Annex I-1
Climatic regions

The **Boreal** region comprises Finland, the central and northern parts of Sweden, Estonia except the coastal regions and some plots in northern and central Norway. The climate is mainly cold with a short vegetation period. In the northernmost parts the climate changes to arctic conditions. The Boreal region is dominated by *Picea abies* and *Pinus sylvestris*. In 2007, 14.9% of the plots of the European survey were located in the Boreal region.

The **Boreal (Temperate)** region covers most parts of southern Sweden and Norway, the whole of the Baltic countries Latvia and Lithuania, the coastal regions of Estonia and the whole of Belarus. This region contains a higher proportion of deciduous tree species, compared to the colder Boreal region. 13.6% of the assessed plots were in the Boreal (Temperate) region.

The **Atlantic (North)** region comprises the United Kingdom, Ireland, Denmark, the Netherlands, the southern coasts of Sweden and Norway, north-west Germany, northern Belgium and France. The climate is characterised by mild winters, a relatively uniform distribution of precipitation over the year and long transitional seasons. The forests consist of *Picea abies, Pinus sylvestris, Picea sitchensis, Quercus robur* and *Fagus sylvatica*. 4.4% of the plots were situated in this region.

The **Atlantic (South)** region comprises central and south-western France, the atlantic coast of Spain and the northern parts of Portugal. The climate is warm, with high precipitation in winter, but very little frost and snow. There is a higher proportion of oak species, dependent on warmer summers, than in the Atlantic (North) region. Also frequent are *Castanea sativa, Pinus pinaster, Pinus radiata* and *Pinis sylvestris.* 5.5% of the plots were located in this region.

The plots of the **Sub-Atlantic** region are located in Poland, the Czech Republic, the western parts of Slovakia, northern Austria and Switzerland, eastern and southern Germany, southern Belgium, central-eastern France, and the whole of Luxembourg. The climate is typically temperate and characterised by large temperature differences between summer and winter, with a gradient from the western parts to the eastern parts. If the whole region is considered, the forests are very heterogeneous, dominated by *Picea abies, Pinus sylvestris* and *Fagus sylvatica*. In this region 22.9% of all plots were located.

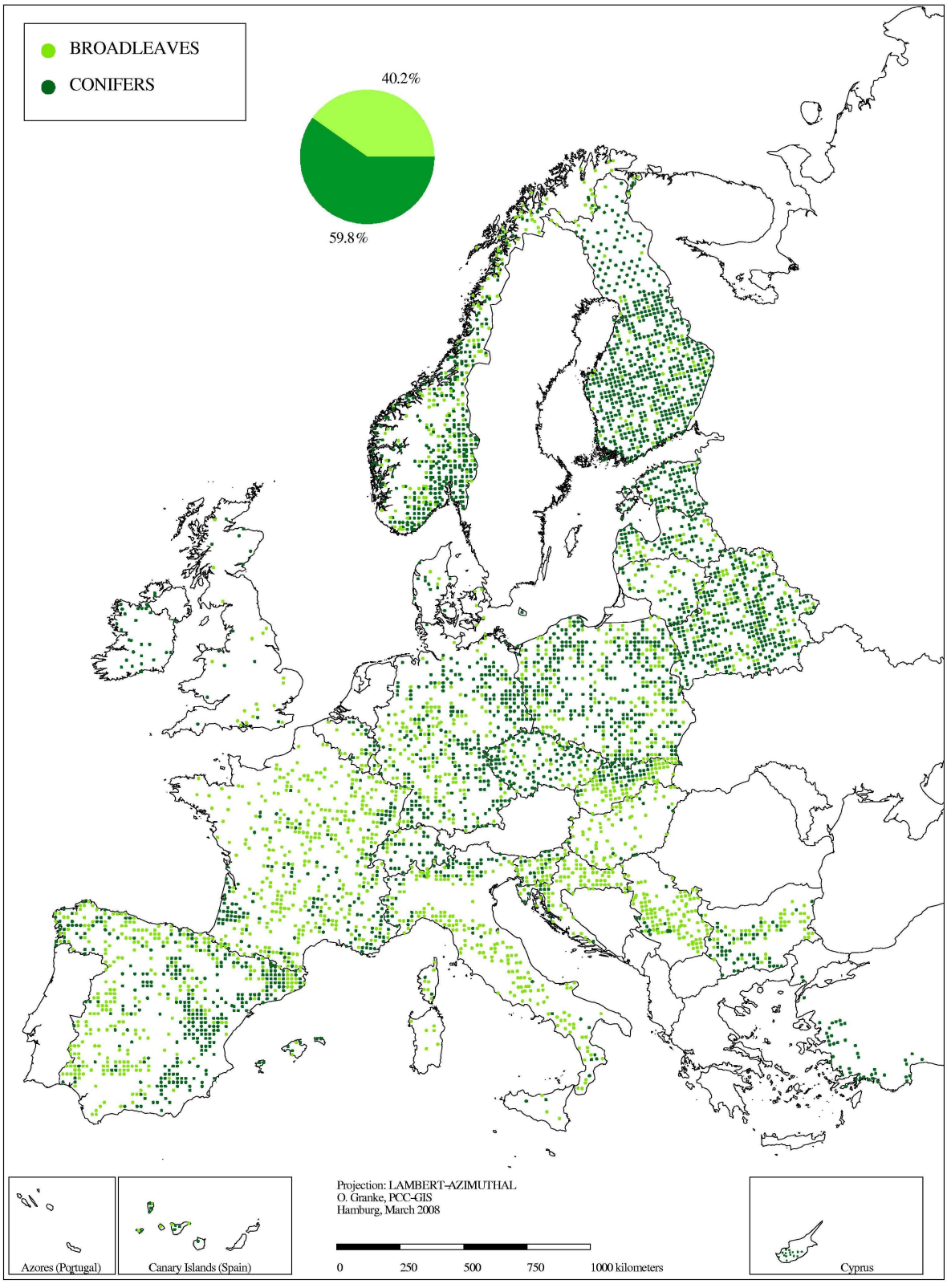
The **Continental** region consists of the Republic of Moldova, large parts of Romania, eastern and northern Bulgaria and nearly all Hungary. The climate is typically continental with warm and dry summers, and low temperatures in winter. The forests are characterised by oak species, *Fagus sylvatica, Robinia pseudoacacia, Carpinus betulus, Picea abies* and *Abies alba.* In 2007, 4.2% of the sample plots were located in this region.

The **Mountainous (South)** region comprises plots on several mountain ridges. They share steep climatic gradients and consequently complex geobotanical structures, depending on altitude and exposition. They comprise the Alpine system (Pyrenees, Alps, Tatras, Carpathians and the Balkan), the Appenin, the Vosges, and in Germany the Black Forest and the Bavarian/Bohemian Forests. The dominant species are *Picea abies, Fagus sylvatica, Larix decidua, Pinus nigra, Pinus sylvestris* and *Abies alba*. This climatic region comprises 10.3% of all sample plots.

The **Mountainous (North)** region was introduced to account for the peculiarities of the mountainous climate in northernmost Europe in comparison to that in the other parts of Europe. This region is located only in Norway. It is characterised by large seasonal variations in climate, but with a generally shorter vegetation period. The plots at lower altitudes on the Atlantic coast are influenced by the Gulf stream and have a more temperate climate. The most frequently occurring species are *Betula pubescens, Picea abies* and *Pinus sylvestris*. 6.6% of the sample plots were located in the Mountainous (North) region.

The Mediterranean region as a whole is divided in the **Mediterranean (Higher)** and **Mediterranean (Lower)** regions. The higher areas (7.7% of the plots) are situated between 400 m and ca. 1000 m altitude in Portugal, Spain, southern France, Italy, Slovenia, Croatia, Romania, Greece and Turkey with humid climate. The Mediterranean (Lower) regions (9.9% of the plots) cover Cyprus and lower parts of the countries mentioned above. The climate is characterised by hot and dry summers and frequent drought periods in summer. Both Mediterranean regions are dominated by *Pinus halepensis, Pinus nigra, Pinus pinaster, Quercus ilex, Quercus cerris* and *Quercus pubescens.*

Annex I-2
Braodleaves and conifers (2007)



Annex I-3
Species assessed (2007)

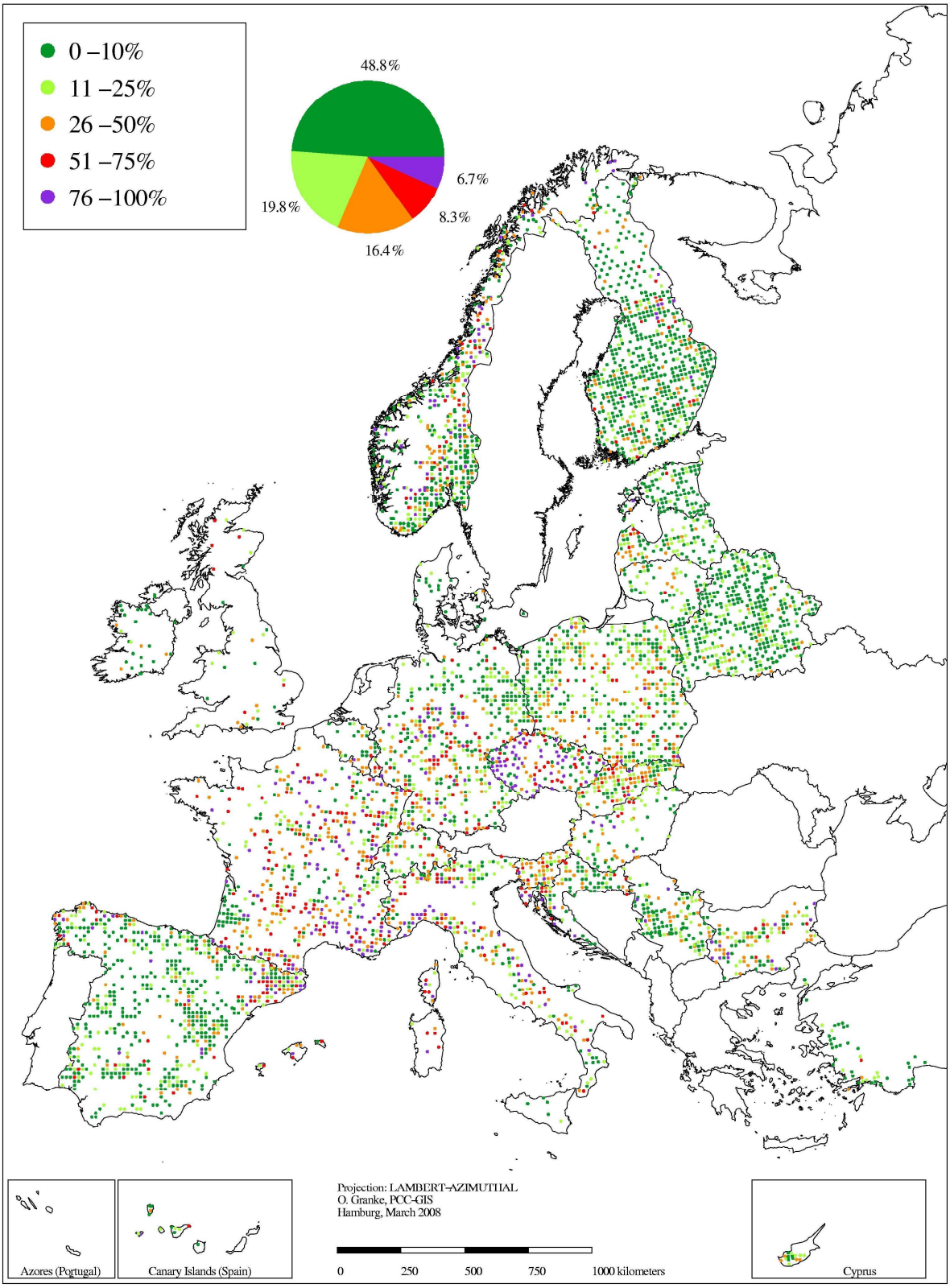
Species	Observed trees		Observed plots	
	Number	**%**	**Number**	**%**
Pinus sylvestris	29724	28.47	1672	18.48
Picea abies	15756	15.09	1123	12.41
Fagus sylvatica	8684	8.32	561	6.20
Quercus robur	4252	4.07	457	5.05
Betula pendula	4096	3.92	666	7.36
Quercus ilex	3801	3.64	221	2.44
Betula pubescens	3662	3.51	541	5.98
Quercus petraea	2566	2.46	288	3.18
Pinus nigra	2540	2.43	146	1.61
Pinus halepensis	2421	2.32	126	1.39
Pinus pinaster	2194	2.10	138	1.53
Quercus pubescens	1942	1.86	163	1.80
Quercus cerris	1689	1.62	146	1.61
Abies alba	1586	1.52	168	1.86
Alnus glutinosa	1576	1.51	163	1.80
Carpinus betulus	1238	1.19	183	2.02
Pinus brutia	1182	1.13	58	0.64
Castanea sativa	1087	1.04	129	1.43
Populus tremula	1030	0.99	231	2.55
Larix decidua	1025	0.98	151	1.67
Fraxinus excelsior	922	0.88	179	1.98
Eucalyptus spp.	870	0.83	45	0.50
Fagus moesiaca	869	0.83	51	0.56
Quercus pyrenaica	865	0.83	51	0.56
Quercus frainetto	746	0.71	55	0.61
Robinia pseudoacacia	660	0.63	67	0.74
Acer pseudoplatanus	592	0.57	157	1.74
Quercus suber	483	0.46	41	0.45
Picea sitchensis	463	0.44	26	0.29
Pinus pinea	454	0.43	31	0.34
Ostrya carpinifolia	385	0.37	60	0.66
Populus hybrides	385	0.37	20	0.22
Pseudotsuga menziesii	383	0.37	43	0.48
Quercus faginea	367	0.35	45	0.50
Pinus radiata	324	0.31	16	0.18
Juniperus thurifera	278	0.27	22	0.24
Alnus incana	249	0.24	39	0.43
Tilia cordata	225	0.22	65	0.72
Pinus contorta	205	0.20	12	0.13
Prunus avium	177	0.17	86	0.95

Species	Observed trees		Observed plots	
	Number	**%**	**Number**	**%**
Pinus uncinata	176	0.17	16	0.18
Fraxinus angustifolia	175	0.17	19	0.21
Olea europaea	157	0.15	13	0.14
Quercus rubra	155	0.15	24	0.27
Acer campestre	145	0.14	59	0.65
Fraxinus ornus	134	0.13	47	0.52
other broadleaves	133	0.13	31	0.34
Acer platanoides	117	0.11	43	0.48
Alnus cordata	87	0.08	4	0.04
Populus nigra	84	0.08	13	0.14
Larix kaempferi	82	0.08	11	0.12
Pinus cembra	82	0.08	9	0.10
Tilia platyphyllos	77	0.07	17	0.19
Pinus strobus	73	0.07	12	0.13
Sorbus aucuparia	58	0.06	23	0.25
Sorbus aria	51	0.05	31	0.34
Juniperus oxycedrus	47	0.05	16	0.18
Acer opalus	44	0.04	17	0.19
Juniperus communis	38	0.04	7	0.08
Populus alba	37	0.04	10	0.11
Ulmus glabra	35	0.03	19	0.21
Populus canescens	34	0.03	4	0.04
Cupressus sempervirens	34	0.03	5	0.06
Acer monspessulanum	27	0.03	10	0.11
Ulmus minor	27	0.03	12	0.13
Salix spp.	24	0.02	13	0.14
Cedrus brevifolia	24	0.02	1	0.01
Sorbus torminalis	23	0.02	20	0.22
Salix caprea	22	0.02	14	0.15
Juniperus phoenicea	22	0.02	9	0.10
Platanus orientalis	21	0.02	1	0.01
Buxus sempervirens	20	0.02	2	0.02
Quercus fruticosa	19	0.02	1	0.01
Quercus trojana	18	0.02	1	0.01
Juglans regia	17	0.02	7	0.08
Salix alba	17	0.02	7	0.08
Corylus avellana	11	0.01	8	0.09
Cedrus atlantica	10	0.01	2	0.02
Arbutus unedo	9	0.01	4	0.04
Ilex aquifolium	8	0.01	5	0.06
Pyrus communis	8	0.01	6	0.07
Cupressus lusitanica	8	0.01	1	0.01

Species	Observed trees		Observed plots	
	Number	**%**	**Number**	**%**
Carpinus orientalis	7	0.01	2	0.02
Sorbus domestica	7	0.01	6	0.07
Ulmus laevis	7	0.01	4	0.04
Phillyrea latifolia	6	0.01	2	0.02
Quercus rotundifolia	4	0.00	3	0.03
Cedrus deodara	4	0.00	1	0.01
Prunus serotina	3	0.00	1	0.01
Abies grandis	3	0.00	1	0.01
Malus domestica	2	0.00	1	0.01
Quercus coccifera	2	0.00	2	0.02
Salix fragilis	2	0.00	2	0.02
Ceratonia siliqua	2	0.00	1	0.01
Chamaecyparis lawsonia	2	0.00	1	0.01
Prunus padus	1	0.00	1	0.01
Salix cinerea	1	0.00	1	0.01
Salix eleagnos	1	0.00	1	0.01
Pistacia terebinthus	1	0.00	1	0.01
Picea omorika	1	0.00	1	0.01
All species	104399	100.00	9048	100.00

Annex I-4
Percentage of trees damaged (2007) [1)]

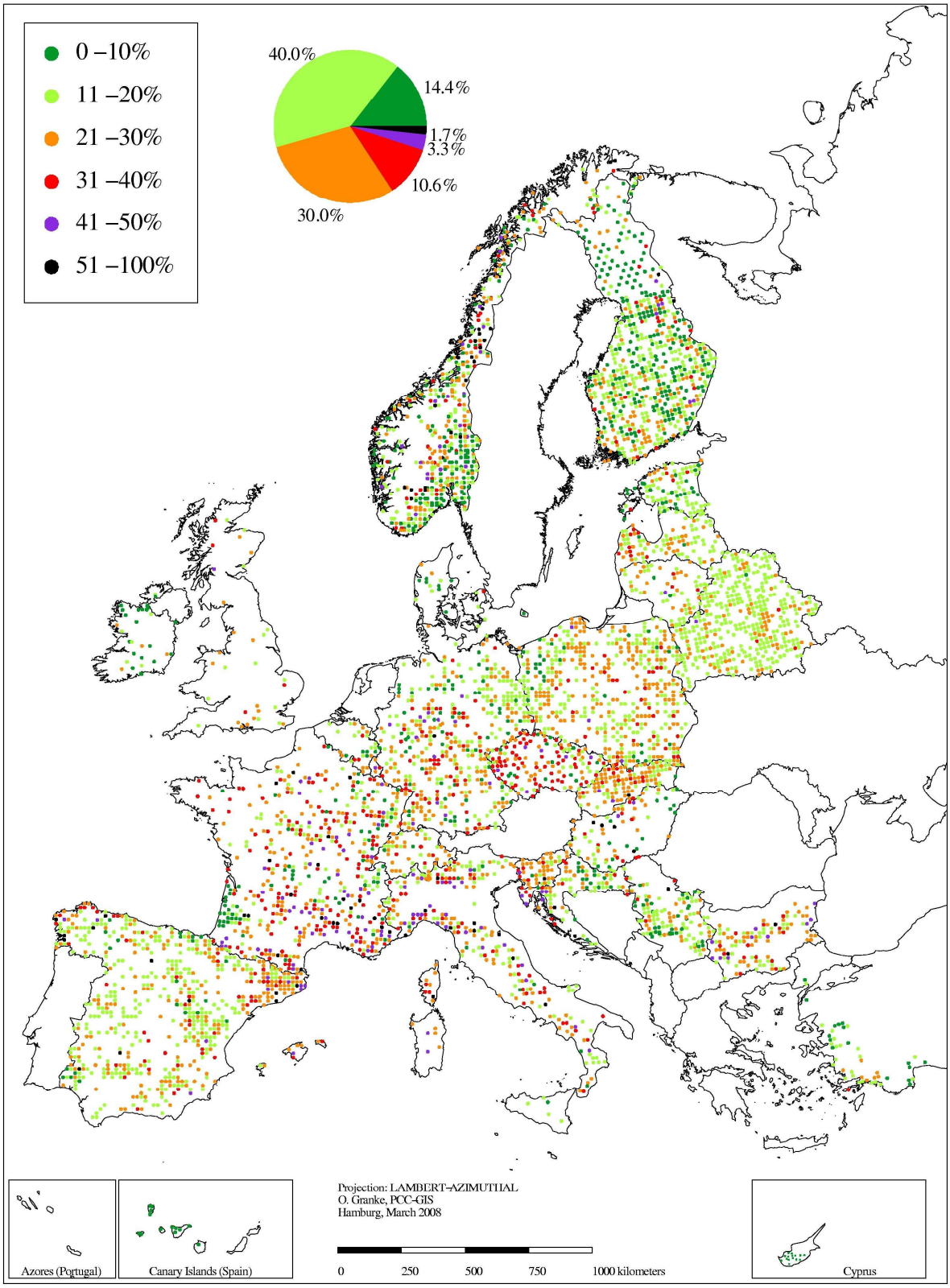
Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction however does not affect the reliability of the trends over time.



[1)] trees with defoliation larger than 25%

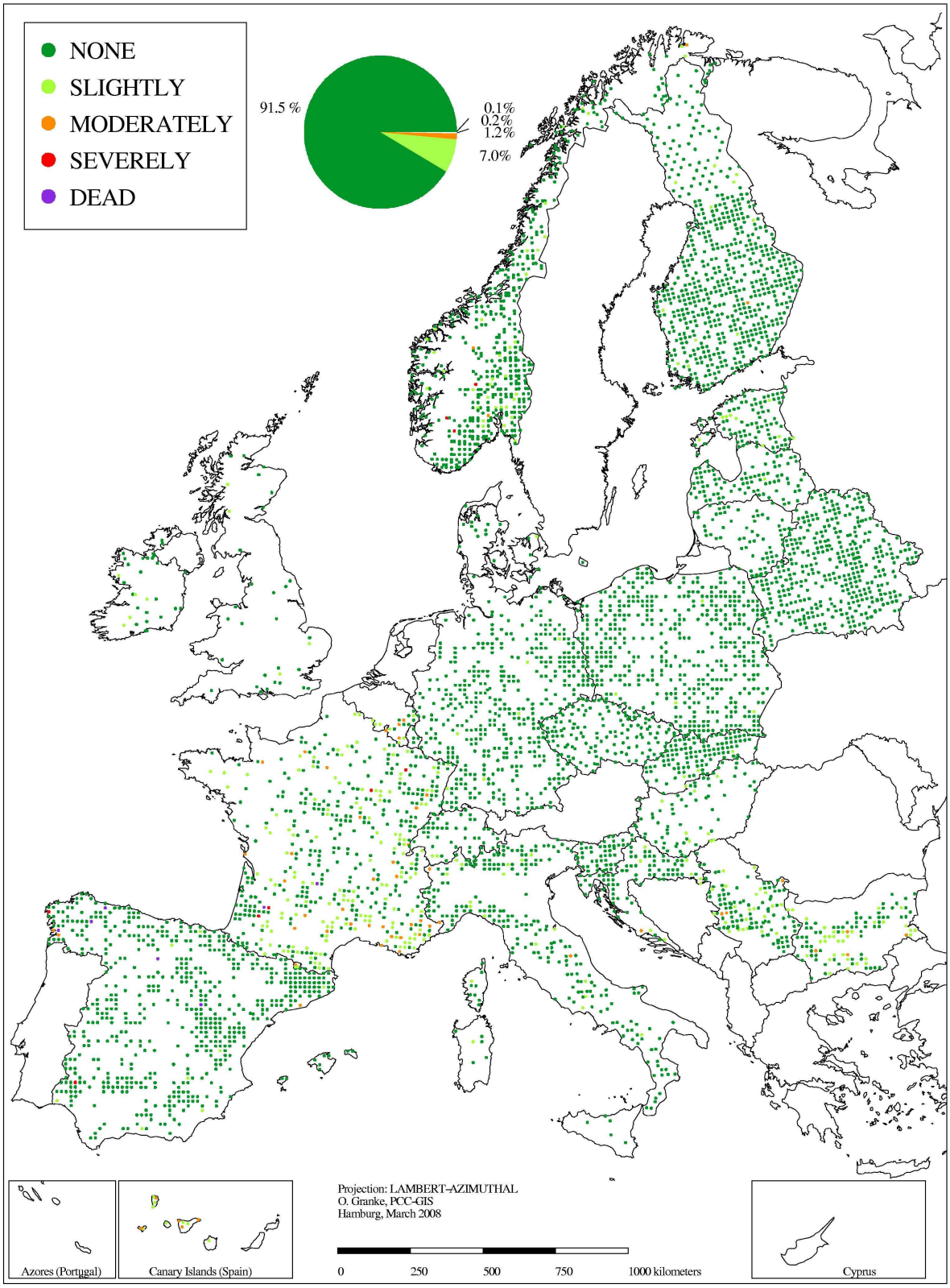
Annex I-5
Mean plot defoliation of all species (2007)

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction however does not affect the reliability of the trends over time.

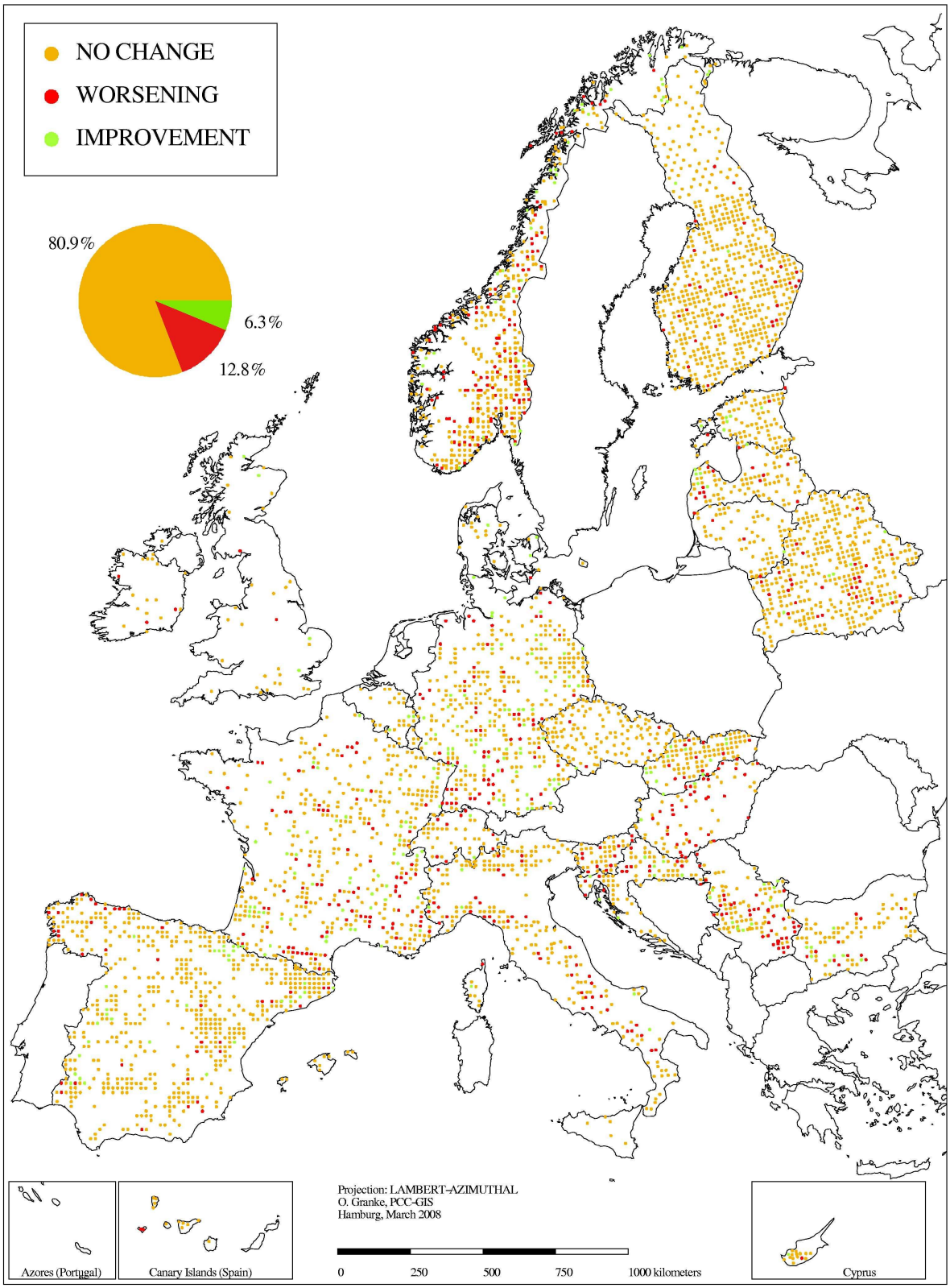


Annex I-6
Plot discolouration (2007)

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction however does not affect the reliability of the trends over time.



