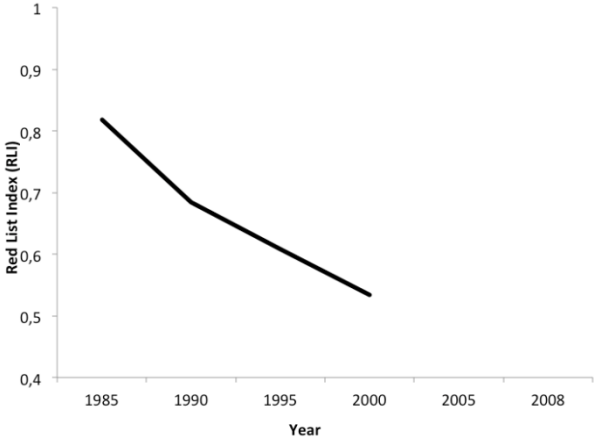
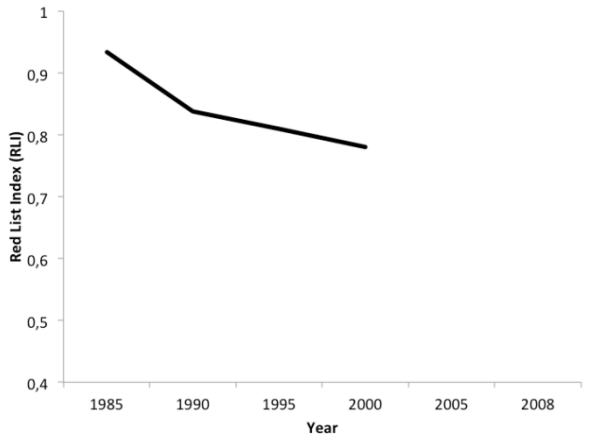
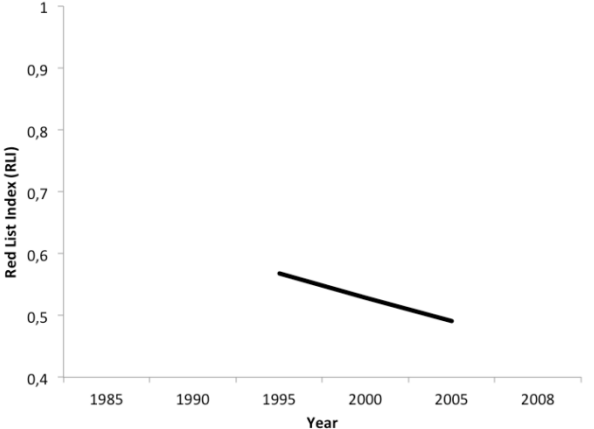
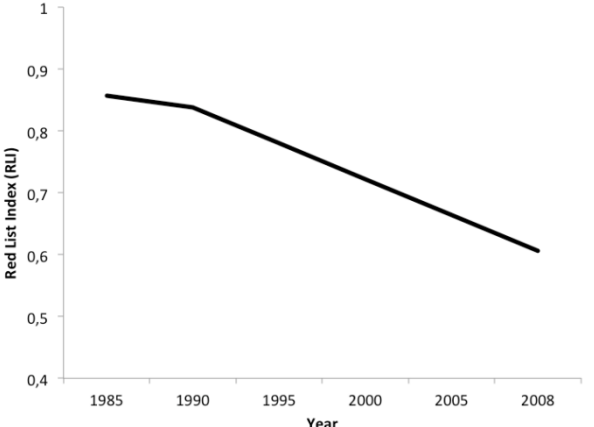


**Appendix 1.** List of indicators.

**Table A1.1.** Biodiversity indicators description and evolution based on the Red list Index of threatened species of vertebrates in Spain.

