Tree cover on agricultural land in the Asia-Pacific region

Robert J Zomer, Ingrid Öborn and Jianchu Xu

**World
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Abstract

The study provides a geospatial analysis of tree cover on agricultural land within the Asia-Pacific region. It gives statistics at the national and provincial levels for the year 2010, and change since the year 2000, as well as a spatial mapping of tree cover and change. For the Asia-Pacific region, the average percent tree cover on agricultural land was 15% in 2000 and 16.3 % in 2010. In India and China, having the largest areas of agricultural land in the region followed by Indonesia, it was 7.8 and 12.8%, respectively, while in Indonesia it was 43.1%. The regional variation broadly follows climatic zones, with high tree cover in the more humid regions, such as Southeast Asia and the Pacific, and less tree cover in drier areas in South Asia and western China. Tree cover on agricultural land has decreased 1.2–2.2% during one decade (2000–2010) in Cambodia, Lao PDR, Japan and Myanmar. The highest increase in tree cover (3.2–5.7%) was observed in Timor-Leste, Bangladesh, Bhutan, Indonesia, Malaysia, Vanuatu, New Zealand and Fiji. In India, China, Papua New Guinea, Philippines and Thailand, tree cover increased 1.0–2.4% from 2000 to 2010. More than 44% of the 6.7 million km² of agricultural land within the region had more than 10% tree cover in 2010, comprising nearly 2.7 million km². This is a 4.3% larger area than in 2000. Over 24% of agricultural land has greater than 20% tree cover and 16% of the area has more than 30% tree cover. This highlights the important roles of tree cover on agricultural land across the region. The least areas of tree cover were found in Afghanistan, Pakistan and Mongolia, with only 1–8% of agricultural land having greater than 10% tree cover in 2010. The highest proportion of agricultural land with tree cover, of 10–20%, was found in Bangladesh (60%) followed by Sri Lanka (31%) and Vietnam, China, Nepal, Thailand and DPR Korea (24–28%). In New Zealand, 34% of the agricultural area had 20–30% tree cover and 22–27% in Fiji, Nepal, Sri Lanka, Timor-Leste and The Philippines. Tree cover greater than 30% was found in more than half of the area of agricultural land in ten countries; Vanuatu, Bhutan, Malaysia, Papua New Guinea, Lao PDR, Indonesia, Japan, Fiji and Timor-Leste. Recognizing the extension of trees on farms and in agricultural landscapes is crucial as environmental and climatic change in the Asia Pacific region is rapidly accelerating. The role of trees for rural livelihoods, sustainability and resilience of agricultural landscapes, and for climate-change mitigation, has brought the need for agroforestry practices and supporting policies and institutions to the forefront of sustainable development. The report shows that efforts during the last decades have had some success but that there is large potential for increasing tree cover within many of the countries of the region.

Keywords

Tree cover, Asia-Pacific, agriculture, land

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Photo 1. Mixed tree system, Vientiane, Lao PDR. Photo: World Agroforestry/Robert Finlayson

Introduction

Trees outside forests comprise tree formations ranging from single, discrete trees to systematically managed trees in agroforestry systems. Within agricultural systems and landscapes, they serve a number of ecological and economic functions which may be similar to those of forests in principle although different in extent. TOF have been little recognized in natural resources assessments, particularly for large areas, and it is only recently that this topic has emerged as a significant research issue. Zomer et al (2009) first attempted to quantify the global extent and geographical patterns of agroforestry, using tree cover on agricultural land, based upon then recently released remote sensing datasets. Zomer et al (2014) updated and reanalyzed the analysis of global extent and socio-ecological characteristics, based upon improved higher quality data at 250 m resolution. In addition, Zomer et al (2014) was able to provide a decadal trend analysis, that is, identifying change in tree cover from 2000 to 2010.

The goal and purpose of this study were to provide regional and national-level analyses of tree cover on agricultural land (using Zomer et al 2014) for the Asia-Pacific region. The study is a contribution to the Food and Agriculture Organization of the United Nation's (FAO) *Asia-Pacific Forestry Outlook Study*.

The scope of this analysis includes both regional- and national-level analyses. Thirty-four countries were initially analyzed, however, only 27 are included in the national-level analysis owing to data constraints and/or lack of a significant amount of agricultural area.

Regional analysis

- 1) A geospatial analysis of tree cover in the years 2000 and 2010 and change from 2000, was tabulated for the region.
- 2) Geospatial mapping of distribution of tree cover on agricultural land in 2010 and change since 2000.

National analysis

- 1) Tree cover in 2010 and change from 2000 was tabulated for each country by sub-national (for example, provincial) administrative units (GADM – 2018 - Level 1) and provided in summary tables
- 2) A set of national-level maps, showing sub-national administrative boundaries, have been produced for each country, showing tree cover in 2010, and change since 2000.
- 3) An appendix is provided as supplementary material:
 - a. A set of national-level tables for each country
 - b. A set of high-resolution maps for each country showing tree cover and change

Background

The inclusion of trees within farming systems, which can also be interpreted as agroforestry, is and has been a traditional land use developed by subsistence farmers throughout almost all of the regions of the world. This is particularly true for the Asia-Pacific.

Over the last 40 years, agroforestry has become a subject for systematic study and improvement. It is a livelihoods' option often mentioned and increasingly promoted by land-use managers and international development agencies. More recently, agroforestry has come to the attention of global

analysts and national policy makers concerned with environmental sustainability, and both climate-change adaptation and mitigation.

However, trees on agricultural land, similar to ‘trees outside of forests’ in general, have traditionally been neglected by national and global forest surveys and, similarly, are difficult to discern and measure. Tree cover on agricultural land, while playing important roles both biophysically and economically, is generally not adequately reflected within many national programs. This includes countries where it may play a very important economic role, especially at the household level.

Similar to the ‘trees outside forests’ concept, as defined by the Food and Agriculture Organization of the United Nations (FAO) (de Foresta et al 2013), an increased understanding and better estimates for the extent and role of trees on agricultural land can provide the knowledge base for improved policies and enhanced policy support.

Zomer et al (2009, 2014, 2016) was a first attempt to quantify the extent of agroforestry at the global level (Figure 1). Several surprising results were reported, not the least of which was the unexpectedly high level of the extent of agroforestry. Approximately 43% of all agricultural land had at least 10% tree cover. Notably, this corresponds with several definitions of ‘forest’, including as one parameter for the current FAO definition. Among the key results of looking at trees on agricultural land were that agroforestry is a significant feature of agriculture in all regions of the world; that its extent varies significantly across different regions; that tree cover is strongly positively related to humidity; and that there are mixed relationships between tree cover and population density, depending on the region.

The countries of the Asia-Pacific region included in this study span a wide geographic expanse, an extremely diverse range of bioclimatic, environmental, bio-physical and climatic conditions, and are extremely culturally diverse. Each has some history or tradition of indigenous agroforestry as well as development programs or projects promoting adoption of agroforestry practices.

However, the Asia-Pacific has undergone, and is under-going, rapid socio-economic, environmental and landscape change, and this is reflected in the change in tree cover on agricultural land. Tree cover generally decreases with increased intensification, however, much agricultural land in the region is also being converted to tree plantations or being reforested.