Annex I-7
Changes in mean plot defoliation (2006-2007)



Annex I-8

Development of defoliation of most common species (1990-2007).

Picea abies

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1990	526	52.3	28.3	19.4
1991	524	54.8	22.7	22.5
1992	525	49.5	30.7	19.8
1993	521	47.8	21.7	30.5
1994	522	39.7	26.2	34.1
1995	503	42.6	28.6	28.8
1996	495	49.5	30.1	20.4
1997	475	51.6	26.3	22.1
1998	497	52.3	27.6	20.1
1999	507	56.0	24.7	19.3
2000	489	53.1	26.0	20.9
2001	490	61.9	21.6	16.5
2002	466	64.0	22.3	13.7
2003	466	61.8	21.9	16.3
2004	465	62.4	21.7	15.9
2005	444	61.5	24.1	14.4
2006	447	62.6	25.1	12.3
2007	377	62.3	25.2	12.5

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1990	3 824	27.5	39.4	33.1
1991	3 765	25.5	39.0	35.5
1992	3 822	24.5	40.8	34.7
1993	3 777	24.6	37.2	38.2
1994	3 774	21.1	37.8	41.1
1995	3 829	25.9	33.9	40.2
1996	3 831	31.0	36.4	32.6
1997	3 852	25.1	40.3	34.6
1998	4 670	27.6	39.9	32.5
1999	4 647	26.6	41.0	32.4
2000	4 648	22.8	43.7	33.5
2001	4 441	21.9	44.8	33.3
2002	4 506	21.2	42.2	36.6
2003	4 560	20.9	44.6	34.5
2004	4 537	18.0	40.4	41.6
2005	4 468	18.8	45.4	35.8
2006	2 414	28.1	40.5	31.4
2007	2 389	24.8	44.6	30.6

BOREAL (TEMP.)	Number of trees	0-10%	>10-25%	>25%
1990	405	35.6	41.2	23.2
1991	599	32.4	46.6	21.0
1992	595	30.1	50.9	19.0
1993	594	29.0	54.0	17.0
1994	531	37.1	47.5	15.4
1995	547	39.5	45.5	15.0
1996	585	30.4	52.0	17.6
1997	545	32.5	48.1	19.4
1998	551	36.5	47.5	16.0
1999	552	32.8	49.6	17.6
2000	549	24.8	51.3	23.9
2001	540	25.7	53.2	21.1
2002	540	23.1	60.8	16.1
2003	522	24.3	58.8	16.9
2004	518	27.8	56.2	16.0
2005	518	33.8	51.9	14.3
2006	480	29.4	59.1	11.5
2007	472	29.4	55.8	14.8

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	1 715	29.6	37.3	33.1
1991	1 727	22.4	44.5	33.1
1992	1 697	15.4	45.5	39.1
1993	1 674	18.2	44.2	37.6
1994	1 708	17.1	42.3	40.6
1995	1 803	21.1	44.3	34.6
1996	1 778	25.2	42.9	31.9
1997	1 726	23.0	44.2	32.8
1998	2 151	25.8	43.2	31.0
1999	2 131	29.1	43.1	27.8
2000	2 077	24.0	47.3	28.7
2001	2 017	20.2	50.6	29.2
2002	1 995	16.3	55.0	28.7
2003	2 012	13.2	58.1	28.7
2004	1 956	9.4	49.5	41.1
2005	1 938	17.2	49.4	33.4
2006	999	17.2	43.8	39.0
2007	982	11.4	49.8	38.8

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	6 488	30.7	38.0	31.3
1991	6 633	27.8	39.8	32.4
1992	6 659	24.9	41.9	33.2
1993	6 583	25.4	39.1	35.5
1994	6 552	23.0	38.8	38.2
1995	6 699	27.1	37.2	35.7
1996	6 706	30.9	39.0	30.1
1997	6 615	27.2	40.9	31.9
1998	7 887	29.4	40.5	30.1
1999	7 855	29.8	41.0	29.2
2000	7 781	25.4	43.9	30.7
2001	7 506	24.4	45.5	30.1
2002	7 525	22.7	45.7	31.6
2003	7 570	21.7	47.7	30.6
2004	7 486	19.2	42.8	38.0
2005	7 378	22.0	45.6	32.4
2006	4 346	29.3	41.7	29.0
2007	4 226	25.6	45.3	29.1

Pinus sylvestris

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%	MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1990	468	44.2	49.6	6.2	1990	541	85.9	12.8	1.3
1991	471	46.7	41.2	12.1	1991	541	72.8	21.3	5.9
1992	461	51.9	37.5	10.6	1992	564	67.4	23.0	9.6
1993	472	47.7	43.6	8.7	1993	564	56.6	26.6	16.8
1994	471	37.2	49.8	13.0	1994	540	51.5	31.3	17.2
1995	457	35.4	53.2	11.4	1995	549	45.2	39.9	14.9
1996	459	22.9	63.4	13.7	1996	541	47.4	43.4	9.2
1997	453	37.5	54.6	7.9	1997	540	45.0	44.3	10.7
1998	453	45.7	46.8	7.5	1998	540	44.4	48.2	7.4
1999	522	36.8	51.1	12.1	1999	603	50.6	44.3	5.1
2000	522	36.0	53.3	10.7	2000	602	55.5	40.2	4.3
2001	523	32.9	57.7	9.4	2001	604	53.3	40.1	6.6
2002	522	37.2	52.1	10.7	2002	603	48.0	41.6	10.4
2003	522	40.4	49.8	9.8	2003	601	44.1	46.9	9.0
2004	513	47.0	46.2	6.8	2004	601	41.6	49.6	8.8
2005	393	53.4	43.3	3.3	2005	599	36.9	54.8	8.3
2006	513	42.7	48.5	8.8	2006	600	33.0	55.2	11.8
2007	513	44.2	49.2	6.6	2007	595	36.3	59.0	4.7
MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%	BOREAL (TEMP.)	Number of trees	0-10%	>10-25%	>25%
1990	739	66.9	21.2	11.9	1990	960	10.4	34.4	55.2
1991	742	51.1	32.3	16.6	1991	1 154	4.9	32.8	62.3
1992	758	39.4	40.7	19.9	1992	1 130	3.1	26.3	70.6
1993	743	36.9	41.2	21.9	1993	1 156	4.0	34.2	61.8
1994	731	29.5	40.7	29.8	1994	1 099	9.9	43.8	46.3
1995	747	31.7	54.9	13.4	1995	1 079	15.9	56.6	27.5
1996	754	35.5	49.5	15.0	1996	1 117	20.0	57.8	22.2
1997	763	34.3	55.7	10.0	1997	1 096	18.0	61.7	20.3
1998	829	39.6	50.0	10.4	1998	1 115	19.5	60.7	19.8
1999	918	48.4	41.7	9.9	1999	1 134	14.2	67.0	18.8
2000	904	35.6	51.7	12.7	2000	1 068	15.0	67.8	17.2
2001	895	37.5	49.5	13.0	2001	1 121	12.3	74.9	12.8
2002	896	26.2	54.7	19.1	2002	1 133	15.5	72.0	12.5
2003	896	23.1	59.0	17.9	2003	1 131	19.6	71.0	9.4
2004	899	20.7	61.7	17.6	2004	1 134	17.5	72.7	9.8
2005	895	22.0	60.1	17.9	2005	1 123	12.3	74.8	12.9
2006	673	29.3	55.7	15.0	2006	1 133	8.3	73.8	17.9
2007	675	29.5	58.2	12.3	2007	1 125	11.7	70.3	18.0
SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%	CONTINENTAL	Number of trees	0-10%	>10-25%	>25%
1990	8 490	13.5	46.2	40.3	1990	149	46.3	18.1	35.6
1991	8 533	8.2	45.8	46.0	1991	157	56.0	25.5	18.5
1992	8 537	8.7	43.9	47.4	1992	158	62.6	20.3	17.1
1993	8 548	8.9	44.6	46.5	1993	162	63.0	16.0	21.0
1994	8 010	5.4	41.5	53.1	1994	162	59.9	17.3	22.8
1995	7 837	7.5	42.1	50.4	1995	166	69.3	12.0	18.7
1996	7 837	12.4	51.7	35.9	1996	168	66.7	14.3	19.0
1997	7 813	12.1	54.8	33.1	1997	168	64.9	14.9	20.2
1998	8 208	12.9	56.8	30.3	1998	181	62.4	21.0	16.6
1999	8 203	12.5	61.0	26.5	1999	180	68.4	17.2	14.4
2000	8 214	10.5	61.9	27.6	2000	170	65.9	14.7	19.4
2001	8 193	10.4	62.4	27.2	2001	170	68.8	15.9	15.3
2002	8 057	9.1	63.2	27.7	2002	170	61.2	18.2	20.6
2003	8 100	8.5	63.4	28.1	2003	169	53.3	26.0	20.7
2004	8 136	8.1	61.9	30.0	2004	168	57.8	20.2	22.0
2005	8 097	12.1	57.5	30.4	2005	166	56.6	18.1	25.3
2006	5 141	20.8	56.3	22.9	2006	160	68.7	17.5	13.8
2007	5 902	19.3	59.3	21.4	2007	163	43.6	31.9	24.5

Pinus sylvestris

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	11 485	22.5	41.4	36.1
1991	11 732	16.6	41.7	41.7
1992	11 742	15.9	40.3	43.8
1993	11 779	15.3	41.9	42.8
1994	11 147	12.4	40.9	46.7
1995	10 969	14.5	44.3	41.2
1996	11 011	18.2	51.5	30.3
1997	10 969	18.3	54.2	27.5
1998	11 462	19.6	55.1	25.3
1999	11 696	19.8	57.9	22.3
2000	11 617	17.5	59.3	23.2
2001	11 643	17.1	60.4	22.5
2002	11 518	15.5	60.9	23.6
2003	11 557	15.1	61.6	23.3
2004	11 589	14.6	60.9	24.5
2005	11 412	16.5	58.1	25.4
2006	8 356	23.0	57.5	19.5
2007	9 110	22.3	59.5	18.2

Fagus sylvatica

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1990	420	18.8	45.0	36.2
1991	420	28.3	47.2	24.5
1992	420	25.0	46.2	28.8
1993	420	25.5	45.2	29.3
1994	425	28.2	44.3	27.5
1995	423	14.4	43.8	41.8
1996	404	19.8	47.5	32.7
1997	420	24.5	43.8	31.7
1998	420	27.1	42.4	30.5
1999	431	22.0	47.8	30.2
2000	436	15.8	41.1	43.1
2001	461	29.7	41.9	28.4
2002	459	26.1	43.4	30.5
2003	463	28.3	42.5	29.2
2004	472	23.1	31.1	45.8
2005	494	31.2	36.6	32.2
2006	491	30.3	37.1	32.6
2007	466	26.0	43.3	30.7

ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	123	65.9	21.1	13.0
1991	95	57.9	28.4	13.7
1992	119	59.7	31.1	9.2
1993	119	62.2	31.1	6.7
1994	80	33.8	54.9	11.3
1995	120	59.2	35.0	5.8
1996	96	33.3	52.1	14.6
1997	120	29.2	54.1	16.7
1998	120	27.5	60.8	11.7
1999	121	35.5	55.4	9.1
2000	126	42.9	47.6	9.5
2001	127	48.8	46.5	4.7
2002	128	28.9	57.8	13.3
2003	128	27.3	60.2	12.5
2004	128	15.6	71.1	13.3
2005	130	16.2	69.2	14.6
2006	130	13.8	67.7	18.5
2007	130	16.9	71.6	11.5

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1990	2 369	31.2	46.2	22.6
1991	2 427	33.6	44.3	22.1
1992	2 444	20.4	48.4	31.2
1993	2 422	23.7	47.2	29.1
1994	2 383	16.1	49.9	34.0
1995	2 418	17.9	46.1	36.0
1996	2 432	21.3	51.3	27.4
1997	2 474	22.4	54.3	23.3
1998	2 682	23.4	51.6	25.0
1999	2 716	17.7	56.4	25.9
2000	2 729	23.5	50.7	25.8
2001	2 719	20.5	48.5	31.0
2002	2 722	24.8	52.1	23.1
2003	2 740	23.8	51.4	24.8
2004	2 754	14.5	50.5	35.0
2005	2 695	15.0	55.7	29.3
2006	2 047	22.3	50.8	26.9
2007	2 135	18.9	58.2	22.9

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	976	48.3	41.7	10.0
1991	994	59.0	33.8	7.2
1992	1 001	52.2	31.9	15.9
1993	1 014	52.2	32.9	14.9
1994	950	48.0	36.7	15.3
1995	1 010	40.4	42.7	16.9
1996	1 004	35.4	48.5	16.1
1997	1 011	30.7	49.9	19.4
1998	1 053	45.4	44.5	10.1
1999	1 158	34.4	52.3	13.3
2000	1 204	43.1	45.9	11.0
2001	1 193	29.0	54.7	16.3
2002	1 200	31.8	56.4	11.8
2003	1 202	17.8	49.7	32.5
2004	1 195	25.2	49.4	25.4
2005	1 188	34.9	45.2	19.9
2006	1 034	33.4	44.0	22.6
2007	1 066	27.4	55.0	17.6

Fagus sylvatica

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	4 015	37.0	43.0	20.0
1991	4 064	40.9	41.2	17.9
1992	4 091	31.4	42.8	25.8
1993	4 109	33.6	42.0	24.4
1994	3 948	27.0	45.4	27.6
1995	4 127	25.9	44.0	30.1
1996	4 092	26.2	49.9	23.9
1997	4 163	25.8	51.6	22.6
1998	4 417	30.2	48.7	21.1
1999	4 568	24.1	53.9	22.0
2000	4 637	29.6	47.9	22.5
2001	4 640	25.0	49.2	25.8
2002	4 649	27.6	52.2	20.2
2003	4 678	23.9	50.0	26.1
2004	4 693	19.4	48.5	32.1
2005	4 651	22.7	51.0	26.3
2006	3 843	26.8	47.5	25.7
2007	3 939	22.7	55.6	21.7

Quercus ilex and ***Q. rotundifolia***

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1990	652	80.4	18.7	0.9
1991	652	56.1	40.8	3.1
1992	653	42.0	49.1	8.9
1993	653	31.2	60.4	8.4
1994	653	25.4	56.1	18.5
1995	671	17.1	50.7	32.2
1996	665	21.1	53.5	25.4
1997	665	25.6	58.5	15.9
1998	657	35.0	51.6	13.4
1999	770	26.6	56.5	16.9
2000	764	27.0	56.2	16.8
2001	765	24.7	62.8	12.5
2002	765	17.3	64.4	18.3
2003	766	20.2	60.7	19.1
2004	766	20.9	61.3	17.8
2005	770	9.5	57.0	33.5
2006	770	10.0	60.1	29.9
2007	769	11.7	65.0	23.3

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1990	1644	77.4	20.9	1.7
1991	1617	57.4	39.0	3.6
1992	1641	42.2	50.8	7.0
1993	1640	36.6	57.5	5.9
1994	1638	27.1	59.4	13.5
1995	1621	13.0	53.4	33.6
1996	1623	12.6	56.5	30.9
1997	1624	20.2	62.2	17.6
1998	1624	29.5	58.6	11.9
1999	2242	19.2	57.6	23.2
2000	2258	15.6	62.6	21.8
2001	2258	17.7	68.4	13.9
2002	2262	15.3	67.4	17.3
2003	2262	11.6	68.9	19.5
2004	2259	17.6	68.3	14.1
2005	2261	8.5	69.3	22.2
2006	2266	7.3	72.2	20.5
2007	2269	7.9	75.7	16.4

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	2 392	77.1	20.4	2.5
1991	2 373	56.8	39.4	3.8
1992	2 398	41.4	50.4	8.2
1993	2 397	34.8	58.6	6.6
1994	2 371	25.7	58.8	15.5
1995	2 396	13.8	53.4	32.8
1996	2 379	15.2	56.5	28.3
1997	2 380	22.1	61.2	16.7
1998	2 372	31.5	56.4	12.1
1999	3 166	21.9	57.5	20.6
2000	3 196	19.3	60.8	19.9
2001	3 197	19.4	66.7	13.9
2002	3 201	15.7	65.8	18.5
2003	3 202	14.1	66.1	19.8
2004	3 198	18.3	66.2	15.5
2005	3 204	8.7	66.2	25.1
2006	3 210	7.9	68.5	23.6
2007	3 212	8.7	72.8	18.5

Pinus pinaster

ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%	MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1990	254	76.4	16.1	7.5	1990	253	84.2	13.8	2.0
1991	249	58.2	28.9	12.9	1991	253	75.5	17.0	7.5
1992	272	54.8	29.4	15.8	1992	252	78.2	19.0	2.8
1993	271	55.7	38.4	5.9	1993	252	66.6	29.4	4.0
1994	272	55.1	36.4	8.5	1994	254	55.6	28.7	15.7
1995	269	50.9	42.4	6.7	1995	254	50.8	43.7	5.5
1996	269	45.8	40.1	14.1	1996	254	52.7	33.9	13.4
1997	259	54.5	38.2	7.3	1997	249	57.1	30.5	12.4
1998	259	46.3	44.8	8.9	1998	254	55.9	37.4	6.7
1999	447	50.3	45.2	4.5	1999	333	47.5	37.5	15.0
2000	449	45.0	40.5	14.5	2000	334	49.7	36.5	13.8
2001	441	32.9	61.4	5.7	2001	333	53.8	42.3	3.9
2002	442	29.2	57.7	13.1	2002	334	41.6	54.2	4.2
2003	418	23.0	69.3	7.7	2003	334	40.1	52.1	7.8
2004	416	18.0	64.0	18.0	2004	324	47.5	45.7	6.8
2005	425	26.6	62.8	10.6	2005	325	36.0	55.4	8.6
2006	423	30.0	58.9	11.1	2006	325	27.4	50.1	22.5
2007	423	29.6	57.2	13.2	2007	324	35.8	52.5	11.7
MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	410	74.4	21.0	4.6	1990	966	78.5	17.0	4.5
1991	385	63.3	31.2	5.5	1991	936	66.7	25.6	7.7
1992	408	64.0	25.5	10.5	1992	981	66.1	24.3	9.6
1993	408	57.1	28.2	14.7	1993	980	60.3	30.7	9.0
1994	384	55.7	33.6	10.7	1994	959	55.9	33.2	10.9
1995	381	45.9	42.3	11.8	1995	953	49.8	41.9	8.3
1996	380	40.3	46.3	13.4	1996	952	47.2	39.6	13.2
1997	380	44.2	42.6	13.2	1997	951	53.0	36.3	10.7
1998	373	48.2	35.4	16.4	1998	949	51.4	37.2	11.4
1999	612	45.4	40.5	14.1	1999	1 508	50.7	39.0	10.3
2000	612	49.3	37.6	13.1	2000	1 511	51.0	36.4	12.6
2001	604	50.7	40.9	8.4	2001	1 494	48.2	45.7	6.1
2002	600	44.5	46.3	9.2	2002	1 492	40.9	50.5	8.6
2003	595	37.6	48.6	13.8	2003	1 463	35.2	55.0	9.8
2004	597	39.0	43.6	17.4	2004	1 454	36.2	50.0	13.8
2005	595	30.8	49.7	19.5	2005	1 462	32.9	53.9	13.2
2006	599	29.7	62.5	7.8	2006	1 465	31.3	56.5	12.2
2007	599	31.4	58.4	10.2	2007	1 462	33.6	55.6	10.8

Quercus suber

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	273	83.1	15.4	1.5	1990	273	83.1	15.4	1.5
1991	248	72.6	25.0	2.4	1991	248	72.6	25.0	2.4
1992	315	48.9	46.7	4.4	1992	315	48.9	46.7	4.4
1993	268	41.8	53.7	4.5	1993	268	41.8	53.7	4.5
1994	268	22.4	46.6	31.0	1994	268	22.4	46.6	31.0
1995	268	2.6	31.3	66.1	1995	268	2.6	31.3	66.1
1996	269	16.7	51.0	32.3	1996	269	16.7	51.0	32.3
1997	269	14.9	66.9	18.2	1997	269	14.9	66.9	18.2
1998	269	21.2	62.1	16.7	1998	269	21.2	62.1	16.7
1999	369	16.5	65.3	18.2	1999	369	16.5	65.3	18.2
2000	391	13.0	70.6	16.4	2000	391	13.0	70.6	16.4
2001	392	18.6	59.2	22.2	2001	392	18.6	59.2	22.2
2002	392	11.0	68.1	20.9	2002	392	11.0	68.1	20.9
2003	392	6.9	67.1	26.0	2003	392	6.9	67.1	26.0
2004	407	9.3	71.3	19.4	2004	407	9.3	71.3	19.4
2005	397	3.5	67.5	29.0	2005	397	3.5	67.5	29.0
2006	394	4.6	69.0	26.4	2006	394	4.6	69.0	26.4
2007	394	10.4	71.3	18.3	2007	394	10.4	71.3	18.3

Quercus robur and ***Q. petraea***

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%	ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	242	49.6	35.5	14.9	1990	259	66.8	8.9	24.3
1991	243	32.5	46.9	20.6	1991	247	55.0	13.8	31.2
1992	243	22.2	58.5	19.3	1992	227	48.5	28.6	22.9
1993	246	18.3	40.7	41.0	1993	228	50.8	36.0	13.2
1994	236	17.4	42.3	40.3	1994	187	54.0	35.3	10.7
1995	251	20.3	51.4	28.3	1995	229	38.4	50.2	11.4
1996	248	8.1	36.7	55.2	1996	227	30.8	51.6	17.6
1997	255	14.1	38.4	47.5	1997	228	32.5	54.3	13.2
1998	255	20.0	51.4	28.6	1998	230	32.2	46.1	21.7
1999	255	14.5	40.0	45.5	1999	270	34.1	55.2	10.7
2000	257	20.2	52.2	27.6	2000	268	29.5	59.3	11.2
2001	260	16.9	54.3	28.8	2001	271	17.7	62.7	19.6
2002	261	23.0	48.6	28.4	2002	272	18.0	64.7	17.3
2003	257	14.0	52.1	33.9	2003	289	20.4	63.7	15.9
2004	259	14.3	47.9	37.8	2004	290	18.6	60.0	21.4
2005	228	23.2	48.7	28.1	2005	288	18.1	63.8	18.1
2006	281	13.5	58.7	27.8	2006	289	23.2	60.5	16.3
2007	248	17.3	53.7	29.0	2007	289	19.4	60.9	19.7
SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%	MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	1 629	27.1	49.3	23.6	1990	205	12.2	23.4	64.4
1991	1 630	16.9	48.7	34.4	1991	212	26.9	39.6	33.5
1992	1 619	13.0	49.1	37.9	1992	212	14.6	58.5	26.9
1993	1 619	9.9	43.7	46.4	1993	214	18.7	34.1	47.2
1994	1 625	6.8	37.2	56.0	1994	197	11.2	55.8	33.0
1995	1 626	8.4	38.6	53.0	1995	210	21.0	45.2	33.8
1996	1 603	10.6	42.9	46.5	1996	209	12.9	30.6	56.5
1997	1 622	11.1	45.4	43.5	1997	209	17.2	26.8	56.0
1998	1 688	12.1	42.4	45.5	1998	238	19.3	35.3	45.4
1999	1 718	13.6	52.2	34.2	1999	243	18.5	39.5	42.0
2000	1 720	12.2	52.7	35.1	2000	241	18.3	44.8	36.9
2001	1 724	11.9	52.8	35.3	2001	244	18.4	45.1	36.5
2002	1 730	15.2	52.1	32.7	2002	246	13.8	46.8	39.4
2003	1 732	9.2	53.9	36.9	2003	247	15.4	45.3	39.3
2004	1 739	10.4	47.5	42.1	2004	267	19.1	39.7	41.2
2005	1 731	9.3	47.7	43.0	2005	266	21.4	30.8	47.8
2006	1 200	16.0	54.1	29.9	2006	210	29.5	33.8	36.7
2007	1 377	14.7	55.7	29.6	2007	213	23.0	44.6	32.4
CONTINENTAL	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	166	47.6	25.3	27.1	1990	2 539	34.2	39.7	26.1
1991	178	35.9	29.8	34.3	1991	2 548	25.1	42.6	32.3
1992	177	42.4	27.1	30.5	1992	2 517	20.1	47.0	32.9
1993	177	28.2	32.8	39.0	1993	2 523	17.1	41.0	41.9
1994	185	30.3	19.5	50.2	1994	2 467	14.1	37.8	48.1
1995	185	33.0	27.0	40.0	1995	2 551	15.6	40.9	43.5
1996	190	36.8	27.4	35.8	1996	2 527	14.6	41.2	44.2
1997	191	38.2	24.1	37.7	1997	2 559	16.5	42.6	40.9
1998	207	37.1	30.0	32.9	1998	2 672	17.7	42.3	40.0
1999	207	47.8	25.1	27.1	1999	2 747	19.3	48.2	32.5
2000	208	47.1	22.6	30.3	2000	2 748	18.3	50.4	31.3
2001	205	52.7	23.9	23.4	2001	2 758	16.8	51.5	31.7
2002	205	46.4	26.8	26.8	2002	2 768	18.4	51.0	30.6
2003	204	40.7	26.5	32.8	2003	2 782	13.7	52.5	33.8
2004	264	43.6	26.1	30.3	2004	2 878	15.5	46.6	37.9
2005	264	50.4	22.7	26.9	2005	2 838	16.5	46.0	37.5
2006	262	65.3	14.1	20.6	2006	2 299	23.4	49.2	27.4
2007	260	53.8	30.0	16.2	2007	2 444	20.3	52.8	26.9