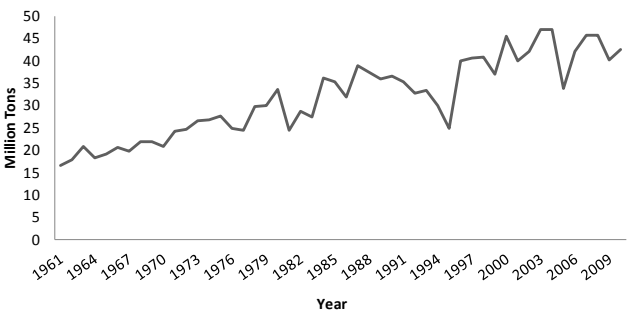
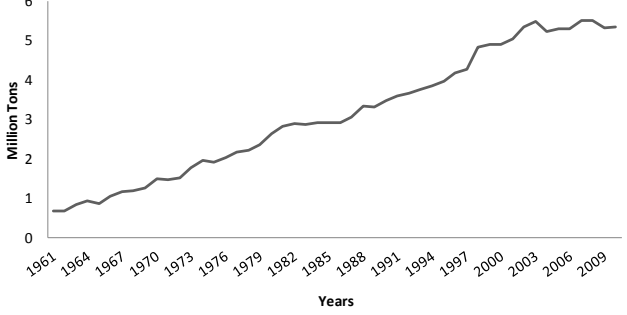
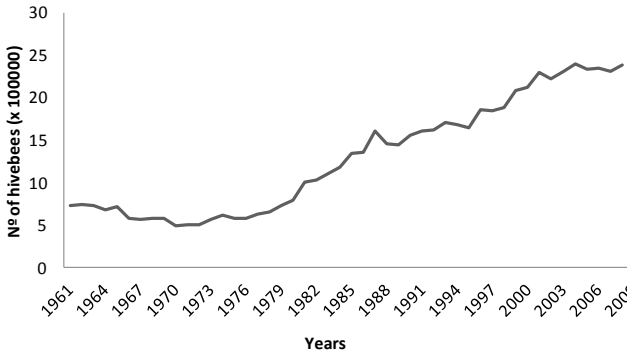
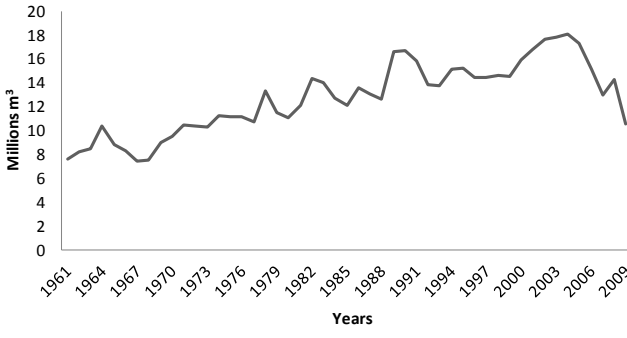
Taxonomic group	Indicator description	Indicator evolution								
Fish	<p>The Red List Index</p> <p>Period: 1985-2000</p> <p>Units: Dimensionless</p> <p>Source: Doadrio (2001)</p>	 <table border="1"> <caption>Data for Fish RLI</caption> <thead> <tr> <th>Year</th> <th>Red List Index (RLI)</th> </tr> </thead> <tbody> <tr> <td>1985</td> <td>0.82</td> </tr> <tr> <td>1990</td> <td>0.68</td> </tr> <tr> <td>2000</td> <td>0.54</td> </tr> </tbody> </table>	Year	Red List Index (RLI)	1985	0.82	1990	0.68	2000	0.54
Year	Red List Index (RLI)									
1985	0.82									
1990	0.68									
2000	0.54									
Amphibians and reptiles	<p>The Red List Index</p> <p>Period: 1985-2000</p> <p>Units: Dimensionless</p> <p>Source: Pleguezuelos and Márquez (2004)</p>	 <table border="1"> <caption>Data for Amphibians and reptiles RLI</caption> <thead> <tr> <th>Year</th> <th>Red List Index (RLI)</th> </tr> </thead> <tbody> <tr> <td>1985</td> <td>0.94</td> </tr> <tr> <td>1990</td> <td>0.84</td> </tr> <tr> <td>2000</td> <td>0.78</td> </tr> </tbody> </table>	Year	Red List Index (RLI)	1985	0.94	1990	0.84	2000	0.78
Year	Red List Index (RLI)									
1985	0.94									
1990	0.84									
2000	0.78									
Birds	<p>The Red List Index</p> <p>Period: 1995-2005</p> <p>Units: Dimensionless</p> <p>Source: Martí and Moral (2003)</p>	 <table border="1"> <caption>Data for Birds RLI</caption> <thead> <tr> <th>Year</th> <th>Red List Index (RLI)</th> </tr> </thead> <tbody> <tr> <td>1995</td> <td>0.58</td> </tr> <tr> <td>2005</td> <td>0.50</td> </tr> </tbody> </table>	Year	Red List Index (RLI)	1995	0.58	2005	0.50		
Year	Red List Index (RLI)									
1995	0.58									
2005	0.50									

Mammals	<p>The Red List Index</p> <p>Period: 1985-2008</p> <p>Units: Dimensionless</p> <p>Source: Palomo (2007)</p>	 <table border="1"> <caption>Data for Red List Index (RLI) - Mammals</caption> <thead> <tr> <th>Year</th> <th>Red List Index (RLI)</th> </tr> </thead> <tbody> <tr> <td>1985</td> <td>0.86</td> </tr> <tr> <td>1990</td> <td>0.84</td> </tr> <tr> <td>1995</td> <td>0.78</td> </tr> <tr> <td>2000</td> <td>0.72</td> </tr> <tr> <td>2005</td> <td>0.66</td> </tr> <tr> <td>2008</td> <td>0.61</td> </tr> </tbody> </table>	Year	Red List Index (RLI)	1985	0.86	1990	0.84	1995	0.78	2000	0.72	2005	0.66	2008	0.61
Year	Red List Index (RLI)															
1985	0.86															
1990	0.84															
1995	0.78															
2000	0.72															
2005	0.66															
2008	0.61															

## REFERENCES

- Doadrio, I. (2001) Atlas y Libro Rojo de los Peces Continentales de España National Museum of Natural Science. General Direction of Nature Conservation, Madrid.
- Martí, R. and Moral, J. C. (2003) Atlas de las Aves Reproductoras De España. The Spanish Ministry of the Environment (Autonomous Organism of Nature Reserves) and Spanish Ornithologist Society, Madrid, Spain.
- Palomo, J. L. (2007) Atlas y Libro Rojo de los mamíferos terrestres de España. The Spanish Ministry of the Environment, Autonomous Organism of Nature Reserves, Madrid, Spain.
- Pleguezuelos, J. M. and Márquez, R. (2004) Atlas y Libro Rojo de los Anfibios y Reptiles de España. National Museum of Natural Science. General Direction of Nature Conservation, Madrid, Spain.

