

Annexes

- Annex 1** **Images used in the mosaic**
- Annex 2** **Forest definitions**
- Annex 3** **Country data fact sheet**
- Annex 4** **Data input and calibration results**
- Annex 5** **Questionnaire replies**

Annex 1. Images used in the mosaic. New images are indicated in *italics*.

Acquisition time			Image corner coordinates							
Year	Date	UTC	Southeast		Southwest		Northeast		Northwest	
			long.	lat.	long.	lat.	long.	lat.	long.	lat.
96	<i>jun17</i>	1344	12.1	30.0	-16.3	25.5	10.7	61.5	-36.5	54.0
97	<i>aug11</i>	1245	32.6	33.9	3.3	29.3	33.5	70.6	-27.3	61.0
97	<i>aug12</i>	1234	35.4	33.9	6.1	29.3	36.3	70.6	-24.5	61.0
97	<i>aug21</i>	1237	35.0	34.0	5.8	29.3	36.0	70.9	-25.3	61.2
97	<i>jul11</i>	1324	21.9	39.9	-9.7	34.9	23.8	70.3	-37.4	60.7
97	<i>jul15</i>	1058	58.5	39.9	26.9	34.9	60.5	70.3	-0.7	60.7
97	<i>jun29</i>	1213	40.0	33.9	10.5	29.3	39.8	65.7	-13.2	57.4
98	<i>aug02</i>	1245	39.8	35.0	10.0	30.2	41.2	70.7	-20.4	61.0
98	<i>aug04</i>	1223	45.5	35.0	15.6	30.2	46.8	70.7	-14.8	61.0
98	<i>aug07</i>	1331	28.5	35.0	-1.3	30.3	29.7	70.6	-31.8	61.0
98	<i>aug10</i>	1257	37.0	35.0	7.1	30.2	38.2	70.7	-23.3	61.0
98	<i>aug11</i>	1246	39.8	35.0	9.9	30.3	40.9	64.8	-20.0	60.8
98	<i>aug14</i>	1028	73.0	42.5	40.3	37.4	72.4	51.7	34.5	45.7
98	<i>jul11</i>	1008	78.5	47.0	43.5	41.4	110.6	84.5	-12.5	67.6
96	<i>aug05</i>	1143	45.6	40.1	12.4	35.0	46.1	62.9	-5.2	55.1
96	<i>aug07</i>	1112	50.8	56.4	7.0	49.7	62.1	78.2	-25.2	65.3
96	<i>aug09</i>	1239	31.1	59.6	-4.4	39.1	31.1	59.6	-15.9	52.4
96	<i>aug10</i>	1039	59.2	57.3	14.5	50.5	70.6	78.2	-17	65.3
96	<i>aug11</i>	1029	62.0	57.7	16.9	50.7	73.5	78.3	-14.5	65.4
96	<i>aug16</i>	1115	50.2	56.3	6.5	49.6	61.4	78.1	-25.5	65.3
96	<i>aug17</i>	1113	52.9	46.3	16.7	40.7	55.6	68.9	-5.4	59.7
96	<i>aug17</i>	1245	28.9	65.7	-26.3	57.3	32.5	72.9	-37.6	62.4
96	<i>aug17</i>	1433	2.8	63.3	-48.8	55.4	5.4	70.6	-59	60.8
96	<i>aug18</i>	1053	55.8	56.9	11.6	50.1	66.9	78.1	-19.9	65.2
96	<i>aug20</i>	1031	61.4	57.6	16.4	50.7	72.8	78.3	-14.8	65.3
96	<i>aug20</i>	1220	35.7	47.3	-1.2	41.7	38.9	70.0	-24.3	60.4
96	<i>aug21</i>	1020	64.2	58.1	18.8	51.1	75.9	78.4	-12.5	65.4
96	<i>aug21</i>	1210	38.6	45.1	2.9	39.6	40.8	67.8	-18.1	58.8
96	<i>aug22</i>	1159	41.2	52.1	1.1	45.9	1.1	45.8	-19.8	60.9
96	<i>aug23</i>	1139	44.1	55.9	0.7	49.3	55.2	78.0	-31.5	65.2
96	<i>aug24</i>	1128	46.9	56	3.43	49.4	57.7	77.9	-28.3	65.1
96	<i>aug25</i>	1117	49.7	56.3	6.0	49.6	60.8	78.0	-25.9	65.2
96	<i>aug26</i>	932	20.3	58.9	80.8	68.2	35.1	48.2	78.2	54.9
96	<i>aug26</i>	1106	52.5	56.5	8.6	49.7	63.5	78	-23.1	65.2
96	<i>aug27</i>	921	21.6	59.5	83.9	69.1	37.1	48.9	80.9	55.8
96	<i>aug27</i>	1105	55.1	47.7	17.9	42	56.9	66.5	0.4	57.8
96	<i>aug28</i>	911	22.8	60.1	86.9	70.1	38.9	49.8	83.6	56.8
96	<i>aug28</i>	1054	57.9	47.4	20.9	41.7	61.2	70.1	-2.2	60.5
96	<i>aug29</i>	1040	8.9	55.5	62.1	63.7	21.3	44.4	60.8	50.5
96	<i>aug30</i>	1029	11.8	55.5	64.8	63.7	24.2	44.2	63.6	50.3
96	<i>aug31</i>	1019	7.6	59.2	69.1	68.8	22.8	48.7	66.3	55.5
96	<i>jul08</i>	1139	44.9	39.5	11.4	34.4	44.6	55.5	0.9	48.8
96	<i>jul08</i>	1326	19.4	38.8	-13.7	33.7	18.9	50.3	-20.5	44.2
96	<i>jul12</i>	910	81.1	32.3	51.9	27.8	82.2	70.6	20.6	61.0
96	<i>jul12</i>	919	21.4	59.4	84.4	69.1	36.8	48.9	81.3	55.9
96	<i>jul12</i>	1046	59.2	9.5	33.8	5.5	54.2	48.2	18.3	42.6
96	<i>jul12</i>	1056	55.6	46.2	18.8	40.6	56.9	64.7	2.5	56.3
96	<i>jul13</i>	859	83.9	32.1	54.9	27.6	84.9	70.7	23.3	61.1
96	<i>jul13</i>	1046	58.3	47.9	20.5	42.1	61.6	69.6	-1.7	60.0
96	<i>jul17</i>	1329	18.7	40.9	-15.4	35.6	19.5	63.6	-33.4	55.5
96	<i>jul18</i>	1137	46.9	40.7	13.0	35.5	46.7	55.8	2.8	49.1
96	<i>jul18</i>	1318	21.5	39.4	-11.8	34.3	21.9	62.2	-28.9	54.4
96	<i>jul20</i>	1256	27.5	35.3	-4.3	30.4	29.8	69.4	-32.9	59.8
96	<i>jul23</i>	1223	35.4	39.2	2.1	34.1	35.3	58	-10.8	50.9
96	<i>jul24</i>	1205	38.4	36.4	6.2	31.5	37.7	51.6	-2.6	45.4
96	<i>jul24</i>	1212	37.7	51.6	-2.7	45.4	39.8	66.6	-17.8	57.8
96	<i>jul28</i>	1305	24.8	64.9	-30	56.5	28.2	72.2	-40.9	61.7
96	<i>jul29</i>	1119	51.4	44.1	16.3	38.7	51.3	55.5	8.3	48.9
96	<i>jul31</i>	1418	6.5	36.8	-25.4	31.9	5.7	51.9	-34.3	45.8
96	<i>jun30</i>	1305	23.1	35.1	-8.64	30.2	22.2	52.3	-18.6	45.9
96	<i>sep01</i>	1008	13.3	57.9	71.4	66.8	27.4	47	69.2	53.5
96	<i>sep03</i>	1129	49.1	46.8	12.5	41.2	49.7	61.9	-0.1	54.3
97	<i>aug18</i>	1128	52.3	56.6	8.4	49.8	63.2	78.1	-23.3	65.2

Annex 2. Forest definitions

Country	Austria	Belgium	Denmark	Finland	France	Germany	Greece
Forest definitions	<p>All areas covered by woody plants if these criteria are met: a) minimum area of 500 m² covered by woody plants and b) width >= 10 m of area covered by woody plants and c) minimum crown coverage of 30% (ocular estimation).</p> <p>Note: Width >= 10m is required for <i>both</i> stream side areas covered by woody plants if stream width >= 3m.</p> <p>(page 43)</p>	<p>Walloon region Wooded area are considered and inventoried: *forests (more than 100 ha) *woods between 10 and 100 ha *small woods with area between 10 ares and 10 ha No crown cover specification. (page 94)</p> <p>Flemish region Forest area >= 50 ares width >= 25m cover >= 20% (excepted for clearcutting or forest damages)</p> <p>(page 112)</p>	<p>Forest is to be or should be planted with tree species which can be developed on the location into high forests with stems, that would stay at least, to a height of 6 meters</p> <p>the area should be more than 0.5 ha</p> <p>the areas should be wider than 20 meters (at least on average)</p> <p>(page 122)</p>	<p>Forest land has the potential capacity to produce a mean annual increment of at least 1 m³ /ha stemwood, over bark, given an optimum tree species mixture, growing stock volume and prescribed rotations.</p> <p>Scrub land has the potential capacity to produce a mean annual increment of at least 0.1 m³ /ha but less than 1.0 m³ /ha given an optimum tree species mix.</p> <p>Forest land and scrub land combined are called forested land.</p> <p>Waste land, if not naturally treeless, is not given an optimum tree species mix, and it is not able to produce annually more than 0.1^{m³/ha}</p> <p>(page 186)</p>	<p>Forests: Identified from aerial photos (ocular estimates). Must have following characteristics: *either measured trees (diameter >7.5 cm) have a (diameter >7.5 cm) have a crown cover percentage reaching at least 10% (ground projection of crowns) or *there are more than 500 stems per ha that are viable trees (able to make a stand): seedlings, plants or shoots, vigorous, well shaped and regularly distributed. *These characteristics, identified by photo-interpretation, are then checked up in the field. *cover at least 5 acres, the average width of canopy being at least 15 m.G53</p> <p>Other wooded lands: Defined by the same criteria as production forest. Only difference is that their main function is not production. They are not sampled in the forest. They mainly consist of unmanaged forest, protective forest, no-admittance areas.</p> <p>(page 254)</p>	<p>Forest within the meaning of the NFI is regardless of the information in the cadastral or similar records any area stocked with woody plants Forest include clear felled or cleared areas, forest roads, forest meadows, game pasture, timber yards, pipe routes located in the forest, overgrown heathens and moors, overgrown former meadows, alpine areas and rough grazings as well as dwarf pine and green alder areas. Heathens, moors, meadows, alpine areas and rough grazings are considered overgrown when the naturally occurring stocking has an average age of 5 years and at least 50% of the area stocked. Stocked areas in the field or in built-up areas less than 1000 m², strips of woody plants less than 10 m wide and christmas tree and ornamental branch crops as well as parks in residential areas are not forests according to the NFI. Forest area is the sum total of all areas defined as forests, consisting of productive wooded areas and non-wooded areas</p> <p>(page 306)</p>	<p>1) Areas with 0.5 ha or 30 cm strips with a tree crown closure that covers 10% of the area , or areas with 250 trees of a regeneration size, not used for other purposes or/ and other services. 2) Areas where trees have been removed with a crown closure less than 10% and they have not been used for other purposes. 3) Areas with regeneration. 4)Brush lands (areas covered by evergreen broad-leaved trees.</p> <p>(page 371)</p>

Country	Iceland	Ireland	Italy	Liechtenstein	Luxembourg	Netherlands	Norway
Forest definitions	<p>(not defined)</p>	<p>High forest: area with a minimum of 20% stocking and a yield class of 4 m³/ ha per annum. Scrub: area of broadleaf crop consistin of stunted trees or shrubs that lack the potential to develop as high forest. Plantable bare land: capable of growing trees.</p> <p>(page 401)</p>	<p>Forest area: a territory with one or more of following characters: *purpose to wood or non-wood goods productions currently regarded as forestal *contain tree or bush stands with direct or indirect funtion of protection *contain spontanous tree or bush stands with naturalist, scenic or recreation function.</p> <p>Included also areas temporarily without a stand because of cutting or exceptional occurrence.</p> <p>Minimum size of a forest area is 2000 m². Minimum width is 20 m. Canopy coverage of a minimum of 20% requested.</p> <p>(page 464)</p>	<p>Same as in Switzerland, except forest/non-forest decision is not made in aerial photographs but on the ground.</p> <p>(page 663)</p>	<p>no fomal definition of forest area</p> <p>Statistical Yearbook definition (STATEC). "Wooded land"</p> <p>1.1. Forest areas are composed of wood areas and non-wood areas: Woods are forests, i.e. areas with vegetative cover mainly composed of trees and /or shrubs producing wood or other forest products. The sum of the trees' (shrubs') crown projections has to cover more than 20% of the stand's total area. temporarily unwooded stands (following clear cut or forest fire, recently planted stands, natural regenerations, or any similar stands showing a crown projection of less than 20%) have to be considered as wood areas.</p> <p>1.2. Non-wood forest areas are: forest roads, forest depots, marshlands, and any other area without trees as far as this area is enclosed by forets. Areas abandoned by agriculture for more than 10 years and intended for forest use are also considered as non-wood forest areas. Nurseries and dependences or any other buildings related to forestry development are considered non-wood forest areas as well. Other wooded land are areas showing some forest featuers being not consistent with the definition under 1.1, i.e. areas of trees with a crown projection of less than 20%, stunt trees, shrublands, or any other areas not mainly used by agriculture.</p> <p>(page 662)</p>	<p>*Land areas of 0.5 ha and more and a width of at least 30 m that are covered with trees or bushes *With a maturity, a crown closure of 20% and over, the crown closure may (temporary) be lower than this figure because of final fellings for example *The tree and brush species present should be able to form forests.</p> <p>(page 727)</p>	<p>*Productive forest land is defined as land with an average potential production equal to or higher than 1 m³/ha/year (including bark) regardless of current stocking. *Non-productive forest land should have an average potential production of between 0.1 and 1.0 m³ /ha /year regardless of the current stocking, and it should have mineral soil. *Wooded mire has the same production potential as non-productive forest land, with a peat soil.</p> <p>(page 832)</p>

forest area definitions

Country	Portugal	Spain	Sweden	Switzerland	United Kingdom	Bulgaria	Czech Republic
Forest definitions	Area greater than 2000 m² and more than 15 m wide. *Includes exploitable forests, recently harvested or burned areas, recent seedlings and plantations, and green zones (reserves, protection forest and recreation forest). (page 879)	A territory or ecosystem predominantly with tree species and a cover-closure >=10% , also includes "open forest" over cultivated or pasture land where cover-closure >=20% . *Another category is called very open forest, including areas with a cover-closure between 5 and 10 % , with forest trees as dominant vertical vegetation type. Also open forest over natural pastures with c-c between 5 and 20 % is included in this category. Should be excluded from the "forested area" according to EU rules. (page 927)	Forest land is defined as land suitable for forest production, not used for other purposes, and with an average production >= 1 m³ /ha /year during a period of 100 years. *Minimum area considered as forest is 0.25 ha. (page 983)	Forest area criteria: *Width of the growing stock with canopy closure=100% is at least 25 m and with crown closure=20% at least 50 m . *Canopy closure between 20% and 100% depending on width of the growing stock *Minimum top height 3 m . (Exception: afforestations, young growth, mountain alder, mountain pine) (page 1067)	Minimum area 2 ha . In general the minimum width is 50 m . Areas of scattered trees with distinct crowns constitute woodland if the canopy covers more than 20% of the ground. Areas of young trees which have the potential to achieve a canopy cover of more than 20% are also interpreted woodland. Scrub will be included under its predominant photo-interpreted forest type (Conifer, Broadleaf, Mixed) or if not easily differentiated in this way it may be classed as Shrub land. Woodland also includes areas that may temporarily be without tree cover following forest operations such as felling. (page 1127)	Forest territories include all forests, and also rocks, lakes, and pastures situated within forests. Land covered by trees and shrubs (natural or artificially planted). The minimum area is 0.1 ha. Forest Research Institute - Bulgarian Academy of Sciences	Forest land is: *land with forest stands and land after clear cutting ready for reforestation, forest line and soft road of a width less than 4 m. *forest roads, water surfaces, land above timber line and other land serving for forest management. Minimum area is 0.01 ha , with a minimum width of 20 m . (page 1225)

