



MEETING BETWEEN A DELEGATION FROM THE KOREAN PARLIAMENTARY LEAGUE ON CHILDREN,  
POPULATION AND ENVIRONMENT WITH THE REPUBLIC OF KOREA EMBASSY IN ITALY AND THE ITALIAN  
NATIONAL INSTITUTE FOR ENVIRONMENTAL PROTECTION AND RESEARCH

NOVEMBER 5TH, 2015

ISPRA, VIA VITALIANO BRANCATI 48, ROME

# FOCUS ON THE RELATIONSHIPS BETWEEN AGRICULTURE, FORESTRY AND NATURE CONSERVATION IN ITALY

LORENZO CICCARESE  
NATURE CONSERVATION DPT., ISPRA  
[lorenzo.ciccarese@isprambiente.it](mailto:lorenzo.ciccarese@isprambiente.it)





**Total land:** 301,340 sq km

**Population:** 61,855,120 (July 2015 est.)

**Urbanization:**

- urban population: 69% of total population (2015)
- rate of urbanization: 0.39% annual rate of change (2010-15 est.)

**GDP:** \$2.148 trillion (2014)

**GDP - per capita (PPP):** \$35,500 (2014)

**GDP - composition, by sector of origin:** agriculture: 2.2%; industry: 23.9%; services: 73.9% (2014)

**Terrain:** mostly rugged and mountainous; some plains, coastal lowlands

**Elevation extremes:**

- lowest point: Mediterranean Sea 0 m;
- highest point: Mont Blanc (Monte Bianco) 4,810 m

**Coastline:** 7,600 km

**Land-use:**

- agricultural land: 47.1%
  - arable land 22.8%;
  - permanent crops 8.6%;
  - permanent pasture 15.7%
- forest: 31.4%
- other: 21.5%

**Irrigated land:** 39,510 sq km

**Total renewable water resources:** 191.3 cu km

**Freshwater withdrawal (domestic/industrial/agricultural):**

- total: 45.41 cu km/yr (24%/43%/34%)
- per capita: 789.8 cu m/yr

**Total land:** 99,720 sq km

**Population:** 49,115,196 (July 2015 est.)

**Urbanization:**

- urban population: 82.5% of total population (2015)
- rate of urbanization: 0.66% annual rate of change (2010-15 est.)

**GDP:** \$1.781 trillion (2014)

**GDP - per capita (PPP):** \$35,300 (2014)

**GDP - composition, by sector of origin:** agriculture: 2.3%; industry: 38.3.9%; services: 49.4% (2014)

**Terrain:** mostly hills and mountains; wide coastal plains in west and south

**Elevation extremes:**

- lowest point: Sea of Japan 0 m
- highest point: Halla-san 1,950 m

**Coastline:** 2,413 km

**Land-use:**

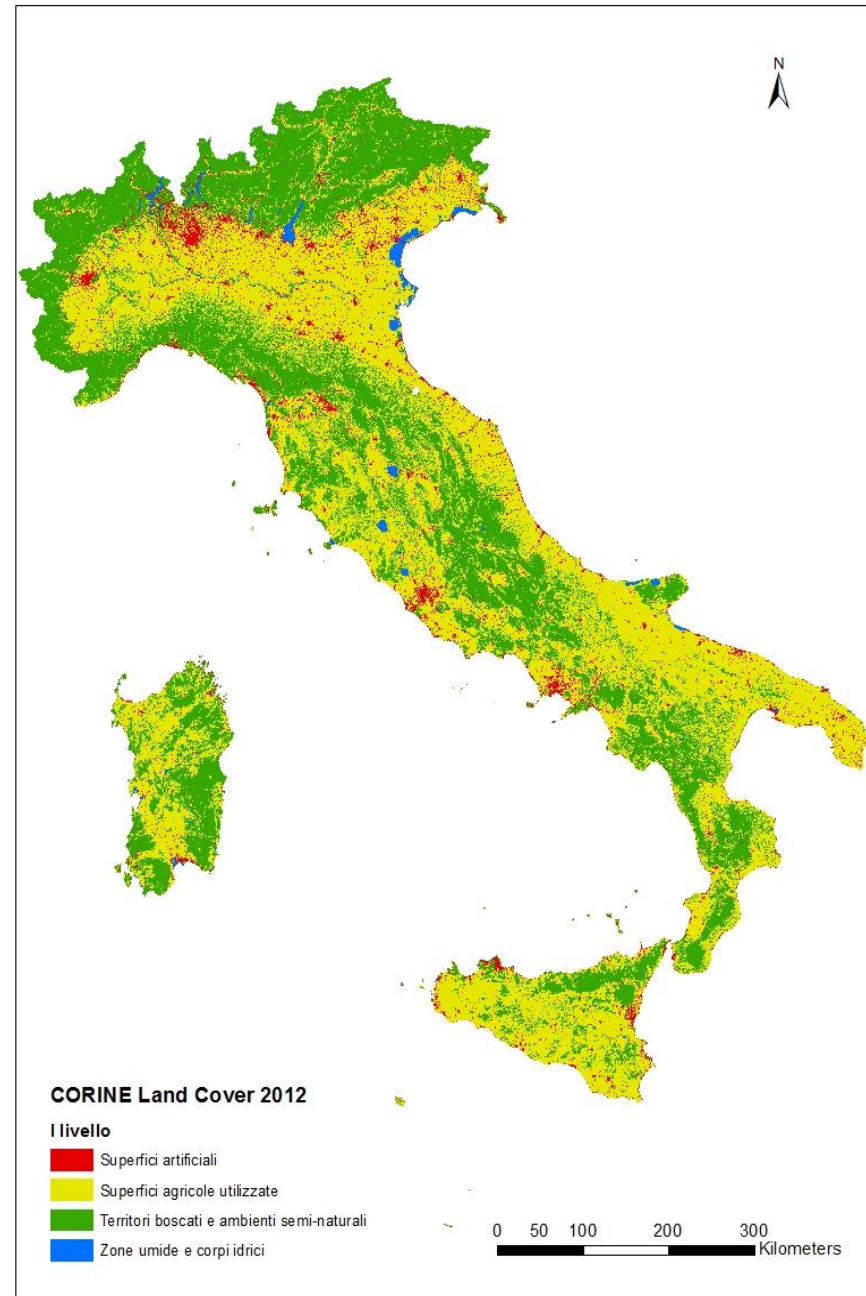
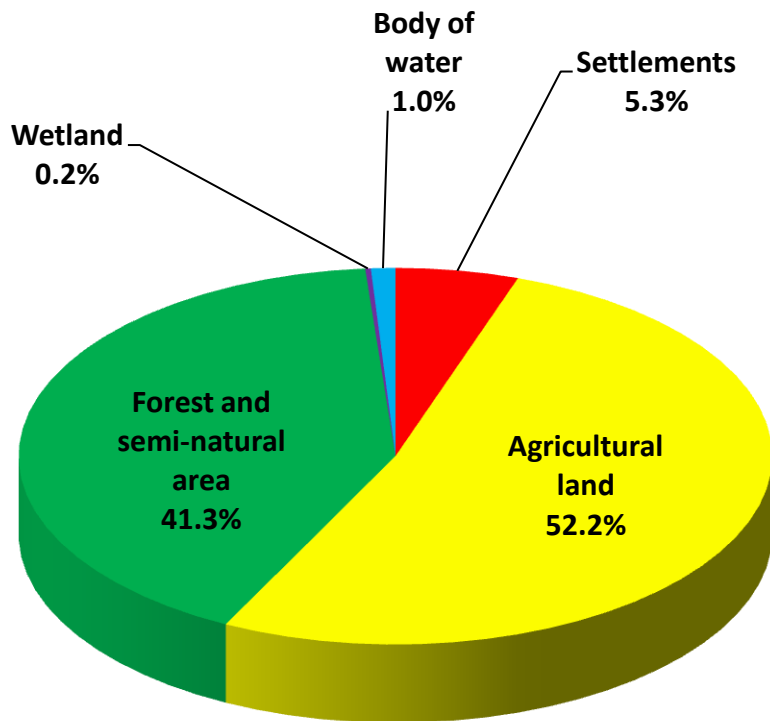
- agricultural land: 18.1%:
  - arable land 15.3%;
  - permanent crops 2.2%;
  - permanent pasture 0.6%;
- forest: 63.9%;
- other: 18%