**Table A1.2.** List of Ecosystem Services indicators selected for the analysis that include the following information: description, data source, measurement unit, timeline used based on the available data, rationale and graphical evolution of the trend indicators.

Ecosystem Services	Indicator description	Indicator evolution																																				
<b>Provisioning</b>																																						
<b>Nutrition</b>																																						
Crops	<p>Total production of cereals, fruits and olives</p> <p>Period: 1961-2010</p> <p>Units: Tons</p> <p>Source: Faostat (2011)</p>	 <table border="1"> <caption>Estimated data for Crops production (Million Tons)</caption> <thead> <tr><th>Year</th><th>Production (Million Tons)</th></tr> </thead> <tbody> <tr><td>1961</td><td>15</td></tr> <tr><td>1964</td><td>18</td></tr> <tr><td>1967</td><td>20</td></tr> <tr><td>1970</td><td>22</td></tr> <tr><td>1973</td><td>25</td></tr> <tr><td>1976</td><td>28</td></tr> <tr><td>1979</td><td>30</td></tr> <tr><td>1982</td><td>25</td></tr> <tr><td>1985</td><td>35</td></tr> <tr><td>1988</td><td>38</td></tr> <tr><td>1991</td><td>35</td></tr> <tr><td>1994</td><td>25</td></tr> <tr><td>1997</td><td>40</td></tr> <tr><td>2000</td><td>45</td></tr> <tr><td>2003</td><td>48</td></tr> <tr><td>2006</td><td>45</td></tr> <tr><td>2009</td><td>42</td></tr> </tbody> </table>	Year	Production (Million Tons)	1961	15	1964	18	1967	20	1970	22	1973	25	1976	28	1979	30	1982	25	1985	35	1988	38	1991	35	1994	25	1997	40	2000	45	2003	48	2006	45	2009	42
Year	Production (Million Tons)																																					
1961	15																																					
1964	18																																					
1967	20																																					
1970	22																																					
1973	25																																					
1976	28																																					
1979	30																																					
1982	25																																					
1985	35																																					
1988	38																																					
1991	35																																					
1994	25																																					
1997	40																																					
2000	45																																					
2003	48																																					
2006	45																																					
2009	42																																					
Livestock	<p>Total production of meat</p> <p>Period: 1961-2010</p> <p>Units: Tons</p> <p>Source: Faostat (2011)</p>	 <table border="1"> <caption>Estimated data for Livestock production (Million Tons)</caption> <thead> <tr><th>Year</th><th>Production (Million Tons)</th></tr> </thead> <tbody> <tr><td>1961</td><td>0.5</td></tr> <tr><td>1964</td><td>0.8</td></tr> <tr><td>1967</td><td>1.1</td></tr> <tr><td>1970</td><td>1.4</td></tr> <tr><td>1973</td><td>1.8</td></tr> <tr><td>1976</td><td>2.2</td></tr> <tr><td>1979</td><td>2.6</td></tr> <tr><td>1982</td><td>2.8</td></tr> <tr><td>1985</td><td>3.1</td></tr> <tr><td>1988</td><td>3.4</td></tr> <tr><td>1991</td><td>3.7</td></tr> <tr><td>1994</td><td>4.0</td></tr> <tr><td>1997</td><td>4.5</td></tr> <tr><td>2000</td><td>5.0</td></tr> <tr><td>2003</td><td>5.4</td></tr> <tr><td>2006</td><td>5.3</td></tr> <tr><td>2009</td><td>5.2</td></tr> </tbody> </table>	Year	Production (Million Tons)	1961	0.5	1964	0.8	1967	1.1	1970	1.4	1973	1.8	1976	2.2	1979	2.6	1982	2.8	1985	3.1	1988	3.4	1991	3.7	1994	4.0	1997	4.5	2000	5.0	2003	5.4	2006	5.3	2009	5.2
Year	Production (Million Tons)																																					
1961	0.5																																					
1964	0.8																																					
1967	1.1																																					
1970	1.4																																					
1973	1.8																																					
1976	2.2																																					
1979	2.6																																					
1982	2.8																																					
1985	3.1																																					
1988	3.4																																					
1991	3.7																																					
1994	4.0																																					
1997	4.5																																					
2000	5.0																																					
2003	5.4																																					
2006	5.3																																					
2009	5.2																																					
Wild plants and animals and their products	<p>Number of beehives of <i>Apis mellifera</i></p> <p>Period: 1961-2008</p> <p>Units: N° beehives</p> <p>Source: Faostat (2011)</p>	 <table border="1"> <caption>Estimated data for Number of beehives (x 100,000)</caption> <thead> <tr><th>Year</th><th>Number of beehives (x 100,000)</th></tr> </thead> <tbody> <tr><td>1961</td><td>7</td></tr> <tr><td>1964</td><td>7</td></tr> <tr><td>1967</td><td>6</td></tr> <tr><td>1970</td><td>5</td></tr> <tr><td>1973</td><td>5</td></tr> <tr><td>1976</td><td>6</td></tr> <tr><td>1979</td><td>7</td></tr> <tr><td>1982</td><td>10</td></tr> <tr><td>1985</td><td>13</td></tr> <tr><td>1988</td><td>16</td></tr> <tr><td>1991</td><td>15</td></tr> <tr><td>1994</td><td>17</td></tr> <tr><td>1997</td><td>18</td></tr> <tr><td>2000</td><td>21</td></tr> <tr><td>2003</td><td>23</td></tr> <tr><td>2006</td><td>24</td></tr> <tr><td>2008</td><td>24</td></tr> </tbody> </table>	Year	Number of beehives (x 100,000)	1961	7	1964	7	1967	6	1970	5	1973	5	1976	6	1979	7	1982	10	1985	13	1988	16	1991	15	1994	17	1997	18	2000	21	2003	23	2006	24	2008	24
Year	Number of beehives (x 100,000)																																					
1961	7																																					
1964	7																																					
1967	6																																					
1970	5																																					
1973	5																																					
1976	6																																					
1979	7																																					
1982	10																																					
1985	13																																					
1988	16																																					
1991	15																																					
1994	17																																					
1997	18																																					
2000	21																																					
2003	23																																					
2006	24																																					
2008	24																																					
<b>Biotic materials</b>																																						
Timber	<p>Total wood production</p> <p>Period: 1961-2009</p> <p>Units: Million m<sup>3</sup></p> <p>Source:</p>	 <table border="1"> <caption>Estimated data for Timber production (Millions m³)</caption> <thead> <tr><th>Year</th><th>Production (Millions m³)</th></tr> </thead> <tbody> <tr><td>1961</td><td>8</td></tr> <tr><td>1964</td><td>10</td></tr> <tr><td>1967</td><td>8</td></tr> <tr><td>1970</td><td>10</td></tr> <tr><td>1973</td><td>11</td></tr> <tr><td>1976</td><td>11</td></tr> <tr><td>1979</td><td>13</td></tr> <tr><td>1982</td><td>11</td></tr> <tr><td>1985</td><td>14</td></tr> <tr><td>1988</td><td>12</td></tr> <tr><td>1991</td><td>17</td></tr> <tr><td>1994</td><td>14</td></tr> <tr><td>1997</td><td>15</td></tr> <tr><td>2000</td><td>15</td></tr> <tr><td>2003</td><td>17</td></tr> <tr><td>2006</td><td>18</td></tr> <tr><td>2009</td><td>11</td></tr> </tbody> </table>	Year	Production (Millions m³)	1961	8	1964	10	1967	8	1970	10	1973	11	1976	11	1979	13	1982	11	1985	14	1988	12	1991	17	1994	14	1997	15	2000	15	2003	17	2006	18	2009	11
Year	Production (Millions m³)																																					
1961	8																																					
1964	10																																					
1967	8																																					
1970	10																																					
1973	11																																					
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1991	17																																					
1994	14																																					
1997	15																																					
2000	15																																					
2003	17																																					
2006	18																																					
2009	11																																					