In this study, we provide an analysis of tree cover at the national level for countries within the Asia-Pacific region, which both give statistics at the national and provincial levels for the year 2010, and change since the year 2000, as well as a spatial mapping of tree cover and change. Details of the data sources and methodology are given in the Methods section and further described in Zomer et al (2009, 2014).

Figure 1. Tree cover on agricultural land, globally, 2000 and 2010

Methods

The global geospatial analysis in Zomer et al (2014, 2016) combined tree cover with a land-use classification to identify agricultural land.

In this current analysis, we have used the results from that analysis to delineate and tabulate tree cover within national and sub-national (provincial) boundaries of 26 countries within the Asia-Pacific region.

The spatial modelling procedure was developed and implemented in ArcGIS Pro 2.2 (ESRI Inc.) using the Python programming language. The datasets used for the analyses were re-projected into the Sphere Sinusoidal coordinate system (ESRI: 53008). This projection maintains equal area despite conformal distortion, allowing for accurate measurement of areal extent. The sinusoidal projection has been used to calculate zonal statistics and carry out areal computations as it represents area extent accurately across latitudes (that is, equal-area projection). The cell size for analyses in sinusoidal projection is 1 km².

The tree-cover dataset produced in the Zomer et al (2014) analysis was based upon an analysis of MODIS 250 m resolution remote-sensing data produced by the University of Maryland, with a global land-cover database produced by the United States Geological Survey:

- MOD44B MODIS Vegetation Continuous Field Coll. 5–2000 through to 2010: Percent Tree Cover (Di Miceli et al 2011)
- Global Land Cover 2000 Database (GLC 2000)

Land-cover categories

Three agricultural land-use types from the Global Land Cover Class scheme used for the Global Land Cover 2000 database were selected as relevant for the specific objectives of this work: Cultivated and managed areas (Agriculture – intensive), Cropland/Other natural vegetation (non-trees) (Mosaic agriculture/degraded vegetation) and Cropland/Tree Cover Mosaic (agriculture/degraded forest).

The mix of tree cover over agricultural land is depicted along a continuous gradient by the MODIS VCF tree-cover dataset, within the relevant GLC2000 land-cover type. Tree cover shows the percentage of the 1 km² grid cell occupied by trees, therefore, at this resolution of 1000 m, the tree-cover percentage can be expressed as hectares (ha) of tree cover per km². At 100% tree cover, the whole grid cell is occupied, that is, 100 ha/km².

Tree-cover data

The MOD44B MODIS/Terra Vegetation Continuous Fields Dataset (VCF) – Collection 5 dataset used in the Zomer et al (2014) analysis provides data at a relatively high resolution of 250 metre for the entire globe. The 250-metre resolution grid cells were aggregated to 1 km resolution. Datasets from 2000–2002 and 2008–2010 were averaged to reduce inter-annual variability and are herein referred to as the year 2000 and 2010, respectively. All the geo-datasets were masked to exclude areas which are either non-agricultural land-use types or urban areas.

For the Pacific, there was no available tree-cover data for the countries of Kiribati, Maldives, Samoa, Tonga and Tuvalu, where tree-data pixels were lacking. Samoa was unfortunately missing in the original global study (Zomer et al 2009, 2014) and could not be added at this stage. The other countries, all of which are small island states, have very little agricultural land (or at least agricultural

land that would be seen in the remote-sensing analysis) and were not included in the agricultural land database we used in the analysis.

Average Tree Cover Percent

Tree cover within the analysis is provided as the percent of a 1 km² grid cell of agricultural land covered by trees, ranging 0–86% for the Asia-Pacific region. As a rough estimate of the relative tree cover between regions, countries and sub-national units, the percent tree cover of all agricultural land has been averaged.

For the Asia-Pacific region as a whole (Figure 2), which has nearly 6.7 million km² of agricultural land, the average percent tree cover was nearly 15% in the year 2000, and more than 16.3 % in 2010 (Table 1). By comparison, the global average was 13.7% in 2000, increasing to 14.4 by 2010 (Figure 2). As in the global analysis, the regional variation broadly follows climatic zones, with high tree cover in the more humid regions, such as Southeast Asia and the Pacific, while drier regions in South Asia and western China have markedly less tree cover.

Photo 2. Researcher Dede Rohadi of the Center for International Forestry Research holds fruit of the jengkol tree, *Archidendron pauciflorum*, intercropped with oil palm, *Elaeis guineensis*, in Pontianak, Indonesia. Photo: World Agroforestry/Center for International Forestry Research/Robert Finlayson

Table 1. Percent tree cover on agricultural land in the Asia-Pacific region in the years 2000 and 2010, averaged by country, and the decadal change in percent tree cover

Country	Agricultural area (km ²)	Mean tree cover percent by country (%)		
		2000	2010	Change
Afghanistan	118,964	0.45	0.58	0.13
Australia	597,873	4.61	5.29	0.68
Bangladesh	101,441	12.16	15.77	3.61
Bhutan	6,485	48.32	51.95	3.63
Cambodia	55,811	15.35	14.21	-1.15
China	1,691,755	11.36	12.84	1.48
Fiji	2,786	34.67	40.42	5.74
India	1,640,132	6.84	7.82	0.98
Indonesia	621,833	39.19	43.09	3.89
Japan	48,010	43.76	42.07	-1.70
Laos	45,963	46.17	43.93	-2.24
Malaysia	106,780	46.76	51.37	4.61
Mongolia	244,556	4.37	4.28	-0.09
Myanmar	192,963	19.86	17.67	-2.19
Nepal	49,339	18.60	18.74	0.14
New Zealand	76,758	23.91	29.54	5.64
North Korea	22,660	14.17	14.16	-0.01
Pakistan	273,250	3.92	4.62	0.70
Papua New Guinea	103,070	49.85	52.29	2.44
Philippines	188,841	33.79	35.58	1.80
South Korea	30,833	28.20	28.64	0.44
Sri Lanka	29,041	26.94	27.95	1.01
Thailand	275,151	15.86	17.31	1.45
Timor-Leste	6,411	30.49	33.66	3.17
Vanuatu	3,984	63.99	69.38	5.39
Vietnam	150,934	24.92	25.19	0.27
Asia Pacific	6,685,624	14.98	16.31	1.33

Photo 3. Early stage of a 50-ha agroforestry landscape in Yen Bai Province, Viet Nam. Photo: World Agroforestry/Yudi Nofiandi

Photo 4. Re-agroforested landscape in Mindanao, The Philippines. Photo: World Agroforestry/Robert Finlayson

Figure 2. Percent tree cover on agricultural land in 2010 in the Asia-Pacific region (top), and the change in percent tree cover on agricultural land from the year 2000 to 2010 (bottom)

Papua New Guinea, with over 100,000 km² of agricultural land, had the highest mean tree-cover percent among countries in the region: over 50%. However, China and India have the largest total amount of agricultural land in the region, each with more than 1.6 million km², with China having an average of about 13% tree cover on agricultural land in 2010 and India less than 8%. Indonesia, with more than 620,000 km² of agricultural land, had a high average tree cover of nearly 44 %, which increased by 3.9% over the decade since the year 2000. Vanuatu, with nearly 70% tree cover on agricultural land, but a relatively small amount of such land, had the highest tree cover in the region, reflecting the important role of local trees and traditional Pacific Islands agroforestry practices.