**Irrigated land:** 8,804 sq km

**Total renewable water resources:** 69.7 cu km

**Freshwater withdrawal (domestic/industrial/agricultural):**

- total: 25.47 cu km/yr (26%/12%/62%)
- per capita: 548.7 cu m/yr





**Total land:** 301,340 sq km

**Population:** 61,855,120 (July 2015 est.)

**Urbanization:**

- urban population: 69% of total population (2015)
- rate of urbanization: 0.39% annual rate of change (2010-15 est.)

**GDP:** \$2.148 trillion (2014)

**GDP - per capita (PPP):** \$35,500 (2014)

**GDP - composition, by sector of origin:** agriculture: 2.2%; industry: 23.9%; services: 73.9% (2014)

**Terrain:** mostly rugged and mountainous; some plains, coastal lowlands

**Elevation extremes:**

- lowest point: Mediterranean Sea 0 m;
- highest point: Mont Blanc (Monte Bianco) 4,810 m

**Coastline:** 7,600 km

**Land-use:**

- agricultural land: 47.1%
  - arable land 22.8%;
  - permanent crops 8.6%;
  - permanent pasture 15.7%
- forest: 31.4%
- other: 21.5%

**Irrigated land:** 39,510 sq km

**Total renewable water resources:** 191.3 cu km

**Freshwater withdrawal (domestic/industrial/agricultural):**

total: 45.41 cu km/yr (24%/43%/34%)  
 per capita: 789.8 cu m/yr

**Total land:** 99,720 sq km

**Population:** 49,115,196 (July 2015 est.)

**Urbanization:**

- urban population: 82.5% of total population (2015)
- rate of urbanization: 0.66% annual rate of change (2010-15 est.)

**GDP:** \$1.781 trillion (2014)

**GDP - per capita (PPP):** \$35,300 (2014)

**GDP - composition, by sector of origin:** agriculture: 2.3%; industry: 38.3.9%; services: 49.4% (2014)

**Terrain:** mostly hills and mountains; wide coastal plains in west and south

**Elevation extremes:**

- lowest point: Sea of Japan 0 m
- highest point: Halla-san 1,950 m

**Coastline:** 2,413 km

**Land-use:**

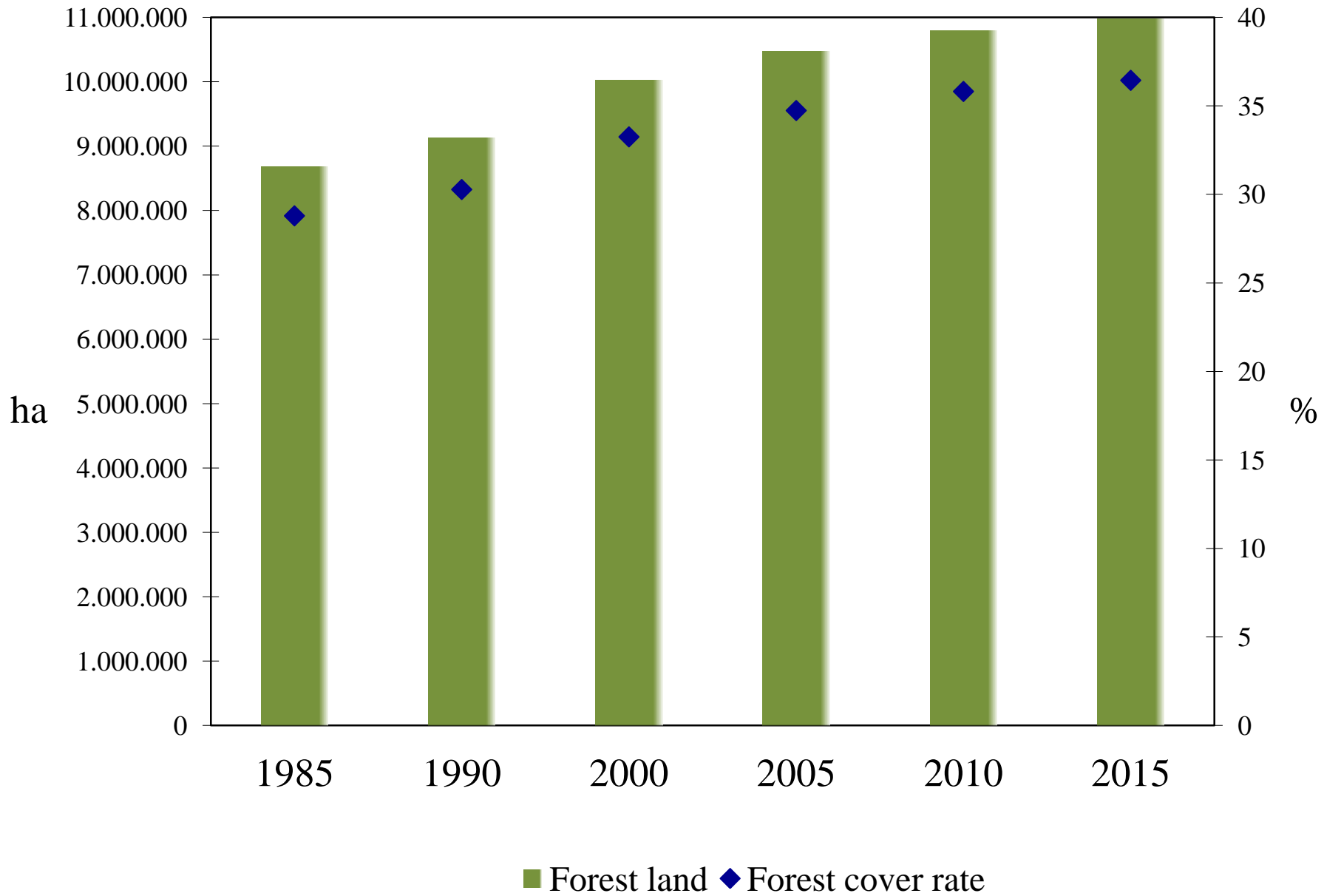
- agricultural land: 18.1%:
  - arable land 15.3%;
  - permanent crops 2.2%;
  - permanent pasture 0.6%;
- forest: 63.9%;
- other: 18%