	Spanish Ministry of Agriculture Food and Environment (2011)																																					
<b>Regulation</b>																																						
<b>Regulation of physic-chemical environment</b>																																						
Maintenance of soil fertility	<p>Fertilizer consumption</p> <p>Period: 1961-2007</p> <p>Units: Kilograms per hectare of arable land</p> <p>Source: World Bank (2011)</p>	<table border="1"> <caption>Fertilizer consumption (Hundred kg/ha of arable land)</caption> <thead> <tr> <th>Year</th> <th>Consumption</th> </tr> </thead> <tbody> <tr><td>1961</td><td>8</td></tr> <tr><td>1964</td><td>9</td></tr> <tr><td>1967</td><td>10</td></tr> <tr><td>1970</td><td>11</td></tr> <tr><td>1973</td><td>9</td></tr> <tr><td>1976</td><td>10</td></tr> <tr><td>1979</td><td>13</td></tr> <tr><td>1982</td><td>12</td></tr> <tr><td>1985</td><td>11</td></tr> <tr><td>1988</td><td>14</td></tr> <tr><td>1991</td><td>17</td></tr> <tr><td>1994</td><td>18</td></tr> <tr><td>1997</td><td>14</td></tr> <tr><td>2000</td><td>14</td></tr> <tr><td>2003</td><td>13</td></tr> <tr><td>2006</td><td>12</td></tr> <tr><td>2009</td><td>14</td></tr> </tbody> </table>	Year	Consumption	1961	8	1964	9	1967	10	1970	11	1973	9	1976	10	1979	13	1982	12	1985	11	1988	14	1991	17	1994	18	1997	14	2000	14	2003	13	2006	12	2009	14
Year	Consumption																																					
1961	8																																					
1964	9																																					
1967	10																																					
1970	11																																					
1973	9																																					
1976	10																																					
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1985	11																																					
1988	14																																					
1991	17																																					
1994	18																																					
1997	14																																					
2000	14																																					
2003	13																																					
2006	12																																					
2009	14																																					
<b>Flow regulation</b>																																						
Water flow regulation	<p>Damages due to floods paid by insurance companies</p> <p>Period: 1971-2007</p> <p>Units: Thousands of expedients per year</p> <p>Source: Insurance Compensation Consortium (2011)</p>	<table border="1"> <caption>Number of reports by floods (thousands)</caption> <thead> <tr> <th>Year</th> <th>Reports</th> </tr> </thead> <tbody> <tr><td>1961</td><td>0</td></tr> <tr><td>1964</td><td>0</td></tr> <tr><td>1967</td><td>0</td></tr> <tr><td>1970</td><td>0</td></tr> <tr><td>1973</td><td>0</td></tr> <tr><td>1976</td><td>0</td></tr> <tr><td>1979</td><td>4</td></tr> <tr><td>1982</td><td>1</td></tr> <tr><td>1985</td><td>15</td></tr> <tr><td>1988</td><td>22</td></tr> <tr><td>1991</td><td>15</td></tr> <tr><td>1994</td><td>10</td></tr> <tr><td>1997</td><td>28</td></tr> <tr><td>2000</td><td>17</td></tr> <tr><td>2003</td><td>18</td></tr> <tr><td>2006</td><td>13</td></tr> <tr><td>2009</td><td>33</td></tr> </tbody> </table>	Year	Reports	1961	0	1964	0	1967	0	1970	0	1973	0	1976	0	1979	4	1982	1	1985	15	1988	22	1991	15	1994	10	1997	28	2000	17	2003	18	2006	13	2009	33
Year	Reports																																					
1961	0																																					
1964	0																																					
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1970	0																																					
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2000	17																																					
2003	18																																					
2006	13																																					
2009	33																																					
<b>Regulation against hazards</b>																																						