As in the global analysis, humidity was found to have a major influence on tree cover. In general, more arid countries have lower tree cover, both in natural systems and managed agricultural systems, although much land in these countries may be irrigated. For example, Afghanistan has the lowest tree cover in the region with a bare 0.6% on 119,000 km² of agricultural land. Likewise, Pakistan has less than 5% on over 273,000 km², while Mongolia, a grassland country not known for its tree cover, has just under 4.6%. By comparison, Australia, with nearly 600,000 km² of agricultural land, had a similar 4.6% in the year 2000, which increased 0.7% over the decade to 5.3% in 2010.

Figure 3. Percent tree cover on agricultural land in the Asia-Pacific region in the years 2000 and 2010, averaged by country

Overall, the Asia-Pacific region increased average percent tree cover by over 1.3 % (Figure 3). Lao PDR and Myanmar showed the largest decrease in average percent tree cover, each with more than a 2% decrease, while Japan had a decrease of 1.7% and Cambodia just over 1.1%. At least 13 countries in the region increased their average percent tree cover on agricultural land by more than 1%, with eight of those countries increasing tree cover by more than 3%. New Zealand, with over 76,000 km² of agricultural land, increased average tree cover on that land by a remarkable 5.6% over the decade.

Malaysia, with over 106,000 km², increased it by 4.6%, while Bangladesh with 101,000 km² increased average tree cover by 3.6%. In terms of number of trees planted, China's increase of nearly 1.5% on 1.6 million km² represents a significant achievement, although its interpretation in terms of agroforestry is ambiguous, as much of this might be agricultural land being restored to native forest

under the Grain for Green and similar initiatives. However, many of these lands have also been converted to fruit and nut orchards and other tree-farming practices.

Areal Extent of Tree Cover

More than 44% of the 6.7 million km² of agricultural land within the Asia-Pacific region has more than 10% tree cover (Figure 4), comprising nearly 2.7 million km². This reflects an increase in areal extent of 4.3% for land with more than 10% tree cover from 2000 to 2010, accounting for about 290,000 km². Likewise, over 24% has greater than 20%, and more than 16% has greater than 30%, highlighting the important role of tree cover on agricultural land across the region (figures 5 and 6).

Figure 4. Tree cover on agricultural land in 2010 in the Asia-Pacific region, showing cumulative area in km², and cumulative area as a percent of total agricultural area for the region

China had the greatest amount of agricultural land with more than 10% tree cover, almost 770,000 km², comprising a full 45% of all the country's agricultural land and reflecting an increase of over 5% in the period 2000–2010. Indonesia had over 608,000 km² of agricultural land with more than 10% tree cover, comprising an astonishing 98% of total agricultural land. Other countries with a large proportion of all agricultural land having at least 10% tree cover include Vanuatu (100%), Fiji (100%), Papua New Guinea (99%), Malaysia (99%), Philippines (98%), Japan (97%), Bhutan (96%), Timor-Leste (94%), New Zealand (94%), Sri Lanka (92%) and Lao PDR (91%) (Figure 5).

In all, there are 16 countries above the global average of 43%. Thailand was approximately near that mean in the year 2000 but increased over the decade by 9% so that now more than half of all agricultural land has more than 10% tree cover.

Cambodia, Myanmar and DPR Korea all have close to the global mean, however, Myanmar showed a slight decreasing trend over the decade whereas Cambodia showed a slight increasing trend. DPR Korea increased the amount of land with at least 10% tree cover by over 2.2%.

Country	Year 2000				Year 2010				Change (2000 to 2010)			
	Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Afghanistan	118,100	590	221	54	118,017	648	219	81	-83	58	-2	27
Australia	540,287	41,343	10,528	5,719	522,112	51,278	14,241	10,246	-18,175	9,935	3,713	4,527
Bangladesh	53,495	37,367	5,845	4,734	22,143	60,816	14,268	4,214	-31,352	23,449	8,423	-520
Bhutan	281	435	637	5,132	254	282	460	5,489	-27	-153	-177	357
Brunei	0	6	28	280	0	2	16	296	0	-4	-12	16
Cambodia	32,077	7,919	5,340	10,475	31,835	10,660	5,621	7,695	-242	2,741	281	-2,780
China	1,010,187	409,591	168,639	103,351	922,648	435,706	172,506	160,907	-87,539	26,115	3,867	57,556
Fiji	94	811	595	1,286	1	385	762	1,638	-93	-426	167	352
India	1,366,304	198,310	36,075	39,455	1,278,266	281,367	42,847	37,664	-88,039	83,058	6,772	-1,791
Indonesia	29,507	95,160	101,253	395,918	13,724	86,255	90,800	431,059	-15,783	-8,905	-10,453	35,141
Japan	1,284	8,406	7,044	31,276	1,574	8,152	6,935	31,349	290	-254	-109	73
Laos	4,699	2,483	2,730	36,051	4,303	3,131	4,220	34,309	-396	648	1,490	-1,742
Malaysia	1,338	7,546	11,849	86,048	1,216	6,556	9,096	89,913	-122	-990	-2,753	3,865
Mongolia	230,256	12,421	1,643	238	225,556	14,411	3,622	969	-4,700	1,990	1,979	731
Myanmar	111,070	16,104	10,767	55,023	112,069	21,570	12,092	47,233	999	5,466	1,325	-7,790
Nepal	16,945	13,614	10,264	8,516	16,679	12,831	12,066	7,763	-266	-783	1,802	-753
New Zealand	11,570	22,676	22,243	20,269	4,754	13,661	25,886	32,457	-6,816	-9,015	3,643	12,188
North Korea	13,878	4,573	1,593	2,616	13,373	5,215	1,440	2,632	-505	642	-153	16
Pakistan	258,717	11,177	2,667	691	255,570	12,573	3,766	1,343	-3,147	1,396	1,099	652
Papua New Guinea	829	9,318	12,474	80,450	699	7,484	11,319	83,569	-130	-1,834	-1,155	3,119
Philippines	7,148	41,771	44,258	95,665	4,655	39,200	40,563	104,424	-2,493	-2,571	-3,695	8,759
Singapore	1	1	0	5	2	0	0	5	1	-1	0	0
Solomon Islands	0	3	18	363	0	0	18	366	0	-3	0	3
South Korea	5,967	6,294	5,407	13,165	6,237	6,068	5,012	13,516	270	-226	-395	351
Sri Lanka	5,074	8,047	5,182	10,738	2,505	9,001	6,769	10,766	-2,569	954	1,587	28
Thailand	156,944	46,020	19,838	52,350	132,182	64,781	23,882	54,307	-24,762	18,761	4,044	1,957
Timor-Leste	696	1,459	1,259	2,997	427	1,099	1,394	3,491	-269	-360	135	494
Vanuatu	0	8	23	3,953	0	0	5	3,979	0	-8	-18	26
Vietnam	35,770	44,347	23,807	47,010	34,230	42,350	26,480	47,874	-1,540	-1,997	2,673	864
Asia Pacific	4,012,520	1,047,802	512,229	1,113,829	3,725,031	1,195,485	536,307	1,229,556	-287,488	147,683	24,078	115,727

Figure 5. The areal extent of tree-cover classes (10–20 %; 20–30%; >30%) on agricultural land in the Asia-Pacific region in the years 2000 and 2010, averaged by country (km²)

Bangladesh was already above the mean in 2000, with over 47% of all agricultural land with greater than 19% tree cover, but then increased that amount by an astonishing 31% during the decade, to over 78%.