Country	Hungary	Poland	Russian Federation	National level countries
Forest definitions	(not available)	Forest is a ground covered with a forest vegetation, of area above 0.1 ha ; it includes forest grounds temporarily deprived of forest vegetation, and grounds related to forestry (forest roads, nurseries etc.). (page 1251)	Pisarenko et al, 2001 Forest lands: All lands which are used for growing forest, including both stocked forest lands and temporarily open areas; Stocked forest land: All areas covered by stocked forests, which means areas covered by relative stocking rates of at least 0,4 for young stands, or 0,3 for other stands. The relative stocking is determined as the ratio between the sum of the basal areas of actual stand at breast height and the sum of basal areas of corresponding stands according to yield tables, where the stocking rate of fully closed stands is 1,0. (Remark: the stocked forest definition was applied in the project) (page XIII)	UN-ECE/FAO, 2000 Forest: Land with tree crown cover (or equivalent stocking level) of more than 10 percent and area of more than 0.5 ha. The trees should be able to reach a minimum height of 5 m at maturity in situ. May consist either of closed forest formations where trees of various storeys and undergrowth cover a high proportion of the ground; or of open forest formations with a continuous vegetation cover in which tree crown cover exceeds 10 percent. Young natural stands and all plantations established for forestry purposes which have yet to reach a crown density of 10 percent or tree height of 5m are included under forest, as are areas normally forming part of the forest area which are temporarily unstocked as a result of human intervention or natural causes but which are expected to revert to forest. Includes: Forest nurseries and seed orchards that constitute an integral part of the forest; forest roads, cleared http://www.unece.org/unece/trade/timber/ra/definit.htm#Forest

Sources: Study on European Forestry Information and Communication System - Reports on forestry inventory and survey systems Volume 1 and 2, European Commission, 1328 pp.
Pisarenko, A. I., Strakhov, V.V., Päivinen R., Kuusela, K., Dyakun, F.A., & Sdobnova, V.V., 2001 EFI Research Report 11. Brill: Leiden, Boston, Köln, 2001. 102 p
EC Phare Environmental Programme. 1999. Conservation and sustainable Management of Forests in Central and Eastern European Countries. Phare Multi-Country Forestry Programme. ISBN:92-828-8416-3
UN-ECE/FAO, 2000. Forest resources of Europe, CIS, North America, Australia, Japan and New Zealand (Industrialized temperate/boreal countries). UN-ECE/FAO Contribution to the Global Forest Resources Assessment 2000. Main report. Geneva Timber and Forestry

Annex 3. Country Data Fact Sheet

Country	Level	Reference Year	Coniferous class (*)	Broadleaf class (*)	Other class (*)	Total land area including inland water	Maps	Data source	Share of international assessments share of TBFRA 2000	share of FRA 1990	Calculation procedure	Other remarks	Definition of Forest Taken from: Study on European Forestry Information And Communication System – Reports on forestry inventory and survey systems, vol. 1 & vol. 2, European Commission, Luxembourg, 1997
			(in ha)	(in ha)	(in ha)	(in ha)			(in %)	(in %)			
Austria	NUTS 2 (9 regions)	1992-1996 (1998)	2,887,400	931,600	4,566,900	8,385,900	NUTS	Österreichische Waldinventur 1992-96, 1998. FBVA.CD Rom Version	99.5	98.5	Upscaling done for remaining unclassified forest area and divided proportionally to the regions (307100 ha) ; Forest roads etc. were put under 'Other land class')	data available by main tree species; combined to form broadleaved and coniferous classes	yes
Belgium	NUTS 1 (3 regions)	Flanders: 2001 Wallonia: 1999 Brussels Capital Region: 2000	321,837	367,337	2,362,604	3,051,778	NUTS	Flanders: Administratie Milieu, Natuur en Leefmilieu (AMINAL); Delivered by dr. ir. Martine Waterinckx. Wallonia: Cellule Inventaire des Ressources forestières de Wallonie - Ministère de la Région Wallone, D.G.R.N.E. - Division de la Nature et des Forêts- Direction des Ressources forestières. Mise à jour 1999. Delivered by ir. Christian Laurent. Brussels Capital Region: Brussels Institute for Environmental Management - Div. of Green Spaces - Dep. of Forests and Nature Reserves. (11/05/2000) Delivered by ir. Xavier Lejeune.	107	111	Flanders: mixed coniferous was added to coniferous and mixed broadleaved was added to broadleaved category Wallonia: total BRL and total CON are calculated by adding relative shares of "autres affectations" to "feuillus" and "resineux". Brussels Capital Region: Stands are reported to be mostly homogenous and even-aged.		yes
Bosnia Herzegovina	NUTS 0	1980's	868,559	37,441	1,665,000	2,571,000	available from basemap	European Forest Information Scenario model database (EFISCEN); Available at European Forest Institute	100	N.A.	The data was upscaled to the TBFRA 2000 forest area	Data for coppice forest was allocated to the broadleaved class	National forest definition not known
Bulgaria	9 regions	2000	1,007,889	2,287,186	7,584,925	10,880,000	digitized from map	Bulgarian Forest Inventory information sent by the Bulgarian Academy of Sciences Forest Research Institute in May 2002	92	97	Data was aggregated into the two species groups from species level data for state, communal and private forests.		
Czech	sub-national level (7 regions)	1996	2,014,504	568,562	5,303,191	7,886,257	digitized from the Arcview basemap	Report on the State of the Forest and Forestry in the Czech Republic, 1998.	98.2	98.2	Upscaling done for remaining unclassified forest area and divided proportionally to the regions (34441 ha); Military area same approach for broadl, coniferous and other forest class (163748 ha)	only coniferous and non-coniferous class available; Prague polygon was added to Stredocesky polygon	yes
Denmark	NUTS 3 (15 regions)	1990	155,093	290,298	3,862,808	4,308,199	NUTS	Skove og plantager 1990. Forests 1990. Miljøministeriet Skov- og Naturstyrelsen, Danmarks Statistik. 131p. 40-51p.	100	97.7	Upscaling done for remaining forest area (Temporarily uncovered area; Auxiliary areas; 34004 ha); Forest roads etc. under Other land class)	data available by main tree species; combined to form broadleaved and coniferous classes	yes
Finland	NUTS 3 (some digititising); Lapland to NUTS4	1986-1997	18,158,478	1,703,835	10,654,687	33,815,000	NUTS	The Finnish Forest Research Institute, 2001. Statistical yearbook of forestry 2001. The Finnish Forest Research Institute: Agriculture and Forestry 2001:52. 374p.	91	98.5	Previous project (Phase 1)	data available by main tree species; combined to form broadleaved and coniferous	yes
France	NUTS 2 (22 regions)	1981-1995	5,256,654	9,271,442	40,392,148	54,920,244	NUTS	Source: Inventaire forestier national as of 1.1.1997: In Ministère de l'Agriculture, de la Pêche et de l'Alimentation, 1997. Statistiques Forestières 1995. Données Chiffres. Agriculture no. 93 - juin 1997. 75p.	96	102	Upscaling done for remaining unclassified forest area "forêts et petit massifs" (1046544 ha) and divided proportionally to the regions; poplar plantations added to broadleaved class (144973 ha).	data available by main tree species; combined to form broadleaved and coniferous classes	yes
Germany	NUTS 1 (16 regions)	1986-1990; 1993	7,086,868	3,654,131	24,930,800	35,671,799	NUTS	Bundeswaldinventur 1986-1990 Band 1. Bundesministerium fuer Ernährung, Landwirtschaft und Forsten (BML). 118p.; EFISCEN European Forest Resources database (Neue Länder); Eurostat, 1998. Forestry statistics 1992-1996	100	102	Upscaling done for remaining unclassified forest area and divided proportionally to the regions (Difference between Eurostat 1998 statistics which were not specified as con/broadl in the inventory statistics (605176 ha)	data available by main tree species groups; combined to form broadleaved and coniferous classes	yes
Greece	NUTS 0	1992	1,429,000	1,930,000	9,837,000	13,196,000	Country level	UN-ECE/FAO, 2000. TBFRA 2000	100	134	No suitable data at regional level could be found. TBFRA 2000 used at the country level; Mixed forest from TBFRA 2000 is divided over CON and BRL according to the species groups' ratio's.		yes
Hungary	sub-national level (19 regions)	1996	267,900	1,499,100	7,536,000	9,303,000	digitized from map	Országos adatok, 1997. Magyarország érdőállományainak főbb adatai. Állami Erdészeti Szolgálat, Budapest.	98	105	Upscaling of regional values from national inventory data, with a value for actual forest totalling 1630000 ha to a value totalling 1767000 ha. The latter value is according to Hungarian foresters' records and is regarded as a more accurate total value.	data available by main tree species; combined to form broadleaved and coniferous classes	n.a.
Ireland	NUTS 0	1996	505	86	6,438	7,029	Country level	UN-ECE/FAO, 2000. TBFRA 2000	100	149	No suitable data at regional level could be found. TBFRA 2000 used at the country level. Upscaling of 10000 ha of mixed forest to the coniferous and broadleaved classes		yes
Italy	NUTS 2 (partly NUTS 3) (21 regions)	1985	1,647,615	5,038,584	23,441,561	30,127,760	NUTS	Inventario Forestale Nazionale 1985, p 444; Expert consultation	68	99	Expert consultation, Upscaling done for remaining unclassified forest area (Riparian forest) and divided proportionally to the regions (79700 ha)	data available by main tree species groups; combined to form broadleaved and coniferous classes	Italy
Luxembourg	NUTS 1	1991	32,200	56,600	170,200	259,000	Country level	Eurostat, 1995. Eurostat Forestry statistics 1985-1991. 5C. ECSC-ECEAEC, Brussels, Luxembourg. 127p	102	102	Data in coniferous and broadleaved forest class as given in the referenced Eurostat publication	Only coniferous and broadleaved class available	no formal definition on forest
Netherlands	NUTS 2 (12 regions)	1980-1983	201,710	132,315	3,768,674	4,102,699	NUTS	De nederlandse bosstatistiek. deel 1 de oppervlakte bos, 1980-83. centraal bureau voor de statistiek in samenwerking met het staatsbosbeheer. p. 42-44.	99	1	Remaining "other forest area" (5368 ha) was divided proportionally over the provinces; Then the provincial "other forest area" shares were divided to the BRL and CON classes according to the respective ratio's.	Data available by main tree species, combined to form broadleaved and coniferous classes.	yes
Norway	7 regions	1994-1998	6,393,000	2,316,000	23,650,000	32,359,000	Regions aggregated from ArcView basemap	Skog 2000 Statistics of forest conditions and resources in Norway. Editor Stein M. Tomter. NJOS. Ås 2000. 84p. Reference to Census of Agriculture and Forestry, 1998 for Finnmark)	100	100	Productive forest area of 7053000 ha used. From Census of Agr. & For. 83000 ha used (productive forest in Finnmark). Remaining area to meet TBFRA (7810000 ha) and FRA1990 (7697000 ha) forest area were produced by upscaling and then proportionally dividing the forest land to the regions by broadleaved and coniferous class		yes
Poland	sub-national level (16 regions)	1997	6,805	2,045	22,409	31,259	digitized from map	Forestry statistics provided by Dr. R. Michalak;), total forest area year of reference – 31.12.1999	99	102	Species data available for forest area by province (voivodship). The species data has been aggregated by species group to calculate the CON, BRL and OTH land occupation classes. Year of reference – 31.12.1999.	Data provided by Roman Michalak, data available by main tree species	yes
Portugal	5 regions	1980-1985	1,571,823	1,810,177	5,497,800	8,879,800	NUTS	Eurostat. 1995. Forestry Statistics 1985-1991. Luxembourg, Statistical Office of the European Communities, 127 p. UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100	123	Basic species group data from the Eurostat Forestry Statistics publication (Eurostat, 1995) adjusted to fit the TBFRA2000 data.		yes
Russia (European part)	(sub-national level (53 Oblasts - for the European oblasts Kurgan, Orenburg, Sverdlovsk and Chelyabinsk no satellite data was available. These regions were excluded from the calibration process. The data shown in the next columns however does include the aea data for the latter 4 oblasts.)	1998 - 2000	106,988,718	60,985,882	235,373,900	403,348,500	Arcview basemap	Pisarenko, A.I., Strakhov, V.V., Päivinen, R., Kuusela, K., Dyakun, F.A., Sdobnova, V.V. 2001. Development of Forest Resources in the European Part of the Russian Federation. EFI Research Report 11. Brill, Leiden, 102. Data for other ownership categories provided by Strakhov May/June 2001 by Oblasts: data available only for forest class (reference year 1998)	N.A.	N.A.	Detailed data by CON and soft/hard BRL was available for Forest land under the authority of the Federal Forest Service (140.838.200 ha); For the other ownership classes, data was only available for total forest area by oblast. These other ownership classes and respective total forest areas in the European part of Russia are: the Ministry of Agriculture, 23.868.800 ha, the Ministry of Education, 197.600 ha, the Ministry of Defence, 1.485.800 ha, Municipal authorities (city forests), 526.600 ha and the State Comm. of Ecology and Environment, 1.817.200 ha; Then the individual ownership categories were added up to total forest area for each of the oblasts, after which these figures were proportionally divided over the categories CON, BRL and OTH according to the respective ratio's of forest land under the authority of the Federal Forest Service to the total area, for each of the oblasts in the European part of Russia. NOTE: FIGURE FROM STRAKHOV DATA REPRESENTS 99,7 % OF FIGURE IN EFI RR 11 FOR STOCKED FOREST LANDS IN THE E. P. OF RUSSIA		

Country	Level	Reference Year	Coniferous class (*)	Broadleaf class (*)	Other class (*)	Total land area including inland water	Maps	Data source	Share of international assessments		Calculation procedure	Other remarks	Definition of Forest Taken from: Study on European Forestry Information And Communication System – Reports on forestry inventory and survey systems, vol. 1 & vol. 2, European Commission, Luxembourg, 1997
									share of TBFRA 2000	share of FRA 1990			
			(in ha)	(in ha)	(in ha)	(in ha)			(in %)	(in %)			
Spain	17 regions	1995	10,128,439	3,832,637	35,790,624	49,751,700 NUTS		Eurostat. 1995. Forestry Statistics 1985-1991. Luxembourg, Office des publications officielles des Communauté's européennes, 127 p. 2nd Spanish forest inventory http://www.iies.es/montes/inventario1.htm *** 1995 data ***	103		166 Data from the 2nd National Forest Inventory (1995) divided into the species groups CON and BRL, according to Eurostat (1995) species groups' ratios (which were based on the 1st national forest inventory).		yes
Sweden	23 regions	1988-1992	21,909,845	1,535,967	17,590,188	41,036,000 NUTS		SLU. 1999. Skogsdata 99: Aktuella uppgifter om de svenska skogarna från riksskogstaxeringen. Institutionen för skoglig resurshushållning och geomatik, Umeå, 2000.	86	96			yes
Switzerland	sub-national level (5 regions)	1993-1995	767,300	371,600	2,989,400	4,128,300 digitized from the Arcview basemap		Source: Schweizerisches Landesforstinventar. Ergebnisse der Zweitaufnahme 1993-1995. WSL/FNP p.147. Table 118	97.3		101 Upscaling done for remaining unclassified forest area and divided proportionally to the regions (31000 ha)	data available by main tree species; combined to form broadleaved and coniferous classes	yes
United Kingdom	subnational level (11 regions)	1980/1995	1,643,473	825,527	21,942,100	24,411,100 NUTS		Eurostat (1995). Forestry Statistics 1985-1991. Luxembourg, Office des publications officielles des Communautés Européennes, 127p. Eurostat (1998). Forestry Statistics 1992-1996. Luxembourg, Office des publications officielles des Communautés Européennes, 148p.	100		112 The proportions of 1980 regional species data (CON and BRL) have been applied to the 1995 regional total forest areas, for division into new coniferous and broadleaved classes.	CON and BRL data available only	yes
The Former Yugoslav Republic of Macedonia	NUTS 0	1980's				available from basemap		European Forest Information Scenario model database (EFISCEN); Available at European Forest Institute	100	N.A.	Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		National forest definition ?
			2100094	175918	2843988	5120000							
Albania	NUTS 0	1995	199961	830942	1843897	2874800 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Croatia	NUTS 0	1996	184,434	1,590,356	3,879,209	5,654,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Estonia	NUTS 0	1996	1319196	696705	2507099	4523000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Iceland	NUTS 0	1998	11,058	18,798	10,265,145	10,295,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Latvia	NUTS 0	1997	1,956,641	927,302	3,575,057	6,459,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Liechtenstein	NUTS 0	1995	4,173	2,782	9,045	16,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Lithuania	NUTS 0	1996	1,135,813	842,124	4,552,063	6,530,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Romania	NUTS 0	1992-97	1,909,512	4,391,162	17,538,426	23,839,100 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Slovakia	NUTS 0	1996	792,067	1,224,047	2,886,886	4,903,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Slovenia	NUTS 0	1996	487,271	611,566	928,163	2,027,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Yugoslavia	NUTS 0	1995	225,828	2,668,677	7,322,596	10,217,100 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Belarus	NUTS 0	1994-97	4,992,761	2,869,051	12,898,188	20,760,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Ukraine	NUTS 0	1996	4,151,636	5,305,993	50,897,372	60,355,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition
Moldova	NUTS 0	1997	4,062	320,221	3,060,717	3,385,000 available from basemap		UN ECE/FAO. 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand. Main Report. Geneva Timber and Forest Study Papers, No. 17. Geneva, United Nations, 445 p.	100		Data from the "Mixed" class was proportionally divided over the BRL and CON classes, according to the ratio's of respectively the BRL and CON class to the sum of both original species groups.		TBFRA Forest definition