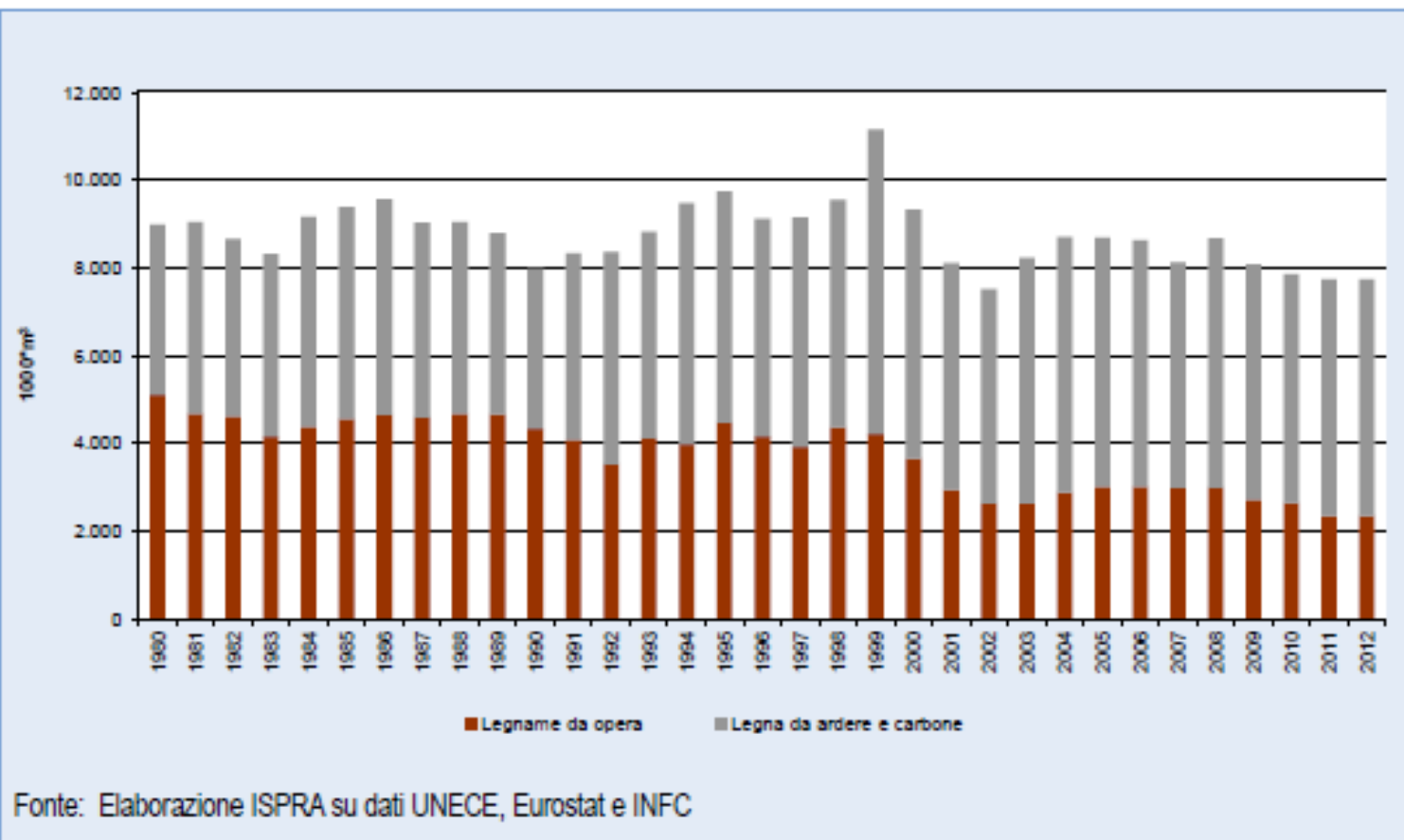
**Irrigated land:** 8,804 sq km

**Total renewable water resources:** 69.7 cu km

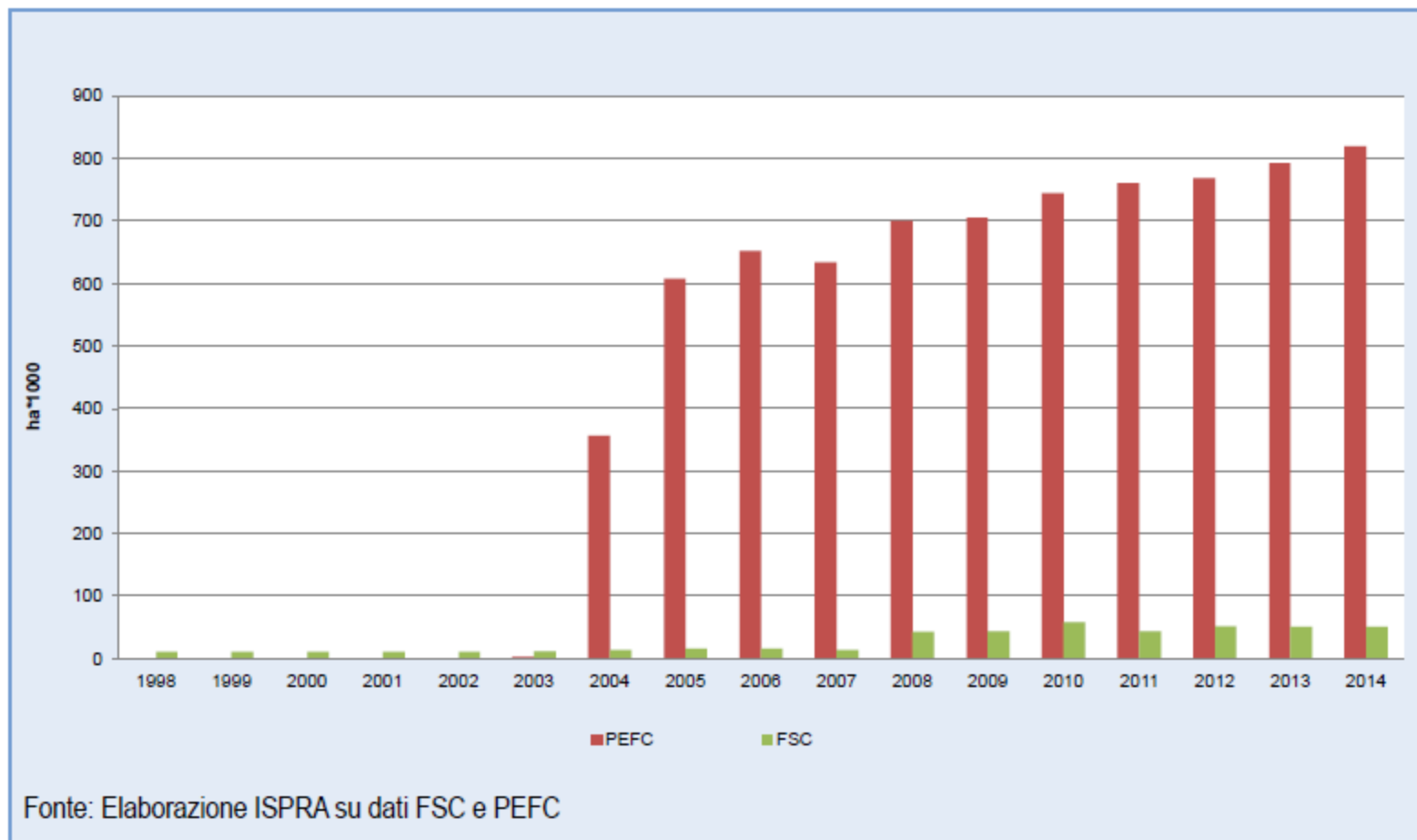
**Freshwater withdrawal (domestic/industrial/agricultural):**

total: 25.47 cu km/yr (26%/12%/62%)  