By comparison, India has about 21.1% of its 1.6 million km² of agricultural land having at least 10% tree cover but showed an increase of almost 5.4% from 2000 to 2010. Nevertheless, this still represents nearly 370,000 km² of agricultural land.

Likewise, Australia had just 12.7% of agricultural land with at least 10% tree cover, which represented an increase of just over 3% from 2000. Mongolia, with 7.8% in 2010, had increased by 1.9% from 2000, while Pakistan increased agricultural area with at least 10% tree cover from 5.3% in 2000 to 6.5% in 2010.

Figure 6. The relative areal extent of tree-cover classes (10–20%; 20–30%; >30%) on agricultural land in the Asia-Pacific region in the years 2000 and 2010, averaged by country, shown as a percent of the total agricultural land within that country (%)

Afghanistan had the least area of agricultural land with tree cover of at least 10%, with less than 1% in 2000, just barely increasing by 0.1% by 2010.

Bangladesh and Malaysia had the greatest area of land with tree cover of at least 30%. Each had over 84%, while Papua New Guinea also had over 80%. However, Vanuatu had the highest proportion, with nearly 99% of all of its agricultural area supporting at least 30% tree cover. Afghanistan, Pakistan and Mongolia each had less than 1% in this category.

These patterns are more fully illustrated in the regional maps below (Figures 7–10) and in the national maps and tables (articulated at the sub-national, provincial level) provided in the Country maps section.

Photo 5. Farmers planning agroforestry in DPR Korea. Photo: World Agroforestry

Photo 6. Silvopastoral agroforestry practices with trees and livestock. Timor, Kupang, Indonesia. Photo: World Agroforestry/Ingrid Öborn

Regional maps

Figure 7. East Asia: Percent tree cover on agricultural land in the year 2010, and the change in percent tree cover on agricultural land from the year 2000 to 2010

Figure 8. Indo-Pacific: Percent tree cover on agricultural land in the year 2010, and the change in percent tree cover on agricultural land from the year 2000 to 2010

Figure 9. Southeast Asia: Percent tree cover on agricultural land in the year 2010, and the change in percent tree cover on agricultural land from the year 2000 to 2010

Figure 10. South Asia: Percent tree cover on agricultural land in the year 2010, and the change in percent tree cover on agricultural land from the year 2000 to 2010

Concluding remarks

For the Asia-Pacific region as a whole, more than 44% of all agricultural land has at least 10% or more tree cover. The areal extent of agricultural land with greater than 10% tree cover increased over the decade from 2000 to 2010 by 4.3%. Almost 18.4% of all agricultural land has at least 30% tree cover, representing 1.3 million km² across the region.

Tree cover was found to be a significant component of agricultural land-use systems in most of the countries in the region, with the most arid, that is, Afghanistan, Pakistan, and Mongolia, having the least tree cover.

As shown, tree cover is a common feature on agricultural land throughout the Asia-Pacific region. It is therefore essential that this is recognized by all involved in agricultural production, planning and policy development.

Recognizing this existing important role of trees on farms and within agricultural landscapes, and by extension in agricultural systems, is ever more crucial as environmental and climatic change in the region is rapidly accelerating.

The role of trees for rural livelihoods, sustainability and resilience of agricultural systems, and for climate mitigation has brought agroforestry practices to the forefront of global sustainable development efforts.

The Asia Pacific region has a rich and diverse variety of historical and traditional agroforestry practices, as well as tree-planting programs that have been working with farmers and national agencies in some of the countries of the region for many decades.

The results of this report show that these efforts have had some success but that there is large potential for increasing tree cover within many of the countries of the region, which are below both regional and national averages.

Earlier research has shown that large-scale, tree-cover patterns cannot be fully explained by aridity, population density or bioclimatic region. This points towards the importance of other factors, such as tenure, markets, or other policies and institutional arrangements in affecting incentives for tree planting and management, as well as the historical trajectory that has led to the current pattern. Further investigations at finer national and sub-national scales are likely to prove even more illuminating in terms of understanding and evaluating the role and potential of trees in agricultural landscapes.

Limitations

This report is based upon remote-sensing data of tree cover and land cover, described as best available at the time. The characteristics, assumptions and limitations of the data layers and methods condition all the results. Zomer et al (2009) give an extensive overview of the limitations of both these data layers and our interpretation.

Photo 7. A paddy-based agroforestry system in Sri Lanka. Photo: World Agroforestry/DKNG Pushpakumara

Photo 8. Tree in field integrated agroforestry system with animal husbandry, Nepal. Photo: World Agroforestry

Photo 9. Poplar-wheat intercrop systems on irrigated farmland are found extensively across the northern parts of Haryana and Uttar Pradesh States, India. Photo: World Agroforestry/Robert Zomer