(*) CLASSES: Remarks

Coniferous comprises either the sum of individual coniferous species or is taken as presented in the statistics as coniferous
Broadleaved comprises either the sum of individual broadleaved species or is taken as presented in the statistics as broadleaved
remaining unclassified forest land is proportionally divided to the regions and classes coniferous, broadleaved
Other includes all remaining land and water areas except for Finland (water areas excluded from other class)

Country	RegCod	Region	NUTS	BRD_kHA	CON_kHA	FOR_kHA	OTH_kHA	Land_kHA	Total_kHA	STAT_BRD_pro	STAT_CON_pro	STAT_FOR_pro	STAT_OTH_pro	AVH_BRD_pro	AVH_CON_pro	AVH_FOR_pro	AVH_OTH_pro	CAL_BRD_pro	CAL_CON_pro	CAL_FOR_pro	CAL_OTH_pro	Iterations
Albania	1	Albania	AL0	831	200	1031	1728	2759	2875	30	7	37	63	11.73	3.04	14.77	85.23	29.91	6.96	36.87	63.13	3
AUSTRIA	2	Burgenland	AT11	71	57	128	262	390	397	18.3	14.5	32.8	67.2	12.58	8.28	20.87	79.13	18.25	14.40	32.65	67.35	4
AUSTRIA	3	Niederösterreich	AT12	287	453	740	1146	1886	1917	15	24	39	61	15.44	18.37	33.80	66.20	14.99	23.88	38.87	61.13	6
AUSTRIA	4	Wien	AT13	7	0	7	34	41	42	17	0.001	17.001	82.999	11.99	3.02	15.00	85.00	16.87	0.00	16.87	83.13	4
AUSTRIA	5	Kärnten	AT21	86	471	557	381	938	953	9	50	59	41	16.14	42.51	58.64	41.36	9.02	49.82	58.84	41.16	4
AUSTRIA	6	Steiermark	AT22	159	802	961	652	1612	1639	10	50	60	40	17.03	41.72	58.75	41.25	10.02	49.86	59.88	40.12	5
AUSTRIA	7	Oberösterreich	AT31	148	329	477	702	1179	1198	12.6	27.9	40.5	59.5	15.66	22.84	38.50	61.50	12.60	27.73	40.32	59.68	5
AUSTRIA	8	Salzburg	AT32	78	280	358	346	704	716	11	40	51	49	18.26	37.26	55.52	44.48	11.03	40.03	51.06	48.94	3
AUSTRIA	9	Tirol	AT33	57	442	499	745	1244	1265	4.6	35.5	40.1	59.9	10.70	33.18	43.87	56.13	4.61	35.65	40.26	59.74	3
AUSTRIA	10	Vorarlberg	AT34	23	69	92	164	256	260	9	27	36	64	18.12	27.72	45.84	54.16	9.00	27.13	36.13	63.87	4
Bosnia and Herzegovina	11	Bosnia and Herzegovina	BA0	2276	176	2452	2621	5073	5120	45	3	48	52	25.19	11.80	36.99	63.01	44.94	3.00	47.94	52.06	4
BELGIUM	12	Brussels Capital Region	BE1	2	0	2	14	16	16	10	1	11	89	5.58	5.80	11.37	88.63	10.03	1.00	11.03	88.97	2
BELGIUM	13	Flemish Region	BE2	80	62	143	1199	1341	1351	6	5	11	89	5.59	2.11	7.70	92.30	5.97	4.85	10.82	89.18	2
BELGIUM	14	Walloon Region	BE3	285	259	545	1127	1672	1684	17	16	33	67	17.02	9.08	26.10	73.90	16.95	15.89	32.84	67.16	5
Bulgaria	15	North-West	BG1	168	23	192	798	990	1010	17	2	19	81	10.66	2.94	13.60	86.40	16.91	1.99	18.91	81.09	3.00
Bulgaria	16	North	BG2	285	49	334	1107	1441	1470	20	3	23	77	13.41	3.09	16.50	83.50	19.87	2.99	22.86	77.14	3.00
Bulgaria	17	North-East	BG3	423	35	458	1777	2235	2280	19	2	21	79	7.09	1.79	8.88	91.12	18.96	1.99	20.95	79.05	3.00
Bulgaria	18	West	BG4	343	171	514	869	1382	1410	25	12	37	63	20.26	7.29	27.55	72.45	24.93	11.95	36.88	63.12	4.00
Bulgaria	19	Middle	BG5	313	231	543	986	1529	1560	20.45	15.08	35.53	64.47	14.41	7.96	22.37	77.63	20.40	14.98	35.38	64.62	7.00
Bulgaria	20	East	BG6	388	73	461	970	1431	1450	27	5	32	68	14.75	3.16	17.90	82.10	26.86	4.98	31.84	68.16	5.00
Bulgaria	21	South-West	BG7	131	167	298	369	667	680	20	25	45	55	10.57	11.76	22.34	77.66	19.99	24.88	44.87	55.13	7.00
Bulgaria	22	South	BG8	59	161	219	114	333	340	18	48	66	34	20.67	22.64	43.32	56.68	18.02	47.87	65.88	34.12	5.00
Bulgaria	23	South-East	BG9	178	98	276	596	872	890	20.4	11.3	31.7	68.3	5.71	1.88	7.59	92.41	20.38	11.25	31.63	68.37	4.00
Belarus	24	Belarus	BY0	2869	4993	7862	12423	20285	20760	14	25	39	61	9.67	25.30	34.97	65.03	13.99	24.89	38.89	61.11	3
SWITZERLAND	25	Jura	CH1	97	102	200	268	468	494	21	22	43	57	32.12	8.48	40.60	59.40	20.95	21.90	42.85	57.15	3
SWITZERLAND	26	Mittelland	CH2	91	135	226	667	893	941	10	15	25	45	14.61	6.26	20.87	79.13	9.95	14.88	24.83	75.17	3
SWITZERLAND	27	Voralpen	CH3	47	167	214	413	627	661	7	19	26	66	24.19	17.62	41.81	58.19	7.00	26.91	33.91	66.09	4
SWITZERLAND	28	Alpen	CH4	55	304	359	1232	1592	1678	3.5	19.1	22.6	77.4	9.11	15.40	24.51	75.49	3.49	18.98	22.48	77.52	4
SWITZERLAND	29	Alpensued	CH5	81	60	141	195	336	355	24	18	58	18	18.49	22.63	41.13	58.87	53.97	23.96	42.05	57.95	4
CZECH REPUBLIC	30	Stredocesky + Praha	CZ1	78	206	284	844	1128	1151	7	18	25	75	9.53	14.95	24.48	75.52	6.99	24.87	6.99	75.13	4
CZECH REPUBLIC	31	Jihocesky	CZ3	43	362	405	707	1112	1135	3.9	32.5	36.4	63.6	13.44	25.22	38.66	61.34	3.90	32.38	36.28	63.72	5
CZECH REPUBLIC	32	Zapadocesky	CZ4	45	378	423	643	1066	1088	4.2	35.5	39.7	60.3	13.28	31.17	44.45	55.55	4.20	35.38	39.58	60.42	4
CZECH REPUBLIC	33	Severocesky	CZ5	86	164	250	514	764	780	11.24	21.44	32.68	67.32	15.66	16.03	31.69	68.31	11.23	21.33	32.56	67.44	4
CZECH REPUBLIC	34	Vychocesky	CZ6	61	293	354	747	1101	1124	5.6	26.6	32.2	67.8	11.23	13.82	25.05	74.95	5.60	26.47	32.07	67.93	6
CZECH REPUBLIC	35	Jihomoravsky	CZ7	155	286	440	1032	1472	1503	11	19	30	70	11.72	10.18	21.90	78.10	10.98	18.86	29.83	70.17	5
CZECH REPUBLIC	36	Severomoravsky	CZ8	98	315	413	671	1084	1107	9	29	38	62	14.87	19.48	34.35	65.65	8.99	28.88	37.88	62.12	6
GERMANY	37	Baden-Württemberg	DE1	469	884	1353	2113	3466	3575	13.5	25.5	39	61	21.35	15.79	37.14	62.86	13.48	25.39	38.87	61.13	5
GERMANY	38	Bayern	DE2	630	1896	2526	4314	6840	7055	9	28	37	63	13.11	18.70	31.81	68.19	9.00	27.83	36.83	63.17	6
GERMANY	39	Berlin	DE3	10	6	16	70	86	89	11.1	7.5	18.6	81.4	3.69	18.07	21.76	78.24	11.12	7.56	18.68	81.32	4
GERMANY	40	Brandenburg	DE4	150	843	993	1865	2858	2948	5	30	35	65	5.86	22.19	28.05	71.95	5.01	29.82	34.83	65.17	6
GERMANY	41	Bremen	DE5	0	0	0	39	39	40	0.001	0.001	0.002	99.998	5.01	2.44	7.45	92.55	0.00	0.00	0.00	100.00	1
GERMANY	42	Hamburg	DE6	0	3	3	70	73	76	0.5	3.6	4.1	95.9	5.59	9.68	15.27	84.73	0.50	3.75	4.25	95.75	2
GERMANY	43	Hessen	DE7	435	435	870	1777	2047	2111	21.2	21.3	42.5	57.5	16.85	14.98	31.84	68.16	21.16	21.17	42.34	57.66	5
GERMANY	44	Mecklenburg-Vorpommern	DE8	197	335	532	1714	2246	2317	9	15	24	76	6.55	10.51	17.07	82.93	9.00	14.88	23.88	76.12	5
GERMANY	45	Niedersachsen	DE9	400	668	1068	3522	4590	4735	8.7	14.6	23.3	76.7	7.37	9.83	17.20	82.80	8.70	14.47	23.17	76.83	6
GERMANY	46	Nordrhein-Westfalen	DEA	419	454	873	2430	3303	3407	12.7	13.7	26.4	73.6	10.72	12.21	22.93	77.07	12.68	13.61	26.29	73.71	4
GERMANY	47	Rheinland-Pfalz	DEB	410	403	813	1111	1924	1985	21	21	42	58	21.11	13.22	34.33	65.67	20.97	20.93	41.89	58.11	5
GERMANY	48	Saarland	DEC	54	36	90	159	249	257	22	14	36	64	23.34	9.48	32.82	67.18	21.95	13.96	35.91	64.09	3
GERMANY	49	Sachsen	DED	103	399	502	1283	1785	1841	6	22	28	72	8.61	16.02	24.63	75.37	6.00	21.86	27.85	72.15	6
GERMANY	50	Sachsen-Anhalt	DEE	130	294	424	1558	1982	2045	6.6	14.8	21.4	78.6	6.36	10.49	16.84	83.16	6.60	14.66	21.26	78.74	6
GERMANY	51	Schleswig-Holstein	DEF	82	73	155	1370	1525	1573	5	5	10	90	6.12	3.84	9.96	90.04	4.99	9.88	9.88	90.12	2
GERMANY	52	Thüringen	DEG	165	358	523	1045	1568	1617	10.52	22.83	33.35	66.65	11.48	17.47	28.95	71.05	10.51	22.64	33.16	66.84	6
DENMARK	53	København og Frederiksberg Kommuner	DK001	0	0	0	10	10	10	0.001	0.001	0.002	99.998	1.85	6.76	8.61	91.39	0.00	0.00	0.00	100.00	1
DENMARK	54	København amt	DK002	4	1	5	46	51	52	8	2	10	90	5.57	11.11	16.68	83.32	8.02	2.05	10.07	89.93	3
DENMARK	55	Frederiksberg amt	DK003	12	9	21	112	133	135	9	7	16	84	7.64	11.38	19.02	80.98	9.04	7.14	16.18	83.82	3
DENMARK	56	Roskilde amt	DK004	6	4	10	78	88	89	7	4	11	89	5.56	3.35	8.91	91.09	6.99	3.97	10.96	89.04	2
DENMARK	57	Vestsjællands amt	DK005	17	11	28	266	294	298	6	4	28	90	5.29	3.86	9.15	90.85	5.96	3.94	9.90	90.10	1
DENMARK	58	Storstrøms amt	DK006	26	11	38	297	334	340	8	3	11	89	5.42	3.51	8.93	91.07	7.90	3.09	10.98	89.02	1
DENMARK	59	Bornholms amt	DK007	4	6	10	48	58	59	7	11	18	82	6.34	16.02	22.36	77.64	7.02	11.06	18.08	81.92	4
DENMARK	60	Fyns amt	DK008	17	12	29	313	343	349	5	4	9	91	4.46	3.20	7.66	92.34	4.98	3.86	8.84	91.16	1
DENMARK	61	Sønderjyllands amt	DK009	11	17	27	359	387	393	3	4	7	93	5.84	3.05	8.89	91.11	3.03	3.82	6.84	93.16	1
DENMARK	62	Ribe amt	DK00A																			