 per capita: 548.7 cu m/yr

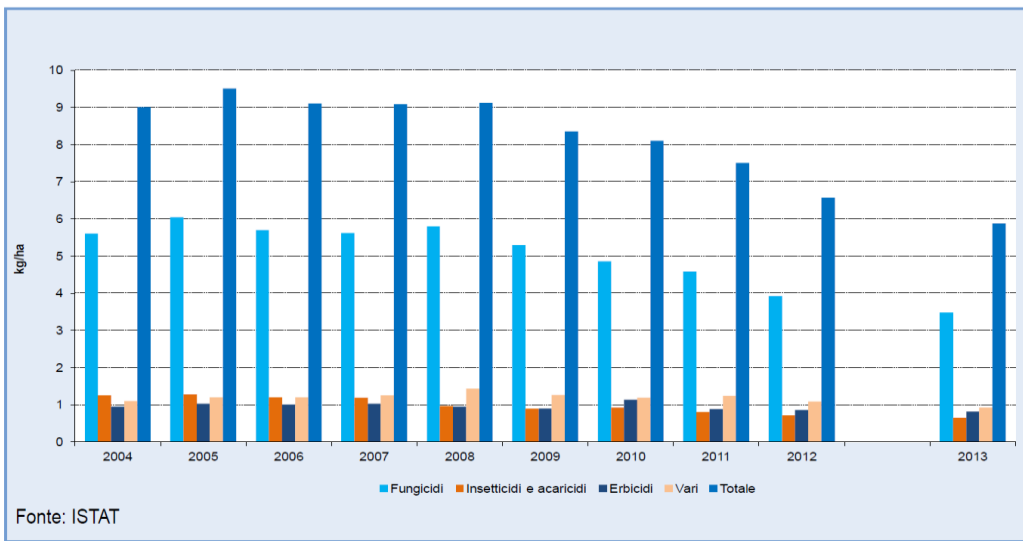




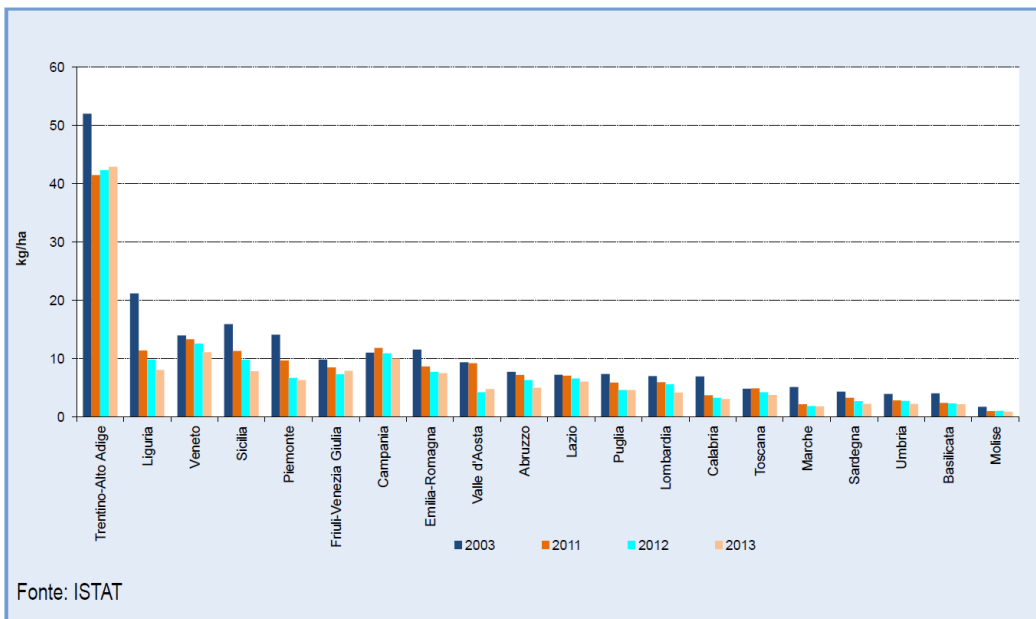
**Figura 1.24: Evoluzione dei prelievi di legname da opera e legna per combustibili**