<p>Lifecycles maintenance</p>	<p>Number of forest fires</p> <p>Period: 1961-2008</p> <p>Units: Thousands of forest fires per year</p> <p>Source: Spanish Ministry of Agriculture Food and Environment (2011)</p>	<table border="1"> <caption>Number of forest fires (thousands)</caption> <thead> <tr> <th>Year</th> <th>Number of forest fires (thousands)</th> </tr> </thead> <tbody> <tr><td>1961</td><td>2</td></tr> <tr><td>1964</td><td>2</td></tr> <tr><td>1967</td><td>2</td></tr> <tr><td>1970</td><td>3</td></tr> <tr><td>1973</td><td>4</td></tr> <tr><td>1976</td><td>4</td></tr> <tr><td>1979</td><td>8</td></tr> <tr><td>1982</td><td>11</td></tr> <tr><td>1985</td><td>12</td></tr> <tr><td>1988</td><td>13</td></tr> <tr><td>1991</td><td>21</td></tr> <tr><td>1994</td><td>15</td></tr> <tr><td>1997</td><td>26</td></tr> <tr><td>2000</td><td>22</td></tr> <tr><td>2003</td><td>20</td></tr> <tr><td>2006</td><td>25</td></tr> <tr><td>2009</td><td>11</td></tr> </tbody> </table>	Year	Number of forest fires (thousands)	1961	2	1964	2	1967	2	1970	3	1973	4	1976	4	1979	8	1982	11	1985	12	1988	13	1991	21	1994	15	1997	26	2000	22	2003	20	2006	25	2009	11
Year	Number of forest fires (thousands)																																					
1961	2																																					
1964	2																																					
1967	2																																					
1970	3																																					
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1979	8																																					
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2009	11																																					

**Cultural**

**Entertainment**

<p>Recreation and community activities</p>	<p>Number of visitors to protected areas</p> <p>Period: 1976-2009</p> <p>Units: Visitors to protected areas</p> <p>Source: Europac (2010)</p>	<table border="1"> <caption>Millions of visitors</caption> <thead> <tr> <th>Year</th> <th>Millions of visitors</th> </tr> </thead> <tbody> <tr><td>1976</td><td>4</td></tr> <tr><td>1979</td><td>6</td></tr> <tr><td>1982</td><td>8</td></tr> <tr><td>1985</td><td>10</td></tr> <tr><td>1988</td><td>12</td></tr> <tr><td>1991</td><td>14</td></tr> <tr><td>1994</td><td>16</td></tr> <tr><td>1997</td><td>18</td></tr> <tr><td>2000</td><td>20</td></tr> <tr><td>2003</td><td>21</td></tr> <tr><td>2006</td><td>22</td></tr> <tr><td>2009</td><td>25</td></tr> </tbody> </table>	Year	Millions of visitors	1976	4	1979	6	1982	8	1985	10	1988	12	1991	14	1994	16	1997	18	2000	20	2003	21	2006	22	2009	25
Year	Millions of visitors																											
1976	4																											
1979	6																											
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2000	20																											
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**Information & knowledge**