Abies alba

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1990	385	11.2	27.5	61.3
1991	385	10.1	23.9	66.0
1992	386	9.8	23.1	67.1
1993	382	8.1	26.7	65.2
1994	385	7.8	22.9	69.3
1995	402	8.0	30.8	61.2
1996	401	9.7	35.4	54.9
1997	392	11.5	35.7	52.8
1998	432	11.6	34.5	53.9
1999	429	10.5	37.5	52.0
2000	429	9.1	36.1	54.8
2001	418	10.3	29.4	60.3
2002	458	15.9	32.1	52.0
2003	458	13.8	38.4	47.8
2004	458	14.2	37.8	48.0
2005	457	19.0	42.9	38.1
2006	362	32.3	42.6	25.1
2007	375	31.7	44.8	23.5

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	335	21.5	30.1	48.4
1991	348	22.7	34.2	43.1
1992	347	14.7	43.5	41.8
1993	347	11.2	30.8	58.0
1994	343	15.5	39.7	44.8
1995	359	14.8	37.6	47.6
1996	366	13.7	32.8	53.5
1997	360	10.3	40.8	48.9
1998	342	16.4	38.9	44.7
1999	347	13.8	42.1	44.1
2000	383	17.5	43.1	39.4
2001	374	16.0	46.3	37.7
2002	425	13.4	49.7	36.9
2003	439	10.0	44.6	45.4
2004	440	11.1	47.1	41.8
2005	449	16.0	51.9	32.1
2006	397	18.1	40.6	41.3
2007	397	13.1	57.9	29.0

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	748	15.6	28.9	55.5
1991	761	16.0	28.6	55.4
1992	761	13.8	32.9	53.3
1993	757	9.5	29.2	61.3
1994	756	12.4	31.2	56.4
1995	785	11.1	34.1	54.8
1996	795	11.8	35.0	53.2
1997	780	11.4	39.4	49.2
1998	802	14.6	36.8	48.6
1999	804	12.9	39.6	47.5
2000	816	13.0	39.5	47.5
2001	792	13.0	37.4	49.6
2002	883	14.7	40.5	44.8
2003	897	11.9	41.5	46.6
2004	902	12.6	42.5	44.9
2005	910	17.7	47.2	35.1
2006	763	24.8	41.4	33.8
2007	776	22.0	51.8	26.2

Picea sitchensis

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1990	311	61.1	29.3	9.6
1991	302	47.0	30.5	22.5
1992	303	45.5	31.4	23.1
1993	304	31.6	30.6	37.8
1994	283	35.7	39.9	24.4
1995	276	38.4	34.8	26.8
1996	282	53.2	29.1	17.7
1997	286	61.5	25.2	13.3
1998	288	51.7	29.5	18.8
1999	266	72.9	16.2	10.9
2000	268	66.0	22.4	11.6
2001	261	62.5	22.2	15.3
2002	264	50.4	31.4	18.2
2003	243	62.1	27.2	10.7
2004	248	61.3	21.0	17.7
2005	249	63.8	21.3	14.9
2006	313	75.8	16.9	7.3
2007	454	80.4	11.7	7.9

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	311	61.1	29.3	9.6
1991	302	47.0	30.5	22.5
1992	303	45.5	31.4	23.1
1993	304	31.6	30.6	37.8
1994	283	35.7	39.9	24.4
1995	276	38.4	34.8	26.8
1996	282	53.2	29.1	17.7
1997	286	61.5	25.2	13.3
1998	288	51.7	29.5	18.8
1999	266	72.9	16.2	10.9
2000	268	66.0	22.4	11.6
2001	261	62.5	22.2	15.3
2002	264	50.4	31.4	18.2
2003	243	62.1	27.2	10.7
2004	248	61.3	21.0	17.7
2005	249	63.8	21.3	14.9
2006	313	75.8	16.9	7.3
2007	454	80.4	11.7	7.9

All species

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1990	2 450	47.0	36.6	16.4
1991	2 449	44.4	36.1	19.5
1992	2 438	41.7	39.1	19.2
1993	2 450	38.4	36.1	25.5
1994	2 433	35.8	39.9	24.3
1995	2 385	33.2	40.5	26.3
1996	2 387	34.6	42.1	23.3
1997	2 385	40.6	38.8	20.6
1998	2 408	44.2	37.7	18.1
1999	2 529	44.0	36.8	19.2
2000	2 508	42.0	37.7	20.3
2001	2 534	44.7	37.6	17.7
2002	2 514	42.2	39.5	18.3
2003	2 493	43.0	38.5	18.5
2004	2 514	42.7	35.1	22.2
2005	2 304	47.2	36.2	16.6
2006	2 606	45.9	36.9	17.2
2007	2 671	48.8	36.0	15.2

ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	1 368	74.5	14.0	11.5
1991	1 248	63.2	21.3	15.5
1992	1 488	65.1	24.1	10.8
1993	1 512	59.0	29.4	11.6
1994	1 368	56.0	31.1	12.9
1995	1 464	55.7	35.6	8.7
1996	1 320	46.4	41.8	11.8
1997	1 440	52.3	38.3	9.4
1998	1 464	45.3	41.0	13.7
1999	2 136	53.3	38.4	8.3
2000	2 136	45.9	38.4	15.7
2001	2 136	39.0	51.6	9.4
2002	2 136	31.2	54.1	14.7
2003	2 136	29.4	55.9	14.7
2004	2 136	30.5	52.5	17.0
2005	2 136	27.2	55.1	17.7
2006	2 136	28.5	51.9	19.6
2007	2 136	27.2	50.3	22.5

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1990	18 588	21.3	43.3	35.4
1991	18 626	17.8	43.2	39.0
1992	18 693	15.2	43.0	41.8
1993	18 640	15.5	42.1	42.4
1994	18 002	11.6	40.5	47.9
1995	18 042	14.7	39.6	45.7
1996	17 991	19.0	46.1	34.9
1997	18 038	18.2	49.3	32.5
1998	19 712	19.4	48.9	31.7
1999	19 750	18.5	52.7	28.8
2000	19 832	17.7	52.7	29.6
2001	19 532	17.1	52.4	30.5
2002	19 555	16.9	53.2	29.9
2003	19 561	15.5	54.0	30.5
2004	19 575	13.0	51.9	35.1
2005	19 364	15.1	52.4	32.5
2006	13 984	24.4	50.4	25.2
2007	15 597	22.0	54.3	23.7

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1990	3 336	79.2	17.5	3.3
1991	3 335	59.4	32.4	8.2
1992	3 360	48.4	38.3	13.3
1993	3 360	43.1	43.6	13.3
1994	3 312	38.0	43.0	19.0
1995	3 384	28.7	48.3	23.0
1996	3 360	31.4	49.2	19.4
1997	3 336	35.3	50.0	14.7
1998	3 336	38.7	49.2	12.1
1999	4 056	36.5	51.0	12.5
2000	4 056	36.3	51.9	11.8
2001	4 056	30.9	55.1	14.0
2002	4 056	27.6	55.6	16.8
2003	4 056	26.1	58.2	15.7
2004	4 056	25.7	58.8	15.5
2005	4 056	18.4	58.9	22.7
2006	4 056	17.8	57.9	24.3
2007	4 056	19.4	64.3	16.3

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1990	4 752	77.3	18.9	3.8
1991	4 607	66.6	28.8	4.6
1992	4 896	49.7	39.3	11.0
1993	4 824	43.7	44.7	11.6
1994	4 704	35.8	44.0	20.2
1995	4 704	20.9	49.1	30.0
1996	4 704	21.9	54.8	23.3
1997	4 656	26.4	59.2	14.4
1998	4 704	32.7	53.1	14.2
1999	6 288	28.6	55.2	16.2
2000	6 408	25.2	58.6	16.2
2001	6 408	23.4	62.6	14.0
2002	6 408	19.4	64.1	16.5
2003	6 408	17.3	64.6	18.1
2004	6 408	21.2	64.9	13.9
2005	6 408	11.6	64.6	23.8
2006	6 408	12.0	66.7	21.3
2007	6 408	12.8	69.9	17.3

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1990	5 271	45.5	31.8	22.7
1991	5 336	42.3	35.7	22.0
1992	5 347	32.4	40.7	26.9
1993	5 320	31.6	40.6	27.8
1994	5 232	28.0	42.2	29.8
1995	5 506	27.2	47.0	25.8
1996	5 498	29.2	45.4	25.4
1997	5 458	28.9	46.1	25.0
1998	6 074	35.2	42.5	22.3
1999	6 633	36.7	43.8	19.5
2000	6 763	33.3	47.0	19.7
2001	6 647	28.2	50.6	21.2
2002	6 745	24.3	53.4	22.3
2003	6 794	19.8	53.7	26.5
2004	6 734	19.9	51.3	28.8
2005	6 736	25.1	50.4	24.5
2006	5 208	26.8	47.7	25.5
2007	5 223	23.0	55.0	22.0

All species

BOREAL (TEMP.)	Number of trees	0-10%	>10-25%	>25%
1990	1 920	28.9	34.1	37.0
1991	2 424	22.6	37.7	39.7
1992	2 396	18.7	37.5	43.8
1993	2 420	20.1	41.9	38.0
1994	2 257	27.1	43.7	29.2
1995	2 262	34.4	46.2	19.4
1996	2 368	31.8	50.1	18.1
1997	2 297	30.0	53.5	16.5
1998	2 326	30.4	53.6	16.0
1999	2 348	25.2	57.9	16.9
2000	2 256	18.8	61.1	20.1
2001	2 325	18.0	65.9	16.1
2002	2 340	19.7	66.7	13.6
2003	2 293	21.4	65.9	12.7
2004	2 290	21.3	65.8	12.9
2005	2 263	21.5	65.2	13.3
2006	2 242	18.9	66.6	14.5
2007	2 228	20.5	64.1	15.4

CONTINENTAL	0-10%	>10-25%	>25%	0-10%
1990	1 133	60.9	19.2	19.9
1991	1 151	64.0	19.1	16.9
1992	1 151	62.3	18.2	19.5
1993	1 162	56.9	18.5	24.6
1994	1 140	53.9	17.9	28.2
1995	1 160	61.5	15.9	22.6
1996	1 117	65.3	15.0	19.7
1997	1 073	66.9	14.9	18.2
1998	1 155	66.5	16.0	17.5
1999	1 230	71.9	13.7	14.4
2000	1 230	67.7	13.6	18.7
2001	1 211	64.1	18.9	17.0
2002	1 182	63.5	17.3	19.2
2003	1 182	58.0	18.3	23.7
2004	1 422	62.1	16.5	21.4
2005	1 375	66.0	15.4	18.6
2006	1 386	73.6	11.9	14.5
2007	1 386	46.9	28.9	24.2

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1990	38 830	41.5	33.9	24.6
1991	39 188	35.2	37.3	27.5
1992	39 783	29.6	39.9	30.5
1993	39 702	28.0	40.8	31.2
1994	38 462	24.3	40.6	35.1
1995	38 921	23.7	42.1	34.2
1996	38 759	25.9	46.3	27.8
1997	38 697	26.9	48.3	24.8
1998	41 194	29.2	46.8	24.0
1999	44 985	29.1	49.2	21.7
2000	45 204	26.9	50.5	22.6
2001	44 864	24.8	52.8	22.4
2002	44 951	22.8	54.1	23.1
2003	44 939	21.0	54.7	24.3
2004	45 151	20.8	52.9	26.3
2005	44 658	20.6	53.2	26.2
2006	38 026	25.1	52.3	22.6
2007	39 705	23.3	56.1	20.6

Annex I-9
Development of defoliation of most common species (1997-2007).

Picea abies

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1997	821	50.7	32.9	16.4
1998	845	49.7	35.3	15.0
1999	855	53.9	31.5	14.6
2000	837	47.1	36.1	16.8
2001	813	51.9	32.0	16.1
2002	823	51.3	31.3	17.4
2003	789	47.4	30.7	21.9
2004	823	49.7	31.6	18.7
2005	778	49.5	29.2	21.3
2006	754	50.0	29.7	20.3
2007	455	66.9	22.6	10.5

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1997	8 728	18.1	34.5	47.4
1998	6 938	26.8	36.7	36.5
1999	7 246	27.9	35.6	36.5
2000	7 244	26.2	37.7	36.1
2001	7 244	24.8	38.5	36.7
2002	7 272	24.5	36.7	38.8
2003	7 263	23.6	39.2	37.2
2004	7 321	21.1	35.7	43.2
2005	7 275	22.0	38.9	39.1
2006	5 821	28.9	35.2	35.9
2007	5 701	26.8	37.0	36.2

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	94	44.7	31.9	23.4
1998	94	25.5	44.7	29.8
1999	106	30.2	37.7	32.1
2000	106	33.0	38.7	28.3
2001	94	39.3	27.7	33.0
2002	81	46.9	24.7	28.4
2003	94	53.2	21.3	25.5
2004	94	54.3	26.6	19.1
2005	101	54.4	23.8	21.8
2006	101	50.5	26.7	22.8
2007	101	42.6	30.7	26.7

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1997	78	65.4	23.1	11.5
1998	72	31.9	50.0	18.1
1999	83	47.0	36.1	16.9
2000	81	63.0	29.6	7.4
2001	82	64.7	26.8	8.5
2002	110	45.5	34.5	20.0
2004	110	35.5	40.9	23.6
2004	110	31.8	38.2	30.0
2005	110	27.3	45.4	27.3
2006	110	26.4	47.2	26.4
2007	110	23.6	47.3	29.1

MOUNTAIN-OUS (NORTH)	Number of trees	0-10%	>10-25%	>25%
1997	888	48.4	20.0	31.6
1998	878	49.3	19.9	30.8
1999	871	50.5	23.2	26.3
2000	871	49.1	28.7	22.2
2001	1 034	56.7	20.6	22.7
2002	1 089	53.0	24.0	23.0
2003	1 062	55.7	21.1	23.2
2004	1 137	63.4	20.6	16.0
2005	1 212	61.5	20.3	18.2
2006	1 216	61.1	22.0	16.9
2007	1 319	62.1	18.7	19.2

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	3 032	34.0	41.8	24.2
1998	3 080	33.1	40.8	26.1
1999	3 258	36.9	39.7	23.4
2000	3 530	38.1	39.5	22.4
2001	3 490	34.6	43.1	22.3
2002	3 457	31.2	45.0	23.8
2003	3 468	30.2	47.3	22.5
2004	3 466	27.2	42.3	30.5
2005	3 136	27.7	44.7	27.6
2006	2 647	35.6	37.7	26.7
2007	2 360	27.3	42.2	30.5

BOREAL	Number of trees	0-10%	>10-25%	>25%
1997	3 962	48.9	30.8	20.3
1998	3 974	47.0	32.8	20.2
1999	3 961	46.2	33.6	20.2
2000	3 868	43.8	35.7	20.5
2001	3 836	44.1	35.9	20.0
2002	3 843	44.1	35.2	20.7
2003	3 790	44.2	36.0	19.8
2004	4 359	45.2	37.2	17.6
2005	4 343	46.1	37.0	16.9
2006	4 298	46.1	37.4	16.5
2007	4 234	43.0	37.9	19.1

BOREAL (TEMPERATE)	Number of trees	0-10%	>10-25%	>25%
1997	1 317	34.9	48.2	16.9
1998	1 319	36.4	46.6	17.0
1999	1 322	37.6	47.6	14.8
2000	1 297	35.6	48.6	15.8
2001	1 324	35.6	49.7	14.7
2002	1 324	35.5	50.7	13.8
2003	1 295	35.1	50.5	14.4
2004	1 307	37.3	48.9	13.8
2005	1 271	39.8	46.4	13.8
2006	1 239	42.5	46.5	11.0
2007	1 230	39.8	45.1	15.1

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	18 970	31.6	34.9	33.5
1998	17 251	35.8	36.4	27.8
1999	17 753	37.1	35.9	27.0
2000	17 885	35.6	37.7	26.7
2001	17 968	35.1	38.1	26.8
2002	18 050	34.1	37.9	28.0
2003	17 922	33.4	39.3	27.3
2004	18 668	33.2	37.0	29.8
2005	18 276	34.1	38.2	27.7
2006	16 218	39.2	35.8	25.0
2007	15 542	36.7	36.7	26.6

Pinus sylvestris

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1997	838	42.7	45.1	12.2
1998	908	39.1	48.2	12.7
1999	978	35.4	47.3	17.3
2000	1 026	36.0	47.7	16.3
2001	1 028	31.0	52.7	16.3
2002	1 029	33.5	46.2	20.3
2003	1 028	36.6	47.1	16.3
2004	1 029	37.8	44.2	18.0
2005	1 049	39.6	45.5	14.9
2006	1 025	39.4	46.0	14.6
2007	983	37.0	50.2	12.8

ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	205	60.0	24.9	15.1
1998	205	56.1	34.1	9.8
1999	205	47.8	39.5	12.7
2000	205	57.6	31.7	10.7
2001	205	51.7	37.1	11.2
2002	205	42.0	44.3	13.7
2003	204	47.5	35.3	17.2
2004	204	49.5	36.8	13.7
2005	204	55.9	27.9	16.2
2006	203	48.8	39.4	11.8
2007	203	27.1	59.1	13.8

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1997	10 706	19.1	48.7	32.2
1998	10 595	19.6	52.8	27.6
1999	10 663	19.4	54.8	25.8
2000	10 648	17.7	55.7	26.6
2001	10 677	17.1	57.1	25.8
2002	10 541	15.4	57.4	27.2
2003	10 585	14.0	58.8	27.2
2004	10 614	13.5	56.6	29.9
2005	10 590	16.5	52.8	30.7
2006	7 965	21.7	51.8	26.5
2007	8 708	21.2	55.0	23.8

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	766	39.6	45.3	15.1
1998	766	40.2	47.0	12.8
1999	857	44.8	45.2	10.0
2000	857	46.7	43.8	9.5
2001	857	47.3	39.9	12.8
2002	857	42.4	42.0	15.6
2003	857	36.6	48.3	15.1
2004	857	36.9	46.6	16.5
2005	857	32.8	49.5	17.7
2006	857	28.7	51.7	19.6
2007	857	29.2	56.4	14.4

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1997	112	39.3	43.7	17.0
1998	112	44.6	36.6	18.8
1999	130	41.5	37.7	20.8
2000	130	34.6	47.7	17.7
2001	130	33.1	46.1	20.8
2002	130	31.5	46.2	22.3
2003	130	26.2	54.6	19.2
2004	130	24.6	53.9	21.5
2005	130	30.8	48.4	20.8
2006	130	24.6	53.1	22.3
2007	130	15.4	59.2	25.4

MOUNTAIN-OUS (NORTH)	Number of trees	0-10%	>10-25%	>25%
1997	932	45.2	37.0	17.8
1998	932	42.8	40.2	17.0
1999	932	46.1	39.4	14.5
2000	933	49.6	38.7	11.7
2001	940	49.2	39.1	11.7
2002	940	46.0	41.3	12.7
2003	940	50.9	38.5	10.6
2004	940	61.2	29.5	9.3
2005	946	57.6	31.9	10.5
2006	939	53.7	35.9	10.4
2007	951	45.7	38.4	15.9

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	2 493	21.5	38.8	39.7
1998	2 487	23.3	32.7	44.0
1999	2 487	30.2	33.8	36.0
2000	2 091	25.3	42.8	31.9
2001	2 076	34.4	38.6	27.0
2002	2 071	23.9	47.3	28.8
2003	2 394	17.0	51.6	31.4
2004	2 275	18.0	45.8	36.2
2005	2 156	15.7	47.1	37.2
2006	1 913	18.5	45.1	36.4
2007	1 947	17.7	47.3	35.0

BOREAL	Number of trees	0-10%	>10-25%	>25%
1997	5 641	68.9	25.4	5.7
1998	5 637	69.3	25.9	4.8
1999	5 640	70.5	24.9	4.6
2000	5 667	69.8	25.8	4.4
2001	5 727	68.0	27.7	4.3
2002	5 826	64.5	31.5	4.0
2003	5 781	62.7	33.8	3.5
2004	7 368	65.9	30.3	3.8
2005	7 652	66.0	30.6	3.4
2006	7 726	62.8	33.3	3.9
2007	7 575	59.8	35.9	4.3

BOREAL (TEMP.)	Number of trees	0-10%	>10-25%	>25%
1997	2 753	15.7	66.3	18.0
1998	2 772	20.2	62.5	17.3
1999	2 793	16.0	69.2	14.8
2000	2 699	20.3	66.5	13.2
2001	2 762	17.1	71.5	11.4
2002	2 762	17.3	70.1	12.6
2003	2 756	20.7	69.1	10.2
2004	2 801	25.0	66.1	8.9
2005	2 784	24.5	65.4	10.1
2006	2 795	19.9	67.7	12.4
2007	2 802	25.4	62.4	12.2

CONTINENTAL	Number of trees	0-10%	>10-25%	>25%
1997	352	41.2	13.6	45.2
1998	352	40.9	12.8	46.3
1999	285	53.6	25.3	21.1
2000	420	50.7	28.3	21.0
2001	461	41.7	37.5	20.8
2002	421	39.2	34.9	25.9
2003	421	32.1	38.0	29.9
2004	381	39.1	41.0	19.9
2005	420	36.4	30.0	33.6
2006	381	39.1	37.8	23.1
2007	421	24.7	46.8	28.5

Pinus sylvestris

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	24 798	33.5	42.9	23.6
1998	24 766	34.3	44.1	21.6
1999	24 970	34.9	45.8	19.3
2000	24 676	34.6	46.8	18.6
2001	24 863	33.9	48.4	17.7
2002	24 782	31.5	49.7	18.8
2003	25 096	29.9	51.4	18.7
2004	26 599	33.7	47.2	19.1
2005	26 788	34.9	45.7	19.4
2006	23 934	37.3	45.9	16.8
2007	24 577	35.3	48.4	16.3

Fagus sylvatica

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%
1997	812	29.9	45.0	25.1
1998	812	33.1	45.2	21.7
1999	814	25.1	49.0	25.9
2000	818	20.3	45.3	34.4
2001	816	32.2	44.5	23.3
2002	840	25.6	47.5	26.9
2003	840	31.8	46.9	21.3
2004	840	20.0	40.0	40.0
2005	864	35.9	36.9	27.2
2006	864	28.6	43.3	28.1
2007	550	24.4	45.2	30.4

ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	250	32.4	46.8	20.8
1998	232	40.9	49.2	9.9
1999	232	34.9	55.6	9.5
2000	232	48.7	43.1	8.2
2001	232	56.5	39.2	4.3
2002	232	34.9	53.0	12.1
2003	231	29.9	54.9	15.2
2004	231	18.6	63.7	17.7
2005	231	27.7	52.4	19.9
2006	231	24.2	52.4	23.4
2007	231	15.2	64.9	19.9

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1997	3 515	25.4	50.5	24.1
1998	3 479	26.3	48.1	25.6
1999	3 623	23.3	50.9	25.8
2000	3 544	25.8	47.8	26.4
2001	3 577	24.0	45.9	30.1
2002	3 602	26.2	49.7	24.1
2003	3 623	25.0	49.9	25.1
2004	3 624	17.2	46.4	36.4
2005	3 624	17.9	50.9	31.2
2006	3 121	22.6	46.9	30.5
2007	3 209	20.8	54.2	25.0

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	755	34.6	34.4	31.0
1998	762	32.0	36.5	31.5
1999	865	31.0	40.6	28.4
2000	865	30.5	42.9	26.6
2001	882	26.2	42.1	31.7
2002	852	28.1	44.4	27.5
2003	828	26.8	50.4	22.8
2004	829	22.4	50.1	27.5
2005	894	27.5	47.6	24.9
2006	919	30.9	47.2	21.9
2007	895	24.9	42.7	32.4

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1997	693	41.7	32.2	26.1
1998	690	41.6	36.4	22.0
1999	887	33.1	40.0	26.9
2000	897	32.7	40.2	27.1
2001	897	26.5	41.5	32.0
2002	881	28.5	45.4	26.1
2003	837	29.4	47.9	22.7
2004	904	25.6	49.7	24.7
2005	887	37.8	40.9	21.3
2006	887	44.9	39.7	15.4
2007	848	34.4	44.7	20.9

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	2 499	33.8	42.4	23.8
1998	2 542	39.3	41.5	19.2
1999	2 695	34.5	46.4	19.1
2000	2 974	39.9	44.5	15.6
2001	2 733	30.2	48.8	21.0
2002	2 810	30.4	48.4	21.2
2003	2 804	25.7	46.1	28.2
2004	2 800	24.0	49.2	26.8
2005	2 826	32.7	43.3	24.0
2006	2 810	31.7	41.5	26.8
2007	2 883	29.3	46.2	24.5

CONTINENTAL	Number of trees	0-10%	>10-25%	>25%
1997	520	60.7	25.6	13.7
1998	621	54.6	31.7	13.7
1999	342	70.7	13.5	15.8
2000	293	67.6	12.6	19.8
2001	453	63.1	23.0	13.9
2002	493	61.3	23.9	14.8
2003	516	62.9	26.2	10.9
2004	399	59.9	30.3	9.8
2005	431	74.0	19.3	6.7
2006	480	55.8	26.7	17.5
2007	615	64.6	25.0	10.4

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	9 044	32.4	43.4	24.2
1998	9 138	34.5	43.0	22.5
1999	9 458	30.3	46.2	23.5
2000	9 623	32.6	44.2	23.2
2001	9 590	29.6	44.5	25.9
2002	9 710	29.7	47.1	23.2
2003	9 679	28.5	47.2	24.3
2004	9 627	22.5	47.0	30.5
2005	9 757	29.2	44.9	25.9
2006	9 312	30.6	43.4	26.0
2007	9 231	28.1	47.5	24.4

Quercus ilex and *Q. rotundifolia*

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	855	24.7	53.9	21.4
1998	812	31.5	50.5	18.0
1999	977	25.9	53.9	20.2
2000	977	27.5	52.8	19.7
2001	977	25.2	56.4	18.4
2002	977	18.5	58.8	22.7
2003	933	19.3	56.6	24.1
2004	998	20.6	58.7	20.7
2005	957	10.9	54.5	34.6
2006	957	10.4	56.6	33.0
2007	1001	11.6	59.5	28.9

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1997	1 897	19.1	60.9	20.0
1998	1 897	26.4	58.5	15.1
1999	2 539	19.1	57.6	23.3
2000	2 562	15.1	61.3	23.6
2001	2 574	17.6	66.6	15.8
2002	2 565	15.4	65.7	18.9
2003	2 538	11.4	67.0	21.6
2004	2 542	17.0	65.8	17.2
2005	2 538	9.0	65.5	25.5
2006	2 538	7.6	68.4	24.0
2007	2 576	8.9	71.2	19.9