**Figura 1.25: Superfici forestali certificate in Italia secondo gli schemi PEFC e FSC**



**Figura 1.5: Principi attivi contenuti nei prodotti fitosanitari distribuiti per uso agricolo e per ettaro di superficie trattabile in chilogrammi**



**Figura 1.4: Principi attivi contenuti nei prodotti fitosanitari distribuiti per uso agricolo e per ettaro di superficie trattabile per regione in chilogrammi**



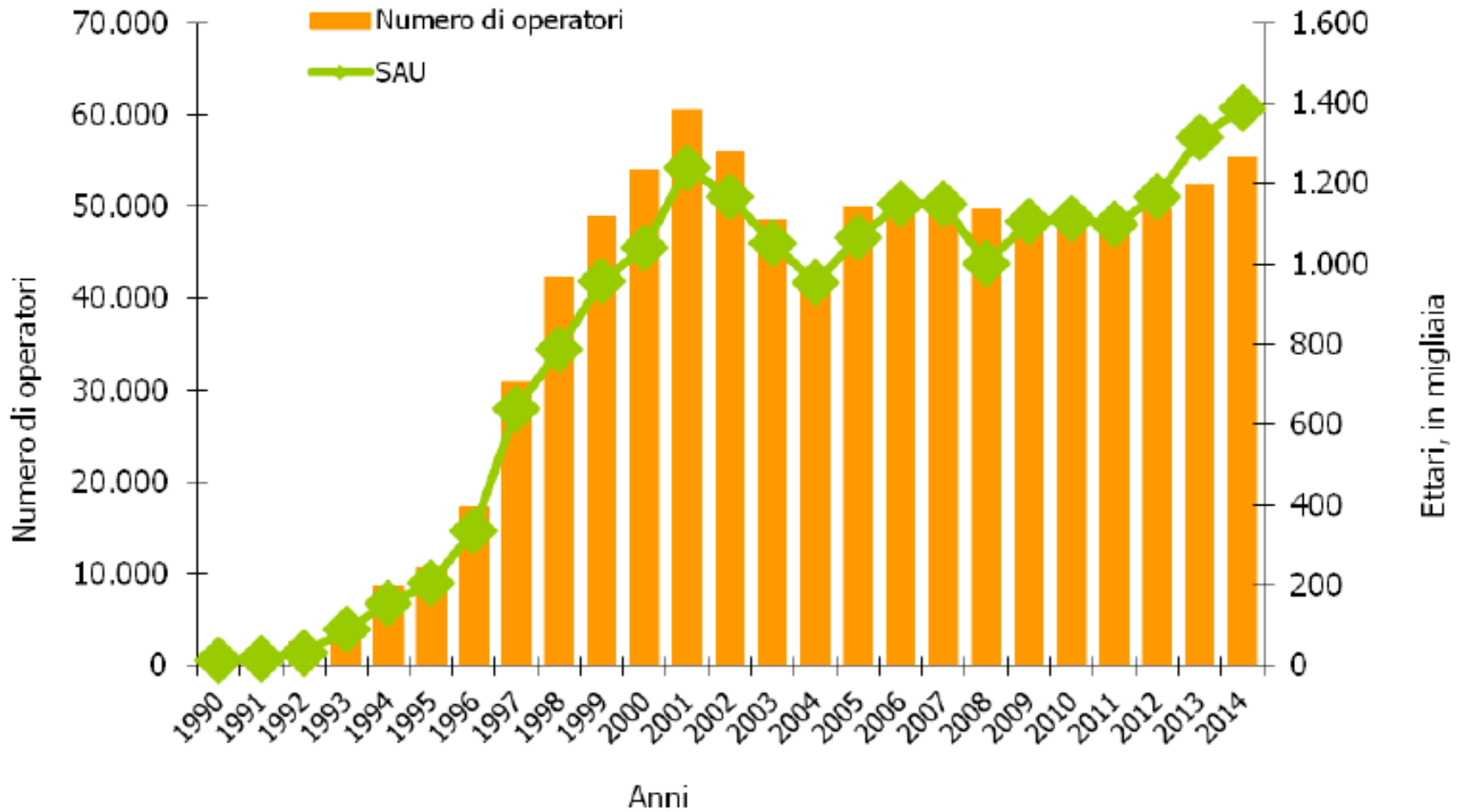


Figura 1.7: Livelli di contaminazione, acque superficiali (2012)

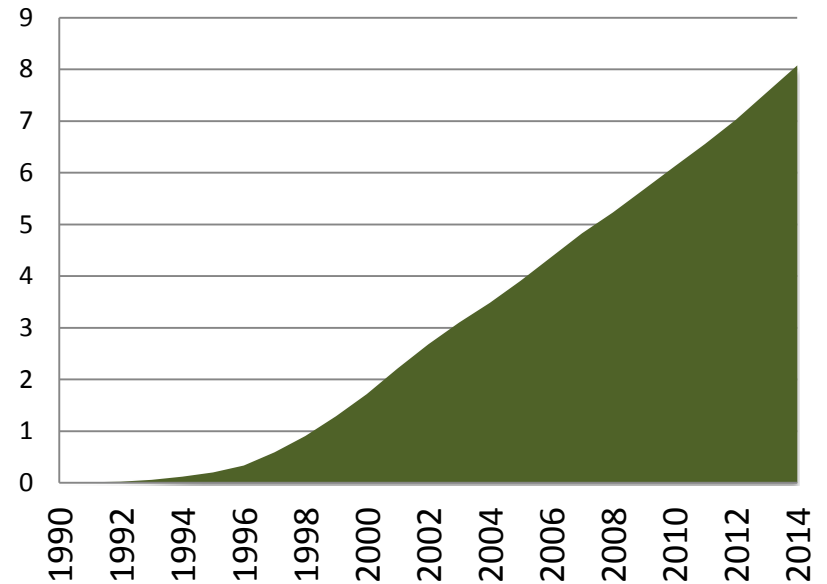
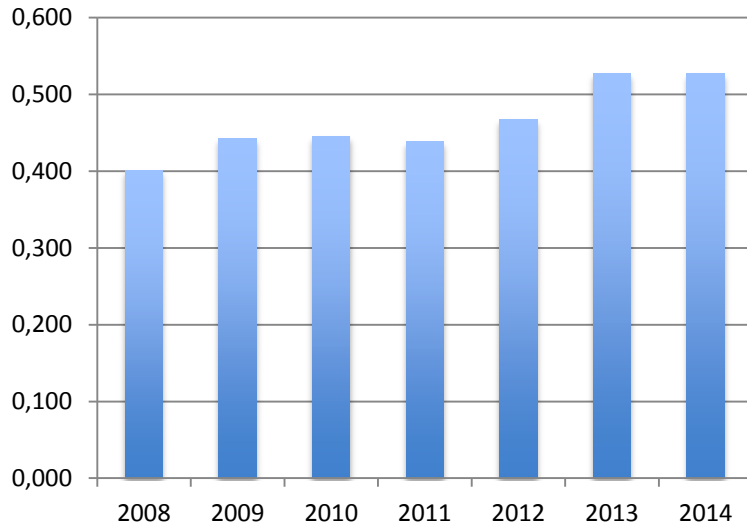