Country	RegCod	Region	NUTS	BRD_kHA	CON_kHA	FOR_kHA	OTH_kHA	Land_kHA	Total_kHA	STAT_BRD_pro	STAT_CON_pro	STAT_FOR_pro	STAT_OTH_pro	AVH_BRD_pro	AVH_CON_pro	AVH_FOR_pro	AVH_OTH_pro	CAL_BRD_pro	CAL_CON_pro	CAL_FOR_pro	CAL_OTH_pro	Iterations
FRANCE	112	Bretagne	FR52	163	123	286	2424	2711	2749	6	5	11	89	9.78	3.14	12.91	87.09	6.06	4.98	11.04	88.96	1
FRANCE	113	Poitou-Charentes	FR53	295	88	383	2178	2561	2597	12	3	15	85	6.12	1.12	7.24	92.76	11.98	2.97	14.96	85.04	3
FRANCE	114	Aquitaine	FR61	678	1098	1776	2348	4123	4182	16	27	43	57	12.95	13.79	26.74	73.26	16.00	26.91	42.92	57.08	5
FRANCE	115	Midi-Pyrenees	FR62	1008	194	1202	3294	4496	4560	22.4	4.3	32.94	73.3	12.46	5.45	17.91	82.09	22.31	4.27	26.58	73.42	3
FRANCE	116	Limousin	FR63	371	192	563	1119	1682	1706	22	11	33	67	20.09	7.04	27.13	72.87	21.95	10.97	32.92	67.08	3
FRANCE	117	Rhone-Alpes	FR71	750	742	1493	2941	4434	4477	17	17	34	66	17.78	8.97	26.75	73.25	16.97	16.95	33.92	66.08	5
FRANCE	118	Auvergne	FR72	346	358	704	1878	2581	2618	13	14	27	73	16.37	6.35	22.72	77.28	12.93	13.89	26.82	73.18	3
FRANCE	119	Languedoc-Roussillon	FR81	507	427	934	1804	2737	2776	18.5	15.6	34.1	65.9	12.85	12.05	24.90	75.10	18.46	15.52	33.98	66.02	3
FRANCE	120	Provence-Alpes-Cote d'Azur	FR82	491	720	1211	1924	3135	3179	16	23	39	61	10.18	10.81	20.99	79.01	15.99	22.91	38.90	61.10	5
FRANCE	121	Corse	FR83	179	74	252	606	858	871	20.8	8.6	29.4	70.6	19.41	17.02	36.43	63.57	20.69	8.66	29.35	70.65	2
Greece	122	Greece	GR0	1931	1429	3360	9716	13076	13196	15	11	26	74	9.59	4.56	14.15	85.85	14.98	10.91	25.89	74.11	3
Croatia	123	Croatia	HR	1590	184	1775	3817	5592	5654	28.4	3.3	31.7	68.3	21.86	6.60	28.45	71.55	28.29	3.30	31.59	68.41	3
HUNGARY	124	Baranya	HU1	99	6	105	334	439	449	23	1	24	76	10.77	2.73	13.50	86.50	22.86	1.00	23.86	76.14	3
HUNGARY	125	Komárom-Esz..	HU10	56	4	60	160	220	225	25	2	27	73	12.56	3.35	15.91	84.09	24.93	2.00	26.93	73.07	4
HUNGARY	126	Nógrád	HU11	85	10	96	153	249	254	34	4	38	62	21.65	4.26	25.91	74.09	33.88	3.99	37.88	62.12	4
HUNGARY	127	Pest+Budapest	HU12	135	20	155	521	676	692	20	3	23	77	9.76	2.62	12.37	87.63	19.88	2.99	22.87	77.13	3
HUNGARY	128	Somogy	HU13	143	20	164	426	590	604	24.26	3.47	27.73	72.27	11.16	3.69	14.85	85.15	24.15	3.45	27.61	72.39	1
HUNGARY	129	Szabolcs-Sz.-B.	HU14	79	6	85	496	580	594	14	1	15	85	6.35	1.99	8.34	91.66	13.98	1.00	14.98	85.02	2
HUNGARY	130	Jász-N.-Szolnok	HU15	30	0	30	518	548	561	5	0.001	5.001	94.999	4.61	2.24	6.86	93.14	5.02	0.00	5.02	94.98	1
HUNGARY	131	Tolna	HU16	55	7	62	300	362	370	15	2	17	83	9.03	2.98	12.01	87.99	14.87	1.98	16.85	83.15	2
HUNGARY	132	Vas	HU17	55	39	94	232	326	334	17	12	29	71	11.93	5.74	17.67	82.33	16.95	11.93	28.88	71.12	4
HUNGARY	133	Veszprém	HU18	119	17	4	136	322	458	26	4	30	70	16.70	3.83	20.53	79.47	25.93	3.99	29.92	70.08	4
HUNGARY	134	Zala	HU19	93	22	115	254	370	378	25	6	31	69	14.27	4.09	18.36	81.64	24.87	5.97	30.84	69.16	3
HUNGARY	135	Bács-Kiskun	HU2	86	59	144	673	817	836	10.5	7.2	17.7	82.3	6.36	2.87	9.22	90.78	10.49	7.18	17.67	82.33	3
HUNGARY	136	Lake Ladoga	HU20							0.001	0.001		99.998	1.53	13.71	15.25	84.75	0.00	0.00	0.00	100.00	1
HUNGARY	137	Békés	HU3	22	0	22	528	550	563	4	0.001	4.001	95.999	5.62	2.28	7.90	92.10	4.07	0.00	4.07	95.93	1
HUNGARY	138	Borsod-A.-Z.	HU4	180	18	199	510	708	725	25	3	28	72	19.17	3.58	22.75	77.25	24.90	2.99	27.89	72.11	4
HUNGARY	139	Csongrád	HU5	23	7	31	386	417	426	5.6	1.7	7.3	2.8	5.40	1.95	7.35	92.65	5.60	1.71	7.31	92.69	1
HUNGARY	140	Fejér	HU6	48	6	54	374	427	437	11.23	1.34	12.57	87.43	8.13	2.25	10.38	89.62	11.15	1.33	12.48	87.52	2
HUNGARY	141	Gyor-M.-Sopron	HU7	61	11	72	321	392	401	15	3	18	82	9.17	3.70	12.87	87.13	14.85	2.97	17.82	82.18	1
HUNGARY	142	Hajdú-Bihar	HU8	52	8	60	547	607	621	9	1	10	90	6.76	2.33	9.09	90.91	9.91	1.00	9.91	90.09	1
HUNGARY	143	Heves	HU9	43	7	50	271	356	364	22	34	76	24	16.38	3.94	20.32	79.68	21.87	2.00	23.86	76.14	4
IRELAND	144	IRELAND	IE0	86	505	591	6299	6890	7029	1.25	7.33	8.58	91.42	7.35	6.94	14.00	86.00	1.26	7.42	8.58	94.32	2
Iceland	145	Iceland	ISO	19	11	30	8994	9024	10295	0.001	0.001	0.002	99.998	8.08	15.09	23.17	76.83	0.00	0.00	0.00	100.00	1
ITALY	146	Piemonte	IT11	496	138	634	1845	2479	2540	20	6	26	74	16.69	5.02	21.71	78.29	19.95	5.95	25.90	74.10	4
ITALY	147	Valle d'Aosta	IT12	14	57	72	247	318	326	4	18	22	78	6.73	15.43	22.16	77.84	3.99	17.82	21.81	78.19	4
ITALY	148	Liguria	IT13	269	54	323	206	529	542	51	10	61	39	40.51	6.25	46.76	53.24	50.93	10.02	60.95	39.05	3
ITALY	149	Lombardia	IT2	369	153	522	1807	2329	2386	15.863	6.563	22.426	77.574	12.69	7.55	20.24	79.76	15.70	6.63	22.33	77.67	2
ITALY	150	Prov. Bolzano	IT311	25	244	268	454	722	740	3	34	37	63	10.69	32.76	43.45	56.55	3.00	34.18	37.18	62.82	4
ITALY	151	Prov. Trento	IT312	94	228	321	286	607	622	15	38	53	47	13.33	37.41	50.74	49.26	14.99	37.88	52.87	47.13	3
ITALY	152	Veneto	IT32	150	136	286	1506	1793	1836	8	8	16	84	10.18	10.36	20.54	79.46	8.01	8.09	16.11	83.89	5
ITALY	153	Friuli V.G.	IT33	122	84	206	560	766	785	16	11	27	73	19.11	19.21	38.32	61.68	16.02	11.15	27.17	72.83	4
ITALY	154	Emilio Romagna	IT4	335	39	374	1785	2159	2212	15.44	1.8	17.3	82.7	15.44	1.49	16.94	83.06	15.47	1.78	17.25	82.75	1
ITALY	155	Toscana	IT51	764	106	870	1374	2244	2299	34	5	39	61	25.08	2.99	28.06	71.94	33.94	5.00	38.94	61.06	4
ITALY	156	Umbria	IT52	271	35	307	519	825	846	33	4	37	63	17.07	2.13	19.19	80.81	32.83	3.98	36.81	63.19	3
ITALY	157	Marche	IT53	180	28	209	737	946	969	19	3	22	78	12.46	1.33	13.79	86.21	18.91	2.99	21.90	78.10	3
ITALY	158	Lazio	IT6	358	29	387	1292	1679	1720	21	2	23	77	16.01	2.51	18.52	81.48	20.81	2.00	22.81	77.19	2
ITALY	159	Abruzzo	IT71	222	26	248	806	1054	1079	21	2.5	23.5	76.5	16.55	2.16	18.71	81.29	20.91	2.50	23.41	76.59	3
ITALY	160	Molise	IT72	96	8	104	329	433	444	22	2	24	76	13.78	1.60	15.38	84.62	21.88	2.00	23.88	76.12	3
ITALY	161	Campania	IT8	277	17	294	1033	1327	1360	21	1	22	78	15.65	2.47	18.12	81.88	20.96	1.00	21.96	78.04	3
ITALY	162	Puglia	IT91	85	34	120	1769	1889	1935	4.5	1.8	6.3	93.7	4.77	2.70	7.47	92.53	4.53	1.81	6.34	93.66	1
ITALY	163	Basilicata	IT92	179	22	201	774	975	999	18.4	2.2	20.6	79.4	10.85	1.95	12.80	87.20	18.30	2.20	20.50	79.50	3
ITALY	164	Calabria	IT93	306	115	421	1051	1472	1508	21	8	29	71	16.16	4.39	20.56	79.44	20.89	7.97	28.87	71.13	3
ITALY	165	Sicilia	IT94	147	54	201	2309	2509	2571	16	2	8	92	5.57	4.58	10.15	89.85	6.04	2.10	8.14	91.86	1
ITALY	166	Sardegna	ITB	279	39	318	2033	2351	2409	12	2	14	86	11.12	6.19	17.30	82.70	12.01	2.01	14.02	85.98	2
Liechtenstein	167	Liechtenstein	LI0	3	4	7	9	16	16	17	26	43	57	14.22	28.55	42.78	57.22	16.99	26.12	43.11	56.89	3
Lithuania	168	Lithuania	LT0	842	1136	1978	4289	6267	6530	13.44	18.12	31.56	68.44	10.60	15.31	25.91	74.09	13.44	17.99	31.43	68.57	4
LUXEMBOURG	169	LUXEMBOURG	LU	56	32	88	170	258	259	22	12	34	66	23.11	5.49	28.60	71.40	21.95	11.98	33.93	66.07	3
Latvia	170	Latvia	LV0	927	1957	2884	3338	6222	6459	15	31	46	54	19.08	32.96	52.04	47.96	14.99	31.13	46.12	53.88	3
Moldova	171	Moldova	MD0	320	4	324	2985	3309	3385	10	0.001	10.001	89.999	6.76	2.33	9.09	90.91	9.80	0.00	9.80	90.20	1
FYR Macedonia	172	FYR Macedonia	MK0	869	37	906	1625	2531	2571	34.3	1.5	35.8	64.2	15.25	1.81	17.05	82.95	34.15	1.50	35.65	64.35	4
NETHERLANDS	173	Groningen	NL11	2																		

Country	RegCod	Region	NUTS	BRD_kHA	CON_kHA	FOR_kHA	OTH_kHA	Land_kHA	Total_kHA	STAT_BRD_pro	STAT_CON_pro	STAT_FOR_pro	STAT_OTH_pro	AVH_BRD_pro	AVH_CON_pro	AVH_FOR_pro	AVH_OTH_pro	CAL_BRD_pro	CAL_CON_pro	CAL_FOR_pro	CAL_OTH_pro	Iterations
RUSSIA - EUROPEAN PART	222	Moscow region + moscow	RU17	991	923	1915	2680	4595	4689	22	20	42	58	10.38	28.37	38.75	61.25	22.00	20.14	42.15	57.85	3
RUSSIA - EUROPEAN PART	223	Orel	RU18	148	43	191	2260	2451	2465	6	2	8	92	5.30	10.38	15.68	84.32	6.02	2.01	8.04	91.96	2
RUSSIA - EUROPEAN PART	224	Ryazan	RU19	561	442	1003	2890	3893	3961	14.4	11.4	25.8	74.2	12.57	18.08	30.66	69.34	14.44	11.46	25.89	74.11	4
RUSSIA - EUROPEAN PART	225	Arkhangelsk	RU2	3871	18216	22086	18385	29774	30613	13	61	74	26	10.47	62.05	72.52	27.48	12.96	61.08	74.04	25.96	2
RUSSIA - EUROPEAN PART	226	Smolensk	RU20	1285	763	2047	2877	4925	4978	26.1	15.5	41.6	58.4	16.44	23.84	40.29	59.71	26.12	15.56	41.68	58.32	3
RUSSIA - EUROPEAN PART	227	Tula	RU21	305	42	347	2198	2545	2568	12	2	14	86	6.99	6.16	13.15	86.85	11.81	2.10	13.92	86.08	1
RUSSIA - EUROPEAN PART	228	Yaroslavl	RU22	977	660	1637	1595	3232	3618	30.24	20.41	50.65	49.35	17.76	29.42	47.18	52.82	30.23	20.47	50.71	49.29	3
RUSSIA - EUROPEAN PART	229	Nizhny Novgorod	RU23	1822	1800	3622	3879	7501	7662	24	58	48	52	18.18	35.38	53.56	46.44	24.01	24.08	48.09	51.91	4
RUSSIA - EUROPEAN PART	230	Kirov	RU24	3375	4181	7556	4362	11918	12037	28	35	63	37	17.55	43.25	60.80	39.20	27.94	35.09	63.04	36.96	3
RUSSIA - EUROPEAN PART	231	Rep. Mariy-El	RU25	640	649	1290	963	2253	2338	28	29	57	43	14.16	42.56	56.73	43.27	28.02	29.09	57.11	42.89	4
RUSSIA - EUROPEAN PART	232	Rep. Mordovia	RU26	475	215	690	1902	2592	2613	18.3	8.3	26.6	73.4	20.58	20.57	41.15	58.85	18.35	8.32	26.68	73.32	4
RUSSIA - EUROPEAN PART	233	Rep. Chuvashia	RU27	388	183	571	1215	1786	1834	22	10	32	68	19.86	22.64	42.50	57.50	22.08	10.03	32.11	67.89	4
RUSSIA - EUROPEAN PART	234	Belgorod	RU28	209	22	231	2458	2689	2713	8	1	9	91	7.33	18.25	25.59	74.41	8.06	1.00	9.06	90.94	2
RUSSIA - EUROPEAN PART	235	Voronezh	RU29	301	131	432	4726	5158	5222	5.83	2.54	8.37	91.63	5.05	13.53	18.58	81.42	5.91	2.60	8.51	91.49	2
RUSSIA - EUROPEAN PART	236	Vologda	RU3	4525	5504	10029	3763	13792	14453	33	40	73	27	17.60	49.59	67.19	32.81	32.95	40.07	73.02	26.98	3
RUSSIA - EUROPEAN PART	237	Kursk	RU30	205	29	234	2729	2963	3000	7	1	8	92	5.87	12.78	18.65	81.35	7.03	1.00	8.03	91.97	2
RUSSIA - EUROPEAN PART	238	Lipetsk	RU31	119	72	191	2186	2377	2405	5	3	8	92	5.01	10.41	15.42	84.58	5.04	3.06	8.10	91.90	2
RUSSIA - EUROPEAN PART	239	Tambov	RU32	185	168	353	3050	3403	3446	5	5	10	90	9.44	14.42	23.86	76.14	5.05	5.04	10.09	89.91	3
RUSSIA - EUROPEAN PART	240	Astrakhan	RU33	80	0	80	4135	4214	4902	2	0.001	2.001	97.999	5.84	4.76	10.59	89.41	2.07	0.00	2.07	97.93	2
RUSSIA - EUROPEAN PART	241	Volgograd	RU34	395	74	470	10329	10798	11288	3.7	0.0	4.4	7.0	2.79	3.60	6.39	93.61	3.74	0.78	4.52	95.48	1
RUSSIA - EUROPEAN PART	242	Samara	RU35	571	101	672	4459	5131	5357	11	2	13	87	7.96	21.59	29.55	70.45	11.07	2.01	13.07	86.93	3
RUSSIA - EUROPEAN PART	243	Penza	RU36	633	290	923	3370	4294	4335	15	7	22	78	14.81	23.00	37.81	62.19	15.07	7.03	22.10	77.90	3
RUSSIA - EUROPEAN PART	244	Saratov	RU37	508	65	573	9014	9586	10124	5	1	6	94	4.74	9.05	13.79	86.21	5.07	1.02	6.09	93.91	2
RUSSIA - EUROPEAN PART	245	Ulyanovsk = Simbirsk	RU38	579	401	981	2509	3489	3718	16.6	11.5	28.1	71.9	13.22	27.99	41.22	58.78	16.64	11.52	28.17	71.83	4
RUSSIA - EUROPEAN PART	246	Rep. Kalmykia	RU39	10	0	10	7282	7292	7473	0.001	0.001	0.002	99.998	1.53	2.26	3.80	96.20	0.00	0.00	0.00	100.00	1
RUSSIA - EUROPEAN PART	247	Nenets Aut. District	RU4	7	183	191	16490	16681	17681	0.001	1	1.001	98.999	2.57	5.29	7.86	92.14	0.00	1.03	1.03	98.97	3
RUSSIA - EUROPEAN PART	248	Rep. Tatarstan	RU40	882	254	1137	5161	6298	6785	14	4	18	82	13.78	16.10	29.88	70.12	14.09	4.02	18.11	81.89	3
RUSSIA - EUROPEAN PART	249	Krasnodar Territory	RU41	1360	92	1452	5709	7160	7549	19	1	20	80	11.32	4.87	16.19	83.81	1.00	1.00	19.86	80.14	4
RUSSIA - EUROPEAN PART	250	Stavropol Territory	RU42	87	4	91	6399	6489	6616	1	0.001	1.001	98.999	4.32	2.54	6.86	93.14	1.13	0.00	1.13	98.87	1
RUSSIA - EUROPEAN PART	251	Rep. of Ingushetia + Rep. Chechen	RU43	388	10	397	1499	1897	1928	20	1	21	79	13.77	6.01	19.78	80.22	1.90	1.00	20.90	79.10	4
RUSSIA - EUROPEAN PART	252	Rostov Region	RU44	157	82	238	9512	9750	10097	1.6	0.8	2.4	97.6	2.84	4.55	7.39	92.61	1.60	2.41	97.59	2	
RUSSIA - EUROPEAN PART	253	Rep. Adygeya	RU45	243	31	274	452	726	779	33.45	4.32	37.77	62.23	17.43	5.67	23.10	75.90	33.27	4.32	37.59	62.41	5
RUSSIA - EUROPEAN PART	254	Rep. Dagestan	RU46	344	80	423	4426	4650	5027	7	2	9	91	6.20	7.43	13.63	86.37	7.05	2.06	9.11	90.89	3
RUSSIA - EUROPEAN PART	255	Rep. Kabardino-Balkaria	RU47	166	9	176	1056	1232	1247	13	1	14	86	6.88	2.42	9.30	90.70	12.84	0.99	13.83	86.17	3
RUSSIA - EUROPEAN PART	256	Rep. Northern Ossetia	RU48	175	8	184	604	787	799	22	1	23	77	3.93	1.44	5.37	94.63	21.82	0.99	22.81	77.19	5
RUSSIA - EUROPEAN PART	257	Rep. Karachayev-Cherkessia	RU49	306	122	428	978	1405	1428	21.768	8.666	30.434	69.566	4.82	1.76	6.58	93.42	21.69	8.63	30.32	69.68	8
RUSSIA - EUROPEAN PART	258	Murmansk	RU5	1358	3895	5253	8047	13300	14490	10	29	39	61	7.25	37.08	44.32	55.68	10.01	29.07	39.09	60.91	5
RUSSIA - EUROPEAN PART	259	Komi-Permyak Aut. Distr.	RU51	767	1879	2646	601	3247	3277	23.6	57.9	81.5	18.5	16.35	55.69	72.05	27.95	23.58	57.87	81.45	18.55	3
RUSSIA - EUROPEAN PART	260	Perm	RU53	3394	5060	8454	3922	12375	12747	27	41	68	32	30.36	32.16	62.52	37.48	27.03	40.88	67.91	32.09	4
RUSSIA - EUROPEAN PART	261	Rep. Bashkortostan	RU56	4192	1269	5461	8686	14147	14295	30	9	39	61	38.21	17.89	54.09	45.91	30.10	9.00	39.10	60.90	4
RUSSIA - EUROPEAN PART	262	Rep. Udmurtia	RU57	919	1005	1924	2228	4153	4206	22	24	46	54	18.55	30.40	48.95	51.05	22.06	24.12	46.18	53.82	3
RUSSIA - EUROPEAN PART	263	Rep. Karelia	RU6	1033	8356	9390	4472	13862	18052	7.45	60.29	67.74	32.26	11.07	60.70	71.76	28.24	7.46	60.32	67.77	32.23	2
RUSSIA - EUROPEAN PART	264	Rep. Komi	RU7	5427	24372	29799	11238	41037	41677	13.2	59.4	72.6	27.4	9.33	53.82	63.15	38.85	13.19	59.25	72.44	27.56	6
RUSSIA - EUROPEAN PART	265	Leningrad + St. Petersburg	RU8	1625	3148	4773	2484	7256	8531	22.4	43.4	65.8	34.2	16.22	51.68	67.90	32.10	22.36	43.53	65.88	34.12	3
RUSSIA - EUROPEAN PART	266	Novgorod	RU9	1996	1492	3488	1790	5278	5450	38	28	66	34	21.54	44.39	65.93	34.07	37.96	28.08	66.03	33.97	3
SWEDEN	267	Sthm	SE011	40	278	318	357	675	676	6	41	47	53	5.20	51.76	56.96	43.04	6.00	41.09	47.09	52.91	4
SWEDEN	268	Upps	SE021	31	368	399	309	708	708	4	52	56	44	9.01	48.24	57.26	42.74	4.00	51.87	55.88	44.12	3
SWEDEN	269	Södm	SE022	35	310	344	252	596	596	6	52	58	42	7.50	47.49	54.99	45.01	6.02	51.82	57.84	42.16	3
SWEDEN	270	Östg	SE023	57	541	598	440	1038	1038	5.5	52.1	57.6	42.4	7.48	52.59	60.07	39.93	5.49	52.23	57.73	42.27	2
SWEDEN	271	Öreb	SE024	38	561	599	243	842	842	4.5	66.7	71.2	28.8	6.58	59.51	66.09	33.91	4.51	66.58	71.10	28.90	4
SWEDEN	272	Vstm	SE025	24	380	403	240	643	643	4	59	63	37	7.32	48.63	55.95	44.05	4.01	58.86	62.87	37.13	5
SWEDEN	273	Jkpg	SE031	45	672	717	282	999	999	5	67	72	28	8.21	67.28	75.49	24.51	5.07	66.97	72.03	27.97	1
SWEDEN	274	Kron	SE032	65	577	642	184	826	826	8	70	78	22	5.81	76.19	82.00	18.00	7.98	70.06	78.04	21.96	2
SWEDEN	275	Kalm	SE033	70	636	706	431	1137	1137	6	56	62	38	7.80	64.92	72.72	27.28	5.99	56.15	62.13	37.87	3
SWEDEN	276	Gotl	SE034	5	121	127	170	297	297	2	41	43	29	9.20	33.29	42.49	57.51	2.00	40.87	42.88	57.12	4
SWEDEN	277	Blek	SE041	49	150	198	85	283	283	17	53	70	30	11.10	59.80	70.89	29.11	16.96	53.12	70.08	29.92	3
SWEDEN	278	Hall	SE051	45	244	289	239	528	528	9	46	55	45	9.39	53.87	63.25	36.75	8.99	46.15	55.14	44.86	4
SWEDEN	279	Gtbg	SE052	28	155	184	284	468	468	6	33	39	61	7.92	52.99	60.91	39.09	5.99	33.08	39.07	60.93	4
SWEDEN	280	Älvs	SE053	61	631	692	397	1089	1089	6	58											

