozone (O<sub>3</sub>) and suspended particles PM10 and PST.

**Control of ozone immission levels**

	2002	2003	2004	2005	2006	2007
Total number of sensors	37	39	42	47	50	53
Stations exceeding population alert threshold <sup>(1)</sup>	1	0	0	1	1	0
Stations exceeding population information threshold <sup>(2)</sup>	9	22	10	20	20	9
Time value exceeding population information threshold (units)	41	222	43	111	110	15
<b>Average level (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>60</b>	<b>61</b>	<b>60</b>	<b>61</b>	<b>47</b>	<b>48</b>
<b>Maximum level (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>384</b>	<b>288</b>	<b>234</b>	<b>246</b>	<b>250</b>	<b>233</b>

<sup>(1)</sup> 240  $\mu\text{g}/\text{m}^3$  in one hour (RD 1796/2003).<sup>(2)</sup> 180  $\mu\text{g}/\text{m}^3$  in one hour (RD 1796/2003).**Voluntary systems to protect the environment****Number of companies with voluntary systems to protect the environment System**

System	2002	2003	2004	2005	2006	2007
Ecolabel	8	9	8	7	11	17
<b>Emblem of environmental quality guarantee</b>						
Products	806	819	808	848	1.100	1.144
Services	53	109	131	147	165	188
Eco-Management and Auditing System (EMAS)	130	148	147	159	190	206

**Local bodies subscribing the Aalborg Charter. 2007**

Percentages are calculated on the total of municipalities and/or population for each interval considered.

**Sources:**  
Department of the Environment and Housing  
Department of Territorial Policy  
and Public Works  
Departament of Governance  
and Public Administration  
Catalan Energy Agency  
Institute of Statistics of Catalonia

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