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	156	22.4	43.6	34.0
1998	156	24.4	65.3	10.3
1999	197	27.9	55.9	16.2
2000	241	26.6	60.5	12.9
2001	241	17.4	58.9	23.7
2002	241	16.6	44.0	39.4
2003	241	16.2	41.5	42.3
2004	241	14.1	49.0	36.9
2005	241	12.4	52.3	35.3
2006	241	12.4	49.8	37.8
2007	211	13.7	51.7	34.6

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	2 996	21.0	58.2	20.8
1998	2 953	27.8	56.6	15.6
1999	3 801	21.5	56.6	21.9
2000	3 868	19.3	58.6	22.1
2001	3 880	19.6	63.1	17.3
2002	3 871	16.3	62.3	21.4
2003	3 800	14.2	62.1	23.7
2004	3 869	18.0	62.6	19.4
2005	3 824	9.9	61.6	28.5
2006	3 824	8.6	63.5	27.9
2007	3 876	9.7	67.0	23.3

Pinus pinaster

ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	1 102	58.0	27.8	14.2
1998	1 103	40.0	41.9	18.1
1999	1 268	60.6	31.4	8.0
2000	1 223	59.6	31.1	9.3
2001	1 243	53.4	39.7	6.9
2002	1 223	49.8	41.9	8.3
2003	1 223	45.7	42.2	12.1
2004	1 224	44.8	39.8	15.4
2005	1 204	43.2	44.9	11.9
2006	1 185	47.3	40.9	11.8
2007	1 205	49.0	35.6	15.4

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	292	46.9	28.1	25.0
1998	279	49.8	36.2	14.0
1999	357	42.8	37.3	19.9
2000	353	45.9	37.4	16.7
2001	353	48.5	43.6	7.9
2002	353	37.7	54.1	8.2
2003	353	37.7	51.3	11.0
2004	357	42.6	43.4	14.0
2005	357	34.2	51.5	14.3
2006	357	25.2	47.6	27.2
2007	357	32.8	48.4	18.8

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1997	485	41.0	43.9	15.1
1998	465	48.4	37.0	14.6
1999	692	46.7	40.0	13.3
2000	692	48.9	40.6	10.5
2001	692	47.0	43.8	9.2
2002	692	41.6	47.3	11.1
2003	692	33.5	48.6	17.9
2004	672	36.9	44.3	18.8
2005	672	29.2	47.0	23.8
2006	692	26.2	60.5	13.3
2007	692	28.9	55.2	15.9

MOUNTAIN. (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	68	75.0	20.6	4.4
1998	68	63.2	20.6	16.2
1999	127	81.1	13.4	5.5
2000	124	78.2	15.3	6.5
2001	124	69.3	22.6	8.1
2002	124	59.6	31.5	8.9
2003	124	46.0	41.1	12.9
2004	124	51.6	40.3	8.1
2005	124	51.6	37.9	10.5
2006	124	51.6	33.1	15.3
2007	124	50.0	41.1	8.9

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	1 947	52.7	31.6	15.7
1998	1 915	44.3	39.1	16.6
1999	2 444	55.1	33.8	11.1
2000	2 392	55.5	33.9	10.6
2001	2 412	51.6	40.6	7.8
2002	2 392	46.1	44.7	9.2
2003	2 392	41.0	45.3	13.7
2004	2 377	42.6	41.6	15.8
2005	2 357	38.3	46.1	15.6
2006	2 358	38.0	47.2	14.8
2007	2 378	40.7	43.6	15.7

Quercus suber

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	325	14.5	60.9	24.6	1997	356	21.6	55.9	22.5
1998	325	22.2	57.5	20.3	1998	355	28.7	52.7	18.6
1999	426	16.9	61.3	21.8	1999	489	20.9	57.6	21.5
2000	426	14.6	70.4	15.0	2000	489	16.0	69.9	14.1
2001	426	20.7	55.6	23.7	2001	489	21.3	57.8	20.9
2002	426	15.3	62.2	22.5	2002	489	15.7	63.2	21.1
2003	426	7.7	63.7	28.6	2003	456	9.2	64.0	26.8
2004	426	9.4	73.5	17.1	2004	457	11.8	71.8	16.4
2005	425	3.8	68.4	27.8	2005	455	8.1	66.0	25.9
2006	425	4.7	67.8	27.5	2006	455	9.2	65.1	25.7
2007	425	9.6	69.7	20.7	2007	488	13.5	64.8	21.7

Quercus robur and *Q. petraea*

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%	ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	1 083	27.1	43.7	29.2	1997	1 582	23.7	38.8	37.5
1998	1 131	26.0	44.8	29.2	1998	1 562	30.0	37.9	32.1
1999	1 132	23.2	50.2	26.6	1999	1 588	30.5	45.4	24.1
2000	1 110	27.4	51.9	20.7	2000	1 582	33.1	42.9	24.0
2001	1 114	20.2	50.4	29.4	2001	1 559	28.5	44.7	26.8
2002	1 114	16.3	50.1	33.6	2002	1 559	23.3	49.1	27.6
2003	1 103	19.1	49.0	31.9	2003	1 558	18.6	46.2	35.2
2004	1 103	18.3	47.9	33.8	2004	1 555	20.1	44.1	35.8
2005	1 127	17.2	49.1	33.7	2005	1 527	16.1	48.9	35.0
2006	1 127	13.1	50.9	36.0	2006	1 498	16.4	49.7	33.9
2007	1 089	16.3	50.9	32.8	2007	1 481	10.3	50.7	39.0
SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%	MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	2 786	16.0	46.4	37.6	1997	177	21.5	44.0	34.5
1998	2 790	19.1	43.8	37.1	1998	177	19.2	41.3	39.5
1999	2 839	18.9	50.1	31.0	1999	179	24.6	46.9	28.5
2000	2 828	17.2	49.9	32.9	2000	179	22.3	49.8	27.9
2001	2 828	16.4	50.4	33.2	2001	180	16.1	47.2	36.7
2002	2 848	17.3	51.8	30.9	2002	178	7.9	53.3	38.8
2003	2 848	12.7	47.6	39.7	2003	178	7.9	51.7	40.4
2004	2 848	10.7	44.9	44.4	2004	178	7.9	47.7	44.4
2005	2 848	10.3	43.2	46.5	2005	178	6.7	41.6	51.7
2006	2 431	14.8	47.3	37.9	2006	178	6.7	41.0	52.3
2007	2 584	13.4	47.9	38.7	2007	177	4.5	46.9	48.6
MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%	MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	523	23.7	40.4	35.9	1997	578	19.2	34.3	46.5
1998	617	28.2	36.6	35.2	1998	576	21.4	33.2	45.4
1999	638	28.1	43.5	28.4	1999	562	17.3	45.0	37.7
2000	605	26.1	43.5	30.4	2000	633	18.5	44.5	37.0
2001	605	27.4	47.3	25.3	2001	525	22.3	45.3	32.4
2002	610	26.6	50.3	23.1	2002	525	18.9	45.7	35.4
2003	610	25.6	49.5	24.9	2003	528	19.9	45.3	34.8
2004	624	26.6	47.6	25.8	2004	590	23.2	39.2	37.6
2005	665	27.7	42.4	29.9	2005	510	18.4	36.7	44.9
2006	665	38.3	37.0	24.7	2006	481	18.7	39.7	41.6
2007	659	36.4	38.1	25.5	2007	520	12.5	46.5	41.0
CONTINENTAL	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	503	32.8	30.0	37.2	1997	7 252	21.5	41.7	36.8
1998	503	30.2	31.8	38.0	1998	7 376	24.2	40.4	35.4
1999	432	41.4	35.0	23.6	1999	7 390	24.2	47.2	28.6
2000	482	24.7	20.3	55.0	2000	7 439	23.5	45.9	30.6
2001	518	23.4	27.8	48.8	2001	7 349	21.3	47.0	31.7
2002	374	27.3	33.4	39.3	2002	7 228	19.6	49.5	30.9
2003	374	23.0	42.2	34.8	2003	7 221	17.0	47.3	35.7
2004	406	28.8	32.8	38.4	2004	7 326	17.1	44.4	38.5
2005	506	29.6	24.5	45.9	2005	7 383	15.9	43.5	40.6
2006	464	39.9	26.5	33.6	2006	6 866	18.9	45.4	35.7
2007	462	31.2	49.3	19.5	2007	6 994	16.2	48.1	35.7

Abies alba

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%	MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	673	30.6	31.8	37.6	1997	132	37.1	17.4	45.5
1998	647	29.8	33.1	37.1	1998	132	40.2	15.2	44.6
1999	688	31.4	33.1	35.5	1999	148	35.1	22.3	42.6
2000	648	29.3	34.3	36.4	2000	148	30.4	22.3	47.3
2001	648	29.6	29.9	40.5	2001	136	27.2	19.9	52.9
2002	688	32.7	29.1	38.2	2002	136	26.5	23.5	50.0
2003	688	29.1	35.2	35.7	2003	136	23.5	22.1	54.4
2004	688	28.1	34.2	37.7	2004	136	19.9	24.3	55.8
2005	688	30.8	36.5	32.7	2005	137	21.9	16.1	62.0
2006	618	38.0	38.2	23.8	2006	137	20.4	25.5	54.1
2007	627	35.2	38.2	26.6	2007	137	14.6	20.4	65.0
MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	972	30.7	35.5	33.8	1997	1 894	31.2	33.2	35.6
1998	916	31.3	37.1	31.6	1998	1 812	31.8	33.9	34.3
1999	937	29.2	42.1	28.7	1999	1 890	31.2	36.5	32.3
2000	977	30.5	38.8	30.7	2000	1 866	30.4	35.6	34.0
2001	937	31.8	43.1	25.1	2001	1 810	31.0	36.2	32.8
2002	950	29.8	41.6	28.6	2002	1 863	31.3	34.7	34.0
2003	993	26.3	41.0	32.7	2003	1 906	27.6	37.1	35.3
2004	993	30.6	36.2	33.2	2004	1 910	29.1	34.6	36.3
2005	972	31.5	42.2	26.3	2005	1 890	30.7	37.8	31.5
2006	909	30.8	35.8	33.4	2006	1 757	33.8	35.9	30.3
2007	928	26.6	46.0	27.4	2007	1 785	30.9	40.0	29.1

Picea sitchensis

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%	ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	995	42.6	39.3	18.1	1997	1 016	43.8	38.5	17.7
1998	1021	35.5	38.3	26.2	1998	1 042	36.8	37.6	25.6
1999	928	45.2	34.8	20.0	1999	949	46.4	34.0	19.6
2000	975	41.4	35.7	22.9	2000	996	42.7	34.9	22.4
2001	944	37.8	38.9	23.3	2001	965	38.9	38.3	22.8
2002	920	29.5	41.5	29.0	2002	941	30.2	41.4	28.4
2003	899	28.4	41.8	29.8	2003	920	29.2	41.7	29.1
2004	882	32.9	39.0	28.1	2004	903	33.8	38.7	27.5
2005	882	36.2	38.3	25.5	2005	903	37.7	37.4	24.9
2006	949	40.5	35.6	23.9	2006	970	39.8	36.1	24.1
2007	454	80.4	11.7	7.9	2007	475	77.0	11.4	11.6

All species

ATLANTIC (NORTH)	Number of trees	0-10%	>10-25%	>25%	ATLANTIC (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	5 534	39.4	41.7	18.9	1997	5 480	43.5	32.3	24.2
1998	5 702	39.0	41.3	19.7	1998	5 484	41.6	35.8	22.6
1999	5 753	39.4	41.6	19.0	1999	6 096	48.4	36.2	15.4
2000	5 785	38.4	41.8	19.8	2000	5 976	47.8	35.0	17.2
2001	5 741	37.6	42.3	20.1	2001	5 976	44.5	40.6	14.9
2002	5 765	33.8	42.7	23.5	2002	5 956	37.8	43.6	18.6
2003	5 676	35.0	42.4	22.6	2003	5 896	33.7	42.2	24.1
2004	5 724	32.7	41.3	26.0	2004	5 856	32.6	42.6	24.8
2005	5 758	35.7	40.8	23.5	2005	5 796	30.3	45.0	24.7
2006	5 757	34.5	41.6	23.9	2006	5 716	30.4	44.3	25.3
2007	4 613	37.7	40.5	21.8	2007	5 716	26.5	44.0	29.5

All species

SUB-ATLANTIC	Number of trees	0-10%	>10-25%	>25%
1997	29 836	21.5	43.1	35.4
1998	27 867	24.8	44.9	30.3
1999	28 656	24.8	46.6	28.6
2000	28 421	23.8	47.1	29.1
2001	28 455	22.7	47.5	29.8
2002	28 471	22.0	48.3	29.7
2003	28 448	20.1	49.1	30.8
2004	28 544	17.5	46.8	35.7
2005	28 494	19.3	46.7	34.0
2006	24 587	25.3	45.2	29.5
2007	26 112	23.7	48.2	28.1

MEDITERR. (HIGHER)	Number of trees	0-10%	>10-25%	>25%
1997	7 037	30.3	40.6	29.1
1998	6 976	33.6	42.5	23.9
1999	8 097	31.7	45.0	23.3
2000	8 080	30.8	46.7	22.5
2001	8 115	26.8	47.0	26.2
2002	7 949	25.4	47.9	26.7
2003	7 856	23.3	50.2	26.5
2004	8 077	23.4	50.6	26.0
2005	8 001	21.4	48.7	29.9
2006	8 090	21.2	47.2	31.6
2007	8 118	19.6	51.0	29.4

MEDITERR. (LOWER)	Number of trees	0-10%	>10-25%	>25%
1997	8 512	28.2	49.3	22.5
1998	8 543	30.3	47.7	22.0
1999	10 847	27.3	50.6	22.1
2000	10 938	24.9	52.4	22.7
2001	10 973	22.9	54.4	22.7
2002	11 032	20.5	55.9	23.6
2003	10 859	18.6	56.7	24.7
2004	11 018	21.3	56.6	22.1
2005	10 956	18.5	53.6	27.9
2006	10 970	20.3	54.0	25.7
2007	10 916	18.4	57.0	24.6

MOUNTAIN-OUS (NORTH)	Number of trees	0-10%	>10-25%	>25%
1997	3 223	43.7	33.4	22.9
1998	3 214	45.0	33.3	21.7
1999	3 203	46.0	33.6	20.4
2000	3 204	47.8	35.9	16.3
2001	3 460	50.5	32.0	17.5
2002	3 527	46.1	34.8	19.1
2003	3 500	47.5	33.1	19.4
2004	3 768	51.9	28.8	19.3
2005	3 908	53.5	28.6	17.9
2006	3 940	49.6	31.6	18.8
2007	4 121	44.8	31.1	24.1

MOUNTAIN-OUS (SOUTH)	Number of trees	0-10%	>10-25%	>25%
1997	13 457	29.7	39.9	30.4
1998	13 592	32.1	37.6	30.3
1999	14 860	33.2	39.9	26.9
2000	15 246	33.0	41.6	25.4
2001	15 022	30.8	42.9	26.3
2002	14 630	28.1	45.3	26.6
2003	14 923	25.1	46.7	28.2
2004	15 169	24.1	44.8	31.1
2005	14 509	25.6	46.5	27.9
2006	13 490	27.8	43.0	29.2
2007	13 295	23.2	46.8	30.0

BOREAL	0-10%	>10-25%	>25%	0-10%
1997	11 268	60.9	27.6	11.5
1998	11 249	60.3	28.4	11.3
1999	11 199	60.7	28	11.3
2000	11 129	59.1	30.0	10.9
2001	11 157	58.4	31.0	10.6
2002	11 270	56.5	33.0	10.5
2003	11 177	55.4	34.7	9.9
2004	14 016	58.0	32.7	9.3
2005	14 342	59.1	32.4	8.5
2006	14 379	56.5	34.6	8.9
2007	14 121	54.0	36.1	9.9

BOREAL (TEMP.)	Number of trees	0-10%	>10-25%	>25%
1997	5 507	25.5	57.7	16.8
1998	5 531	27.9	55.6	16.5
1999	5 555	25.2	60.5	14.3
2000	5 434	24.9	59.9	15.2
2001	5 608	24.2	62.6	13.2
2002	5 608	24.8	62.2	13.0
2003	5 558	26.0	60.9	13.1
2004	5 596	28.9	58.7	12.4
2005	5 482	29.8	58.7	11.5
2006	5 495	28.6	59.3	12.1
2007	5 491	30.7	56.1	13.2

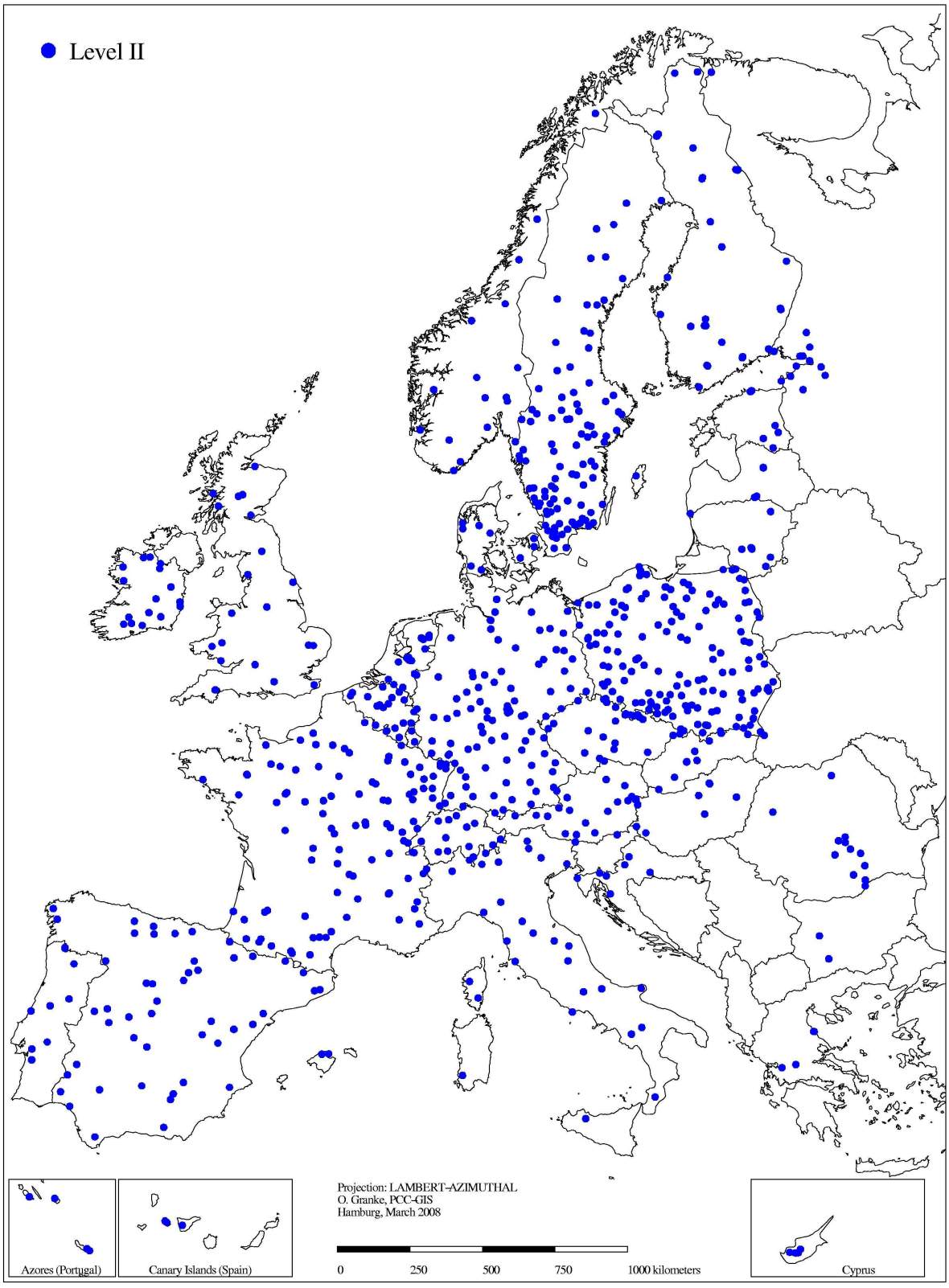
CONTINENTAL	Number of trees	0-10%	>10-25%	>25%
1997	3 091	41.3	26.9	31.8
1998	3 595	35.1	27.7	37.2
1999	2 867	48.8	28.1	23.1
2000	2 965	40.9	23.1	36.0
2001	3 285	40.3	30.0	29.7
2002	3 225	37.0	36.1	26.9
2003	3 103	35.4	36.4	28.2
2004	2 961	38.9	31.3	29.8
2005	3 276	42.8	27.7	29.5
2006	3 374	41.5	30.0	28.5
2007	3 433	33.3	40.7	26.0

ALL REGIONS	Number of trees	0-10%	>10-25%	>25%
1997	92 945	32.8	40.4	26.8
1998	91 753	34.6	40.7	24.7
1999	97 133	34.9	42.6	22.5
2000	97 178	33.7	43.4	22.9
2001	97 792	32.2	44.7	23.1
2002	97 433	30.2	46.2	23.6
2003	96 996	28.5	46.9	24.6
2004	100 729	29.3	44.9	25.8
2005	100 522	30.2	44.5	25.3
2006	95 798	32.0	43.9	24.1
2007	95 936	29.6	46.3	24.1

Period 1990 - 2007				Period 1997 - 2007		
Year	**No. of trees** N	**Mean defoliation** $\bar{x}$	**Standard error** $s_{\bar{x}} = s/\sqrt{N}$	**No. of trees** N	**Mean defoliation** $\bar{x}$	**Standard error** $s_{\bar{x}} = s/\sqrt{N}$
Pinus sylvestris						
1990	11485	24.5	0.15			
1991	11732	26.4	0.14			
1992	11742	27.1	0.14			
1993	11779	26.8	0.14			
1994	11147	27.9	0.14			
1995	10969	26.2	0.14			
1996	11011	23.6	0.13			
1997	10969	22.7	0.12	24798	20.2	0.10
1998	11462	22.1	0.12	24766	19.6	0.09
1999	11696	21.5	0.11	24970	18.9	0.09
2000	11617	22.1	0.12	24676	18.9	0.09
2001	11643	22.0	0.11	24863	18.8	0.09
2002	11518	22.6	0.12	24782	19.3	0.09
2003	11557	22.7	0.12	25096	19.5	0.09
2004	11589	22.9	0.12	26599	19.0	0.08
2005	11412	22.9	0.13	26788	19.0	0.09
2006	8356	20.4	0.13	23934	18.2	0.09
2007	9110	20.2	0.12	24577	18.2	0.08
Picea abies						
1990	6488	22.4	0.22			
1991	6633	22.5	0.21			
1992	6659	23.3	0.20			
1993	6583	24.3	0.22			
1994	6552	25.7	0.23			
1995	6699	24.6	0.23			
1996	6706	22.3	0.21			
1997	6615	22.9	0.20	18970	21.9	0.12
1998	7887	22.0	0.18	17251	20.3	0.12
1999	7855	21.8	0.18	17753	19.9	0.12
2000	7781	22.9	0.18	17885	20.2	0.12
2001	7506	22.7	0.17	17968	20.0	0.12
2002	7525	23.3	0.18	18050	20.4	0.12
2003	7570	23.2	0.18	17922	20.5	0.12
2004	7486	25.3	0.19	18668	20.9	0.12
2005	7378	23.2	0.18	18276	20.3	0.12
2006	4346	21.6	0.24	16218	18.8	0.12
2007	4226	22.3	0.24	15542	19.9	0.13
Quercus robur and ***Q. petraea***						
1990	2539	21.3	0.35			
1991	2548	23.8	0.33			
1992	2517	24.3	0.32			
1993	2523	26.6	0.33			
1994	2467	28.3	0.34			
1995	2551	27.6	0.34			
1996	2527	28.3	0.36			
1997	2559	26.5	0.32	7252	25.4	0.21
1998	2672	26.1	0.31	7376	24.7	0.21
1999	2747	24.0	0.29	7390	22.8	0.18
2000	2748	23.9	0.29	7439	23.3	0.19
2001	2758	24.1	0.28	7349	23.8	0.19
2002	2768	23.5	0.28	7228	23.6	0.18
2003	2782	24.7	0.27	7221	25.2	0.18
2004	2878	26.6	0.31	7326	26.3	0.19
2005	2838	25.8	0.30	7383	26.7	0.19
2006	2299	22.1	0.31	6866	25.1	0.20
2007	2444	23.2	0.34	6994	25.7	0.20

Period 1990 - 2007				Period 1997 - 2007		
Year	**No. of trees** N	**Mean defoliation** $\bar{x}$	**Standard error** $s_{\bar{x}} = s/\sqrt{N}$	**No. of trees** N	**Mean defoliation** $\bar{x}$	**Standard error** $s_{\bar{x}} = s/\sqrt{N}$
Fagus sylvatica						
1990	4015	17.9	0.22			
1991	4064	17.2	0.21			
1992	4091	20.8	0.23			
1993	4109	20.0	0.24			
1994	3948	21.6	0.22			
1995	4127	22.2	0.22			
1996	4092	21.1	0.21			
1997	4163	20.6	0.20	9044	20.8	0.17
1998	4417	19.5	0.20	9138	20.1	0.17
1999	4568	20.6	0.19	9458	20.6	0.15
2000	4637	20.5	0.21	9623	20.5	0.16
2001	4640	21.5	0.21	9590	21.3	0.16
2002	4649	20.0	0.19	9710	20.8	0.15
2003	4678	21.7	0.20	9679	21.0	0.15
2004	4693	24.2	0.22	9627	23.5	0.16
2005	4651	21.9	0.20	9757	21.7	0.16
2006	3843	21.3	0.22	9312	21.9	0.18
2007	3939	20.9	0.20	9231	21.4	0.15
Pinus pinaster						
1990	966	11.1	0.49			
1991	936	15.3	0.68			
1992	981	15.7	0.65			
1993	980	15.9	0.63			
1994	959	17.5	0.67			
1995	953	16.5	0.51			
1996	952	20.2	0.73			
1997	951	17.8	0.66	1947	17.6	0.46
1998	949	17.9	0.65	1915	18.4	0.41
1999	1508	18.2	0.55	2444	16.1	0.38
2000	1511	20.9	0.68	2392	17.2	0.45
2001	1494	15.5	0.37	2412	14.3	0.27
2002	1492	17.3	0.40	2392	15.0	0.23
2003	1463	18.5	0.43	2392	17.7	0.34
2004	1454	21.5	0.59	2377	19.7	0.43
2005	1462	20.6	0.52	2357	19.3	0.38
2006	1465	20.6	0.52	2358	19.1	0.37
2007	1462	20.4	0.53	2378	20.0	0.44
Quercus ilex and ***Q. rotundifolia***						
1990	2392	10.3	0.18			
1991	2373	12.7	0.15			
1992	2398	15.9	0.25			
1993	2397	15.9	0.19			
1994	2371	20.7	0.35			
1995	2396	25.6	0.34			
1996	2379	24.2	0.31			
1997	2380	20.8	0.30	2996	21.7	0.26
1998	2372	18.1	0.24	2953	19.4	0.23
1999	3166	21.2	0.25	3801	21.3	0.22
2000	3196	20.8	0.21	3868	21.4	0.20
2001	3197	20.0	0.20	3880	20.8	0.20
2002	3201	21.3	0.19	3871	22.0	0.20
2003	3202	22.4	0.24	3800	23.2	0.22
2004	3198	20.3	0.19	3869	21.5	0.20
2005	3204	23.5	0.19	3824	24.3	0.20
2006	3210	23.5	0.22	3824	24.6	0.22
2007	3212	22.2	0.21	3876	23.3	0.21