Country	RegCod	Region	NUTS	STATminAVH_BRD_pro	STATminAVH_CON_pro	STATminAVH_FOR_pro	STATminAVH_OTH_pro	STATminCAL_BRD_pro	STATminCAL_CON_pro	STATminCAL_FOR_pro	STATminCAL_OTH_pro	AVHminCAL_BRD_pro	AVHminCAL_CON_pro	AVHminCAL_FOR_pro	AVHminCAL_OTH_pro
Albania	1	Albania	AL0	18.27	3.96	22.23	-22.23	0.09	0.04	0.13	-0.13	-18.18	-3.92	-22.10	22.10
AUSTRIA	2	Burgenland	AT11	5.72	6.22	11.93	-11.93	0.05	0.10	0.15	-0.15	-5.66	-6.12	-11.78	11.78
AUSTRIA	3	Niederösterreich	AT12	-0.44	5.63	5.20	-5.20	0.01	0.12	0.13	-0.13	0.45	-5.52	-5.07	5.07
AUSTRIA	4	Wien	AT13	5.01	-3.01	2.00	-2.00	0.13	0.00	0.13	-0.13	-4.88	3.01	-1.86	1.86
AUSTRIA	5	Kärnten	AT21	-7.14	7.49	0.36	-0.36	-0.02	0.18	0.16	-0.16	7.12	-7.31	-0.19	0.19
AUSTRIA	6	Steiermark	AT22	-7.03	8.28	1.25	-1.25	-0.02	0.14	0.12	-0.12	7.01	-8.14	-1.13	1.13
AUSTRIA	7	Oberösterreich	AT31	-3.06	5.06	2.00	-2.00	0.00	0.17	0.18	-0.18	3.06	-4.88	-1.82	1.82
AUSTRIA	8	Salzburg	AT32	-7.26	2.74	-4.52	4.52	-0.03	-0.03	-0.06	0.06	7.23	-2.77	4.46	-4.46
AUSTRIA	9	Tirol	AT33	-6.10	2.32	-3.77	3.77	-0.01	-0.15	-0.16	0.16	6.08	-2.47	3.61	-3.61
AUSTRIA	10	Vorarlberg	AT34	-9.12	-0.72	-9.84	9.84	0.00	-0.13	-0.13	0.13	9.12	0.59	9.71	-9.71
Bosnia and Herzegovina	11	Bosnia and Herzegovina	BA0	19.81	-8.80	11.01	-11.01	0.06	0.00	0.06	-0.06	-19.75	8.80	-10.95	10.95
BELGIUM	12	Brussels Capital Region	BE1	4.42	-4.80	-0.37	0.37	-0.03	0.00	-0.03	0.03	-4.45	4.79	0.34	-0.34
BELGIUM	13	Flemish Region	BE2	0.41	2.89	3.30	-3.30	0.03	0.15	0.18	-0.18	-0.38	-2.74	-3.12	3.12
BELGIUM	14	Walloon Region	BE3	-0.02	6.92	6.90	-6.90	0.05	0.11	0.16	-0.16	0.08	-6.82	6.74	-6.74
Bulgaria	15	North-West	BG1	6.34	-0.94	5.40	-5.40	0.09	0.01	0.09	-0.09	-6.25	0.95	-5.31	5.31
Bulgaria	16	North	BG2	6.59	-0.09	6.50	-6.50	0.13	0.01	0.14	-0.14	-6.46	0.11	-6.36	6.36
Bulgaria	17	North-East	BG3	11.91	0.21	12.12	-12.12	0.04	0.01	0.05	-0.05	-11.87	-0.20	-12.07	12.07
Bulgaria	18	West	BG4	4.74	4.71	9.45	-9.45	0.07	0.05	0.12	-0.12	-4.67	-4.66	-9.33	9.33
Bulgaria	19	Middle	BG5	6.04	7.12	13.16	-13.16	0.05	0.10	0.15	-0.15	-6.00	-7.01	-13.01	13.01
Bulgaria	20	East	BG6	12.25	1.84	14.10	-14.10	0.14	0.02	0.16	-0.16	-12.12	-1.82	-13.94	13.94
Bulgaria	21	South-West	BG7	9.43	13.24	22.66	-22.66	0.01	0.12	0.13	-0.13	-9.42	-13.11	-22.53	22.53
Bulgaria	22	South	BG8	-2.67	25.36	22.68	-22.68	-0.02	0.13	0.12	-0.12	2.66	-25.22	-22.57	22.57
Bulgaria	23	South-East	BG9	14.69	9.42	24.11	-24.11	0.02	0.05	0.07	-0.07	-14.67	-9.37	-24.04	24.04
Belarus	24	Belarus	BY0	4.33	-0.30	4.03	-4.03	0.01	0.11	0.11	-0.11	-4.32	0.40	-3.92	3.92
SWITZERLAND	25	Jura	CH1	-11.12	13.52	2.40	-2.40	0.05	0.10	0.15	-0.15	11.17	-13.42	-2.25	2.25
SWITZERLAND	26	Mittelland	CH2	-4.61	8.74	4.13	-4.13	0.05	0.12	0.17	-0.17	4.66	-8.62	-3.97	3.97
SWITZERLAND	27	Voralpen	CH3	-17.19	9.38	-7.81	7.81	0.00	0.09	0.09	-0.09	17.19	-9.29	7.90	-7.90
SWITZERLAND	28	Alpen	CH4	-5.61	3.70	-1.91	1.91	0.01	0.12	0.12	-0.12	-5.62	2.03	-3.58	3.58
SWITZERLAND	29	Alpensued	CH5	5.51	-4.63	-0.87	0.87	-0.04	-0.09	-0.05	0.05	4.54	0.93	-0.93	0.93
CZECH REPUBLIC	30	Stredocesky + Praha	CZ1	-2.53	3.05	0.52	-0.52	0.01	0.12	0.13	-0.13	2.53	-0.93	0.39	-0.39
CZECH REPUBLIC	31	Jihocesky	CZ3	-9.54	7.28	-2.26	2.26	0.00	0.12	0.12	-0.12	9.54	-7.15	2.39	-2.39
CZECH REPUBLIC	32	Zapadocesky	CZ4	-9.08	4.33	-4.75	4.75	0.00	0.12	0.12	-0.12	9.08	-4.21	4.87	-4.87
CZECH REPUBLIC	33	Severocesky	CZ5	-4.42	5.41	-0.99	0.99	0.01	-0.12	0.11	-0.11	4.43	-5.30	-0.87	0.87
CZECH REPUBLIC	34	Vychodocesky	CZ6	-5.63	12.78	7.15	-7.15	0.00	0.13	0.13	-0.13	5.63	-12.65	-7.01	7.01
CZECH REPUBLIC	35	Jihomoravsky	CZ7	-0.72	8.82	-8.10	8.10	0.02	0.14	0.17	-0.17	0.74	-8.67	-7.93	7.93
CZECH REPUBLIC	36	Severomoravsky	CZ8	-5.87	9.52	3.65	-3.65	0.01	0.12	0.12	-0.12	5.87	-9.40	-3.53	3.53
GERMANY	37	Baden-Württemberg	DE1	-7.85	9.71	1.86	-1.86	0.02	0.11	0.13	-0.13	7.86	-9.60	-1.74	1.74
GERMANY	38	Bayern	DE2	-4.11	9.30	5.19	-5.19	0.00	0.17	0.17	-0.17	4.12	-9.14	-5.02	5.02
GERMANY	39	Berlin	DE3	7.41	-10.57	-3.16	3.16	-0.02	-0.06	-0.08	0.08	-7.43	10.51	3.08	-3.08
GERMANY	40	Brandenburg	DE4	-0.86	7.81	6.95	-6.95	-0.01	0.18	0.17	-0.17	0.86	-7.64	-6.78	6.78
GERMANY	41	Bremen	DE5	-5.01	-2.44	-7.45	7.45	0.00	0.00	0.00	0.00	5.01	2.44	7.45	-7.45
GERMANY	42	Hamburg	DE6	-5.09	-6.08	-11.17	11.17	0.00	-0.15	-0.15	0.15	5.08	5.94	11.02	-11.02
GERMANY	43	Hessen	DE7	4.35	6.32	10.66	-10.66	0.04	0.13	0.16	-0.16	-4.31	-6.19	-10.50	10.50
GERMANY	44	Mecklenburg-Vorpommern	DE8	2.45	4.49	6.93	-6.93	0.00	0.12	0.12	-0.12	-2.45	-4.37	-6.82	6.82
GERMANY	45	Niedersachsen	DE9	1.33	4.77	6.10	-6.10	0.00	0.13	0.13	-0.13	-1.33	-4.64	-5.96	5.96
GERMANY	46	Nordrhein-Westfalen	DEA	1.98	1.49	3.47	-3.47	0.02	0.09	0.11	-0.11	-1.96	-1.40	-3.36	3.36
GERMANY	47	Rheinland-Pfalz	DEB	-0.11	7.78	7.67	-7.67	0.03	0.07	0.11	-0.11	0.14	-7.70	-7.56	7.56
GERMANY	48	Saarland	DEC	-1.34	4.52	3.18	-3.18	0.05	0.04	0.09	-0.09	1.39	-4.48	-3.09	3.09
GERMANY	49	Sachsen	DED	-2.61	5.98	3.37	-3.37	0.00	0.14	0.15	-0.15	2.61	-5.84	-3.23	3.23
GERMANY	50	Sachsen-Anhalt	DEE	0.24	4.31	4.56	-4.56	0.00	0.14	0.14	-0.14	-0.24	-4.17	-4.41	4.41
GERMANY	51	Schleswig-Holstein	DEF	-1.12	1.16	0.04	-0.04	0.01	0.11	0.12	-0.12	1.13	-1.05	0.08	-0.08
GERMANY	52	Thüringen	DEG	-0.96	5.36	4.40	-4.40	0.01	0.19	0.19	-0.19	0.96	-5.17	-4.21	4.21
DENMARK	53	København og Frederiksberg Kommuner	DK001	-1.85	-6.76	-8.61	8.61	0.00	0.00	0.00	0.00	1.85	6.76	8.61	-8.61
DENMARK	54	Københavns amt	DK002	2.43	-9.11	-6.68	6.68	-0.02	-0.05	-0.07	0.07	-2.45	9.06	6.61	-6.61
DENMARK	55	Frederiksborg amt	DK003	1.36	-4.38	-3.02	3.02	-0.04	-0.14	-0.14	0.14	-1.40	4.23	2.84	-2.84
DENMARK	56	Roskilde amt	DK004	1.44	0.65	2.09	-2.09	0.01	0.03	0.04	-0.04	-1.43	-0.62	-2.05	2.05
DENMARK	57	Vestsjællands amt	DK005	0.71	0.14	0.85	-0.85	0.06	0.06	0.10	-0.10	-0.67	-0.08	-0.75	0.75
DENMARK	58	Storstrøms amt	DK006	2.58	-0.51	2.07	-2.07	0.10	-0.09	0.02	-0.02	-2.48	0.43	-2.05	2.05
DENMARK	59	Bornholms amt	DK007	0.66	-5.02	-4.36	4.36	-0.02	-0.06	-0.08	0.08	4.96	-4.28	-4.28	4.28
DENMARK	60	Fyns amt	DK008	0.54	0.80	1.34	-1.34	0.02	0.14	0.16	-0.16	-0.52	-0.66	-1.18	1.18
DENMARK	61	Sønderjyllands amt	DK009	-2.84	0.95	-1.89	1.89	-0.03	0.18	0.18	-0.18	2.81	-0.76	-2.05	2.05
DENMARK	62	Ribe amt	DK00A	-4.40	6.55	2.15	-2.15	0.00	0.11	0.11	-0.11	4.40	-6.44	-2.04	2.04
DENMARK	63	Vejle amt	DK00B	-1.21	1.79	0.58	-0.58	0.00	0.15	0.15	-0.15	1.21	-1.64	-0.43	0.43
DENMARK	64	Ringkøbing amt	DK00C	-4.48	6.55	2.07	-2.07	0.00	0.14	0.14	-0.14	4.48	-6.41	-1.93	1.93
DENMARK	65	Århus amt	DK00D	-1.24	2.35	1.11	-1.11	0.00	0.11	0.11	-0.11	1.25	-1.00	-1.00	1.00
DENMARK	66	Viborg amt	DK00E	-3.03	5.26	2.23	-2.23	0.00	0.08	0.08	-0.08	3.03	-5.18	-2.15	2.15
DENMARK	67	Nordjyllands amt	DK00F	-3.61	1.41	-2.21	2.21	0.00	0.09	0.09	-0.09	3.61	-1.32	2.30	-2.30
Estonia	68	Estonia	EE0	-2.41	-5.72	-8.12	8.12	0.01	-0.15	-0.13	0.13	2.42	5.57	7.99	-7.99
SPAIN	69	Galicia	ES11	-11.60	8.31	-3.29	3.29	-0.01	0.04	0.03	-0.03	11.59	-8.28	-3.32	3.32
SPAIN	70	Principado de Asturias	ES12	7.46	-6.44	-1.02	1.02	0.04	-0.02	-0.02	0.02	-7.41	6.42	-1.00	1.00
SPAIN	71	Cantabria	ES13	2.73	-6.57	-3.84	3.84	-0.03	-0.05	-0.08	0.08	-2.76	6.51	-3.76	3.76
SPAIN	72	País Vasco	ES21	-0.15	12.52	12.37	-12.37	-0.01	0.05	0.04	-0.04	0.14	-12.46	-12.33	12.33
SPAIN	73	Comunidad Foral de Navarra	ES22	6.22	5.56	11.78	-11.78	0.11	0.19	0.19	-0.19	-6.11	-5.48	-11.59	11.59
SPAIN	74	La Rioja	ES23	3.16	-2.93	-0.23	0.23	0.13	-0.05	-0.08	0.08	-3.03	2.88	-0.15	0.15
SPAIN	75	Aragón	ES24	-3.14	16.25	13.11	-13.11	0.00	0.07	0.07	-0.07	3.14	-13.05	-13.05	13.05
SPAIN	76	Comunidad de Madrid	ES25	-3.39	16.37	12.99	-12.99	0.00	0.16	0.16	-0.16	3.39	-16.22	-12.83	12.83
SPAIN	77	Castilla y León	ES41	-3.84	11.18	7.34	-7.34	0.01	0.17	0.17	-0.17	3.85	-11.02	-7.17	7.17
SPAIN	78	Castilla-la Mancha	ES42	0.43	13.11	13.54	-13.54	0.01	0.14	0.15	-0.15	-0.42	-12.97	-13.39	13.39
SPAIN	79	Extremadura	ES43	8.19	14.26	22.44	-22.44	0.00	0.07	0.07	-0.07	-8.19	-14.18	-22.37	22.37
SPAIN	80	Cataluña	ES51	-2.93	24.82	21.89	-21.89	0.00	0.09	0.09	-0.09	2.93	-24.73	-21.80	21.80
SPAIN	81	Comunidad Valenciana	ES52	-2.60	17.52	14.91	-14.91	0.00	0.07	0.07	-0.07	2.60	-17.44	-14.84	14.84
SPAIN	82	Islas Baleares	ES53	-4.70	17.33	12.64	-12.64	0.00	0.08	0.08	-0.08	4.70	-17.25	-12.56	12.56
SPAIN	83	Andalucía	ES61	7.10	6.67	13.78	-13.78	0.02	0.11	0.13	-0.13	-7.08	-6.56	-13.64	13.64
SPAIN	84	Región de Murcia	ES62	-1.24	20.61	19.37	-19.37	0.00	0.11	0					