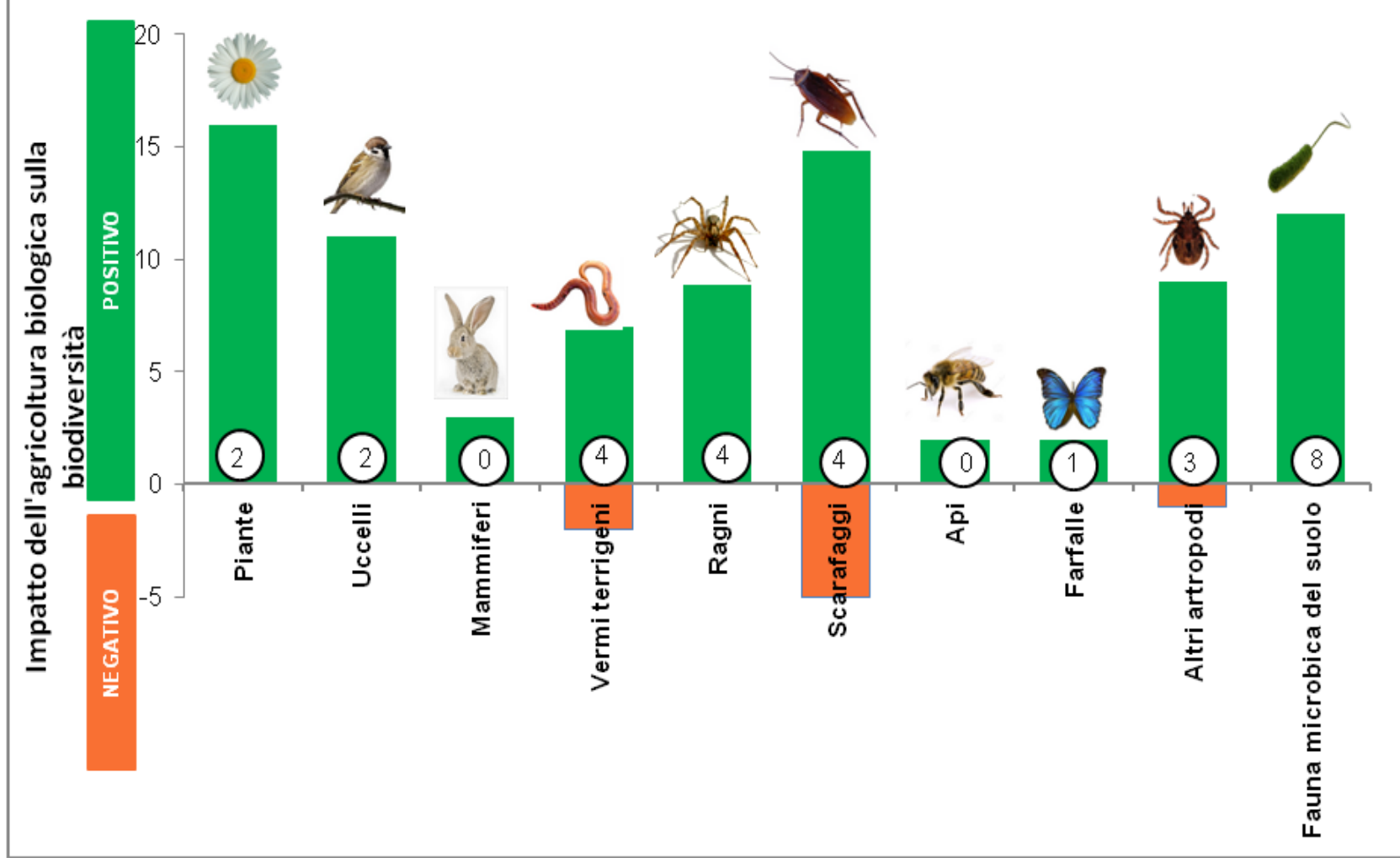
Figura 1.8: Livelli di contaminazione, acque sotterranee (2012)

# Area under organic farming management and number of farms in Italy (1990-2014)



**Annual (left) and cumulative (right) carbon sequestration in soils managed according to organic farming system in Italy (MtC)**