<p>Local ecological knowledge</p>	<p>Number of sheep in transhumance</p> <p>Period: 1961-2009</p> <p>Units: number of sheep</p> <p>Source: Spanish Ministry of Agriculture</p>	<table border="1"> <caption>Number of sheep (x100000)</caption> <thead> <tr> <th>Year</th> <th>Number of sheep (x100000)</th> </tr> </thead> <tbody> <tr><td>1961</td><td>14</td></tr> <tr><td>1964</td><td>14</td></tr> <tr><td>1967</td><td>14</td></tr> <tr><td>1970</td><td>14</td></tr> <tr><td>1973</td><td>14</td></tr> <tr><td>1976</td><td>14</td></tr> <tr><td>1979</td><td>14</td></tr> <tr><td>1982</td><td>14</td></tr> <tr><td>1985</td><td>14</td></tr> <tr><td>1988</td><td>14</td></tr> <tr><td>1991</td><td>14</td></tr> <tr><td>1994</td><td>14</td></tr> <tr><td>1997</td><td>14</td></tr> <tr><td>2000</td><td>12</td></tr> <tr><td>2003</td><td>10</td></tr> <tr><td>2006</td><td>8</td></tr> <tr><td>2009</td><td>6</td></tr> </tbody> </table>	Year	Number of sheep (x100000)	1961	14	1964	14	1967	14	1970	14	1973	14	1976	14	1979	14	1982	14	1985	14	1988	14	1991	14	1994	14	1997	14	2000	12	2003	10	2006	8	2009	6
Year	Number of sheep (x100000)																																					
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1964	14																																					
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## REFERENCES

Europac (2010) Anuario EUROPARC-España del estado de los espacios naturales protegidos 2010. FUNGOBE, Madrid 104.

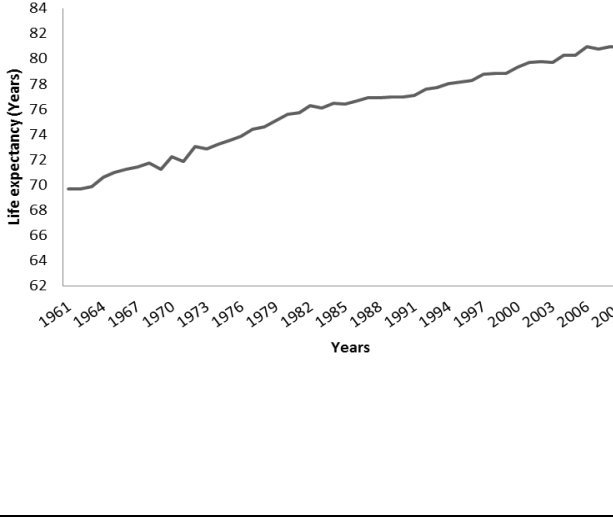
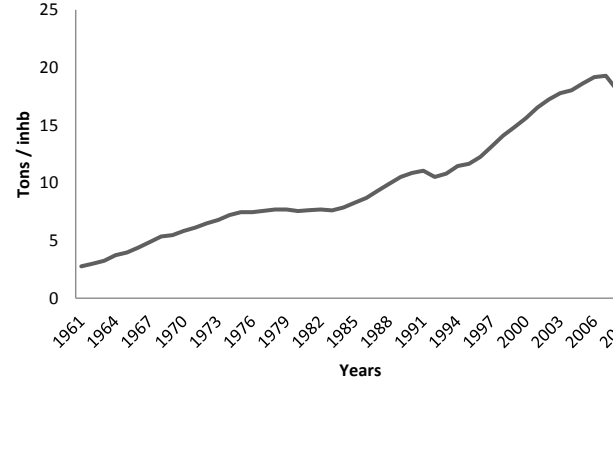
Faostat (2011) Food and Agriculture Organization of the United Nations. Statistical division. Available online. Visited November 2011. <http://faostat.fao.org>.

Spanish Ministry of Agriculture Food and Environment (2011) de, A. estadística. Perfil ambiental de España. Visited November 2011.  
<http://www.magrama.gob.es/es/estadistica/temas/default.aspx>.

Insurance Compensation Consortium (2011) Visited November 2011.  
<http://www.conorseguros.es/web/guest/i>.

World Bank (2011) World Bank data by country. Visited November 2011.  
<http://data.worldbank.org/country/spain>.

**Table A1.3.** Description of human wellbeing indicators and their evolution in the following five dimensions: material, health, security, freedom and social relations.