Country	RegCod	Region	NUTS	STATminAVH_BRD_pro	STATminAVH_CON_pro	STATminAVH_FOR_pro	STATminAVH_OTH_pro	STATminCAL_BRD_pro	STATminCAL_CON_pro	STATminCAL_FOR_pro	STATminCAL_OTH_pro	AVHminCAL_BRD_pro	AVHminCAL_CON_pro	AVHminCAL_FOR_pro	AVHminCAL_OTH_pro
FRANCE	112	Bretagne	FR52	-3.78	1.86	-1.91	1.91	-0.06	0.02	-0.04	0.04	3.72	-1.85	1.87	-1.87
FRANCE	113	Poitou-Charentes	FR53	5.88	1.88	-7.76	7.76	0.02	0.03	0.04	-0.04	-5.86	-1.85	-1.87	7.71
FRANCE	114	Aquitaine	FR61	3.05	13.21	16.26	-16.26	0.00	0.09	0.08	-0.08	-3.06	-13.12	-16.18	16.18
FRANCE	115	Midi-Pyrenees	FR62	9.94	-1.15	-8.79	8.79	0.09	0.03	0.12	-0.12	-9.85	1.18	-8.67	8.67
FRANCE	116	Limousin	FR63	1.91	3.96	5.87	-5.87	0.05	0.03	0.08	-0.08	-1.86	-3.93	-5.79	5.79
FRANCE	117	Rhone-Alpes	FR71	-0.78	8.03	-7.25	7.25	0.03	0.05	0.08	-0.08	0.81	-7.98	-7.17	7.17
FRANCE	118	Auvergne	FR72	-3.37	7.65	4.28	-4.28	0.07	0.11	0.18	-0.18	3.43	-7.54	-4.10	4.10
FRANCE	119	Lanquedoc-Roussillon	FR81	5.65	3.55	9.20	-9.20	0.04	0.08	0.12	-0.12	-5.62	-3.46	-9.08	9.08
FRANCE	120	Provence-Alpes-Cote d'Azur	FR82	5.82	12.19	18.01	-18.01	0.01	0.09	0.10	-0.10	-5.82	-12.10	-17.92	17.92
FRANCE	121	Corse	FR83	1.39	-8.42	-7.03	7.03	0.11	-0.06	0.05	-0.05	-1.28	8.36	7.08	-7.08
Greece	122	Greece	GR0	5.41	6.44	11.85	-11.85	0.02	0.09	0.11	-0.11	-5.39	-6.35	-11.74	11.74
Croatia	123	Croatia	HR	6.54	-3.30	3.25	-3.25	0.11	0.00	0.11	-0.11	3.30	-6.44	-3.14	3.14
HUNGARY	124	Baranya	HU1	12.23	-1.73	10.50	-10.50	0.14	0.00	0.14	-0.14	-12.09	1.73	-10.36	10.36
HUNGARY	125	Komárom-Eszt.	HU10	12.44	-1.35	11.09	-11.09	0.07	0.00	0.07	-0.07	-12.37	1.36	-11.02	11.02
HUNGARY	126	Nógrád	HU11	12.35	-0.26	12.09	-12.09	0.12	0.01	0.12	-0.12	-12.23	0.26	-11.97	11.97
HUNGARY	127	Pest+Budapest	HU12	10.24	0.38	10.63	-10.63	0.12	0.01	0.13	-0.13	-10.13	-0.37	-10.50	10.50
HUNGARY	128	Somogy	HU13	13.10	-0.22	12.88	-12.88	0.11	0.02	0.12	-0.12	-12.99	0.24	-12.75	12.75
HUNGARY	129	Szabolcs-Sz.-B.	HU14	7.65	-0.99	6.66	-6.66	0.02	0.00	0.02	-0.02	-7.64	0.99	-6.65	6.65
HUNGARY	130	Jász-N.-Szolnok	HU15	0.39	-2.24	-1.85	1.85	-0.02	0.00	-0.02	0.02	-0.41	2.24	1.84	-1.84
HUNGARY	131	Tolna	HU16	5.97	-0.98	4.99	-4.99	0.13	0.05	0.15	-0.15	-5.84	1.00	-4.84	4.84
HUNGARY	132	Vas	HU17	5.07	6.26	11.33	-11.33	0.05	0.07	0.12	-0.12	-5.02	-6.19	-11.21	11.21
HUNGARY	133	Veszprém	HU18	9.30	0.17	9.47	-9.47	0.07	0.01	0.08	-0.08	-9.23	-0.16	-9.39	9.39
HUNGARY	134	Zala	HU19	10.73	1.91	12.64	-12.64	0.13	0.03	0.16	-0.16	-10.60	-1.89	-12.48	12.48
HUNGARY	135	Bács-Kiskun	HU2	4.14	4.33	8.48	-8.48	0.01	0.02	0.03	-0.03	-4.14	-4.31	-8.44	8.44
HUNGARY	136	Lake Ladoga	HU20												
HUNGARY	137	Békés	HU3	-1.62	-2.28	-3.89	3.89	-0.07	0.00	-0.07	0.07	1.55	2.28	3.83	-3.83
HUNGARY	138	Borsod-A.-Z.	HU4	5.83	-0.58	5.25	-5.25	0.10	0.01	0.11	-0.11	-5.73	0.59	-5.14	5.14
HUNGARY	139	Csongrád	HU5	0.20	-0.25	-0.05	0.05	0.00	-0.01	-0.01	0.01	-0.20	0.25	0.04	-0.04
HUNGARY	140	Fejér	HU6	3.10	-0.91	2.19	-2.19	0.08	0.01	0.09	-0.09	-3.02	0.92	-2.10	2.10
HUNGARY	141	Győr-M.-Sopron	HU7	5.83	-0.70	5.13	-5.13	0.15	0.03	0.18	-0.18	-5.68	0.73	-4.95	4.95
HUNGARY	142	Hajdú-Bihar	HU8	2.24	-1.33	0.91	-0.91	0.09	0.00	0.09	-0.09	-2.15	1.33	-0.82	0.82
HUNGARY	143	Heves	HU9	5.62	-1.94	3.68	-3.68	0.13	0.00	0.14	-0.14	-5.49	1.94	-3.55	3.55
IRELAND	144	IRELAND	IE0	-5.10	-5.68	-5.42	5.42	-0.01	-0.09	-0.10	0.10	5.09	-5.32	-5.32	5.32
Iceland	145	Iceland	IS0	-8.08	-15.08	-23.16	23.16	0.00	0.00	0.00	0.00	8.08	15.08	23.16	-23.16
ITALY	146	Piemonte	IT11	3.31	0.98	-4.29	4.29	0.05	0.05	0.10	-0.10	-3.26	-0.93	-4.19	4.19
ITALY	147	Valle d'Aosta	IT12	-2.73	2.57	-0.16	0.16	0.01	0.18	0.19	-0.19	2.74	-2.40	0.35	-0.35
ITALY	148	Liguria	IT13	10.49	3.75	14.24	-14.24	0.07	-0.02	0.05	-0.05	-10.42	-3.77	-14.19	14.19
ITALY	149	Lombardia	IT2	3.17	-0.99	2.18	-2.18	0.17	-0.07	0.10	-0.10	-3.00	0.92	-2.09	2.09
ITALY	150	Prov. Bolzano	IT311	-7.69	1.24	-6.45	6.45	0.00	0.18	-0.18	0.18	7.69	-1.42	-6.27	6.27
ITALY	151	Prov. Trento	IT312	1.67	0.59	2.26	-2.26	0.01	0.12	0.13	-0.13	-1.67	-0.46	-2.13	2.13
ITALY	152	Veneto	IT32	-2.18	-2.36	-4.54	4.54	-0.01	-0.09	-0.11	0.11	2.17	2.26	4.43	-4.43
ITALY	153	Friuli V.G.	IT33	-3.11	-8.21	-11.32	11.32	-0.02	-0.15	-0.17	0.17	3.08	8.07	11.15	-11.15
ITALY	154	Emilio Romagna	IT4	0.06	0.31	-0.36	0.36	0.03	0.02	0.05	-0.05	-0.02	-0.29	-0.31	0.31
ITALY	155	Toscana	IT51	8.92	2.01	10.94	-10.94	0.06	0.00	0.06	-0.06	-8.86	-2.01	-10.88	10.88
ITALY	156	Umbria	IT52	15.93	1.87	17.81	-17.81	0.17	0.02	0.19	-0.19	-15.76	-1.86	-17.62	17.62
ITALY	157	Marche	IT53	6.54	1.67	8.21	-8.21	0.09	0.01	0.10	-0.10	-6.45	-1.66	-8.11	8.11
ITALY	158	Lazio	IT6	4.99	-0.51	4.48	-4.48	0.19	0.00	0.19	-0.19	-4.80	0.51	-4.29	4.29
ITALY	159	Abruzzo	IT71	4.45	0.34	4.79	-4.79	0.09	0.00	0.09	-0.09	-4.36	-0.33	-4.70	4.70
ITALY	160	Molise	IT72	8.22	0.40	8.62	-8.62	0.12	0.00	0.12	-0.12	-8.10	-0.40	-8.50	8.50
ITALY	161	Campania	IT8	5.35	-1.47	3.88	-3.88	0.04	0.00	0.04	-0.04	-5.31	1.47	-3.84	3.84
ITALY	162	Puglia	IT91	-0.27	-0.90	-1.17	1.17	-0.03	-0.04	-0.04	0.04	0.24	0.89	1.13	-1.13
ITALY	163	Basilicata	IT92	7.55	0.25	7.80	-7.80	0.10	0.00	0.10	-0.10	-7.45	-0.25	-7.70	7.70
ITALY	164	Calabria	IT93	4.84	3.61	8.44	-8.44	0.11	0.03	0.13	-0.13	-4.73	-3.58	-8.31	8.31
ITALY	165	Sicilia	ITA	0.43	-2.58	-2.15	2.15	-0.04	-0.10	-0.14	0.14	-0.47	2.49	2.02	-2.02
ITALY	166	Sardegna	ITB	0.88	-4.19	-3.30	3.30	-0.01	-0.02	-0.01	0.02	-0.89	4.18	3.29	-3.29
Liechtenstein	167	Liechtenstein	LI0	2.78	-2.55	0.22	-0.22	0.01	-0.12	-0.11	0.11	-2.77	2.43	-0.33	0.33
Lithuania	168	Lithuania	LT0	2.84	2.81	5.65	-5.65	0.00	0.13	0.13	-0.13	-2.84	-2.68	-5.52	5.52
LUXEMBOURG	169	LUXEMBOURG	LU	-1.11	6.51	5.40	-5.40	0.05	0.02	0.07	-0.07	1.16	-6.50	-5.34	5.34
Latvia	170	Latvia	LV0	-4.08	-1.96	-6.04	6.04	-0.13	0.02	-0.12	0.12	4.08	1.83	5.92	-5.92
Moldova	171	Moldova	MD0	3.24	-2.33	0.91	-0.91	0.20	0.00	0.20	-0.20	-3.05	2.33	0.71	-0.71
FYR Macedonia	172	FYR Macedonia	MK0	19.05	-0.31	18.75	-18.75	0.15	0.00	0.15	-0.15	-18.90	0.31	-18.59	18.59
NETHERLANDS	173	Groningen	NL11	-2.83	-0.34	-3.18	3.18	-0.01	0.00	-0.01	0.01	2.83	0.34	3.17	-3.17
NETHERLANDS	174	Friesland	NL12	-2.17	-0.50	-2.67	2.67	-0.06	-0.08	-0.14	0.14	2.53	0.42	-2.53	2.53
NETHERLANDS	175	Drenthe	NL13	-1.70	3.55	1.85	-1.85	0.02	0.11	0.13	-0.13	1.72	-3.43	-1.72	1.72
NETHERLANDS	176	Overijssel	NL21	-1.07	2.97	-1.90	1.90	0.03	0.19	0.16	-0.16	-1.71	1.10	-2.81	2.81
NETHERLANDS	177	Gelderland	NL22	0.31	5.42	5.74	-5.74	0.01	0.12	0.13	-0.13	-0.31	-5.30	-5.61	5.61
NETHERLANDS	178	Flevoland	NL23	5.31	-1.35	3.96	-3.96	0.03	0.00	0.04	-0.04	-5.28	1.36	-3.92	3.92
NETHERLANDS	179	Utrecht	NL31	-0.16	3.56	3.40	-3.40	0.01	0.05	0.06	-0.06	0.17	-3.51	-3.34	3.34
NETHERLANDS	180	Noor-Holland	NL32	-2.91	-3.55	-6.47	6.47	0.00	0.01	-0.01	0.01	2.91	3.55	6.46	-6.46
NETHERLANDS	181	Zuid-Holland	NL33	-1.91	-1.22	-3.12	3.12	-0.03	0.00	-0.03	0.03	1.88	1.22	3.09	-3.09
NETHERLANDS	182	Zeeland	NL34	-2.02	-0.93	-2.95	2.95	-0.02	0.00	-0.02	0.02	2.01	0.93	2.94	-2.94
NETHERLANDS	183	Noord-Brabant	NL41	-2.60	8.04	5.44	-5.44	0.01	0.10	0.11	-0.11	2.61	-7.94	-5.33	5.33
NETHERLANDS	184	Limburg	NL42	0.01	4.49	4.50	-4.50	0.03	0.17	0.20	-0.20	0.03	-4.32	-4.30	4.30
NORWAY	185	Finnmark	NO1	-6.27	-15.61	-21.88	21.88	0.00	-0.02	-0.02	0.02	6.27	15.59	21.87	-21.87
NORWAY	186	Nordland, Troms	NO2	4.33	-17.42	-13.09	13.09	-0.06	-0.03	-0.09	0.09	-4.39	17.40	13.00	-13.00
NORWAY	187	Sor-Trondelag, Nord-Trondelag	NO3	-9.95	1.40	-8.55	8.55	-0.04	-0.12	-0.16	0.16	9.91	-1.51	8.40	-8.40
NORWAY	188	Ostfold, Akershus/Oslo, Hedmark	NO4	-2.08	14.58	12.50	-12.50	-0.01	0.15	0.14	-0.14	2.07	-14.43	12.37	-12.37
NORWAY	189	Oppland, Buskerud, Vestfold	NO5	0.03	-0.32	-0.29	0.29	0.00	-0.15	-0.15	0.15	-0.02	0.17	-0.14	0.14
NORWAY	190	Telemark, Aust-Agder, Vest-Agder	NO6	2.86	-18.48	-15.61	15.61	0.00	-0.11	-0.11	0.11	-2.86	18.37	15.50	-15.50
NORWAY	191	Rogaland, Hordaland, Sogn og Fjordane, More og Romsdal	NO7	-0.50	-10.80	-11.30	11.30	-0.02	-0.12	-0.14	0.14	0.48	10.68	11.16	-11.16
POLAND	192	Dolnoslaskie	PL1	-0.87	6.14	5.27	-5.27	0.00	0.11	0.11	-0.11	0.87	-6.03	-5.16	5.16
POLAND	193	Podlaskie	PL10	-1.17	7.39	6.22	-6.22	0.00	0.13	0.13	-0.13	1.17	-7.26	-6.09	6.09
POLAND	194	Pomorskie	PL11	-2.17	3.98	1.81	-1.81	0.00	0.10	0.10	-0.10	2.17	-3.87	-1.71	1.71
POLAND	195	Slaskie	PL12	-2.86	3.91	1.04	-1.04								