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Appendix 1: Afghanistan

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Afghanistan		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)												
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)				
		($\%$)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	
Badakhshan	1,913	1.03	1.29	0.26	1,913	0	0	0	1,913	0	0	0	0	0	0	0	0
Badghis	9,209	0.04	0.05	0.01	9,209	0	0	0	9,209	0	0	0	0	0	0	0	0
Baghlan	5,289	0.38	0.53	0.15	5,289	0	0	0	5,289	0	0	0	0	0	0	0	0
Balkh	7,145	0.19	0.26	0.07	7,145	0	0	0	7,143	2	0	0	-2	2	0	0	0
Bamyan	227	0.19	0.29	0.10	227	0	0	0	227	0	0	0	0	0	0	0	0
Daykundi	2,646	0.11	0.17	0.06	2,646	0	0	0	2,646	0	0	0	0	0	0	0	0
Farah	7,810	0.02	0.04	0.01	7,810	0	0	0	7,810	0	0	0	0	0	0	0	0
Faryab	8,032	0.04	0.05	0.00	8,032	0	0	0	8,032	0	0	0	0	0	0	0	0
Ghazni	2,465	0.05	0.14	0.09	2,465	0	0	0	2,463	2	0	0	-2	2	0	0	0
Ghor	3,965	0.02	0.05	0.04	3,965	0	0	0	3,965	0	0	0	0	0	0	0	0
Hilmand	6,471	0.24	0.31	0.07	6,471	0	0	0	6,471	0	0	0	0	0	0	0	0
Hirat	13,929	0.07	0.14	0.07	13,929	0	0	0	13,929	0	0	0	0	0	0	0	0
Jawzjan	3,342	0.11	0.18	0.07	3,342	0	0	0	3,337	5	0	0	-5	5	0	0	0
Kabul	1,239	0.38	0.67	0.29	1,236	1	2	0	1,236	3	0	0	0	2	-2	0	0
Kandahar	5,168	0.05	0.14	0.08	5,168	0	0	0	5,168	0	0	0	0	0	0	0	0
Kapisa	805	1.16	1.64	0.48	802	2	1	0	802	3	0	0	0	1	-1	0	0
Khost	1,524	2.03	2.81	0.78	1,476	42	5	1	1,487	34	3	0	11	-8	-2	-1	0
Kunar	1,430	6.78	8.46	1.67	1,115	216	85	14	1,052	257	90	31	-63	41	5	17	0
Kunduz	3,321	1.44	1.80	0.36	3,302	19	0	0	3,310	11	0	0	8	-8	0	0	0
Laghman	1,506	2.72	3.15	0.42	1,394	80	24	8	1,391	79	25	11	-3	-1	1	3	0
Logar	347	0.44	0.65	0.21	347	0	0	0	347	0	0	0	0	0	0	0	0
Nangarhar	3,271	1.61	2.34	0.73	3,177	59	31	4	3,152	84	28	7	-25	25	-3	3	0
Nimroz	1,017	0.03	0.43	0.41	1,017	0	0	0	1,017	0	0	0	0	0	0	0	0
Nuristan	496	11.22	11.74	0.52	285	115	69	27	282	111	71	32	-3	-4	2	5	0
Paktika	1,656	0.25	0.33	0.08	1,645	11	0	0	1,648	8	0	0	3	-3	0	0	0
Paktya	1,093	2.19	2.59	0.40	1,054	35	4	0	1,056	35	2	0	2	0	-2	0	0
Panjshir	308	1.00	1.28	0.28	308	0	0	0	308	0	0	0	0	0	0	0	0
Parwan	910	1.35	1.89	0.54	910	0	0	0	908	2	0	0	-2	2	0	0	0
Samangan	3,426	0.04	0.04	0.00	3,426	0	0	0	3,426	0	0	0	0	0	0	0	0
Sari Pul	4,604	0.11	0.09	-0.02	4,604	0	0	0	4,604	0	0	0	0	0	0	0	0
Takhar	4,901	0.71	0.82	0.11	4,891	10	0	0	4,889	12	0	0	-2	2	0	0	0
Uruzgan	5,479	0.10	0.15	0.05	5,479	0	0	0	5,479	0	0	0	0	0	0	0	0
Wardak	537	0.21	0.39	0.18	537	0	0	0	537	0	0	0	0	0	0	0	0
Zabul	3,483	0.02	0.05	0.03	3,483	0	0	0	3,483	0	0	0	0	0	0	0	0
Afghanistan - All	118,964	0.45	0.58	0.13	118,100	590	221	54	118,017	648	219	81	-83	58	-2	27	0

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Afghanistan		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agcricultural Area (%)				Percent of Total Agcricultural Area (%)				Percent of Total Agcricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Badakhshan	1,913	1.03	1.29	0.26	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Badghis	9,209	0.04	0.05	0.01	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Baghlan	5,289	0.38	0.53	0.15	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Balkh	7,145	0.19	0.26	0.07	100.00	0.00	0.00	0.00	99.97	0.03	0.00	0.00	-0.03	0.03	0.00	0.00
Bamyan	227	0.19	0.29	0.10	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daykundi	2,646	0.11	0.17	0.06	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Farah	7,810	0.02	0.04	0.01	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Faryab	8,032	0.04	0.05	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ghazni	2,465	0.05	0.14	0.09	100.00	0.00	0.00	0.00	99.92	0.08	0.00	0.00	-0.08	0.08	0.00	0.00
Ghor	3,965	0.02	0.05	0.04	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hilmand	6,471	0.24	0.31	0.07	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hirat	13,929	0.07	0.14	0.07	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jawzjan	3,342	0.11	0.18	0.07	100.00	0.00	0.00	0.00	99.85	0.15	0.00	0.00	-0.15	0.15	0.00	0.00
Kabul	1,239	0.38	0.67	0.29	99.76	0.08	0.16	0.00	99.76	0.24	0.00	0.00	0.00	0.16	-0.16	0.00
Kandahar	5,168	0.05	0.14	0.08	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kapisa	805	1.16	1.64	0.48	99.63	0.25	0.12	0.00	99.63	0.37	0.00	0.00	0.00	0.12	-0.12	0.00
Khost	1,524	2.03	2.81	0.78	96.85	2.76	0.33	0.07	97.57	2.23	0.20	0.00	0.72	-0.52	-0.13	-0.07
Kunar	1,430	6.78	8.46	1.67	77.97	15.11	5.94	0.98	73.57	17.97	6.29	2.17	-4.41	2.87	0.35	1.19
Kunduz	3,321	1.44	1.80	0.36	99.43	0.57	0.00	0.00	99.67	0.33	0.00	0.00	0.24	-0.24	0.00	0.00
Laghman	1,506	2.72	3.15	0.42	92.56	5.31	1.59	0.53	92.36	5.25	1.66	0.73	-0.20	-0.07	0.07	0.20
Logar	347	0.44	0.65	0.21	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nangarhar	3,271	1.61	2.34	0.73	97.13	1.80	0.95	0.12	96.36	2.57	0.86	0.21	-0.76	0.76	-0.09	0.09
Nimroz	1,017	0.03	0.43	0.41	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuristan	496	11.22	11.74	0.52	57.46	23.19	13.91	5.44	56.86	22.38	14.31	6.45	-0.60	-0.81	0.40	1.01
Paktika	1,656	0.25	0.33	0.08	99.34	0.66	0.00	0.00	99.52	0.48	0.00	0.00	0.18	-0.18	0.00	0.00
Paktya	1,093	2.19	2.59	0.40	96.43	3.20	0.37	0.00	96.62	3.20	0.18	0.00	0.18	0.00	-0.18	0.00
Panjshir	308	1.00	1.28	0.28	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parwan	910	1.35	1.89	0.54	100.00	0.00	0.00	0.00	99.78	0.22	0.00	0.00	-0.22	0.22	0.00	0.00
Samangan	3,426	0.04	0.04	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sari Pul	4,604	0.11	0.09	-0.02	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takhar	4,901	0.71	0.82	0.11	99.80	0.20	0.00	0.00	99.76	0.24	0.00	0.00	-0.04	0.04	0.00	0.00
Unuzgan	5,479	0.10	0.15	0.05	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wardak	537	0.21	0.39	0.18	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zabul	3,483	0.02	0.05	0.03	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Afghanistan - All	118,964	0.45	0.58	0.13	99.27	0.50	0.19	0.05	99.20	0.54	0.18	0.07	-0.07	0.05	0.00	0.02