*Carta d'Italia di Sebastian Munster, 1550*

## **Animal species**

58.000 species

More than 9 percent of terrestrial fauna is endemic

## **Vascular plant species**

6.700 species

About 16 percent of total tracheophytes is endemic



## Threatened species

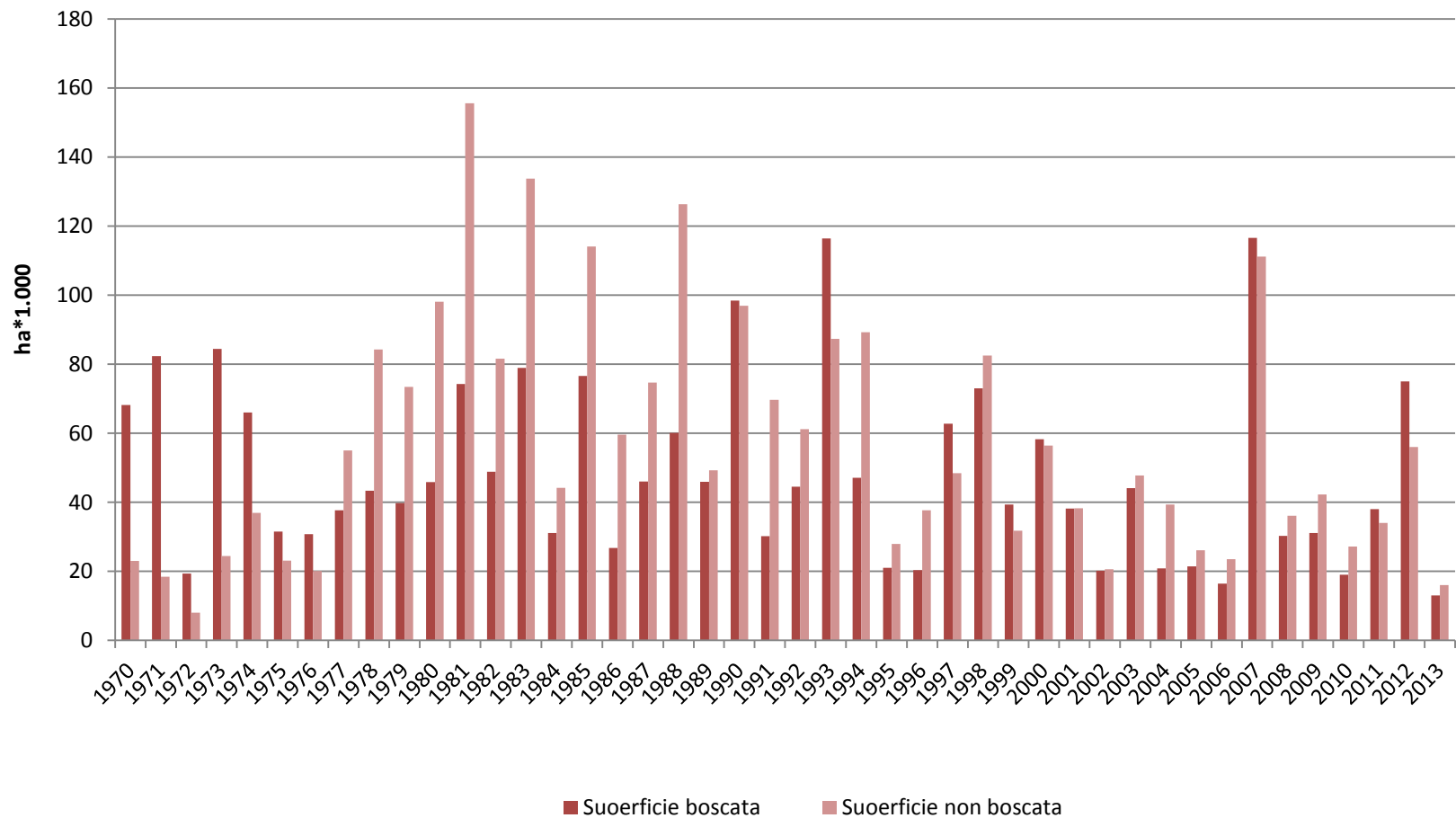
31 percent of Vertebrates (As a general rule the taxa linked to water like amphibians and fishes are more threatened than terrestrial taxa like Reptiles, Birds, and Mammals)  
15% of Tracheophytes and 40% of Bryophytes and Lichens

## Causes

Habitat destruction and degradation, contaminants and fragmentation, invasive alien species, overexploitation of resources and species, wildfires, climate change.



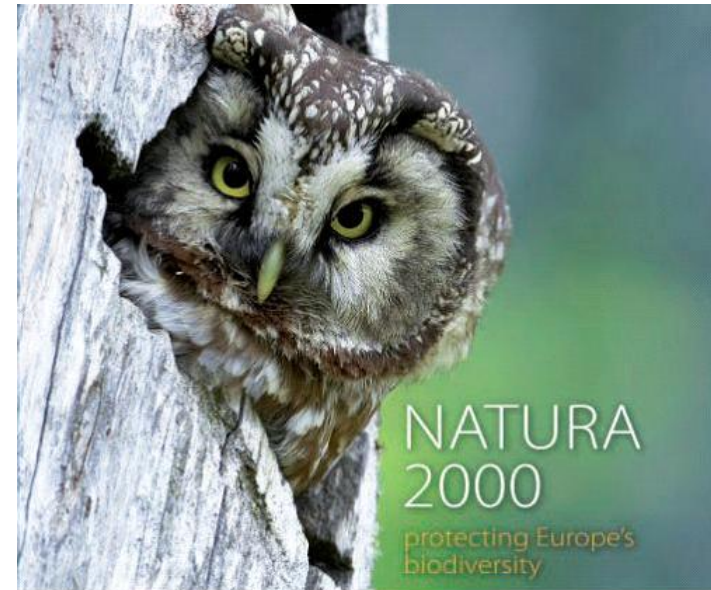
# WILDFIRES IN FOREST AND NON-FOREST AREAS IN ITALY (1970-2013)





# EU Biodiversity Policy

- protecting biodiversity has been made through the **Birds** and **Habitats** Directives, which are key policy instruments to achieve **favourable conservation status** (FCS) for the most important habitats and species.
- Special Protected Areas (SPAs) and Special Areas of Conservation (SACs) designated under the Birds and Habitats Directives, together form the **Natura 2000** network, which currently represents about a sixth of the total land area of the EU.
- The aim of the Natura 2000 network is to achieve and maintain or *restore* the most important European habitats and species to **favourable conservation status for all habitat and species** of community interest