Human wellbeing	Indicator description	Indicator evolution																																				
<b>Health / Physical</b>																																						
Life expectancy at birth	<p>Average numbers of years a newborn child would live if the current mortality patterns remained the same</p> <p>Period: 1961-2010</p> <p>Units: years</p> <p>Source: World Bank (2011)</p>	 <table border="1"> <caption>Approximate data for Life expectancy (Years)</caption> <thead> <tr> <th>Year</th> <th>Life expectancy (Years)</th> </tr> </thead> <tbody> <tr><td>1961</td><td>70</td></tr> <tr><td>1964</td><td>71</td></tr> <tr><td>1967</td><td>72</td></tr> <tr><td>1970</td><td>73</td></tr> <tr><td>1973</td><td>74</td></tr> <tr><td>1976</td><td>75</td></tr> <tr><td>1979</td><td>76</td></tr> <tr><td>1982</td><td>77</td></tr> <tr><td>1985</td><td>78</td></tr> <tr><td>1988</td><td>79</td></tr> <tr><td>1991</td><td>80</td></tr> <tr><td>1994</td><td>80</td></tr> <tr><td>1997</td><td>80</td></tr> <tr><td>2000</td><td>80</td></tr> <tr><td>2003</td><td>80</td></tr> <tr><td>2006</td><td>81</td></tr> <tr><td>2009</td><td>81</td></tr> </tbody> </table>	Year	Life expectancy (Years)	1961	70	1964	71	1967	72	1970	73	1973	74	1976	75	1979	76	1982	77	1985	78	1988	79	1991	80	1994	80	1997	80	2000	80	2003	80	2006	81	2009	81
Year	Life expectancy (Years)																																					
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2003	80																																					
2006	81																																					
2009	81																																					
<b>Material / Access to goods</b>																																						
Domestic material consumption	<p>Physical materials that are mobilized each year to support an economy</p> <p>Period: 1961-2010</p> <p>Units: Ton per inhabitant</p> <p>Source: Carpintero (2005)</p>	 <table border="1"> <caption>Approximate data for Domestic material consumption (Tons / inhab)</caption> <thead> <tr> <th>Year</th> <th>Tons / inhab</th> </tr> </thead> <tbody> <tr><td>1961</td><td>3</td></tr> <tr><td>1964</td><td>4</td></tr> <tr><td>1967</td><td>5</td></tr> <tr><td>1970</td><td>6</td></tr> <tr><td>1973</td><td>7</td></tr> <tr><td>1976</td><td>8</td></tr> <tr><td>1979</td><td>8</td></tr> <tr><td>1982</td><td>8</td></tr> <tr><td>1985</td><td>9</td></tr> <tr><td>1988</td><td>10</td></tr> <tr><td>1991</td><td>11</td></tr> <tr><td>1994</td><td>11</td></tr> <tr><td>1997</td><td>12</td></tr> <tr><td>2000</td><td>14</td></tr> <tr><td>2003</td><td>16</td></tr> <tr><td>2006</td><td>18</td></tr> <tr><td>2009</td><td>14</td></tr> </tbody> </table>	Year	Tons / inhab	1961	3	1964	4	1967	5	1970	6	1973	7	1976	8	1979	8	1982	8	1985	9	1988	10	1991	11	1994	11	1997	12	2000	14	2003	16	2006	18	2009	14
Year	Tons / inhab																																					
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2006	18																																					
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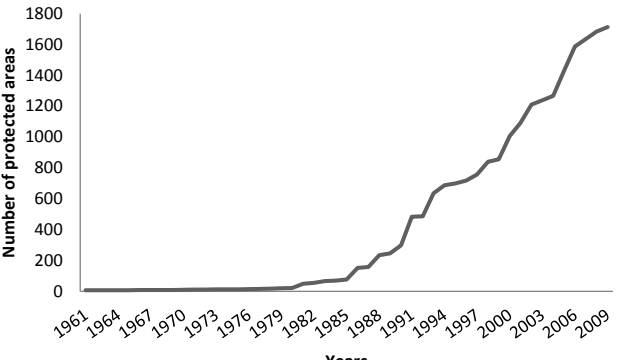
## REFERENCES

Carpintero, O. (2005) El metabolismo de la economía española. Recursos naturales y huella ecológica (1955-2000). Fundación César Manrique.

World Bank (2011) World Bank data by country. Visited November 2011.

<http://data.worldbank.org/country/spain>.

**Table A1.4.** Description of indicators of response options and their evolution in a Spanish institution dealing with environmental issues.