Annex I-10
Level II plots



Annex II

National Surveys

Annex II-1

Forests and surveys in European countries (2007)

Participating countries	Total area (1000 ha)	Forest area (1000 ha)	Coniferous forest (1000 ha)	Broadleav. forest (1000 ha)	Area surveyed (1000 ha)	Grid size (km x km)	No. of sample plots	No. of sample trees
Albania	2875	1063	171	600	no survey in 2007			
Andorra	47	18	15	2	18	16 x 16	3	72
Austria	8385	3878	2683	798	no survey in 2007			
Belarus	20760	7812	4685	3127	7812	16 x 16	400	9425
Belgium	3035	691	281	324	691	4^2 / 8^2	121	2863
Bulgaria	11100	4064	1289	2775	4064	4^2/8^2/16^2	145	4926
Croatia	5654	2061	321	1740	2061	16 x 16	83	2013
Cyprus	925	298	172	0	138	16x16	15	360
Czech Republic	7886	2647	2014	633	2647	8^2/16^2	132	5489
Denmark	4300	486	200	150	486	7^2/16^2	19	442
Estonia	4510	2252	1146	1106	2252	16 x 16	93	2209
Finland	30413	20149	17984	1899	19883	16^2 / 24x32	593	11199
France	54883	15840	4041	9884	13100	16 x 16	504	10073
Germany	35562	11076	6084	4236	10890	16^2 / 4^2	420	10241
Greece	12890	2512	954	1080	no survey in 2007			
Hungary	9300	1869	231	1638	1869	16 x 16	78	1872
Ireland	7028	680	399	37	399	16 x 16	34	772
Italy	30128	8675	1735	6940	8675	16 x 16	238	6636
Latvia	6459	2958	1549	1255	2958	8 x 8	349	8278
Liechtenstein	16	8	6	2	no survey in 2007			
Lithuania	6530	2136	1148	881	2030	8x8/16x16	271	6538
Luxembourg	259	89	30	54	no survey in 2007			
Rep. of Moldova	3376	318	6	312	318	2x2/2x4	528	14176
The Netherlands	3482	334	158	52	no survey in 2007			
Norway	32376	12000	6800	5200	12000	3^2/9^2	1658	9161
Poland	31268	9200	6955	2245	9200	16 x 16	458	9160
Portugal	8893	3234	1081	2153	no survey in 2007			
Romania	23839	6233	1873	4360	6244	16 x 16	218	5232
Russian Fed.	11100	8125			no survey in 2007			
Serbia	8836	2360	179	2181	1868	16 x 16/4 x 4	130	2860
Slovak Republic	4901	1961	815	1069	1961	16 x 16	107	4023
Slovenia	2027	1099	410	688	1099	16 x 16	45	1056
Spain	50471	11588	5910	4056	11588	16 x 16	620	14880
Sweden	41000	23400	19600	900	20600	varying	3554	7208
Switzerland	4129	1186	818	368	1186	16 x 16	48	1028
Turkey	77846	21189	12773	8416	1229	16 x 16	48	949
Ukraine	60350	9400	3969	5347	6033	16 x 16	1551	36596
United Kingdom	24291	2837	1640	1197	450	random	156	3744
TOTAL	651130	205726	110125	77705	153749	varying	12601	193442

Annex II-2

Percent of trees of all species by defoliation classes and class aggregates (2007)

Participating countries	Area surveyed (1000 ha)	No. of sample trees	0 none	1 slight	2 moderate	3+4 severe and dead	2+3+4
Albania			no survey in 2007				
Andorra	18	72	15.3	37.5	44.4	2.8	47.2
Austria			no survey in 2007				
Belarus	7812	9425	34.0	57.9	6.6	1.5	8.1
Belgium	691	2863	34.5	49.1	14.9	1.5	16.4
Bulgaria	4064	4926	20.5	49.9	23.9	5.8	29.7
Croatia	2061	2012	37.2	37.7	21.6	3.5	25.1
Cyprus	138	360	10.3	73.0	16.4	0.3	16.7
Czech Republic	2647	5489	12.2	30.7	55.4	1.7	57.1
Denmark	468	442	67.4	26.5	4.5	1.6	6.1
Estonia	2252	2209	50.1	43.1	5.2	1.6	6.8
Finland	19883	11199	52.1	37.4	9.5	1.0	10.5
France	13100	10073	29.0	35.6	31.8	3.6	35.4
Germany	10890	10241	30.0	45.2	23.2	1.6	24.8
Greece			no survey in 2007				
Hungary	1869	1872	51.8	27.5	12.5	8.2	20.7
Ireland	399	772	76.3	17.5	5.4	0.8	6.2
Italy	436	6636	24.0	40.3	30.1	5.6	35.7
Latvia	2958	8278	20.0	65.0	12.9	2.1	15.0
Liechtenstein			no survey in 2007				
Lithuania	2014	6538	20.2	67.5	10.2	2.1	12.3
Luxembourg			no survey in 2007				
Rep. of Moldova	318	14176	36.1	31.4	25.1	7.4	32.5
The Netherlands			no survey in 2007				
Norway	12000	9161	37.4	36.4	21.4	4.8	26.2
Poland	9200	9160	23.8	56.1	19.4	0.8	20.2
Portugal			no survey in 2007				
Romania	6244	5232	34.7	42.1	21.6	1.6	23.2
Russian Fed.			no survey in 2007				
Serbia	1868	2860	55.2	29.4	13.5	1.9	15.4
Slovak Republic	1961	4023	12.6	61.8	24.0	1.6	25.6
Slovenia	1099	1056	22.3	42.0	30.7	5.2	35.8
Spain	11588	14880	18.0	64.3	14.6	3.1	17.6
Sweden	20600	7208	52.6	29.5	15.8	2.1	17.9
Switzerland	1186	1028	27.8	49.8	12.8	9.6	22.4
Turkey	1229	949	58.0	33.8	7.6	0.6	8.2
Ukraine	6033	36596	68.6	24.3	5.8	1.3	7.1
United Kingdom	450	3744	26.5	47.5	23.8	2.2	26.0

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction, however, does not affect the reliability of the trends over time.

Annex II-3

Percent of conifers by defoliation classes and class aggregates (2007)

Participating countries	Coniferous forest (1000 ha)	No. of sample trees	0 none	1 slight	2 moderate	3+4 severe and dead	2+3+4
Albania			no survey in 2007				
Andorra	15	72	15.3	37.5	44.4	2.8	47.2
Austria	2683		no survey in 2007				
Belarus	4685	6859	31.6	60.3	6.6	1.5	8.1
Belgium	281	909	31.2	54.9	12.0	1.8	13.9
Bulgaria	1289	2586	11.0	51.6	31.7	5.7	37.4
Croatia	321	252	10.7	28.2	49.2	11.9	61.1
Cyprus	172	360	10.3	73.0	16.4	0.3	16.7
Czech Republic	2014	4398	10.4	26.6	61.2	1.8	62.9
Denmark	294	259	83.8	13.1	1.9	1.2	3.1
Estonia	1146	2092	58.4	34.9	4.7	2.0	6.7
Finland	17984	9311	51.5	38.1	9.4	1.0	10.4
France	4041	3563	48.4	27.5	20.9	3.2	24.1
Germany	6084	6424	33.1	46.7	18.7	1.5	20.2
Greece	954		no survey in 2007				
Hungary	231	257	49.6	28.1	14.8	7.5	22.3
Ireland	399	772	76.3	17.5	5.4	0.8	6.2
Italy	1735	1723	39.9	37.4	19.5	3.2	22.7
Latvia	1549	6020	14.6	69.2	14.1	2.1	16.2
Liechtenstein	6		no survey in 2007				
Lithuania	1148	4627	20.9	68.9	9.0	1.2	10.2
Luxembourg	30		no survey in 2007				
Rep. of Moldova	6	70	40.0	25.7	31.4	2.9	34.3
The Netherlands			no survey in 2007				
Norway	6800	6946	42.3	34.7	19.1	3.9	23.0
Poland	6955	5937	21.3	57.8	20.1	0.7	20.9
Portugal	1081		no survey in 2007				
Romania	1873	1104	38.3	39.9	19.1	2.7	21.8
Russian Fed.	5800		no survey in 2007				
Serbia	179	339	67.5	19.2	9.7	3.6	13.3
Slovak Republic	815	1728	4.7	57.8	36.1	1.4	37.5
Slovenia	410	406	26.1	37.9	31.3	4.7	36.0
Spain	5910	7520	22.2	62.0	12.9	2.9	15.8
Sweden	19600	7208	52.6	29.5	15.8	2.1	17.9
Switzerland	818	733	24.4	54.9	13.7	7.0	20.7
Turkey	12773	949	58.0	33.8	7.6	0.6	8.2
Ukraine	3969	15738	70.8	22.1	6.2	0.9	7.1
United Kingdom	1640	1824	35.3	48.6	14.9	1.2	16.1

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction, however, does not affect the reliability of the trends over time.

Annex II-4

Percent of broadleaves by defoliation classes and class aggregates (2007)

Participating countries	Broadleav. forest (1000 ha)	No. of sample trees	0 none	1 slight	2 moderate	3+4 severe and dead	2+3+4
Albania			no survey in 2007				
Andorra	2		only conifers assessed				
Austria	798		no survey in 2007				
Belarus	3127	2566	40.3	51.5	6.7	1.5	8.2
Belgium	324	1954	36.1	46.4	16.2	1.3	17.5
Bulgaria	2775	2340	31.0	47.9	15.2	5.9	21.1
Croatia	1740	1760	41.0	39.0	17.6	2.4	20.0
Cyprus			only conifers assessed				
Czech Republic	633	1091	19.3	47.2	32.4	1.1	33.5
Denmark	174	183	44.3	45.4	8.2	2.1	10.3
Estonia	1106	117	66.7	33.3	0.0	0.0	0.0
Finland	1899	1888	54.9	34.2	9.5	1.4	10.9
France	9884	6510	18.4	40.0	37.8	3.8	41.6
Germany	4236	3817	24.6	42.6	31.0	1.8	32.8
Greece	1080		no survey in 2007				
Hungary	1638	1615	55.2	24.2	12.8	7.8	20.6
Ireland	37		only conifers assessed				
Italy	6940	4913	18.4	41.2	33.9	6.5	40.4
Latvia	1255	2258	34.5	53.7	9.7	2.1	11.8
Liechtenstein	2		no survey in 2007				
Lithuania	881	1911	18.5	63.8	13.3	4.4	17.7
Luxembourg	54		no survey in 2007				
Rep. of Moldova	312	14106	36.1	31.4	25.1	7.4	32.5
The Netherlands			no survey in 2007				
Norway	5200	2215	21.9	41.8	28.8	7.5	36.3
Poland	2245	3223	28.3	52.8	18.0	0.9	18.9
Portugal	2153		no survey in 2007				
Romania	4360	4128	33.7	42.8	22.3	1.2	23.5
Russian Fed.	510		no survey in 2007				
Serbia	2181	2521	53.5	30.8	14.0	1.7	15.7
Slovak Republic	1069	2295	18.5	64.9	14.9	1.7	16.6
Slovenia	688	650	19.8	44.5	30.3	5.4	35.7
Spain	4056	7360	13.7	66.8	16.3	3.2	19.5
Sweden	900		only conifers assessed				
Switzerland	368	295	35.1	38.8	10.9	15.2	26.1
Turkey	8416		only conifers assessed				
Ukraine	5347	20704	66.9	26.0	5.5	1.6	7.1
United Kingdom	1197	1920	18.2	46.5	32.1	3.2	35.3

Norway: Special study on birch.

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction, however, does not affect the reliability of the trends over time.

Annex II-5

Percent of damaged trees of all species (1996-2007)

Participating countries	All species Defoliation classes 2-4												change% points 2006/ 2007
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
Albania			9.8	9.9	10.1	10.2	13.1		12.2		11.1		
Andorra									36.1		23.0	47.2	-24.2*
Austria	7.9	7.1	6.7	6.8	8.9	9.7	10.2	11.1	13.1	14.8	15.0		
Belarus	39.7	36.3	30.5	26.0	24.0	20.7	9.5	11.3	10.0	9.0	7.9	8.1	0.2
Belgium	21.2	17.4	17.0	17.7	19.0	17.9	17.8	17.3	19.4	19.9	17.9	16.4	-1.5
Bulgaria	39.2	49.6	60.2	44.2	46.3	33.8	37.1	33.7	39.7	35.0	37.4	29.7	-7.7
Croatia	30.1	33.1	25.6	23.1	23.4	25.0	20.6	22.0	25.2	27.1	24.9	25.1	0.2
Cyprus						8.9	2.8	18.4	12.2	10.8	20.8	16.7	-4.1
Czech Rep.	71.9	68.6	48.8	50.4	51.7	52.1	53.4	54.4	57.3	57.1	56.2	57.1	0.9
Denmark	28.0	20.7	22.0	13.2	11.0	7.4	8.7	10.2	11.8	9.4	7.6	6.1	-1.5
Estonia	14.2	11.2	8.7	8.7	7.4	8.5	7.6	7.6	5.3	5.4	6.2	6.8	0.6
Finland	13.2	12.2	11.8	11.4	11.6	11.0	11.5	10.7	9.8	8.8	9.7	10.5	0.8
France	17.8	25.2	23.3	19.7	18.3	20.3	21.9	28.4	31.7	34.2	35.6	35.4	-0.2
Germany	20.3	19.8	21.0	21.7	23.0	21.9	21.4	22.5	31.4	28.5	27.9	24.8	-3.1
Greece	23.9	23.7	21.7	16.6	18.2	21.7	20.9			16.3			
Hungary	19.2	19.4	19.0	18.2	20.8	21.2	21.2	22.5	21.5	21.0	19.2	20.7	**
Ireland	13.0	13.6	16.1	13.0	14.6	17.4	20.7	13.9	17.4	16.2	7.4	6.0	-1.4
Italy	29.9	35.8	35.9	35.3	34.4	38.4	37.3	37.6	35.9	32.9	30.5	35.7	5.2
Latvia	21.2	19.2	16.6	18.9	20.7	15.6	13.8	12.5	12.5	13.1	13.4	15.0	1.6
Liechtenstein													
Lithuania	12.6	14.5	15.7	11.6	13.9	11.7	12.8	14.7	13.9	11.0	12.0	12.3	0.3
Luxembourg	37.5	29.9	25.3	19.2	23.4								
Rep. of Moldova	41.2				29.1	36.9	42.5	42.4	34.0	26.5	27.6	32.5	4.9
The Netherlands	34.1	34.6	31.0	12.9	21.8	19.9	21.7	18.0	27.5	30.2	19.5		
Norway	29.4	30.7	30.6	28.6	24.3	27.2	25.5	22.9	20.7	21.6	23.3	26.2	2.9
Poland	39.7	36.6	34.6	30.6	32.0	30.6	32.7	34.7	34.6	30.7	20.1	20.2	0.1
Portugal	7.3	8.3	10.2	11.1	10.3	10.1	9.6	13.0	16.6	24.3			
Romania	16.9	15.6	12.3	12.7	14.3	13.3	13.5	12.6	11.7	8.1	8.6	23.2	**
Russian Fed.						9.8	10.9						
Serbia	3.6	7.7	8.4	11.2	8.4	14.0	3.9	22.8	14.3	16.4	11.3	15.4	4.1
Slovak Rep.	34.0	31.0	32.5	27.8	23.5	31.7	24.8	31.4	26.7	22.9	28.1	25.6	-2.5
Slovenia	19.0	25.7	27.6	29.1	24.8	28.9	28.1	27.5	29.3	30.6	29.4	35.8	6.4
Spain	19.4	13.7	13.6	12.9	13.8	13.0	16.4	16.6	15.0	21.3	21.5	17.6	-3.9
Sweden	17.4	14.9	14.2	13.2	13.7	17.5	16.8	19.2	16.5	18.4	19.4	17.9	**
Switzerland	20.8	16.9	19.1	19.0	29.4	18.2	18.6	14.9	29.1	28.1	22.6	22.4	-0.2
Turkey												8.1	
Ukraine	46.0	31.4	51.5	56.2	60.7	39.6	27.7	27.0	29.9	8.7	6.6	7.1	0.5
United Kingdom	14.3	19.0	21.1	21.4	21.6	21.1	27.3	24.7	26.5	24.8	25.9	26.0	**

Austria: From 2003 on, results are based on the 16x16 km transnational grid net and must not be compared with previous years. *Czech Republic*: Only trees older than 60 years assessed until 1997. *France*: Due to methodological changes, only the time series 1997-2007 are consistent. *Italy*: Due to methodological changes, only the time series 1993-96 and 1997-2007 are consistent, but not comparable to each other. *Russian Federation:* North-western and Central European parts only. *Ukraine*: Due to a denser gridnet since 2005, results must not be compared with previous years. * observe the small sample size **comparison not possible due to changing survey design

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction, however, does not affect the reliability of the trends over time.

Annex II-6

Percent of damaged conifers (1996-2007)

Paticipating countries	Conifers Defoliation classes 2-4												change % points
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2006/ 2007
Albania			12.0	12.1	12.3	12.4	15.5		14.0		13.6		
Andorra									36.1		23.0	47.2	-24.2*
Austria	7.3	6.3	6.3	6.4	9.1	9.6	10.1	11.2	13.1	15.1	14.5		
Belarus	43.1	41.2	33.9	28.9	26.1	23.4	9.7	9.5	8.9	8.4	7.5	8.1	0.6
Belgium	25.8	19.2	13.5	15.5	19.5	17.5	19.7	18.6	15.6	16.8	15.8	13.9	-1.9
Bulgaria	46.5	53.5	69.8	48.9	46.4	39.1	44.0	38.4	47.1	45.4	47.6	37.4	-10.2
Croatia	57.0	68.7	45.8	53.2	53.3	65.1	63.5	77.4	70.6	79.5	71.7	61.1	-10.6
Cyprus						8.9	2.8	18.4	12.2	10.8	20.8	16.7	-4.1
Czech Rep.	74.9	71.9	54.6	57.4	58.3	58.1	60.1	60.7	62.6	62.7	62.3	62.9	0.6
Denmark	23.2	15.9	17.0	9.9	8.8	6.7	4.5	6.1	5.8	5.5	1.7	3.1	1.4
Estonia	14.6	11.4	9.0	9.1	7.5	8.8	7.9	7.7	5.3	5.6	6.0	6.7	0.7
Finland	13.7	12.8	12.2	11.9	12.0	11.4	11.9	11.1	10.1	9.2	9.6	10.4	0.8
France	13.5	16.2	16.8	14.1	12.0	14.0	15.2	18.9	18.6	20.8	23.6	24.1	0.5
Germany	16.7	15.4	19.0	19.2	19.6	20.0	19.8	20.1	26.3	24.9	22.7	20.2	-2.5
Greece	14.4	13.8	12.9	13.5	16.5	17.2	16.1			15.0			
Hungary	17.8	17.4	18.7	17.6	21.5	19.5	22.8	27.6	24.2	22.0	20.8	22.3	**
Ireland	13.0	13.6	16.1	13.0	14.6	17.4	20.7	13.9	17.4	16.2	7.4	6.2	-1.2
Italy	25.1	28.1	25.5	23.1	19.2	19.1	20.5	20.4	21.7	22.8	19.5	22.7	3.2
Latvia	24.8	21.9	18.9	20.6	20.1	15.8	14.3	12.2	11.9	13.2	15.2	16.2	1.0
Liechtenstein													
Lithuania	12.9	13.9	13.6	11.5	12.0	9.8	9.3	10.7	10.2	9.3	9.5	10.2	0.7
Luxembourg	12.7	8.0	10.5	8.7	7.0								
Rep. of Moldova	48.4							55.4	35.5	38.0	38.6	34.3	-4.3
The Netherlands	43.5	45.3	43.2	14.5	23.5	20.7	17.5	9.4	17.2	17.9	15.3		
Norway	25.1	28.5	27.5	24.3	21.8	25.1	24.1	21.2	16.7	19.7	20.2	23.0	2.8
Poland	40.5	36.8	34.6	30.6	32.1	30.3	32.5	33.2	33.4	29.6	21.1	20.9	-0.2
Portugal	5.6	7.8	6.6	6.0	4.3	4.3	3.6	5.3	10.8	17.1			
Romania	10.4	10.3	9.0	9.1	9.8	9.6	9.9	9.8	7.6	4.7	5.2	21.8	**
Russian Fed.	9.4	0.0				9.8	10.0						
Serbia	4.4	7.9	6.0	9.2	10.0	21.3	7.3	39.6	19.8	21.3	12.6	13.3	0.7
Slovak Rep.	41.0	42.2	40.3	40.2	37.9	38.7	40.4	39.7	36.2	35.3	42.4	37.5	-4.9
Slovenia	26.0	32.5	36.7	38.0	34.5	32.2	31.4	35.3	37.4	33.8	32.1	36.0	3.9
Spain	18.1	11.5	12.9	9.8	12.0	11.6	15.6	14.1	14.0	19.4	18.7	15.8	-2.9
Sweden	16.9	15.9	15.0	13.6	13.5	18.4	17.7	20.4	16.0	19.6	20.1	17.9	-2.2
Switzerland	21.4	19.9	19.7	18.3	33.0	19.1	19.9	13.3	27.4	28.2	22.5	20.7	-1.8
Turkey												8.1	
Ukraine	45.8	32.7	64.9	50.0	47.3	16.8	14.6	15.4	11.4	8.1	6.9	7.1	0.2
United Kingdom	13.9	17.0	19.8	20.1	20.2	20.6	25.1	25.8	23.2	22.2	23.3	16.1	**

Austria: From 2003 on, results are based on the 16x16 km transnational grid net and must not be compared with previous years. *Czech Republic*: Only trees older than 60 years assessed until 1997. *France*: Due to methodological changes, only the time series 1997-2007 are consistent. *Italy*: Due to methodological changes, only the time series 1993-96 and 1997-2007 are consistent, but not comparable to each other. *Russian Federation:* North-western and Central European parts only. *Ukraine*: Due to a denser gridnet since 2005, results must not be compared with previous years. * observe the small sample size **comparison not possible due to changing survey design

Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction, however, does not affect the reliability of the trends over time.

Annex II-7

Percent of damaged broadleaves (1996-2007)

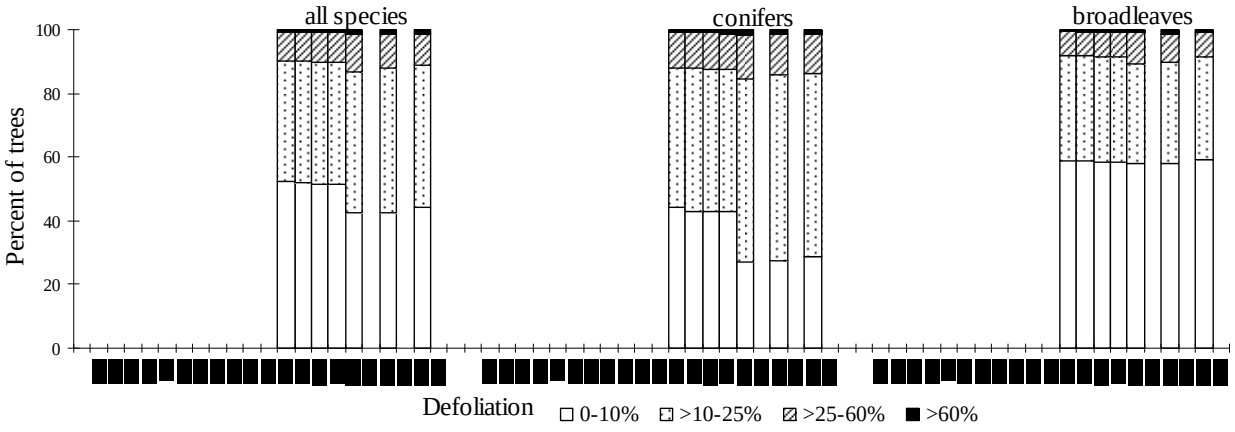
Paticipating countries	Broadleaves Defoliation classes 2-4												change % points 2006/ 2007
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
Albania			8.0	8.1	8.4	8.4	10.7		10.3		8.5		
Andorra								only conifers assessed					
Austria	11.6	12.2	9.6	9.4	7.6	10.4	11.3	10.2	13.6	12.9	20.1		
Belarus	29.2	23.0	19.3	17.0	16.9	13.3	9.0	15.8	12.9	10.6	8.9	8.2	-0.7
Belgium	18.5	16.1	19.2	19.1	18.8	18.3	17.0	16.6	21.3	21.4	18.8	17.5	-1.3
Bulgaria	33.0	43.9	48.4	35.9	45.8	26.0	29.0	27.2	30.1	23.1	36.4	21.1	-15.3
Croatia	26.0	27.8	21.9	16.8	18.3	18.7	14.4	14.3	17.2	19.2	18.2	20.0	1.8
Cyprus								only conifers assessed					
Czech Rep.	34.0	26.5	13.5	17.1	21.4	21.7	19.9	24.4	31.8	32.0	31.2	33.5	2.3
Denmark	36.1	28.4	30.1	18.8	13.9	8.5	15.4	16.6	19.1	14.4	14.8	10.3	-4.5
Estonia	5.3	7.4	1.0	1.1	9.5	2.1	2.7	6.7	5.3	3.4	8.6	0.0	-8.6
Finland	10.3	8.4	9.4	8.6	9.9	8.8	8.8	8.3	8.4	7.2	10.3	10.9	0.6
France	20.1	29.9	26.9	22.9	21.6	23.6	25.5	33.5	38.7	41.3	42.0	41.6	-0.4
Germany	30.8	28.6	25.2	26.9	29.9	25.4	24.7	27.3	41.5	35.8	37.2	32.8	-4.4
Greece	34.6	34.9	31.7	20.2	20.2	26.6	26.5			17.9			
Hungary	19.5	19.7	19.0	18.2	20.8	21.5	20.8	22.0	21.0	20.9	19.0	20.6	**
Ireland								only conifers assessed					
Italy	31.2	38.0	38.9	39.3	40.5	46.3	44.6	45.0	42.0	36.5	35.2	40.4	5.2
Latvia	11.4	11.3	13.6	14.2	22.2	14.8	12.8	13.5	14.3	12.9	8.5	11.8	3.3
Liechtenstein													
Lithuania	12.2	15.9	19.7	11.8	17.7	16.3	19.0	24.6	21.8	15.4	16.6	17.7	1.1
Luxembourg	49.8	41.8	33.3	25.8	33.5								
Rep. of Moldova	41.1	30.0		41.4	29.2	36.9	42.5	42.3	33.9	26.4	27.6	7.4	-20.2
The Netherlands	19.2	17.8	14.0	10.0	18.8	18.5	29.6	33.7	46.9	53.1	26.2		
Norway	45.0	38.9	42.2	44.8	34.0	33.7	30.4	29.0	33.2	27.6	33.2	36.3	3.1
Poland	37.4	35.8	34.8	31.1	32.0	31.4	33.1	39.6	38.7	34.1	18.0	18.9	0.9
Portugal	8.3	8.6	12.0	13.7	13.2	12.8	12.6	16.2	19.0	27.0			
Romania	18.7	16.9	13.3	14.0	15.8	14.7	14.8	13.3	13.0	9.3	9.9	23.5	**
Russian Fed.							16.0						
Serbia	3.5	7.4	10.1	13.0	6.7	6.7	0.6	21.5	13.5	15.7	11.0	15.7	4.7
Slovak Rep.	28.0	23.3	27.0	19.3	13.9	26.9	14.5	25.6	19.9	13.6	17.0	16.6	-0.4
Slovenia	15.0	21.4	21.7	23.2	18.4	26.7	25.9	22.6	24.2	28.5	27.6	35.7	8.1
Spain	20.7	15.8	14.4	16.1	15.7	14.4	17.3	19.1	16.1	23.3	24.4	19.5	-4.9
Sweden	20.7	6.1	7.4	8.7	7.5	14.1	9.6	11.1	8.3	9.2	10.8	only conifers	
Switzerland	19.8	12.5	18.1	20.4	22.1	16.3	16.0	18.1	32.8	27.9	22.6	26.1	3.5
Turkey								only conifers assessed					
Ukraine	46.2	30.7	43.2	59.7	69.6	53.3	36.7	35.3	43.2	9.2	6.2	7.1	0.9
United Kingdom	15.0	22.0	22.9	23.2	23.8	21.9	30.3	23.2	30.6	28.2	29.2	35.3	**

Austria: From 2003 on, results are based on the 16x16 km transnational grid net and must not be compared with previous years. *Czech Republic*: Only trees older than 60 years assessed until 1997. *France*: Due to methodological changes, only the time series 1997-2007 are consistent. *Italy*: Due to methodological changes, only the time series 1993-96 and 1997-2007 are consistent, but not comparable to each other. *Russian Federation:* North-western and Central European parts only. *Ukraine*: Due to a denser gridnet since 2005, results must not be compared with previous years. **comparison not possible due to changing survey design

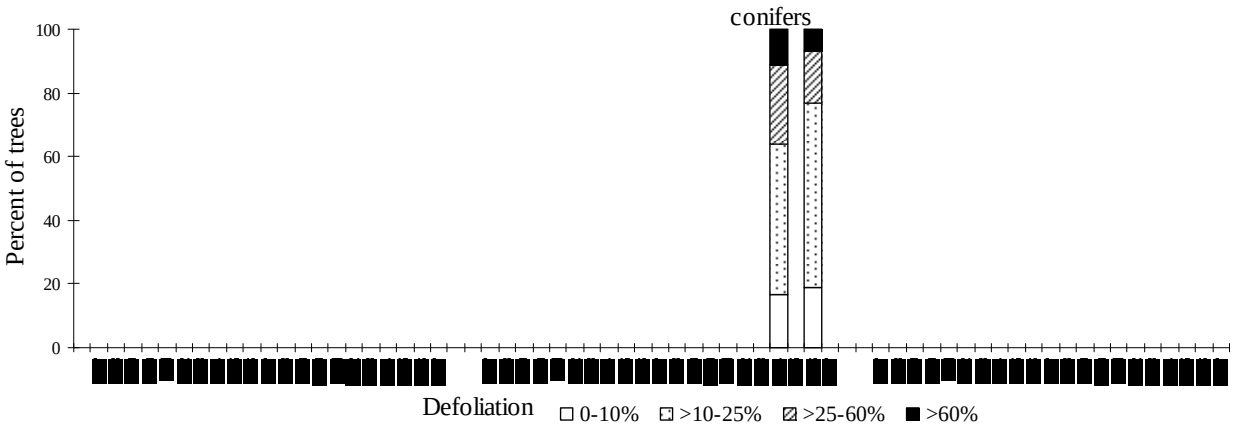
Note that some differences in the level of damage across national borders may be at least partly due to differences in standards used. This restriction, however, does not affect the reliability of the trends over time.