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Afghanistan

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Afghanistan

Source Data: Zomer et al., 2014

Appendix 2: Australia

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Australia		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
State	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Australian Capital Territory	61	5.80	7.13	1.33	56	4	1	0	56	4	1	0	0	0	0	0
New South Wales	185,128	3.79	4.55	0.77	178,554	5,568	723	284	169,044	14,135	1,427	523	-9,510	8,567	704	239
Northern Territory	29,548	3.55	1.70	-1.85	29,506	41	1	0	29,548	0	0	0	42	-41	-1	0
Queensland	22,223	2.51	3.25	0.74	22,009	105	41	68	22,025	93	45	60	16	-12	4	-8
South Australia	99,836	4.49	5.18	0.69	90,618	7,559	1,201	459	88,090	8,524	2,213	1,010	-2,528	965	1,012	551
Tasmania	4,742	18.42	21.69	3.28	1,169	2,174	636	763	619	2,031	996	1,096	-550	-143	360	333
Victoria	108,917	8.32	9.92	1.60	78,966	19,464	6,634	3,854	73,608	20,554	7,891	6,865	-5,358	1,090	1,257	3,011
Western Australia	147,418	3.05	3.37	0.31	139,409	6,428	1,291	291	139,122	5,937	1,668	692	-287	-491	377	401
Australia - All	597,873	4.61	5.29	0.68	540,287	41,343	10,528	5,719	522,112	51,278	14,241	10,246	-18,175	9,935	3,713	4,527

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Australia		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
State	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Australian Capital Territory	61	5.80	7.13	1.33	91.80	6.56	1.64	0.00	91.80	6.56	1.64	0.00	0.00	0.00	0.00	0.00
New South Wales	185,128	3.79	4.55	0.77	96.45	3.01	0.39	0.15	91.31	7.64	0.77	0.28	-5.14	4.63	0.38	0.13
Northern Territory	29,548	3.55	1.70	-1.85	99.86	0.14	0.00	0.00	100.00	0.00	0.00	0.00	0.14	-0.14	0.00	0.00
Queensland	22,223	2.51	3.25	0.74	99.04	0.47	0.18	0.31	99.11	0.42	0.20	0.27	0.07	-0.05	0.02	-0.04
South Australia	99,836	4.49	5.18	0.69	90.77	7.57	1.20	0.46	88.23	8.54	2.22	1.01	-2.53	0.97	1.01	0.55
Tasmania	4,742	18.42	21.69	3.28	24.65	45.85	13.41	16.09	13.05	42.83	21.00	23.11	-11.60	-3.02	7.59	7.02
Victoria	108,917	8.32	9.92	1.60	72.50	17.87	6.09	3.54	67.58	18.87	7.25	6.30	-4.92	1.00	1.15	2.76
Western Australia	147,418	3.05	3.37	0.31	94.57	4.36	0.88	0.20	94.37	4.03	1.13	0.47	-0.19	-0.33	0.26	0.27
Australia - All	597,873	4.61	5.29	0.68	90.37	6.92	1.76	0.96	87.33	8.58	2.38	1.71	-3.04	1.66	0.62	0.76

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Source Data: Zomer et al., 2014

Source: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, © OpenStreetMap contributors, and the GIS User Community

Tree Cover (%)

≤10	≤40
≤20	≤50
≤30	≤90

Australia

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 to 2010)

Change in Tree Cover (%)

Australia

0 375 750 1,500
Kilometers

Appendix 3: Bangladesh

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Bangladesh		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Barisal	7,547	12.16	19.19	7.03	3,913	2,406	1,015	213	542	3,921	2,777	307	-3,371	1,515	1,762	94
Chittagong	12,738	24.06	24.23	0.17	2,930	4,217	1,803	3,788	1,192	5,078	3,021	3,447	-1,738	861	1,218	-341
Dhaka	25,635	11.86	15.83	3.97	11,506	12,215	1,575	339	4,437	16,668	4,383	147	-7,069	4,453	2,808	-192
Khulna	14,567	11.86	14.69	2.84	6,372	7,245	824	126	2,580	10,331	1,590	66	-3,792	3,086	766	-60
Rajshahi	16,252	8.33	11.12	2.78	11,412	4,665	173	2	7,045	8,749	458	0	-4,367	4,084	285	-2
Rangpur	15,154	8.20	13.87	5.67	10,981	4,053	120	0	3,485	10,410	1,259	0	-7,496	6,357	1,139	0
Sylhet	9,550	10.33	14.18	3.85	6,383	2,566	335	266	2,862	5,661	780	247	-3,521	3,095	445	-19
Bangladesh - All	101,441	12.16	15.77	3.61	53,495	37,367	5,845	4,734	22,143	60,816	14,268	4,214	-31,352	23,449	8,423	-520

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Bangladesh		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Barisal	7,547	12.16	19.19	7.03	51.85	31.88	13.45	2.82	7.18	51.95	36.80	4.07	-44.67	20.07	23.35	1.25
Chittagong	12,738	24.06	24.23	0.17	23.00	33.11	14.15	29.74	9.36	39.87	23.72	27.06	-13.64	6.76	9.56	-2.68
Dhaka	25,635	11.86	15.83	3.97	44.88	47.65	6.14	1.32	17.31	65.02	17.10	0.57	-27.58	17.37	10.95	-0.75
Khulna	14,567	11.86	14.69	2.84	43.74	49.74	5.66	0.86	17.71	70.92	10.92	0.45	-26.03	21.19	5.26	-0.41
Rajshahi	16,252	8.33	11.12	2.78	70.22	28.70	1.06	0.01	43.35	53.83	2.82	0.00	-26.87	25.13	1.75	-0.01
Rangpur	15,154	8.20	13.87	5.67	72.46	26.75	0.79	0.00	23.00	68.70	8.31	0.00	-49.47	41.95	7.52	0.00
Sylhet	9,550	10.33	14.18	3.85	66.84	26.87	3.51	2.79	29.97	59.28	8.17	2.59	-36.87	32.41	4.66	-0.20
Bangladesh - All	101,441	12.16	15.77	3.61	52.74	36.84	5.76	4.67	21.83	59.95	14.07	4.15	-30.91	23.12	8.30	-0.51

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Bangladesh

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Bangladesh

Source Data: Zomer et al., 2014

Appendix 4: Bhutan

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Bhutan		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Bumthang	398	45.28	49.87	4.59	17	33	51	297	11	20	38	329	-6	-13	-13	32
Chhukha	102	45.66	49.35	3.70	1	6	11	84	1	4	8	89	0	-2	-3	5
Dagana	275	47.51	53.33	5.82	4	7	21	243	3	5	10	257	-1	-2	-11	14
Gasa	133	32.47	34.23	1.76	28	16	23	66	27	15	13	78	-1	-1	-10	12
Haa	47	15.98	18.26	2.28	28	7	3	9	27	7	2	11	-1	0	-1	2
Lhuentse	834	53.28	54.65	1.37	11	36	65	722	16	24	42	752	5	-12	-23	30
Monggar	337	46.53	52.23	5.71	4	20	57	256	0	7	26	304	-4	-13	-31	48
Paro	119	32.16	33.03	0.87	36	18	13	52	35	19	11	54	-1	1	-2	2
Pemagatshel	301	56.18	62.10	5.92	0	3	13	285	0	1	9	291	0	-2	-4	6
Punakha	246	53.56	54.64	1.08	2	17	12	215	2	6	23	215	0	-11	11	0
Samdrupjongkhar	703	56.55	59.88	3.33	1	13	35	654	4	12	35	652	3	-1	0	-2
Samtse	159	39.40	41.91	2.50	10	18	24	107	5	12	30	112	-5	-6	6	5
Sarpang	343	48.19	52.15	3.96	18	19	40	266	13	21	27	282	-5	2	-13	16
Thimphu	83	26.60	28.40	1.80	41	9	1	32	37	9	5	32	-4	0	4	0
Trashigang	388	40.31	45.54	5.23	4	63	73	248	0	32	56	300	-4	-31	-17	52
Trongsa	364	48.29	52.12	3.83	6	21	36	301	9	5	21	329	3	-16	-15	28
Tsirang	90	43.54	51.41	7.87	0	6	18	66	0	1	10	79	0	-5	-8	13
Wangduephodrang	615	41.46	44.19	2.73	50	82	72	411	49	48	66	452	-1	-34	-6	41
Yangtse	570	49.29	53.18	3.89	20	35	62	453	14	29	28	499	-6	-6	-34	46
Zhemgang	377	61.04	66.02	4.98	0	6	6	365	1	5	0	371	1	-1	-6	6
Bhutan - All	6,485	48.32	51.95	3.63	281	435	637	5,132	254	282	460	5,489	-27	-153	-177	357