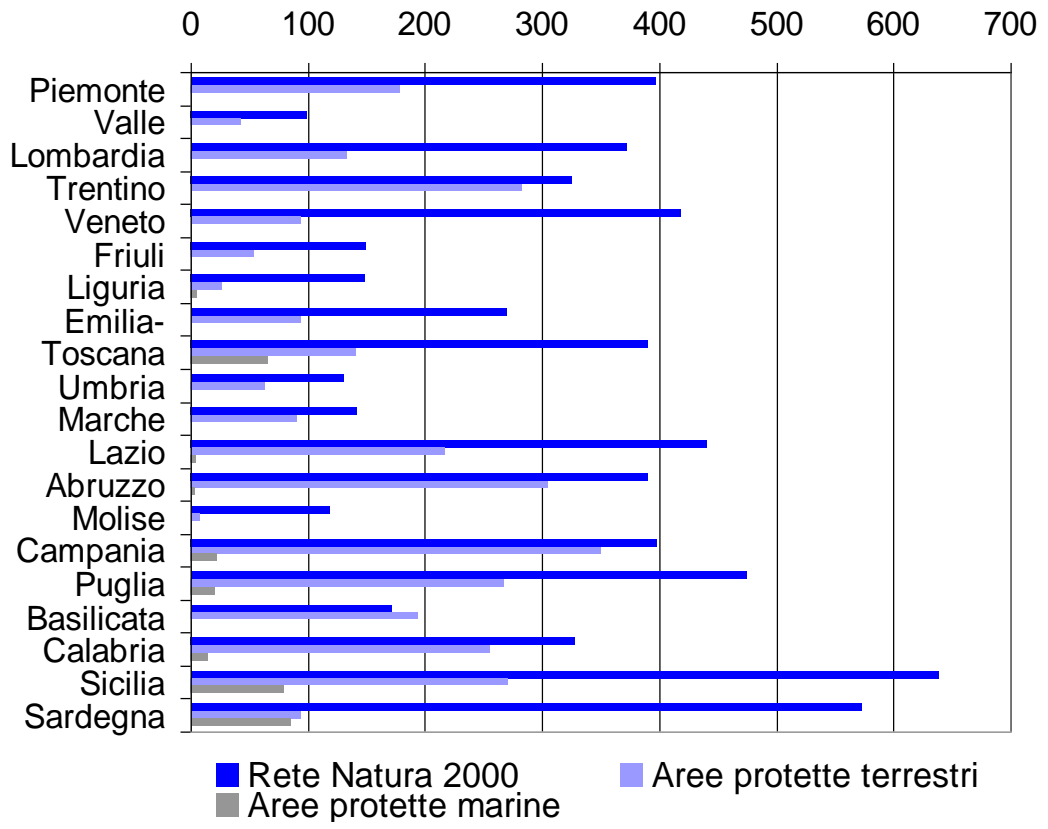




travel-images.com

Member State	Member State land area in km <sup>2</sup> (Europ. part)	Proportion European land area of Member State covered by :			Natura 2000 area data per EU Member State (in km <sup>2</sup> )*								
		SCI	SPA	Natura 2000	Terrestrial			Marine			Total (terrestrial + marine)		
					SCI	SPA	Natura 2000	SCI	SPA	Natura 2000	SCI	SPA	Natura 2000
<b>AT</b>	83,859	10.78%	12.10%	14.98%	9,042.89	10,150.79	12,559.48	-	-	-	9,042.89	10,150.79	12,559.48
<b>DE</b>	357,031	9.38%	11.27%	15.44%	33,477.83	40,224.35	55,142.12	20,940.28	19,727.77	25,604.31	54,418.11	59,952.12	80,746.43
<b>ES</b>	504,782	23.17%	19.98%	27.21%	116,940.74	100,853.28	137,365.09	10,431.87	2,980.12	10,637.32	127,372.61	103,833.41	148,002.41
<b>FR</b>	549,192	8.53%	7.89%	12.59%	46,873.50	43,354.71	69,127.41	27,861.07	35,555.86	41,680.43	74,734.57	78,910.58	110,807.84
<b>GR</b>	131,940	16.22%	20.94%	27.10%	21,398.28	27,622.20	35,761.28	6,679.59	1,905.18	7,185.77	28,077.87	29,527.38	42,947.05
<b>IT</b>	301,333	14.21%	13.31%	18.96%	42,818.31	40,095.04	57,137.06	5,595.99	4,010.23	6,704.04	48,414.30	44,105.27	63,841.10
<b>UK</b>	244,820	5.35%	6.54%	8.53%	13,090.40	16,002.63	20,883.77	67,100.91	11,556.75	74,082.86	80,191.31	27,559.39	94,966.63
<b>EU28</b>	<b>4,290,148</b>	<b>14.01%</b>	<b>12.51%</b>	<b>18.36%</b>	<b>601,176.55</b>	<b>536,840.19</b>	<b>787,767.37</b>	<b>210,454.13</b>	<b>130,761.77</b>	<b>251,564.67</b>	<b>811,630.69</b>	<b>667,601.96</b>	<b>1,039,332.05</b>

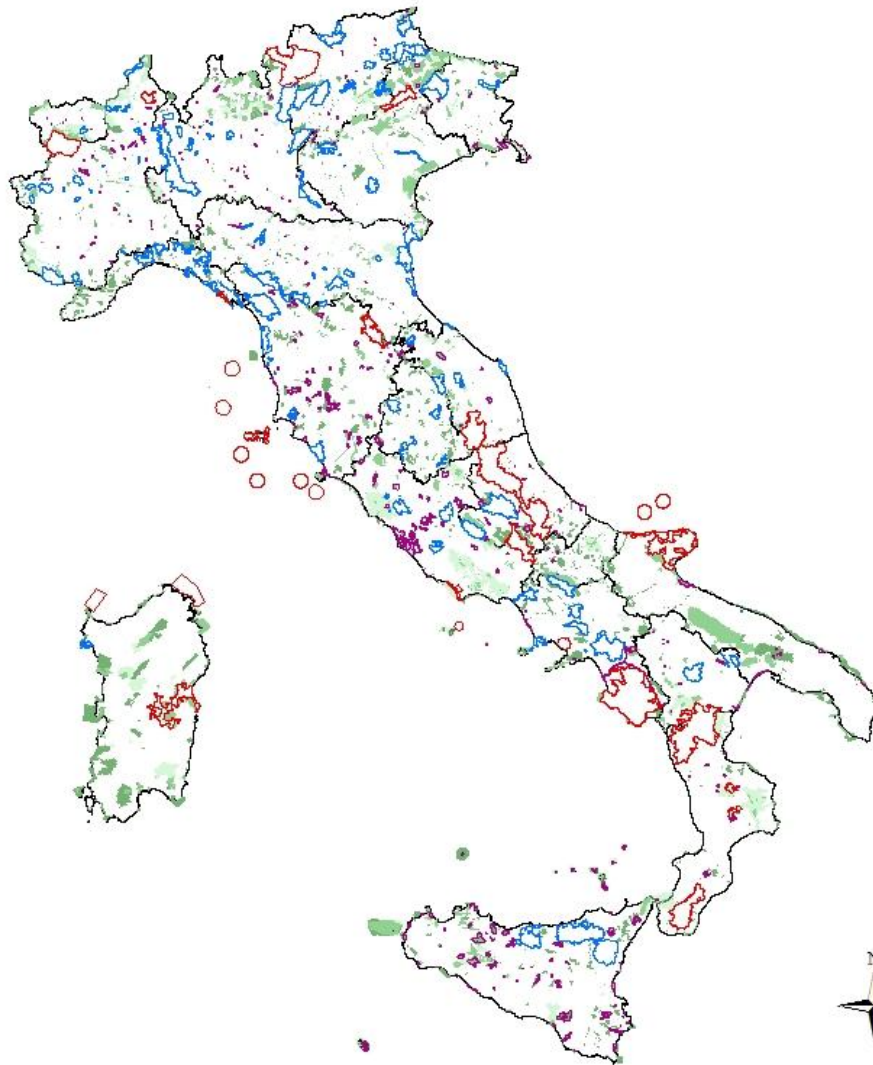




**PROTECTED AREAS**  
**ABOUT 20% OF LAND AREA IS**  
**UNDER RETE NATURA 2000**

**IN ADDITION ITALY CONTAINS**  
**27 MARINE PROTECTED**  
**AREAS AND 64 RAMSAR**  
**SITES.**





**Legenda**

- National Parks
- Regional Parks
- Regional Natural Reserves
- ZPS (Natura 2000)
- SIC (Natura 2000)

Regional borders