Annex II-8
Changes in defoliation (1987-2007)

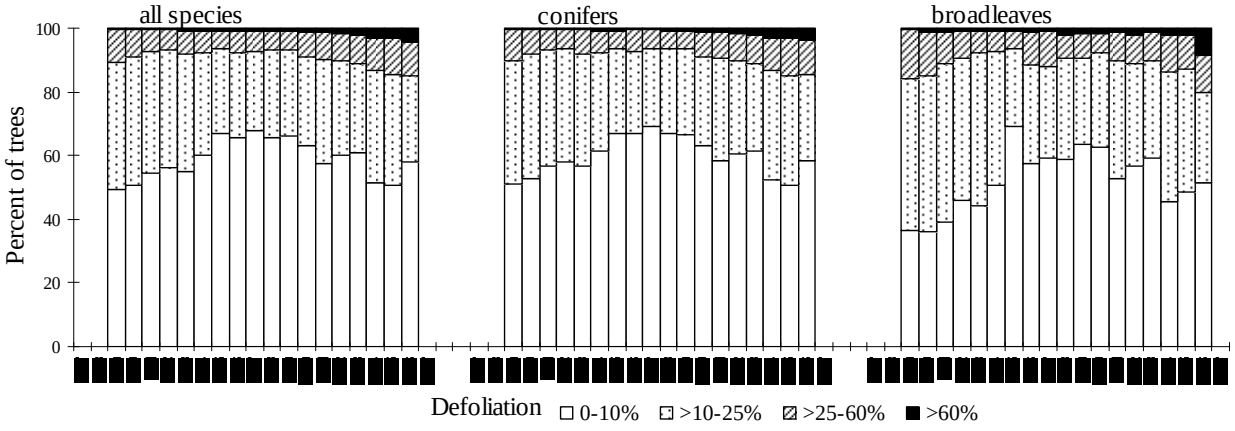
Albania



Andorra

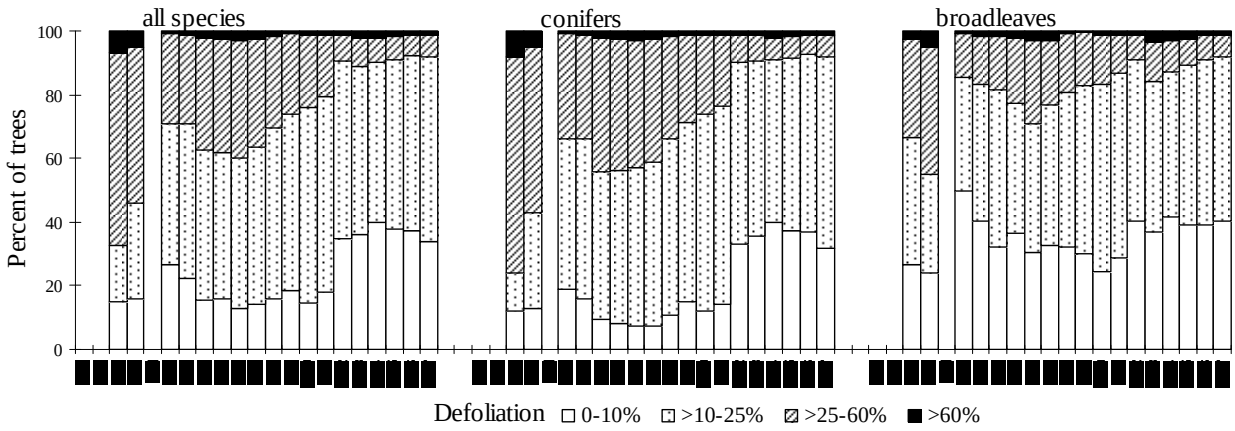


Austria *

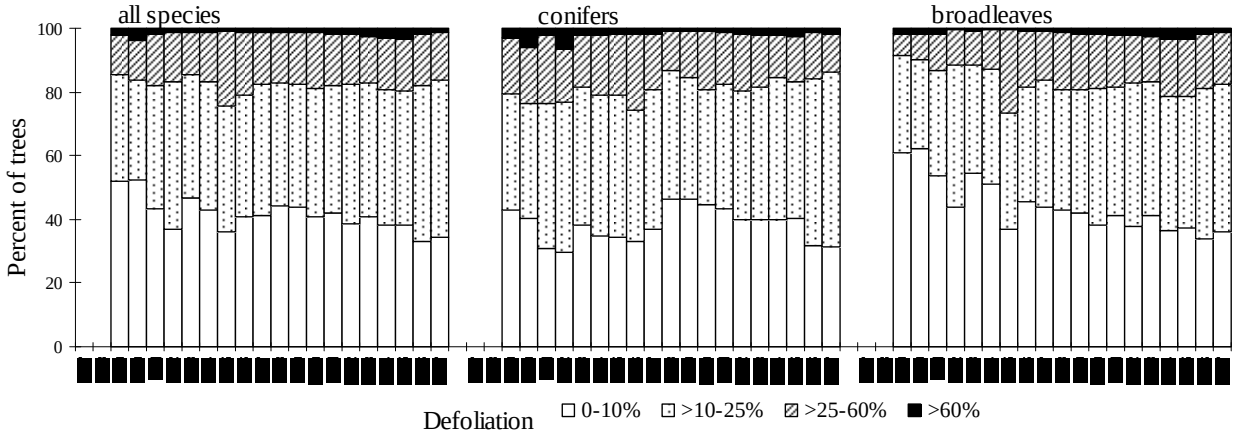


* from 2003 on, results are based on the 16x16 km transnational gridnet and must not be compared with previous years.

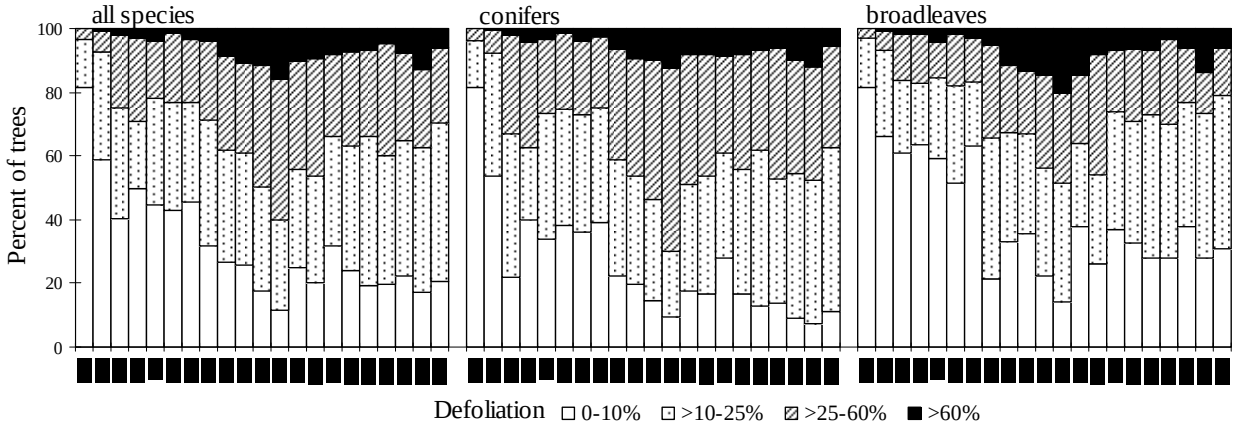
Belarus



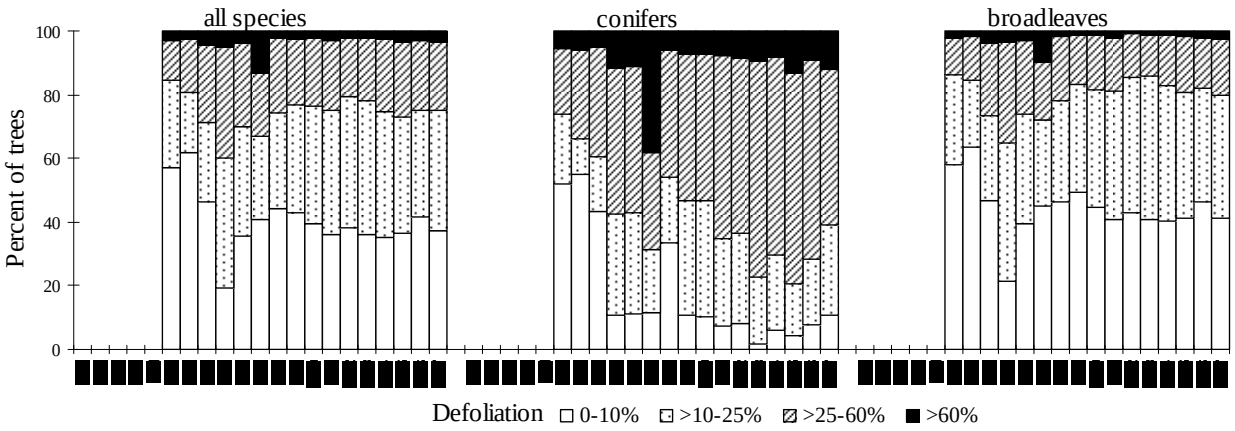
Belgium



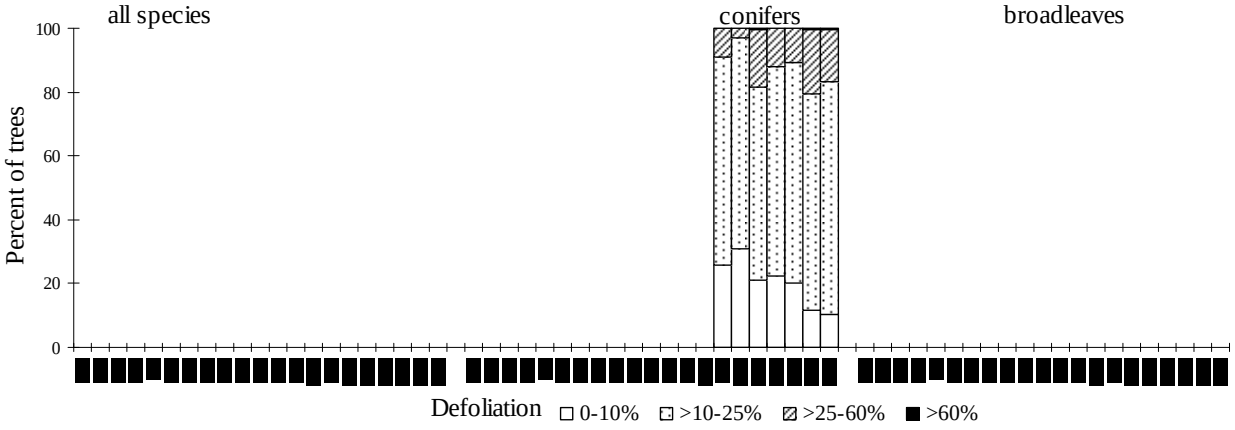
Bulgaria



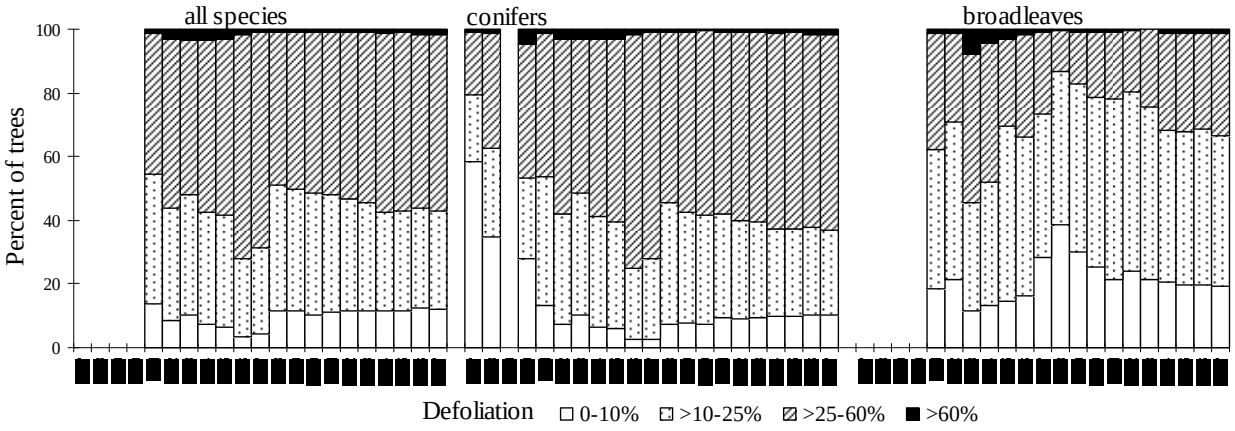
Croatia



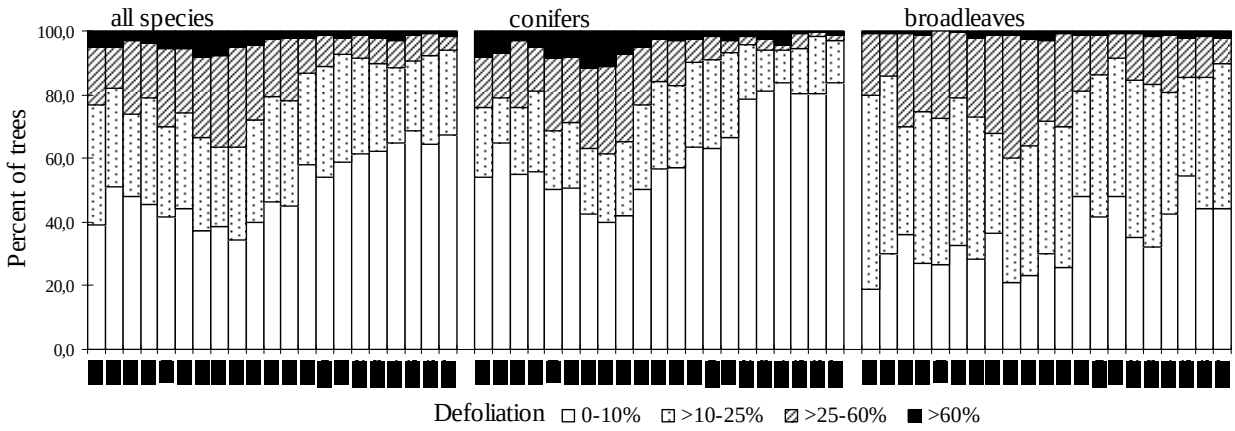
Cyprus



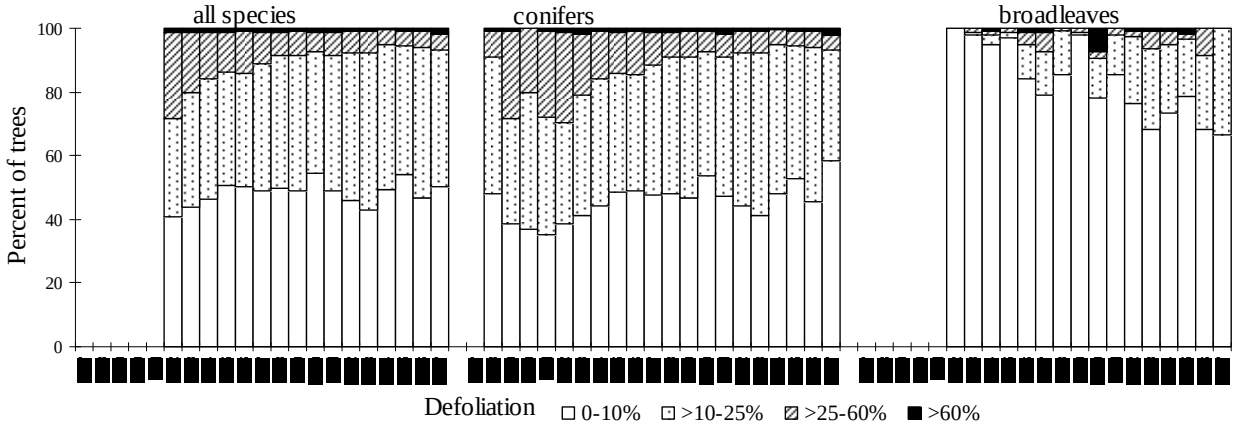
Czech Republic



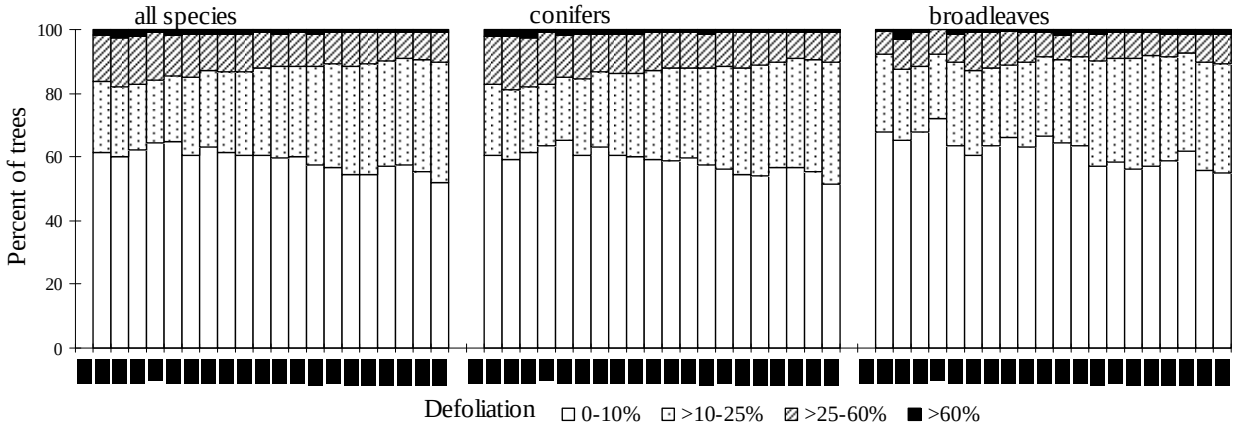
Denmark



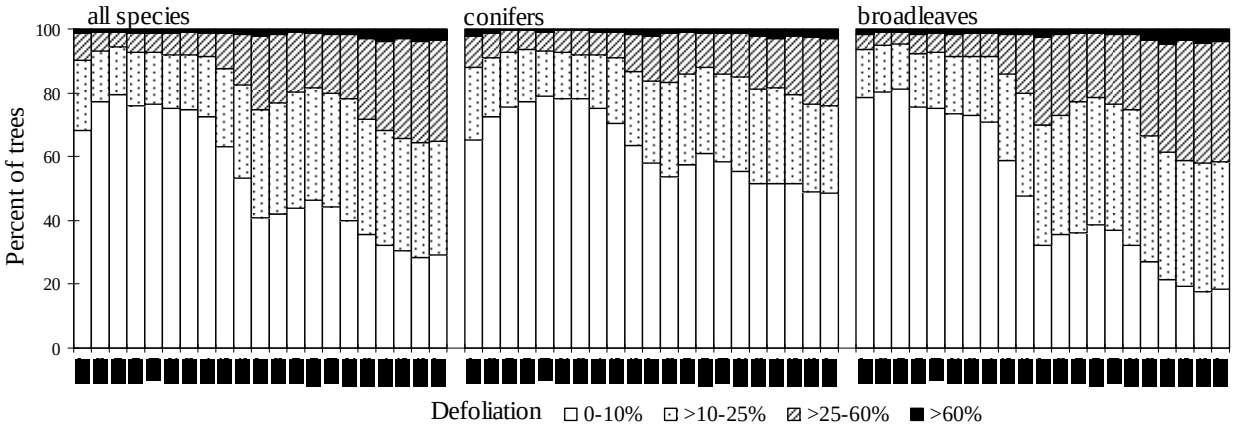
Estonia



Finland

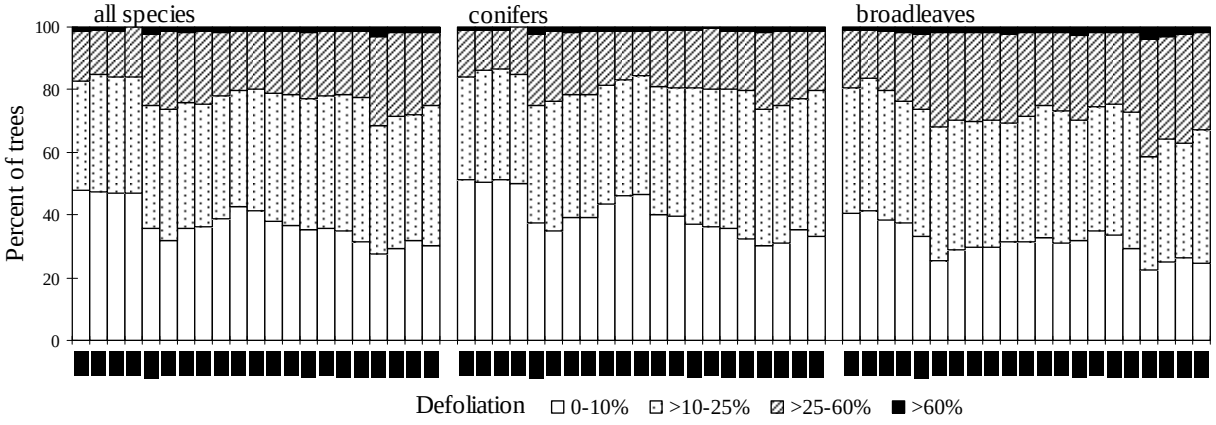


France *



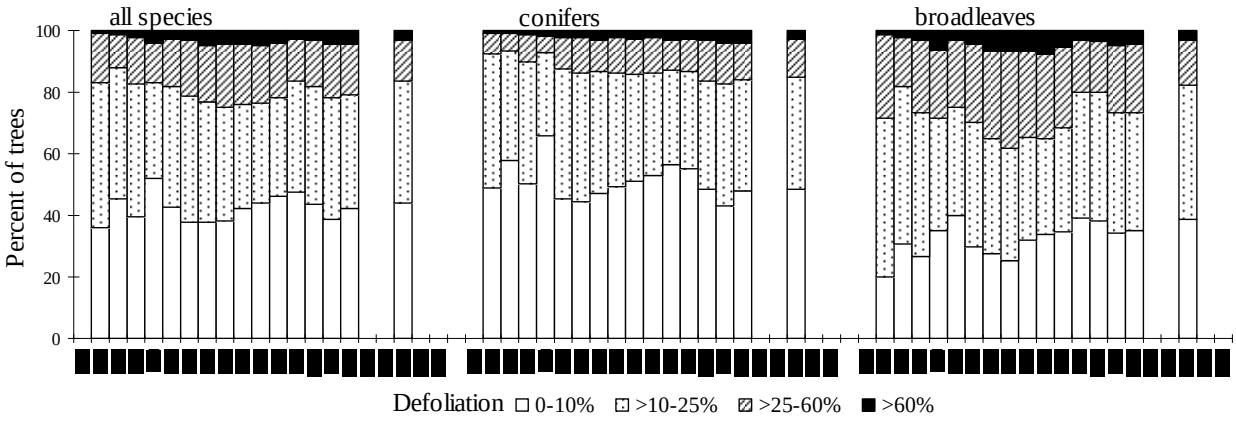
***** due to methodological changes, only the time series 1988-94 and 1997-2007 are consistent, but not comparable to each other.