Response options	Indicator description	Indicator evolution																																				
<b>Biodiversity conservation</b>																																						
Number of protected areas	Total number of protected areas declared  Period: 1962-2010  Units: number of protected areas  Source: Spanish Ministry of Agriculture Food and Environment (2011)	 <table border="1"> <caption>Estimated data from the line graph</caption> <thead> <tr> <th>Year</th> <th>Number of protected areas</th> </tr> </thead> <tbody> <tr><td>1961</td><td>0</td></tr> <tr><td>1964</td><td>0</td></tr> <tr><td>1967</td><td>0</td></tr> <tr><td>1970</td><td>0</td></tr> <tr><td>1973</td><td>0</td></tr> <tr><td>1976</td><td>0</td></tr> <tr><td>1979</td><td>0</td></tr> <tr><td>1982</td><td>10</td></tr> <tr><td>1985</td><td>50</td></tr> <tr><td>1988</td><td>150</td></tr> <tr><td>1991</td><td>300</td></tr> <tr><td>1994</td><td>600</td></tr> <tr><td>1997</td><td>750</td></tr> <tr><td>2000</td><td>850</td></tr> <tr><td>2003</td><td>1200</td></tr> <tr><td>2006</td><td>1600</td></tr> <tr><td>2009</td><td>1700</td></tr> </tbody> </table>	Year	Number of protected areas	1961	0	1964	0	1967	0	1970	0	1973	0	1976	0	1979	0	1982	10	1985	50	1988	150	1991	300	1994	600	1997	750	2000	850	2003	1200	2006	1600	2009	1700
Year	Number of protected areas																																					
1961	0																																					
1964	0																																					
1967	0																																					
1970	0																																					
1973	0																																					
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2009	1700																																					

## REFERENCES

Spanish Ministry of Agriculture Food and Environment (2011) Anuario de estadística.

Perfil ambiental de España. Visited November 2011.

<http://www.magrama.gob.es/es/estadistica/temas/default.aspx>.



**Table A1.5.** Description of driver indicators that indirectly affect biodiversity and ecosystems in Spain and their evolution.

Drivers	Indicator description	Indicator evolution
<b>Economic</b>		
Total GDP	Gross domestic product  Period: 1961-2008  Units: Millions of \$ PPP  Source: World Bank (2011)	
<b>Demographic</b>		
Population density	Human population density  Period: 1961-2010  Units: Persons per squared kilometer  Source: World Bank (2011)	
<b>Scientific and technological</b>		
Investments in R&D programs	Investment in R&D programs  Period: 1967-2009  Units: % (from GDP)  Source: Spanish National Statistical Institute (2011)	

## REFERENCES


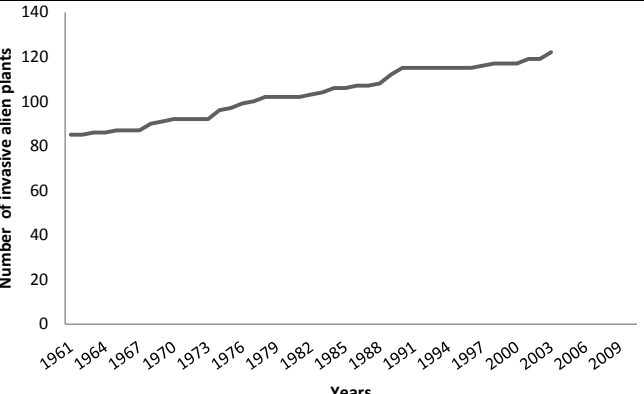
Spanish National Statistical Institute. Visited November 2011. <http://www.ine.es>.

World Bank (2011) World Bank data by country. Visited November 2011.

<http://data.worldbank.org/country/spain>.

**Table A1.6.** Description of pressure indicators that directly affect biodiversity and ecosystems in Spain and their evolution.

Pressures	Indicator description	Indicator evolution
<b>Land use change</b>		
Urbanization	<p>Number of initiated houses</p> <p>Period: 1970-2009</p> <p>Units: Thousands of initiated houses</p> <p>Source: Spanish National Statistical Institute (2011)</p>	
<b>Overexploitation / Biotic materials</b>		
Species extracted	<p>Captures of salmons in Spanish rivers</p> <p>Period: 1961-2005</p> <p>Units: Millions of tons</p> <p>Source: Sport Fishing Groups (2011)</p>	
<b>Over exploitation / Abiotic materials</b>		
Groundwater consumption	<p>Groundwater extracted for irrigation</p> <p>Period: 1961-2004</p> <p>Units: Hectometers</p> <p>Source: Spanish Ministry of Agriculture Food and Environment (2011)</p>	
<b>Pollution</b>		

Pollution	<p>Total CO<sub>2</sub> emissions</p> <p>Period: 1961-2010</p> <p>Units: Millions of tons</p> <p>Source: Carbon Dioxide Information Analysis Center (2011)</p>	
<b>Invasive alien species</b>		
Invasive alien Species	<p>Number of invasive alien plants</p> <p>Period: 1961-2005</p> <p>Units: Number of invasive alien plants</p> <p>Source: Sanz et al. (2004)</p>	

## REFERENCES

Carbon Dioxide Information Analysis Center (2011) Visited November 2011.

<http://cdiac.ornl.gov>.

Sanz Elorza, M., Sanchez, E. D. and Sobrino Vesperina, E. (2004) Atlas de las plantas alóctonas invasoras en España. Dirección General para la Biodiversidad, Madrid. 384 p.

Spanish National Statistical Institute. Visited November 2011. <http://www.ine.es>.

Spanish Ministry of Agriculture Food and Environment (2011) Anuario de estadística.

Perfil ambiental de España. Visited November 2011.

<http://www.magrama.gob.es/es/estadistica/temas/default.aspx>.

Sport Fishing Groups (2011) Visited November 2011.

<http://www.vadeando.com/inicio/>.