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Bhutan		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Bumthang	398	45.28	49.87	4.59	4.27	8.29	12.81	74.62	2.76	5.03	9.55	82.66	-1.51	-3.27	-3.27	8.04
Chhukha	102	45.66	49.35	3.70	0.98	5.88	10.78	82.35	0.98	3.92	7.84	87.26	0.00	-1.96	-2.94	4.90
Dagana	275	47.51	53.33	5.82	1.45	2.55	7.64	88.36	1.09	1.82	3.64	93.46	-0.36	-0.73	-4.00	5.09
Gasa	133	32.47	34.23	1.76	21.05	12.03	17.29	49.62	20.30	11.28	9.77	58.65	-0.75	-0.75	-7.52	9.02
Haa	47	15.98	18.26	2.28	59.57	14.89	6.38	19.15	57.45	14.89	4.26	23.40	-2.13	0.00	-2.13	4.26
Lhuentse	834	53.28	54.65	1.37	1.32	4.32	7.79	86.57	1.92	2.88	5.04	90.17	0.60	-1.44	-2.76	3.60
Monggar	337	46.53	52.23	5.71	1.19	5.93	16.91	75.96	0.00	2.08	7.72	90.21	-1.19	-3.86	-9.20	14.24
Paro	119	32.16	33.03	0.87	30.25	15.13	10.92	43.70	29.41	15.97	9.24	45.38	-0.84	0.84	-1.68	1.68
Pemagatshel	301	56.18	62.10	5.92	0.00	1.00	4.32	94.69	0.00	0.33	2.99	96.68	0.00	-0.66	-1.33	1.99
Punakha	246	53.56	54.64	1.08	0.81	6.91	4.88	87.40	0.81	2.44	9.35	87.40	0.00	-4.47	4.47	0.00
Samdrupjongkhar	703	56.55	59.88	3.33	0.14	1.85	4.98	93.03	0.57	1.71	4.98	92.75	0.43	-0.14	0.00	-0.28
Samtse	159	39.40	41.91	2.50	6.29	11.32	15.09	67.30	3.14	7.55	18.87	70.44	-3.14	-3.77	3.77	3.14
Sarpang	343	48.19	52.15	3.96	5.25	5.54	11.66	77.55	3.79	6.12	7.87	82.22	-1.46	0.58	-3.79	4.66
Thimphu	83	26.60	28.40	1.80	49.40	10.84	1.20	38.55	44.58	10.84	6.02	38.55	-4.82	0.00	4.82	0.00
Trashigang	388	40.31	45.54	5.23	1.03	16.24	18.81	63.92	0.00	8.25	14.43	77.32	-1.03	-7.99	-4.38	13.40
Trongsa	364	48.29	52.12	3.83	1.65	5.77	9.89	82.69	2.47	1.37	5.77	90.39	0.82	-4.40	-4.12	7.69
Tsirang	90	43.54	51.41	7.87	0.00	6.67	20.00	73.33	0.00	1.11	11.11	87.78	0.00	-5.56	-8.89	14.44
Wangduephodrang	615	41.46	44.19	2.73	8.13	13.33	11.71	66.83	7.97	7.80	10.73	73.50	-0.16	-5.53	-0.98	6.67
Yangtse	570	49.29	53.18	3.89	3.51	6.14	10.88	79.47	2.46	5.09	4.91	87.54	-1.05	-1.05	-5.96	8.07
Zhemgang	377	61.04	66.02	4.98	0.00	1.59	1.59	96.82	0.27	1.33	0.00	98.41	0.27	-0.27	-1.59	1.59
Bhutan - All	6,485	48.32	51.95	3.63	4.33	6.71	9.82	79.14	3.92	4.35	7.09	84.64	-0.42	-2.36	-2.73	5.51

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Bhutan

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Bhutan

0 22 44 88
Kilometers

Appendix 5: Cambodia

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Cambodia		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Bântéay Méanchey	3,898	8.23	7.95	-0.27	2,827	773	228	70	2,815	975	86	22	-12	202	-142	-48
Batdâmbâng	4,067	16.03	12.77	-3.26	2,483	541	233	810	2,301	1,130	235	401	-182	589	2	-409
Kâmpóng Cham	3,152	11.02	11.05	0.03	2,077	602	189	284	1,917	823	308	104	-160	221	119	-180
Kâmpóng Chhnang	2,317	11.31	11.64	0.33	1,509	429	190	189	1,511	446	184	176	2	17	-6	-13
Kâmpóng Spœ	3,516	13.14	11.53	-1.62	2,315	330	254	617	2,412	389	264	451	97	59	10	-166
Kâmpóng Thum	3,166	12.25	12.11	-0.15	1,820	725	335	286	1,916	693	333	224	96	-32	-2	-62
Kâmpôt	2,310	11.72	10.91	-0.82	1,608	307	132	263	1,663	346	118	183	55	39	-14	-80
Kândal	2,851	10.50	11.92	1.42	1,950	471	207	223	1,619	788	243	201	-331	317	36	-22
Kaôh Kong	397	31.44	26.32	-5.12	40	73	96	188	58	104	96	139	18	31	0	-49
Kep	109	12.89	12.77	-0.12	73	16	6	14	72	20	8	9	-1	4	2	-5
Kràchéh	2,838	23.97	20.07	-3.90	699	616	631	892	659	927	784	468	-40	311	153	-424
Krong Pallin	143	51.63	17.68	-33.95	2	8	17	116	63	48	6	26	61	40	-11	-90
Krong Preah Sihanouk	252	27.50	26.66	-0.84	36	75	63	78	39	63	64	86	3	-12	1	8
Môndôl Kiri	1,562	37.30	37.58	0.28	68	115	244	1,135	31	128	231	1,172	-37	13	-13	37
Otdar Mean Chey	682	23.38	17.12	-6.26	238	85	103	256	270	155	151	106	32	70	48	-150
Phnom Penh	170	5.87	5.02	-0.85	149	13	4	4	155	12	3	0	6	-1	-1	-4
Pouthisat	2,453	16.58	14.98	-1.61	1,407	288	169	589	1,511	244	172	526	104	-44	3	-63
Preah Vihéar	1,390	30.15	29.49	-0.66	188	190	402	610	146	246	414	584	-42	56	12	-26
Prey Vêng	4,608	4.36	5.81	1.45	4,400	179	21	8	4,251	340	15	2	-149	161	-6	-6
Rôtânôkiri	1,820	43.42	39.47	-3.95	9	44	208	1,559	20	135	363	1,302	11	91	155	-257
Siemréab	3,908	13.75	11.43	-2.32	2,229	482	569	628	2,414	685	493	316	185	203	-76	-312
Stœng Trêng	1,044	37.93	36.38	-1.55	106	70	198	670	89	119	203	633	-17	49	5	-37
Svay Rieng	2,429	8.19	7.87	-0.32	1,864	419	83	63	1,975	383	57	14	111	-36	-26	-49
Takév	3,348	5.41	6.24	0.83	3,002	212	73	61	2,934	250	95	69	-68	38	22	8
Tbong Khmum	3,382	21.36	18.31	-3.06	978	857	685	862	994	1,212	695	481	16	355	10	-381
Cambodia - All	55,811	15.35	14.21	-1.15	32,077	7,919	5,340	10,475	31,835	10,660	5,621	7,695	-242	2,741	281	-2,780