Germany

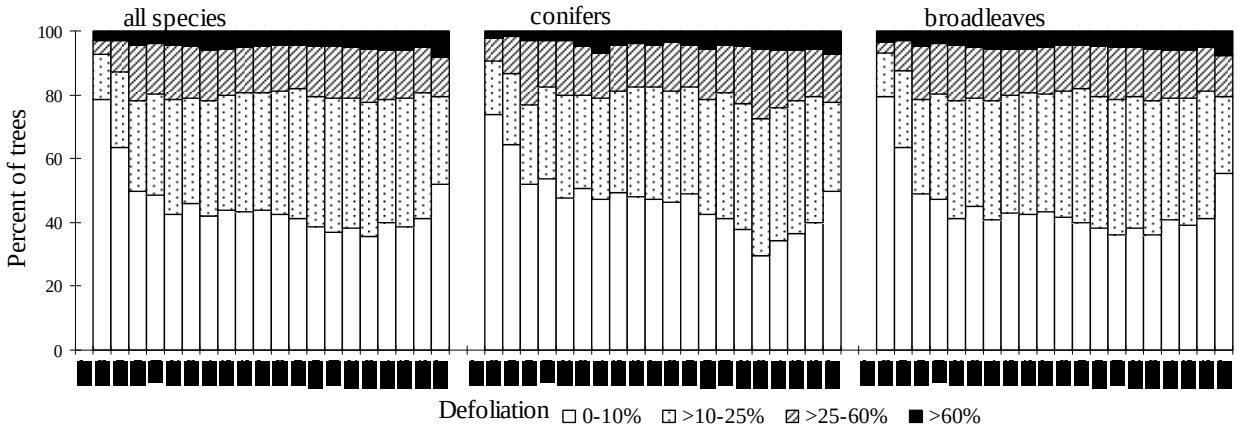


* since 1991 with former GDR

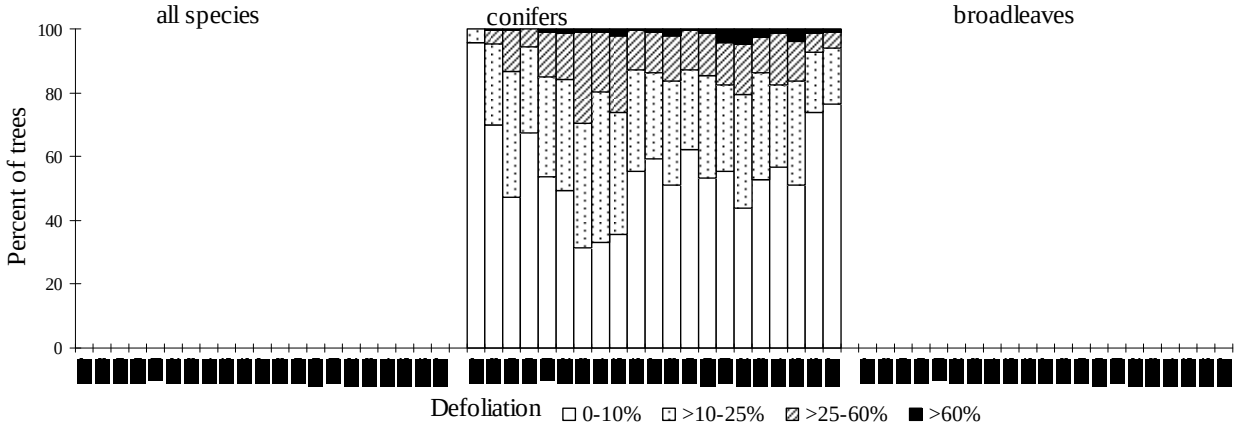
Greece



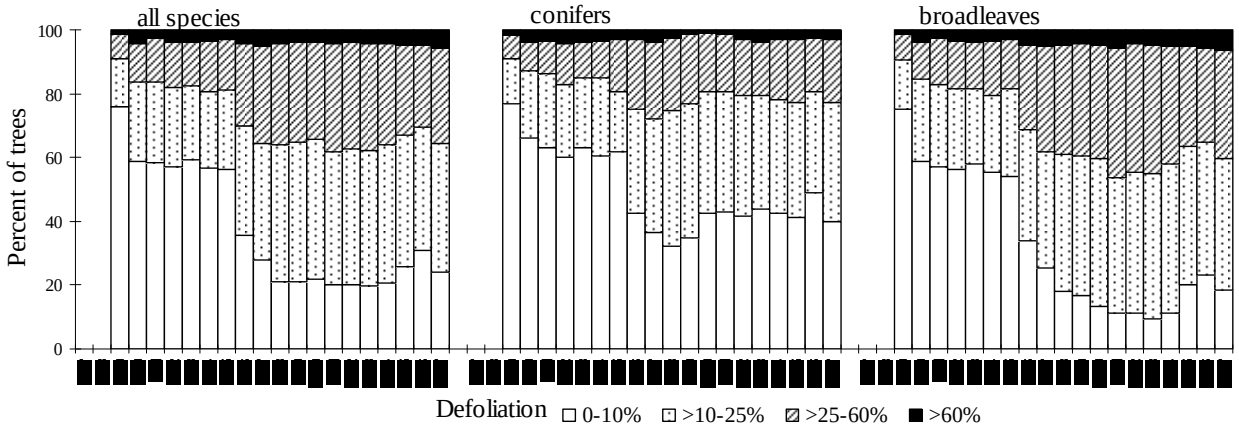
Hungary



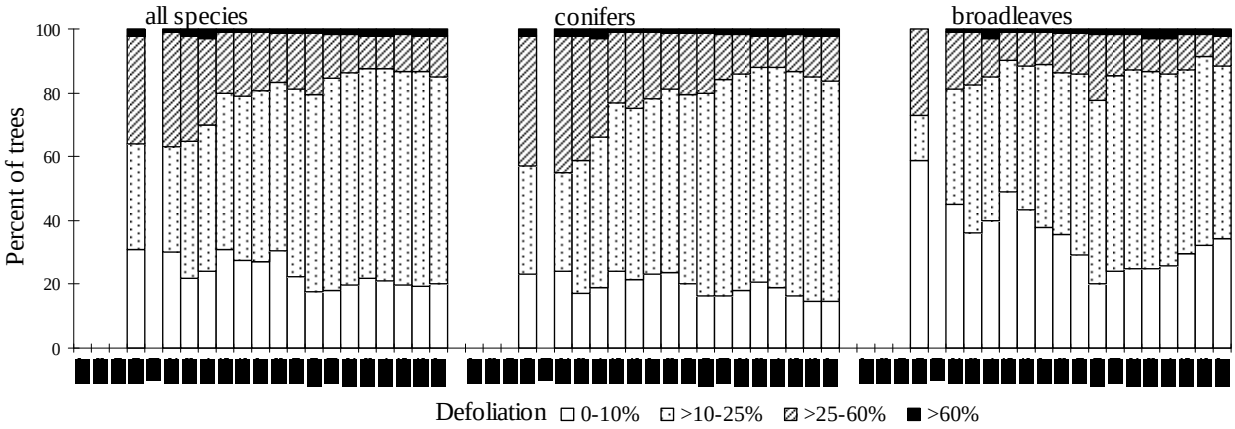
Ireland



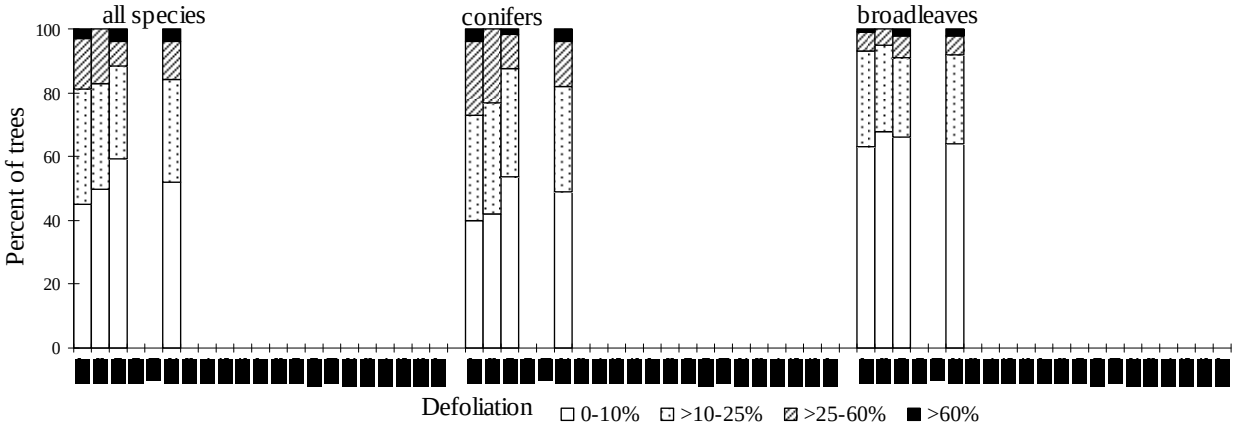
Italy



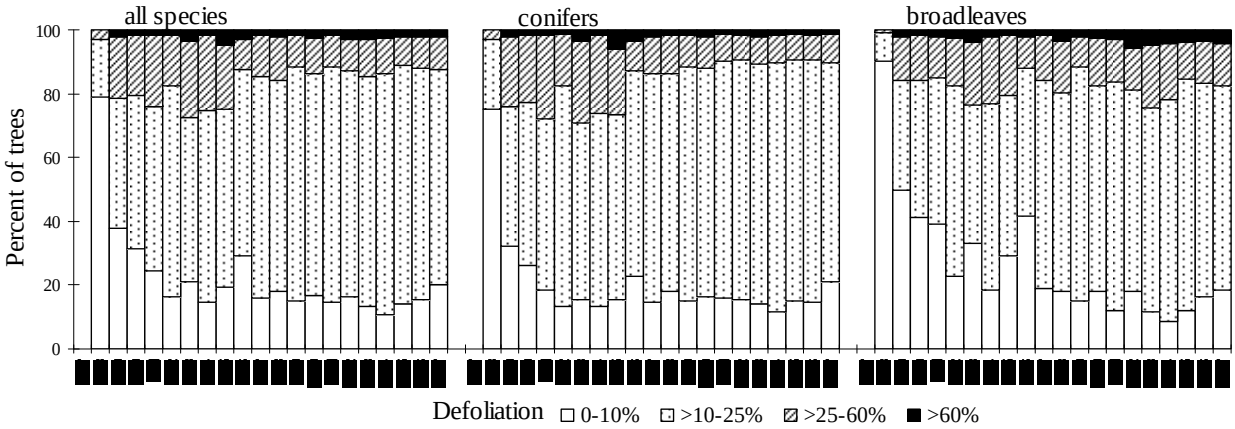
Latvia



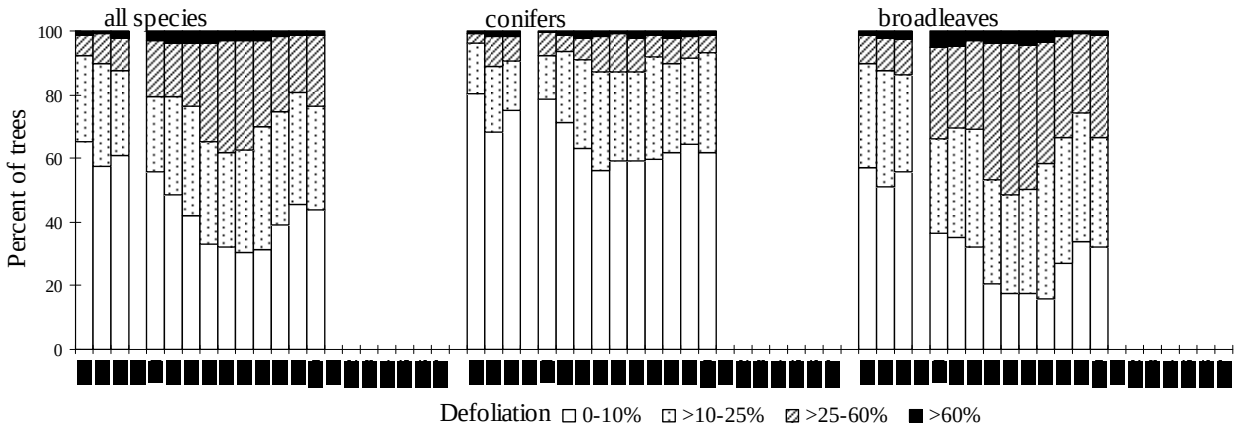
Liechtenstein



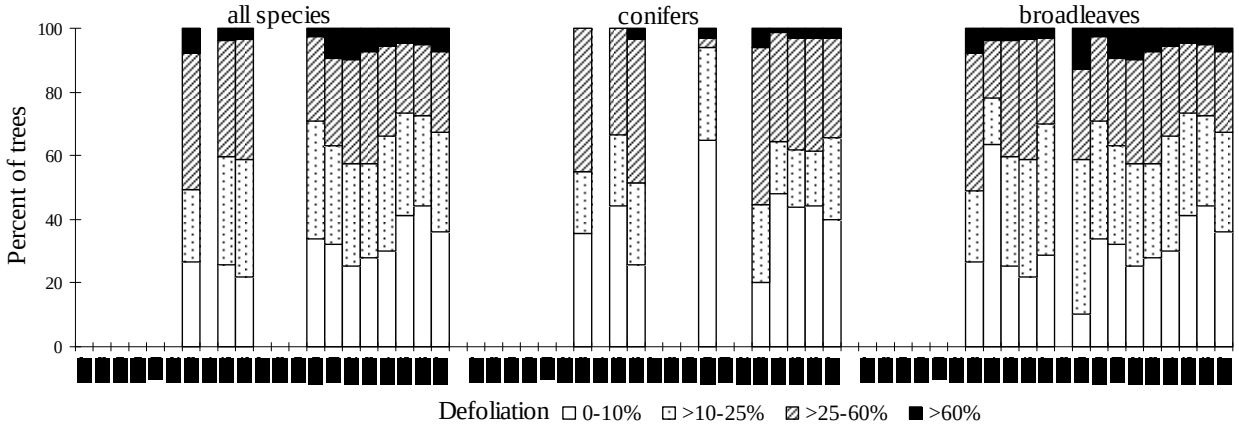
Lithuania



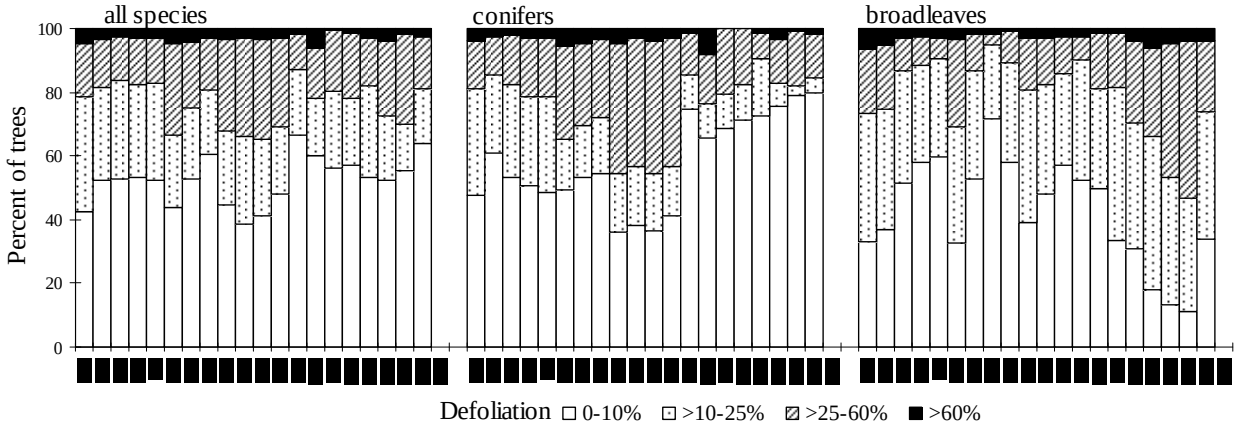
Luxembourg



Republic of Moldova

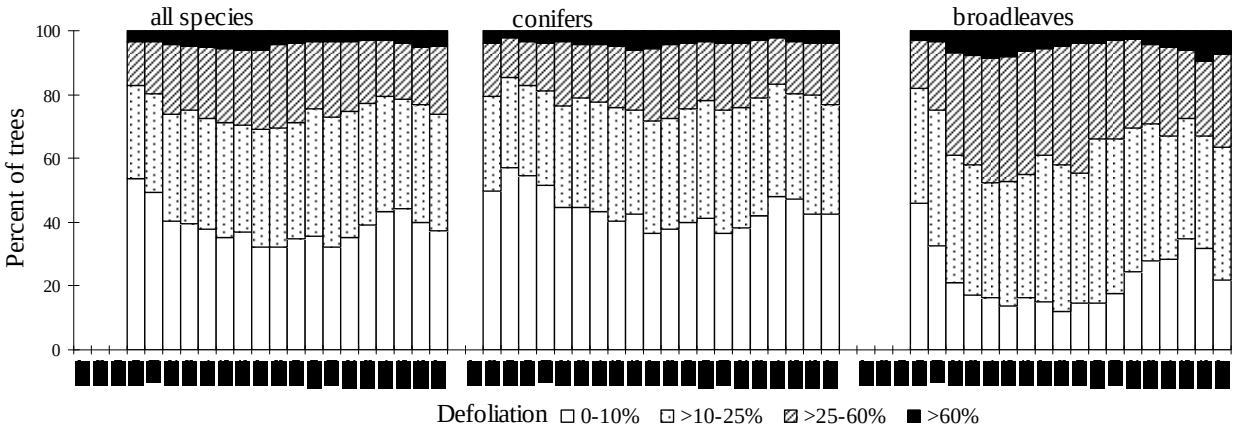


The Netherlands

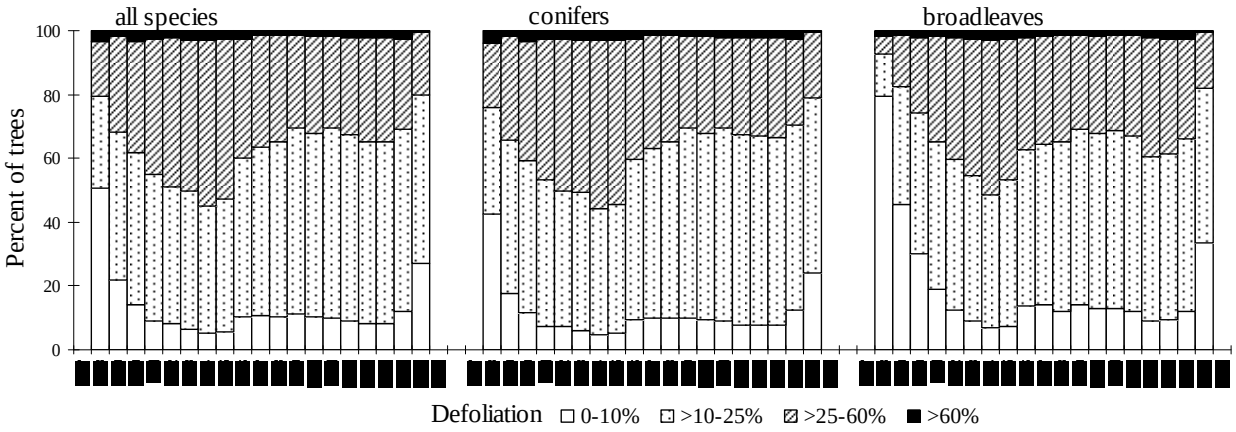


1989-1994: 1500 plots, 1995-1998: 200 plots, since 1999: 11 plots

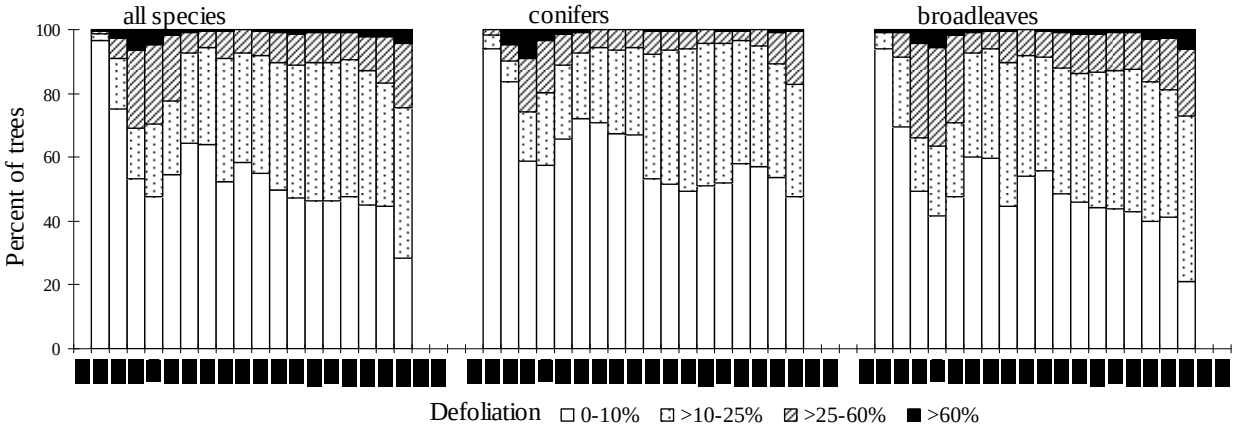
Norway



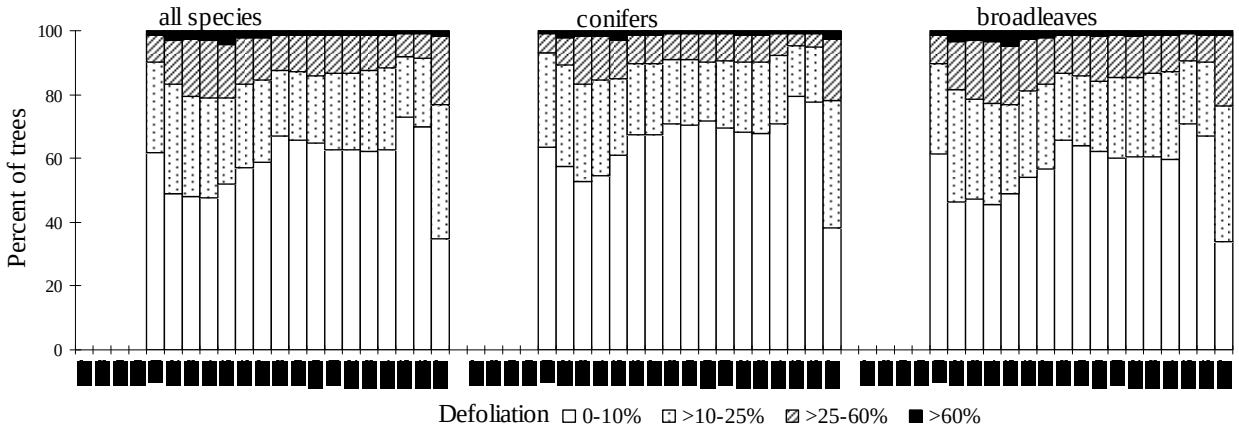
Poland



Portugal

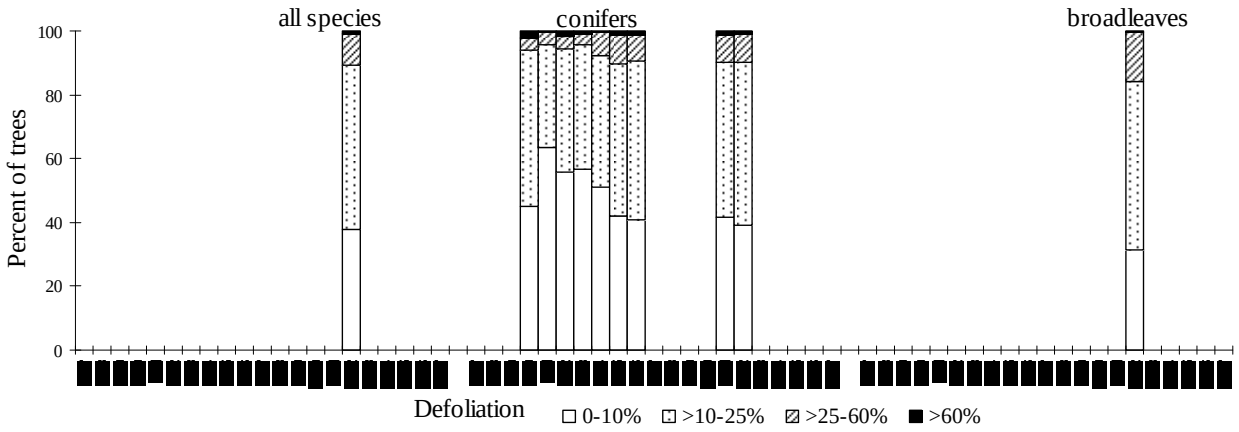


Romania *



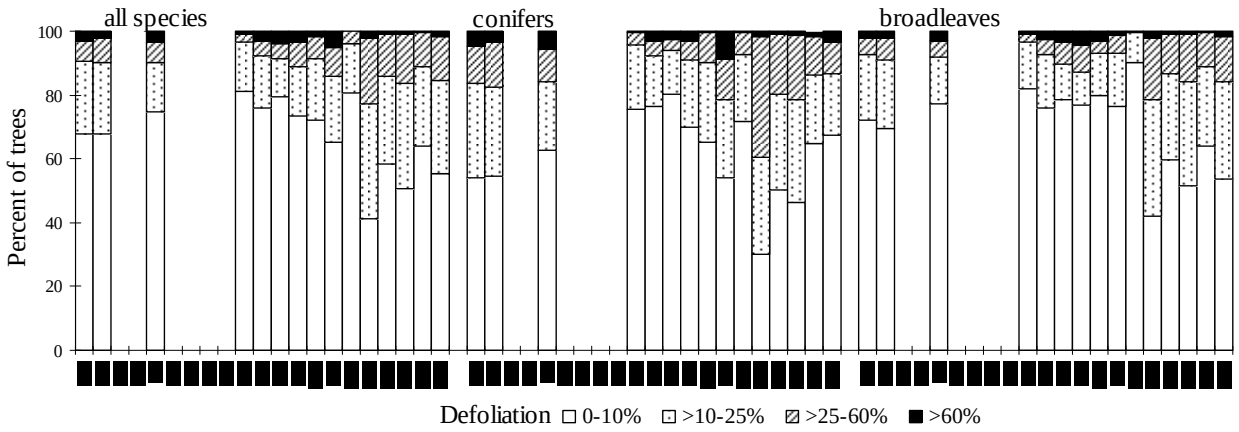
* from 2007 on, results are based on the 16x16 km transnational gridnet and must not be compared with previous years.