Country	RegCod	Region	NUTS	STATminAVH_BRD_pro	STATminAVH_CON_pro	STATminAVH_FOR_pro	STATminAVH_OTH_pro	STATminCAL_BRD_pro	STATminCAL_CON_pro	STATminCAL_FOR_pro	STATminCAL_OTH_pro	AVHminCAL_BRD_pro	AVHminCAL_CON_pro	AVHminCAL_FOR_pro	AVHminCAL_OTH_pro
RUSSIA - EUROPEAN PART	222	Moscow region + moscow	RU17	11.62	-8.37	3.25	-3.25	0.00	-0.14	-0.15	0.15	-11.63	8.23	-3.40	3.40
RUSSIA - EUROPEAN PART	223	Orel	RU18	0.70	-8.38	-7.68	7.68	-0.02	-0.01	-0.04	0.04	-0.72	8.37	7.65	-7.65
RUSSIA - EUROPEAN PART	224	Ryazan	RU19	1.83	-6.68	-4.86	4.86	-0.04	-0.06	-0.09	0.09	-1.86	6.63	4.76	-4.76
RUSSIA - EUROPEAN PART	225	Arkhangelsk	RU2	2.53	-1.05	1.48	-1.48	0.04	-0.08	-0.04	0.04	-2.49	0.98	-1.51	1.51
RUSSIA - EUROPEAN PART	226	Smolensk	RU20	9.66	-8.34	1.31	-1.31	-0.02	-0.06	-0.08	0.08	-9.67	8.28	-1.39	1.39
RUSSIA - EUROPEAN PART	227	Tula	RU21	5.01	-4.16	0.85	-0.85	0.19	-0.10	0.08	-0.08	-4.82	4.05	-0.77	0.77
RUSSIA - EUROPEAN PART	228	Yaroslavl	RU22	12.48	-9.01	3.47	-3.47	0.01	-0.06	-0.06	0.06	-12.47	8.94	-3.53	3.53
RUSSIA - EUROPEAN PART	229	Nizhniy Novgorod	RU23	5.82	-11.38	-5.56	5.56	-0.01	-0.08	-0.09	0.09	-5.83	11.30	5.47	-5.47
RUSSIA - EUROPEAN PART	230	Kirov	RU24	10.45	-8.25	2.20	-2.20	0.06	-0.09	-0.04	0.04	-10.40	8.15	-2.24	2.24
RUSSIA - EUROPEAN PART	231	Rep. Mariy-El	RU25	13.84	-13.56	0.27	-0.27	-0.02	-0.09	-0.11	0.11	-13.85	13.47	-0.38	0.38
RUSSIA - EUROPEAN PART	232	Rep. Mordovia	RU26	-2.28	-12.27	-14.55	14.55	-0.05	-0.02	-0.08	0.08	2.22	12.25	14.47	-14.47
RUSSIA - EUROPEAN PART	233	Rep. Chuvashia	RU27	2.14	-12.64	-10.50	10.50	-0.08	-0.03	-0.11	0.11	-2.21	12.60	10.39	-10.39
RUSSIA - EUROPEAN PART	234	Belgorod	RU28	0.67	-17.25	-16.59	16.59	-0.06	0.00	-0.06	0.06	-0.73	17.25	16.52	-16.52
RUSSIA - EUROPEAN PART	235	Voronezh	RU29	0.78	-10.99	-10.21	10.21	-0.08	-0.06	-0.14	0.14	-0.87	10.93	10.07	-10.07
RUSSIA - EUROPEAN PART	236	Vologda	RU3	15.40	-9.59	5.81	-5.81	0.05	-0.07	-0.02	0.02	-15.35	9.52	-5.83	5.83
RUSSIA - EUROPEAN PART	237	Kursk	RU30	1.13	-11.78	-10.65	10.65	-0.03	0.00	-0.03	0.03	-1.16	11.78	10.61	-10.61
RUSSIA - EUROPEAN PART	238	Lipetsk	RU31	-0.01	-7.41	-7.42	7.42	-0.04	-0.06	-0.10	0.10	-0.04	7.35	7.32	-7.32
RUSSIA - EUROPEAN PART	239	Tambov	RU32	-4.44	-9.42	-13.86	13.86	-0.05	-0.04	-0.09	0.09	4.40	9.38	13.78	-13.78
RUSSIA - EUROPEAN PART	240	Astrakhan	RU33	-3.84	-4.76	-8.59	8.59	-0.07	0.00	-0.07	0.07	3.77	4.76	8.53	-8.53
RUSSIA - EUROPEAN PART	241	Volgograd	RU34	0.91	-2.90	-1.99	1.99	-0.04	-0.08	-0.12	0.12	-2.82	2.82	1.87	-1.87
RUSSIA - EUROPEAN PART	242	Samara	RU35	3.04	-19.59	-16.55	16.55	-0.07	-0.01	-0.07	0.07	-3.11	19.59	16.48	-16.48
RUSSIA - EUROPEAN PART	243	Penza	RU36	0.19	-16.00	-15.81	15.81	-0.07	-0.03	-0.10	0.10	-0.26	15.97	15.71	-15.71
RUSSIA - EUROPEAN PART	244	Saratov	RU37	0.26	-8.05	-7.79	7.79	-0.07	-0.02	-0.09	0.09	-0.33	8.03	7.70	-7.70
RUSSIA - EUROPEAN PART	245	Ulyanovsk = Simbirsk	RU38	3.38	-16.49	-13.12	13.12	-0.04	-0.02	-0.07	0.07	-3.42	16.47	13.05	-13.05
RUSSIA - EUROPEAN PART	246	Rep. Kalmykia	RU39	-1.53	-2.26	-3.80	3.80	0.00	0.00	0.00	0.00	1.53	2.26	3.79	-3.79
RUSSIA - EUROPEAN PART	247	Nenetz Aut. District	RU4	-2.57	-4.29	-6.86	6.86	0.00	-0.03	-0.03	0.03	2.57	4.26	6.83	-6.83
RUSSIA - EUROPEAN PART	248	Rep. Tatarstan	RU40	0.22	-12.10	-11.88	11.88	-0.09	-0.02	-0.11	0.11	-0.31	12.07	11.77	-11.77
RUSSIA - EUROPEAN PART	249	Krasnodar Territory	RU41	7.68	-3.87	3.81	-3.81	0.14	0.00	0.14	-0.14	-7.54	3.87	-3.67	3.67
RUSSIA - EUROPEAN PART	250	Stavropol Territory	RU42	-3.32	-2.54	-5.86	5.86	-0.13	0.00	-0.13	0.13	3.19	2.54	5.73	-5.73
RUSSIA - EUROPEAN PART	251	Rep. of Ingushetia + Rep. Chechen	RU43	6.23	-5.01	1.22	-1.22	0.10	0.00	-0.10	-0.10	-6.13	5.01	-1.12	1.12
RUSSIA - EUROPEAN PART	252	Rostov Region	RU44	-1.24	-3.75	-4.99	4.99	0.00	-0.01	-0.01	0.01	1.23	3.74	4.98	-4.98
RUSSIA - EUROPEAN PART	253	Rep. Adygeya	RU45	18.02	-1.35	14.67	-14.67	0.18	0.00	0.18	-0.18	-15.84	1.35	-14.49	14.49
RUSSIA - EUROPEAN PART	254	Rep. Dagestan	RU46	0.80	-5.43	-4.63	4.63	-0.05	-0.11	-0.05	0.11	-0.85	5.37	-4.52	4.52
RUSSIA - EUROPEAN PART	255	Rep. Kabardino-Balkaria	RU47	6.12	-1.42	4.70	-4.70	0.16	0.01	0.17	-0.17	-5.96	1.42	4.53	-4.53
RUSSIA - EUROPEAN PART	256	Rep. Northern Ossetia	RU48	18.07	-0.44	17.63	-17.63	0.18	0.19	0.01	-0.19	-17.89	0.45	-17.44	17.44
RUSSIA - EUROPEAN PART	257	Rep. Karachayev-Cherkessia	RU49	16.95	6.90	23.86	-23.86	0.08	0.04	0.12	-0.12	-16.87	-6.87	-23.74	23.74
RUSSIA - EUROPEAN PART	258	Murmansk	RU5	2.75	-8.08	-5.32	5.32	-0.01	-0.07	-0.09	0.09	-2.77	8.01	5.24	-5.24
RUSSIA - EUROPEAN PART	259	Komi-Permyak Aut. Distr.	RU51	7.25	2.21	9.45	-9.45	0.02	0.03	0.05	-0.05	-7.23	-2.18	-9.41	9.41
RUSSIA - EUROPEAN PART	260	Perm	RU53	-3.36	8.84	5.48	-5.48	-0.03	0.12	0.09	-0.09	3.34	-8.72	-5.38	5.38
RUSSIA - EUROPEAN PART	261	Rep. Bashkortostan	RU56	-6.21	-8.89	-15.09	15.09	-0.10	0.00	-0.10	0.10	6.10	8.89	14.99	-14.99
RUSSIA - EUROPEAN PART	262	Rep. Udmurtia	RU57	3.45	-6.40	-2.95	2.95	-0.06	-0.12	-0.18	0.18	-3.51	6.28	2.77	-2.77
RUSSIA - EUROPEAN PART	263	Rep. Karelia	RU6	-3.62	-0.41	-4.02	4.02	-0.01	-0.03	-0.03	0.03	3.61	0.38	3.99	-3.99
RUSSIA - EUROPEAN PART	264	Rep. Komi	RU7	3.87	5.58	9.45	-9.45	0.01	0.15	0.15	-0.16	-3.86	-5.42	-9.29	9.29
RUSSIA - EUROPEAN PART	265	Leningrad + St. Petersburg	RU8	6.18	-8.28	-2.10	2.10	0.04	-0.13	-0.08	0.08	-6.13	8.15	2.02	-2.02
RUSSIA - EUROPEAN PART	266	Novgorod	RU9	16.46	-16.39	0.07	-0.07	0.04	-0.03	-0.03	0.03	-16.42	16.31	-0.11	0.11
SWEDEN	267	Sthm	SE011	0.80	-10.76	-9.96	9.96	0.00	-0.09	-0.09	0.09	-0.80	10.67	9.87	-9.87
SWEDEN	268	Upps	SE021	-5.01	3.76	-1.26	1.26	0.00	0.13	0.12	-0.12	5.01	-3.63	-1.38	1.38
SWEDEN	269	Södm	SE022	-1.50	4.51	3.01	-3.01	-0.02	0.18	0.16	-0.16	1.48	-4.33	-2.85	2.85
SWEDEN	270	Östg	SE023	-1.98	-0.49	-2.47	2.47	0.01	-0.13	-0.13	0.13	1.98	0.35	2.34	-2.34
SWEDEN	271	Öreb	SE024	-2.08	7.19	5.11	-5.11	-0.01	0.12	0.10	-0.10	2.06	-7.07	-5.01	5.01
SWEDEN	272	Vstm	SE025	-3.32	10.37	7.05	-7.05	-0.01	0.14	0.13	-0.13	3.31	-10.23	-6.92	6.92
SWEDEN	273	Jkpg	SE031	-3.21	-0.28	-3.49	3.49	-0.07	0.03	-0.03	0.03	3.14	0.32	3.46	-3.46
SWEDEN	274	Kron	SE032	2.19	-6.19	-4.00	4.00	0.02	-0.06	-0.04	0.04	-2.17	6.12	3.96	-3.96
SWEDEN	275	Kalm	SE033	-1.80	-8.92	-10.72	10.72	0.01	-0.15	-0.13	0.13	1.81	8.78	10.59	-10.59
SWEDEN	276	Gotl	SE034	-7.20	7.71	0.51	-0.51	0.13	0.13	0.12	-0.12	7.20	-7.59	-0.39	0.39
SWEDEN	277	Blek	SE041	5.90	-6.80	-0.89	0.89	0.04	-0.12	-0.08	0.08	-5.86	6.67	0.81	-0.81
SWEDEN	278	Hall	SE051	-0.39	-7.87	-8.25	8.25	0.01	-0.14	-0.14	0.14	0.40	7.71	8.11	-8.11
SWEDEN	279	Gtbg	SE052	-1.92	-19.99	-21.91	21.91	0.01	-0.08	-0.07	0.07	1.92	19.91	21.84	-21.84
SWEDEN	280	Älvs	SE053	-2.22	-3.51	-5.73	5.73	0.01	-0.09	-0.08	0.08	2.23	3.42	5.66	-5.66
SWEDEN	281	Skgb	SE054	-4.20	9.63	5.42	-5.42	-0.01	0.18	0.16	-0.16	4.19	-9.45	-5.26	5.26
SWEDEN	282	Vrml	SE061	-2.64	7.32	4.69	-4.69	-0.01	0.08	0.07	-0.07	2.62	-7.24	-4.61	4.61
SWEDEN	283	Dalarna = Kopp	SE062	-4.01	9.08	5.08	-5.08	-0.01	0.18	0.17	-0.17	4.00	-8.90	-4.91	4.91
SWEDEN	284	Gävl	SE063	-2.36	2.84	0.48	-0.48	-0.01	0.05	0.04	-0.04	2.35	-2.79	-0.44	0.44
SWEDEN	285	Vnr	SE071	-3.34	2.02	-1.32	1.32	0.00	0.02	0.02	-0.02	3.33	-1.99	1.34	-1.34
SWEDEN	286	Jmtl	SE072	-8.36	2.68	-5.68	5.68	-0.01	0.03	0.02	-0.02	8.35	-2.65	5.70	-5.70
SWEDEN	287	Vbt	SE081	-5.62	-4.99	-10.61	10.61	0.01	-0.17	-0.17	0.17	5.63	4.82	10.45	-10.45
SWEDEN	288	Nbt	SE082	-5.52	-10.88	-16.40	16.40	0.00	-0.14	-0.14	0.14	5.52	10.74	16.26	-16.26
SWEDEN	289	Skån	SE44	-0.11	-2.33	-2.45	2.45	-0.01	-0.12	-0.13	0.13	0.10	2.22	2.32	-2.32
Slovenia	290	Slovenia	SI0	0.80	3.70	4.50	-4.50	0.10	0.09	0.10	-0.09	-0.81	-3.60	-4.41	4.41
Slovakia	291	Slovakia	SK0	2.09	5.99	8.07	-8.07	0.04	0.07	0.11	-0.11	-2.04	-5.92	-7.96	7.96
Ukraine	292	Ukraine	UA0	1.54	-4.16	-2.62	2.62	-0.01	-0.06	-0.07	0.07	-1.55	4.10	2.55	-2.55
UNITED KINGDOM	293	North	UK1	-4.88	2.51	-2.37	2.37	0.00	0.06	0.06	-0.06	4.88	-2.45	2.43	-2.43
UNITED KINGDOM	294	Yorkshire and Humberside	UK2	-3.45	-1.09	-4.54	4.54	-0.02	-0.09	-0.07	0.09	3.43	-4.45	-4.45	4.45
UNITED KINGDOM	295	East Midlands	UK3	-2.74	0.32	-2.42	2.42	-0.05	0.00	-0.05	0.05	2.69	-0.32	2.37	-2.37
UNITED KINGDOM	296	East Anglia	UK4	-1.79	2.19	0.41	-0.41	0.01	0.09	0.09	-0.09	1.79	-2.11	-0.32	0.32
UNITED KINGDOM	297	South East	UK5	1.50	0.92	2.42	-2.42	0.02	0.03	0.05	-0.05	-1.48	-0.89	-2.37	2.37
UNITED KINGDOM	298	South West	UK6	-0.27	1.46	1.19	-1.19	0.02	0.03	0.05	-0.05	-1.43	-0.89	-1.14	1.14
UNITED KINGDOM	299	West Midlands	UK7	-1.29	0.50	-0.79	0.79	-0.04	0.02	-0.02	0.02	1.25	-0.49	0.77	-0.77
UNITED KINGDOM	300	North West	UK8	-3.87	-2.60	-6.48	6.48	-0.02	-0.04	-0.04	0.04	3.85	2.59	6.44	-6.44
UNITED KINGDOM	301	Wales	UK9	-5.66	3.92	-1.74	1.74	-0.02	0.04	0.02	-0.02	5.63	-3.88	-1.76	1.76
UNITED KINGDOM	302	Scotland	UKA	-8.01	1.44	-6.57	6.57	-0.01	-0.11	-0.13	0.13	8.00	-1.55	6.44	-6.

Legend	Explanation	Unit	Notes
Country	country name	1000 ha	
RegCod	region code for analysis purposes	1000 ha	
Region	region name	1000 ha	
NUTS	NUTS code or region code assigned by map-ii project	1000 ha	
BRD_kHA	broadleaf forest from forest inventory statistics	1000 ha	
CON_kHA	coniferous forest from forest inventory statistics	1000 ha	
FOR_kHA	total forest from forest inventory statistics	1000 ha	FOR_kHA = BRD_kHA + CON_kHA
OTH_kHA	other land excluding inland water from area statistics	1000 ha	
Land_kHA	total land area excluding inland water from area statistics	1000 ha	Land_kHA = FOR_kHA + OTH_kHA
Total_kHA	total land area including inland water from area statistics	1000 ha	
STAT_BRD_pro	broadleaf forest from forest inventory statistics	%	
STAT_CON_pro	coniferous forest from forest inventory statistics	%	
STAT_FOR_pro	total forest from forest inventory statistics	%	STAT_FOR_pro = STAT_BRD_pro + STAT_CON_pro
STAT_OTH_pro	other land excluding inland water from area statistics	%	STAT_OTH_pro = 100 - STAT_FOR_pro
AVH_BRD_pro	broadleaf forest calculated from the AVHRR CORINE classified grid	%	
AVH_CON_pro	coniferous forest calculated from the AVHRR CORINE classified grid	%	
AVH_FOR_pro	total forest calculated from the AVHRR CORINE classified grid	%	AVH_FOR_pro = AVH_BRD_pro + AVH_CON_pro
AVH_OTH_pro	other land excluding inland water calculated from the AVHRR CORINE classified grid	%	AVH_OTH_pro = 100 - AVH_FOR_pro
CAL_BRD_pro	broadleaf forest calculated from the calibrated grid	%	
CAL_CON_pro	coniferous forest calculated from the calibrated grid	%	
CAL_FOR_pro	total forest calculated from the calibrated grid	%	CAL_FOR_pro = CAL_BRD_pro + CAL_CON_pro
CAL_OTH_pro	other land excluding inland water calculated from the calibrated grid	%	CAL_OTH_pro = 100 - CAL_FOR_pro
Iterations	number of iterations needed for the calibration	%	
STATminAVH_BRD_pro	difference between STAT_BRD_pro and AVH_BRD_pro	%	
STATminAVH_CON_pro	difference between STAT_CON_pro and AVH_CON_pro	%	
STATminAVH_FOR_pro	difference between STAT_FOR_pro and AVH_FOR_pro	%	
STATminAVH_OTH_pro	difference between STAT_OTH_pro and AVH_OTH_pro	%	
STATminCAL_BRD_pro	difference between STAT_BRD_pro and CAL_BRD_pro	%	
STATminCAL_CON_pro	difference between STAT_CON_pro and CAL_CON_pro	%	
STATminCAL_FOR_pro	difference between STAT_FOR_pro and CAL_FOR_pro	%	
STATminCAL_OTH_pro	difference between STAT_OTH_pro and CAL_OTH_pro	%	
AVHminCAL_BRD_pro	difference between AVH_BRD_pro and CAL_BRD_pro	%	
AVHminCAL_CON_pro	difference between AVH_CON_pro and CAL_CON_pro	%	
AVHminCAL_FOR_pro	difference between AVH_FOR_pro and CAL_FOR_pro	%	
AVHminCAL_OTH_pro	difference between AVH_OTH_pro and CAL_OTH_pro	%	

NOTE TO ALL DATASHEETS:

The input data are shown to the digit as used in the *.sta files.

The data for a region are shown to a number of decimals after the comma which allow the sum to add up to 100% exactly.

Due to rounding, the data for the area (1000 ha) of the "broadleaf", "coniferous" and "other" category may not exactly add up to the "total" figure.

Annex 5: Questionnaire replies

country	organization	Data	Calibration	Timberline	Special comments
Austria	Waldwachstumsforschung der Universität für Bodenkultur, Vienna	Yes, the data of the national forest inventory are the most recent and most precise ones.	In all three maps the "Neusiedlersee" is indicated as a forest, it is a rather large (in Austrian measures) lake. The flood plain forests along the Danube, east and west of Vienna are nearly pure broadleaf forests, there are no conifers. And the same is true for Stuttgart.	More detailed information than only Tranquillini: - Körner, C. 1999. Alpine plant life. Springer, Berlin. - Ozenda, P. 1988. Die Vegetation der Alpen im Europäischen Gebirgsraum. Fischer, Stuttgart	A map for the points where any forest is present, giving the percentage of coniferous forests and broadleaf forests summing up to 100 % would be valuable. FUSAGX would appreciate a map with another scale (map is too small) and with some references, like main cities, rivers. Color with higher contrast could improve the map reading.
Belgium	Faculté Universitaire des Sciences Agronomiques, Gestion et Economie Forestières	The data source used is most reliable, but updated data will soon be available: "La forêt wallonne: état de la ressource à la fin du 20ème siècle", DGRNE-DNEF - Cellule Inventaire permanent des Ressources forestières de Wallonie (Ir. H. Leconte) - supervision made by Prof. Rondeux' team - Prof. Rondeux can send us a copy. (Avenue Maréchal Juin, 23; B5030 Gembloux) FUSAGEF's figures for the forest area in Wallonia are: - BRL-kHA: 250.3 (285.4 in MAP II stats) - CON-kHA: 227.5 (259.4 in MAP II stats) - Non productive forest: 67.0 > fire stops, ponds, etc. - FOR-kHA: 544.8 (544.8 in MAP II stats)	The most eastern part of Walloon forest should have: - a higher proportion of coniferous forest - a lower proportion of broadleaf forest		
Czech Republic	Forestry Faculty, Czech University of Agriculture, Praha	Czech republic has new official administrative regions that are different from the ones used in the maps. Newest data are provided from a "Green Report" on Czech forests (2000). This report indicates total coniferous forest to be 1 975 065 ha (2 002 999 ha in MAP II statistics - 1998 data) and total broadleaved forest to be 576 808 ha (565 942 ha in MAP II statistics - 1998 data).			
Germany		By my opinion the statistical data for Germany (question 1) are the most recent ones at the national level. But there exists a lot of very detailed information in form of tables and maps for each of the 16 states (called "Region" in the table) of the Federal Republic of Germany. An exact verification of the maps should be possible by its using. But may be, its to expensive.	By my opinion the shown forest intensity (total and coniferous) for the Ore Mountains, particular the central and the Eastern part at the border between Saxony (Sachsen) and Severocesky regions is too low. It seems to be because there are big areas of deforestation by SO-2 immissions in the past. But today this areas are reforested.	The timberline plays a secondary role in Germany. It occurs only in the Alps in a narrow band at the national border to Austria. It is available in forest maps of Bavaria.	
Germany	Forstliche Versuchs und Forschungsanstalt Baden-Württemberg	At the moment, the data of the Bundeswaldinventur 1986-1990 (as used in MAP II) is the best source for German forestry data. Presently, Germany is conducting its second national forest inventory. By the end of the year 2002, all data will be assessed, and first results will be available by the end of the year 2003/beginning of 2004. Besides the EFISCEN data for the newly formed German federal states, there is also an official source that could be used: "Der Wald in den neuen Bundesländern. Eine Auswertung vorhandener Daten nach dem Muster der Bundeswaldinventur. Bundesministerium für Ernährung, Landwirtschaft und Forsten, 1994. 20p. (data supplied in attachment to questionnaire reply - These data are for total forest area very close if not the same -in most cases- as the data used for the calibration. The data for species classes however have lower numbers for total forest and the division into broadleaf and coniferous forest is of similar proportion, but the absolute figures are different.)	The intensity of forest seems to be o.k.. Depending on the up-to-dateness of the underlying data, there might be necessary some reduction of forest intensity in those areas where heavy storms occurred during the recent years (e.g. storm "Lothar"). (more data provided on this issue for Baden-Württemberg) A real assessment of the quality of the maps could be done by grouping the digital data to forest cover that is available in the regions/countries.	Timberline is not relevant for most of Germany. Only in the most Southern part of Bavaria in the Alps there are some areas lying above the timberline.	
Italy	Universita' degli studi di Palermo, Dipartimento di Colture Arboree	According to the latest available survey (2002), data seem generally underestimated, and totally lacking for other wooded lands (Formazioni particolari in IFN, 1985). Examples for forest+OWL, in current results: Liguria 393 (323 in MAP II statistics), Prov. Trento 479 (321), Veneto 414 (286), Lazio 621 (387), Abruzzo 399 (248 in MAP II statistics). Prof. Marchetti's comment here is invalid as our statistics do not include OWL! But the division between coniferous and deciduous forest is good according to the proportion in the forest class.	In principle it is correct and good. Some evident mistakes are in the Po Valley (probably misclassification of rice fields), southern Latium (too much forest in the plains), and northern Sicily (where there are some conifer plantations).	The indication for peninsular Italy is rough and probably underestimated. In general the timberline is upraising, especially where grazing is decreasing. Some further data: - Province of Trento (Piusi, 1986): - minimum 1710 m a.s.l. - maximum 2370 m a.s.l. - average 2038 m a.s.l. - W Mount Etna, Sicily (N 37°45'04"; E 15°04'41") (Poli, 2002): - maximum 2200 m a.s.l. - average 2000 m a.s.l.	In 2002 some new data have been issued by the Ministry of Agriculture and Forestry (a sample survey on photoplots) and Ministry of Environment (a Land Cover Map 1:250 000 with a fourth level in the nomenclature - corine based - for forest and owl).
Lithuania	GIS laboratory, Institute of Environment, Lithuanian University of Agriculture	- Lithuanian forestry statistics are updated annually, but they are available inside country only. The most current source of information is Lithuanian statistical yearbook of forestry (http://www.mec.lt/2001/eng). The data source used in the MAP II is not the newest one (total forest: 1 978 000 ha). The total forest area (Forest_kHa) indicated for 2002 is 2 034 000 ha. - Forest definition used in Lithuanian statistics differs slightly from the one, used and provided for FAO statistics. Anyway, we calculated, that now there are 1 161 000 ha of coniferous stands (1 136 000 ha in MAP II statistics) and 777 000 ha of deciduous stands (842 000 ha in MAP II statistics), which makes correspondingly 18,53% and 12,40% from the total area excluding inland water. All official tree species related statistics in Lithuania actually are based on prevailing tree species in the stand.	Proportion of forest should be higher on the southern part of the country (area 1 on the figure). Young pine stands, not too dense, on sandy soils cover 50% and more of the territory of some administrative units there. The same problem can be pointed to when observing the proportion of coniferous trees in the southern part of the country. Proportion of coniferous trees seems to be too low on the area 2. This territory is dominated by deciduous stands, usually containing some coniferous in tree species composition, which may be under crowns of deciduous trees? Area 3 - I am surprised to observe some concentration of coniferous trees along larger rivers on our map, but it looks a little bit different than shown on Your map. Deciduous trees seem to be missing on the area 4. This is an island of very diverse forests inside coniferous forests, where deciduous are available in significant amounts. Area 5 (central part of the country) is known as deciduous dominated territory, maybe the differences in data origin influences such impression, that two images are looking differently. General opinion is that the maps look acceptable, especially bearing in mind		

Annex 5: Questionnaire replies

country	organization	Data	Calibration	Timberline	Special comments
Slovakia		The forest management institute indicates an area of 1167 ha broadleaf forest (1224 ha used for mapstats) and an area of 849 ha coniferous forest (792 ha used for mapstats).	Forest is overestimated in the south-western part and in the north-eastern parts of the country.		
Switzerland	Section Landscape Inventories - National Forest Inventory - Swiss Federal Research Institute WSL	The division between coniferous and deciduous forest seems quite correct.	<p>a) In my opinion the «total forests» are correctly located on the map and intensity is appropriate.</p> <p>b) Maybe in western Jura there should be a little bit more coniferous forest and on the other hand on shady slopes of Leventina (Alpensued) the map indicates a bit too much coniferous forests. And in eastern Mittelland is an area showing too much broadleaved forests. Pure broadleaved forests, which can be found in eastern Jura and in Ticino (Alpensued) over quite large areas, seem not be identified and pictured such prominent as pure coniferous forests e.g. in the Alps.</p> <p>c) Overall the results can be published without or with small revisions.</p> <p>d) Further evaluation can be made from map Nr. 11 from Bachofen, H., Brändli, U.-B., Brassel, P., Kasper, H., Lüscher, P., Mahrer, F., Riegger, W.,</p>	<p>* Oldest reference is Prof. Heinrich Brockmann-Jerosch (1879-1939), University of Zurich: "Meereshöhen der Baumgrenze in der Schweiz" (1928).</p> <p>* Braendli 2002: oral communication:</p> <ul style="list-style-type: none"> - Southern Alps: 1850 - 2050 m - Central Alps: 2100 - 2300 (2400) - highest NFI plots with trees are on 2450 and 2517 m - tree signatures on Swiss maps 1:25'000: max e.g. 2345, 2385 or 2445 m - Leibundgut (1984): stands up to 2200, trees up to 2300, cripple trees up to 2400 m. - Rikli (1909) mentions treelines for Pinus cembra in Engadin and Valais on 2300 m with a maximum of 2585 m near Saas Fee (Plattje) <p>- Read paper of Dr. Paulsen and Prof. Koerner, 2001.</p>	
Switzerland	Swiss Federal Institute of Technology Zurich, Dept. of Forest Sciences, Mountain Forest Ecology	Data source used is the most reliable one.	Maps of good quality!	<p>The data used for the timberline refer to "typical" current timberline elevation at these sites, hardly possible to extrapolate to larger areas. It is advisory to use higher values to mask only the very unlikely outliers.</p> <p>Körner and Paulsen work on treeline elevation in Swizerland. They have recently published a paper in Oecologia:</p> <ul style="list-style-type: none"> - Christian Körner. 1998. A re-assessment of high elevation treeline positions and their explanation. Oecologia, Volume 115 Issue 4, pp 445-459. > in Joensuu library in J5 koerner@ubaclu.unibas.ch - Paulsen J, Weber UM, Körner C (2000) Tree growth near treeline: abrupt or gradual reduction with altitude? Arctic Antarct Alp Res 32:14-20 	