Russian Federation *

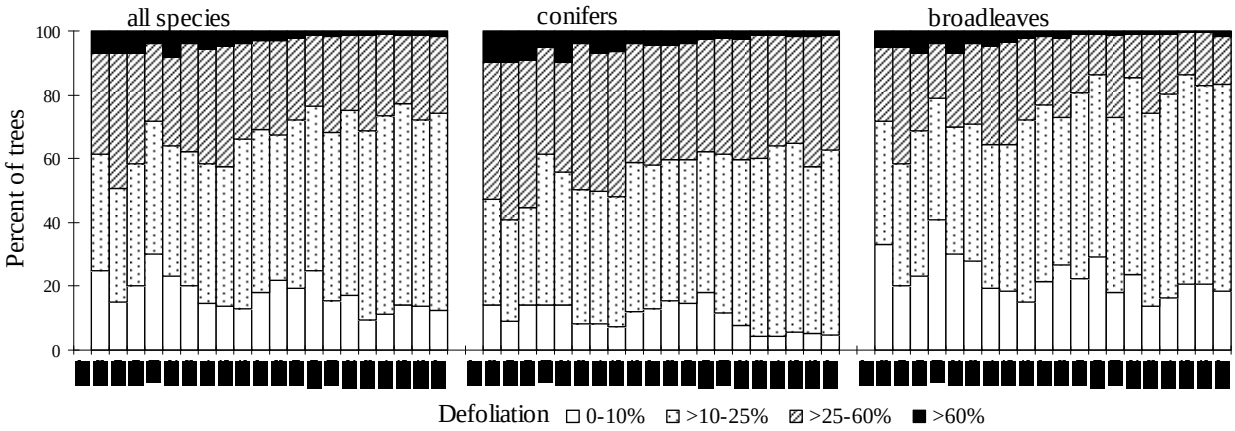


* Only regional surveys in north-western and Central European parts of Russia.

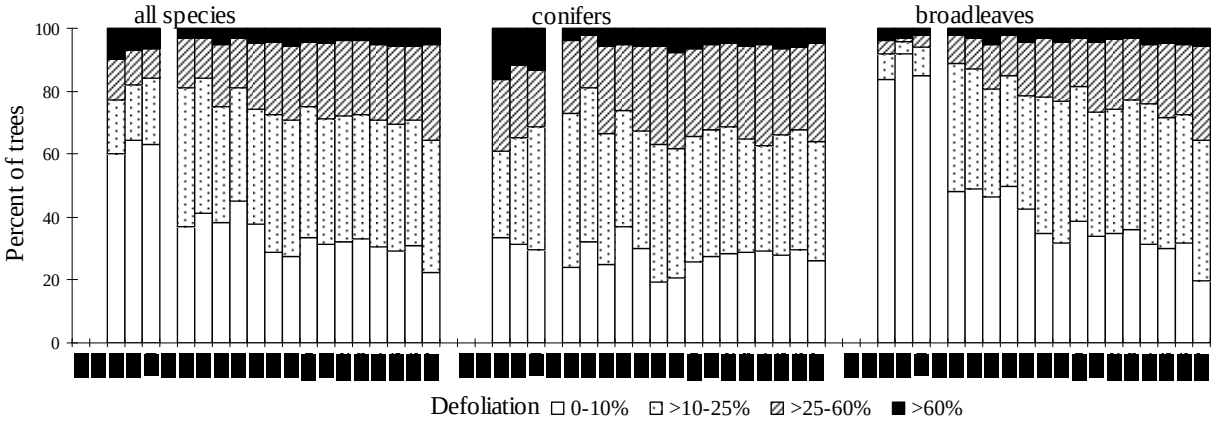
Serbia



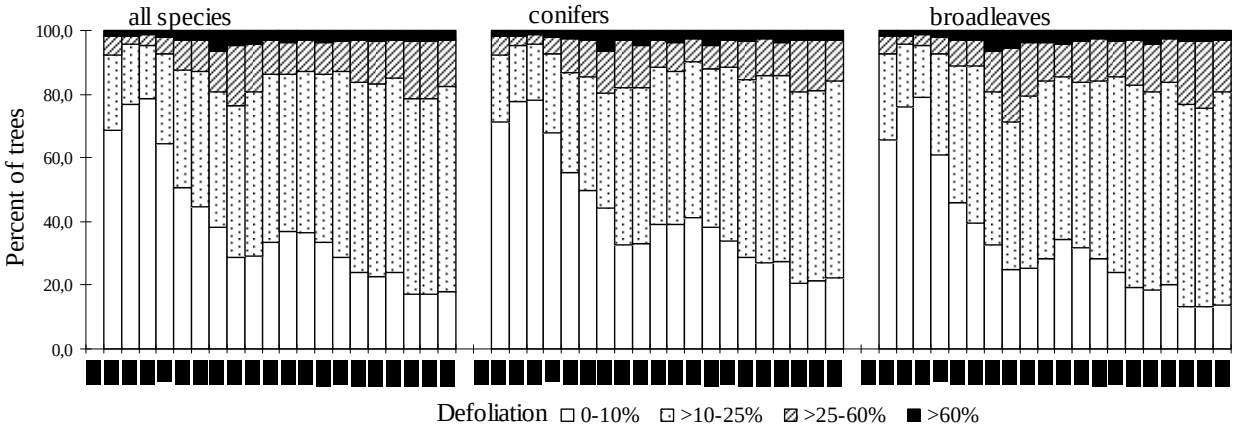
Slovak Republic



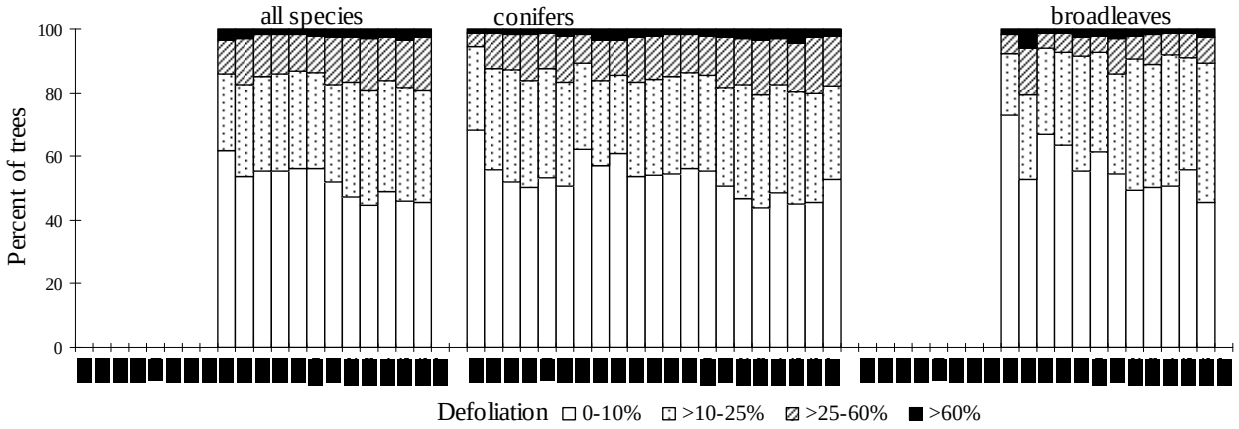
Slovenia



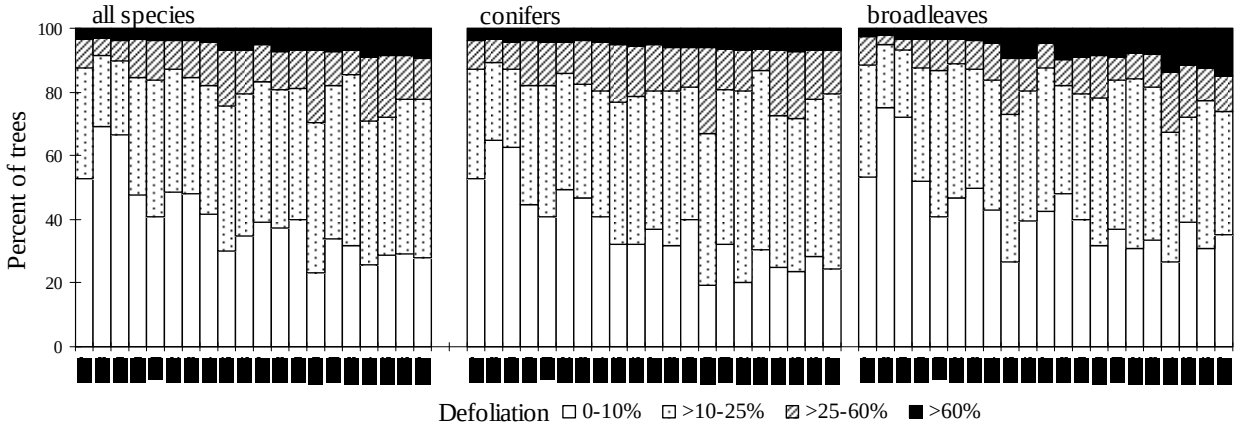
Spain



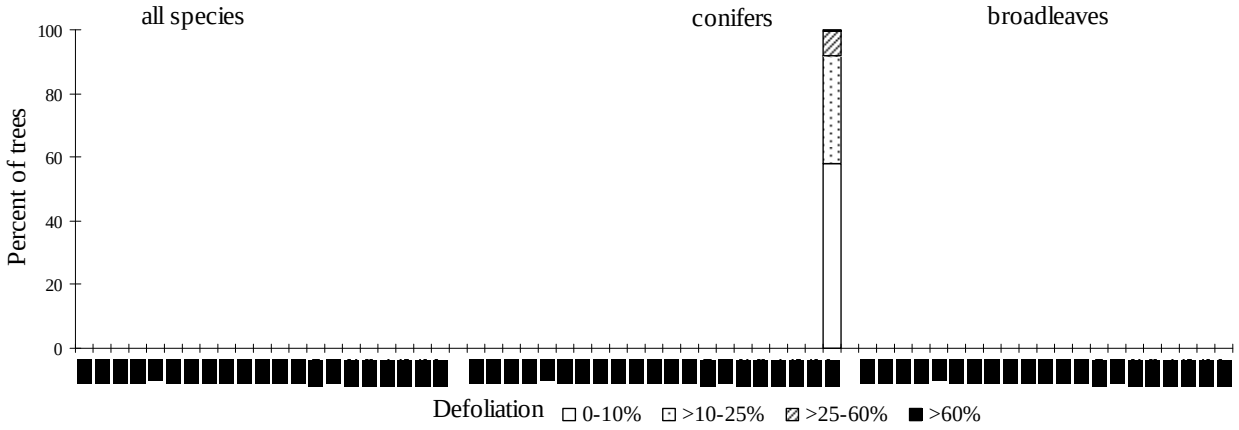
Sweden



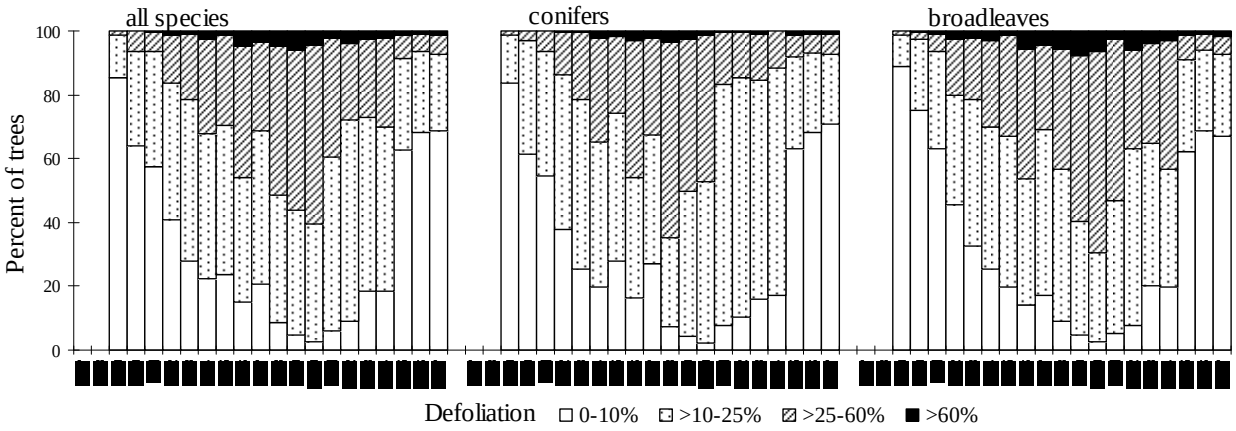
Switzerland



Turkey

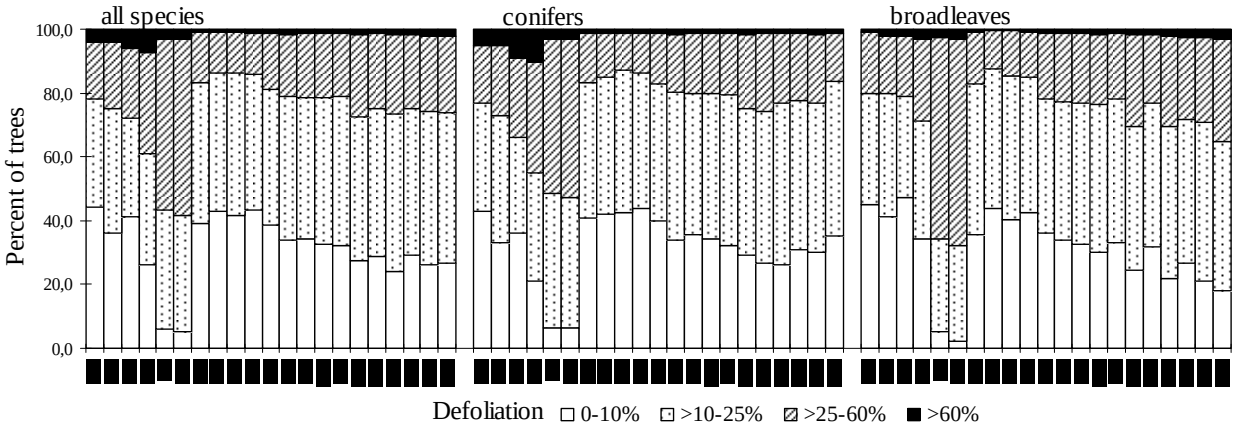


Ukraine



since 2005 change of assessment grid

United Kingdom



after 1992 change of assessment method in line with that used in other countries

Annex III
Main species referred to in the text

Botanical name	Danish	Dutch	English	Finnish	French	German
Fagus sylvatica	Bøg	Beuk	Common beech	Pyökki	Hêtre	Rotbuche
Quercus petraea	Vintereg	Wintereik	Sessile oak	Talvitammi	Chêne rouvre	Traubeneiche
Quercus robur	Stilkeg	Zomereik	European oak	Metsätammi	Chêne pédonculé	Stieleiche
Quercus ilex	Steneg	Steeneik	Holm oak	Rautatammi	Chêne vert	Steineiche
Quercus suber	Korkeg	Kurkeik	Cork oak	Korkkitammi	Chêne liège	Korkeiche
Pinus sylvestris	Skovfyr	Grove den	Scots pine	Metsämänty	Pin sylvestre	Gemeine Kiefer
Pinus nigra	Østrigsk fyr	Oostenrijkse Corsicaanse zwarte den	Corsican/ Austrian black pine	Euroopanmusta-mänty	Pin noir	Schwarzkiefer
Pinus pinaster	Strandfyr	Zeeden	Maritime pine	Rannikkomänty	Pin maritime	Seestrandkiefer
Pinus halepensis	Aleppofyr	Aleppoden	Aleppo pine	Aleponmänty	Pin d'Alep	Aleppokiefer
Picea abies	Rødgran	Fijnspar	Norway spruce	Metsäkuusi	Epicéa commun	Rotfichte
Picea sitchensis	Sitkagran	Sitkaspar	Sitka spruce	Sitkankuusi	Epicéa de Sitka	Sitkafichte
Abies alba	Ædelgran	Zilverden	Silver fir	Saksanpihta	Sapin pectiné	Weißtanne
Larix decidua	Lærk	Europese lariks	European larch	Euroopanlehti-kuusi	Mélèze d'Europe	Europäische Lärche

Botanical name	Greek	Italian	Portuguese	Russian	Spanish	Swedish
Fagus sylvatica	Οξυά δασική	Faggio	Faia	бук лесной	Haya	Bok
Quercus petraea	Δρυς απόδισκος	Rovere	Carvalho branco Americano	дуб скальный	Roble albar	Bergek
Quercus robur	Δρυς ποδισκοφόρος	Farnia	Carvalho roble	дуб черещатый	Roble común	Ek
Quercus ilex	Αριά	Leccio	Azinheira	дуб каменный	Encina	Stenek
Quercus suber	Φελλοδρύς	Sughera	Sobreiro	дуб пробковый	Alcornoque	Korkek
Pinus sylvestris	Δασική πεύκη	Pino silvestre	Pinheiro silvestre	сосна обыкновенная	Pino silvestre	Tall
Pinus nigra	Μαύρη πεύκη	Pino nero	Pinheiro Austríaco	сосна чёрная	Pino laricio	Svarttall
Pinus pinaster	Θαλασσία πεύκη	Pino marittimo	Pinheiro bravo	сосна приморская	Pino negral	Terpentintall
Pinus halepensis	Χαλέπιος πεύκη	Pino d'Aleppo	Pinheiro de alepo	сосна алеппская	Pino carrasco	Aleppotall
Picea abies	Ερυθρελάτη υψηλή	Abete rosso	Picea	ель европейская	Abeto rojo	Gran
Picea sitchensis	Ερυθρελάτη	Picea di Sitka	Picea de Sitka	ель ситхинская	Picea de Sitka	Sitkagran
Abies alba	Λευκή ελάτη	Abete bianco	Abeto branco	пихта белая	Abeto común	Sivergran
Larix decidua	Λάριξ ευρωπαϊκή	Larice	Larício Europeu	литвенница европейская	Alerce	Europeisklärk

Annex IV

Testing statistical significance of the differences in mean plot defoliation between two years of assessment.

Differences between mean plot defoliation were statistically examined for Common Sample Plots (CSPs) using the following test statistic:

$$t = \frac{\left|\bar{x}_{2007} - \bar{x}_{2006}\right|}{\sqrt{\frac{s^2}{n_{2007}} + \frac{s^2}{n_{2006}}}}$$

where $\bar{x}_{2007} - \bar{x}_{2006}$ is the difference in mean plot defoliation between the assessments in 2006 and 2007,

s - the standard deviation of these differences,

n_{2007}, n_{2006} - number of sample trees on plots being tested.

The standard deviation s is calculated as follows

$$s = \sqrt{\frac{(n_{2007} - 1)s_{2007}^2 + (n_{2006} - 1)s_{2006}^2}{n_{2007} + n_{2006} - 2}}$$

with standard deviations s_{2007}, s_{2006} derived from the defoliation scores for the years 2007 and 2006 on the plots investigated.

The minimal difference for qualifying a plot as having changed its mean defoliation was 5% and more. This applies to the map in Annex I-7. This additional criterion to the formal statistical test was chosen since 5% is the highest accuracy in the assessment of defoliation in the field.

Annex V
Addresses

1. UN/ECE, ICP Forests and the European Union Scheme

UN/ECE

United Nations Economic Commission for Europe
Environment and Human Settlements Division
Air Pollution Unit
Palais des Nations
1211 GENEVA 10
SWITZERLAND
Phone: +41 22 91 71 234/-91 72 358
Fax: +41 22 917 05 05
e-mail: keith.bull@unece.org; Matti.Johansson@unece.org
Mr Keith Bull
Mr Matti Johansson

ICP Forests

International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests
Johann Heinrich von Thünen-Institut
Bundesforschungsinstitut für Ländliche Räume,
Wald und Fischerei
Leuschnerstr. 91
21031 HAMBURG
GERMANY
Phone: +49 40 739 62 100/Fax: +49 40 739 62 299
e-mail: michael.koehl@ vti.bund.de
Mr Michael Köhl, Chairman of ICP Forests

ICP Forests
Lead Country

International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests
Bundesministerium für Ernährung,
Landwirtschaft und Verbraucherschutz – Ref. 533
Postfach 14 02 70
53107 BONN
GERMANY
Phone: +49 228 99 529-4130/Fax: +49 228 99 529-4318
e-mail: sigrid.strich@bmelv.bund.de
Ms Sigrid Strich

PCC of ICP Forests

Programme Coordinating Centre of ICP Forests
Johann Heinrich von Thünen-Institut
Bundesforschungsinstitut für Ländliche Räume,
Wald und Fischerei
Leuschnerstr. 91
21031 HAMBURG
GERMANY
Phone: +49 40 739 62 140/Fax: +49 40 739 62 199
e-mail: martin.lorenz@vti.bund.de
Internet: http://www.icp-forests.org
Mr Martin Lorenz

2. Expert Panels, WG and other Coordinating Institutions

Expert Panel on Soil and Soil Solution	Research Institute for Nature and Forest Gaverstraat 4 9500 GERAARDSBERGEN BELGIUM Phone: +32 54 43 71 20/Fax: +32 54 43 61 60 e-mail: bruno.devos@inbo.be Mr Bruno De Vos, Chairman
Working Group on Soil Solution	Finnish Forest Research Institute (METLA) Rovaniemi Research Unit Eteläranta 55 96300 ROVANIEMI FINLAND Phone: +358 10 211 45 52 / Fax: +358 10 211 44 01 e-mail: john.derome@metla.fi Mr John Derome
Expert Panel on Foliar Analysis and Litterfall	Finnish Forest Research Institute Parkano Research Unit Kaironiementie 54 39700 PARKANO FINLAND Phone: +358 10 211 40 45/Fax: +358 10 211 40 01 e-mail: pasi.rautio@metla.fi Mr Pasi Rautio, Chairman
Expert Panel on Forest Growth	Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft WSL Zürcherstr. 111 8903 BIRMENSDORF SWITZERLAND Phone: +41 44 739 25 94/Fax: +41 44 739 22 15 e-mail: dobbertin@wsl.ch Mr Matthias Dobbertin, Chairman Bundesforschungs- und Ausbildungszentrum für Wald, Naturgefahren und Landschaft (BFW) Seckendorff-Gudent-Weg 8 1131 WIEN AUSTRIA Phone: +43 1 878 38 13 27 / Fax: +43 1 878 38 12 50 e-mail: markus.neumann@bfw.gv.at Mr Markus Neumann, Co-Chairman Forest Research Station Alice Holt Lodge, Wrecclesham FARNHAM SURREY GU10 4LH UNITED KINGDOM e-mail: sam.evans@forestry.gsi.gov.uk Mr Sam Evans, Co-Chairman Phone: +44 14 20 526 207 / Fax: +44 14 20 235 63

Expert Panel on Deposition Measurements	Norwegian Forest and Landscape Institute Raveien 9 1432 ÅS NORWAY Phone: +47 64 94 88 92/Fax: +47 64 94 29 80 e-mail: Nicholas.Clarke@skogoglandskap.no Mr Nicholas Clarke, Chairman
Working Group on Ambient Air Quality	Fundación Centro de Estudios Ambientales del Mediterráneo - CEAM Parque Tecnológico C/ Charles R. Darwin, 14 46980 PATERNA - VALENCIA SPAIN e-mail: mjose@ceam.es Ms José Sanz Sanchez, Chairwoman Phone: +34 96 131 82 27 / Fax: +34 96 131 81 90 Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (WSL) Zürcherstr. 111 8903 BIRMENSDORF SWITZERLAND Phone: +41 44 73 92 564 / Fax: +41 44 73 92 215 e-mail: marcus.schaub@wsl.ch Mr Marcus Schaub, Vice-Chairman
Expert Panel on Crown Condition Assessment	Vertretung des Landes Hessen bei der Europäischen Union, Referat Umwelt Avenue de l'Yser 19 1040 BRUSSELS BELGIUM Phone: +32 27 37 17 56 e-mail: johannes.eichhorn@lv-bruessel.hessen.de Mr Johannes Eichhorn, Chairman Mr Marco Ferretti, Vice-chairman e-mail: ferretti@terradata.it Mr András Szepesi, Vice-chairman e-mail: szepesi.andras@aesz.hu
ad hoc Group on Assessment of Biotic Damage Causes	Research Institute for Nature and Forest Gaverstraat 4 9500 GERAARDSBERGEN BELGIUM Tel. +32 54 43 71 15/Fax: +32 54 43 61 60 e-mail: peter.roskams@inbo.be Mr Peter Roskams, Chairman
ad hoc Group on Quality Assurance within Crown Condition Assessments	Forest Research Station Alice Holt Lodge, Wrecclesham FARNHAM SURREY GU10 4LH UNITED KINGDOM Phone: +44 14 20 526 202/Fax: +44 14 20 235 63 e-mail: d.durrant@forestry.gov.uk Mr. Dave Durrant

Expert Panel on Biodiversity and Ground Vegetation Assessment	Coillte Teoranta Research and Development Newtownmountkennedy CO. WICKLOW IRELAND Phone: +353 120 11 162 / Fax: +353 120 111 99 e-mail: Pat.Neville@coillte.ie Mr Pat Neville, Chairman
	Ministry for Agriculture and Forestry Policy VI Div. - National Forest Service CONECOFOR Office via Carducci 5 00187 ROMA ITALY Phone: +39 6 466 560 84 / Fax: +39 6 428 156 32 e-mail: conecofor@corpoforestale.it Mr Bruno Petriccione, Co-Chairman
Committee on Quality Assurance	TerraData Environmetrics Via P. A. Mattioli 4 53100 SIENA ITALY Phone: 0039 0577 235 415 / Fax: 0039 0577 232896 e-mail: ferretti@terradata.it Marco Ferretti, Chairman
WG on Quality Assurance and Quality Control in Laboratories	Nordwestdeutsche Forstliche Versuchsanstalt Grätzelstrasse 2 37079 GÖTTINGEN GERMANY Phone: 0049-551-69401141 / Fax. 0049-551-69401160 e-mail: Nils.Koenig@NW-FVA.de Nils König, Chairman
Expert Panel on Meteorology and Phenology	Bavarian State Institute of Forestry Am Hochanger 13 85354 FREISING GERMANY Phone: +49 (8161) 71 – 49 21 / Fax: +49 (8161) 71 – 49 71 e-mail: ras@lwf.uni-muenchen.de Mr Stephan Raspe, Chairman
	Finnish Forest Research Institute Punkaharju Research Unit Finlandiantie 18 58450 PUNKAHARJU 2 FINLAND Phone: +358 10 211 42 23 / Fax: +358 10 211 42 01 e-mail: egbert.beuker@metla.fi Mr Egbert Beuker, Co-chairman Phenology

FFCC	Bundesamt und Forschungszentrum für Wald Seckendorff-Gudent-Weg 8 1131 WIEN AUSTRIA Phone: +43-1-878 38-11 14/ Fax:+43-1-878 38-12 50 e-mail: alfred.fuerst@bfw.gv.at Mr Alfred Fürst
FSCC	Research Institute for Nature and Forest - INBO Gaverstraat 4 9500 GERAARDSBERGEN BELGIUM Phone: + 32 (0) 54 43 61 75 / Fax: + 32 (0) 54 436 160 e-mail: FSCC@inbo.be Ms Nathalie Cools

3. Ministries (Min) and National Focal Centres (NFC)

Albania (Min)	Ministry of the Environment, Forestry and Water Administration Dep. of Biodiversity and Natural Resources Management Rruga e Durresit, Nr. 27 TIRANA ALBANIA Phone: +355 4 270 623 e-mail: info@moe.gov.al
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