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Cambodia		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Bântéay Méanchey	3,898	8.23	7.95	-0.27	72.52	19.83	5.85	1.80	72.22	25.01	2.21	0.56	-0.31	5.18	-3.64	-1.23
Batdâmbâng	4,067	16.03	12.77	-3.26	61.05	13.30	5.73	19.92	56.58	27.78	5.78	9.86	-4.48	14.48	0.05	-10.06
Kâmpông Cham	3,152	11.02	11.05	0.03	65.90	19.10	6.00	9.01	60.82	26.11	9.77	3.30	-5.08	7.01	3.78	-5.71
Kâmpông Chhnang	2,317	11.31	11.64	0.33	65.13	18.52	8.20	8.16	65.21	19.25	7.94	7.60	0.09	0.73	-0.26	-0.56
Kâmpông Spœ	3,516	13.14	11.53	-1.62	65.84	9.39	7.22	17.55	68.60	11.06	7.51	12.83	2.76	1.68	0.28	-4.72
Kâmpông Thum	3,166	12.25	12.11	-0.15	57.49	22.90	10.58	9.03	60.52	21.89	10.52	7.08	3.03	-1.01	-0.06	-1.96
Kâmpôt	2,310	11.72	10.91	-0.82	69.61	13.29	5.71	11.39	71.99	14.98	5.11	7.92	2.38	1.69	-0.61	-3.46
Kândal	2,851	10.50	11.92	1.42	68.40	16.52	7.26	7.82	56.79	27.64	8.52	7.05	-11.61	11.12	1.26	-0.77
Kaôh Kong	397	31.44	26.32	-5.12	10.08	18.39	24.18	47.36	14.61	26.20	24.18	35.01	4.53	7.81	0.00	-12.34
Kep	109	12.89	12.77	-0.12	66.97	14.68	5.50	12.84	66.06	18.35	7.34	8.26	-0.92	3.67	1.83	-4.59
Kráchéh	2,838	23.97	20.07	-3.90	24.63	21.71	22.23	31.43	23.22	32.66	27.63	16.49	-1.41	10.96	5.39	-14.94
Krong Pailin	143	51.63	17.68	-33.95	1.40	5.59	11.89	81.12	44.06	33.57	4.20	18.18	42.66	27.97	-7.69	-62.94
Krong Preah Sihanouk	252	27.50	26.66	-0.84	14.29	29.76	25.00	30.95	15.48	25.00	25.40	34.13	1.19	-4.76	0.40	3.17
Môndól Kiri	1,562	37.30	37.58	0.28	4.35	7.36	15.62	72.66	1.98	8.19	14.79	75.03	-2.37	0.83	-0.83	2.37
Otdar Mean Chey	682	23.38	17.12	-6.26	34.90	12.46	15.10	37.54	39.59	22.73	22.14	15.54	4.69	10.26	7.04	-21.99
Phnom Penh	170	5.87	5.02	-0.85	87.65	7.65	2.35	2.35	91.18	7.06	1.76	0.00	3.53	-0.59	-0.59	-2.35
Pouthisat	2,453	16.58	14.98	-1.61	57.36	11.74	6.89	24.01	61.60	9.95	7.01	21.44	4.24	-1.79	0.12	-2.57
Preah Vihéar	1,390	30.15	29.49	-0.66	13.53	13.67	28.92	43.89	10.50	17.70	29.78	42.01	-3.02	4.03	0.86	-1.87
Prey Vêng	4,608	4.36	5.81	1.45	95.49	3.88	0.46	0.17	92.25	7.38	0.33	0.04	-3.23	3.49	-0.13	-0.13
Rôtânôkiri	1,820	43.42	39.47	-3.95	0.49	2.42	11.43	85.66	1.10	7.42	19.95	71.54	0.60	5.00	8.52	-14.12
Siemréab	3,908	13.75	11.43	-2.32	57.04	12.33	14.56	16.07	61.77	17.53	12.62	8.09	4.73	5.19	-1.94	-7.98
Stœng Trêng	1,044	37.93	36.38	-1.55	10.15	6.71	18.97	64.18	8.52	11.40	19.44	60.63	-1.63	4.69	0.48	-3.54
Svay Rieng	2,429	8.19	7.87	-0.32	76.74	17.25	3.42	2.59	81.31	15.77	2.35	0.58	4.57	-1.48	-1.07	-2.02
Takév	3,348	5.41	6.24	0.83	89.67	6.33	2.18	1.82	87.64	7.47	2.84	2.06	-2.03	1.14	0.66	0.24
Tbong Khmum	3,382	21.36	18.31	-3.06	28.92	25.34	20.25	25.49	29.39	35.84	20.55	14.22	0.47	10.50	0.30	-11.27
Cambodia - All	55,811	15.35	14.21	-1.15	57.47	14.19	9.57	18.77	57.04	19.10	10.07	13.79	-0.43	4.91	0.50	-4.98

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Cambodia

0 49.5 99 198
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Cambodia

Appendix 6: China

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

China		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Anhui	73,237	11.50	13.46	1.95	42,177	25,580	3,821	1,659	25,118	41,505	4,553	2,061	-17,059	15,925	732	402
Beijing	3,619	6.76	8.15	1.38	3,165	341	94	19	2,896	455	205	63	-269	114	111	44
Chongqing	43,411	24.15	28.22	4.07	265	15,780	19,182	8,184	329	9,461	17,876	15,745	64	-6,319	-1,306	7,561
Fujian	8,871	30.55	33.05	2.50	1,151	1,751	1,570	4,399	880	1,259	1,661	5,071	-271	-492	91	672
Gansu	51,576	5.06	7.56	2.50	46,207	3,107	1,361	901	41,582	4,973	2,417	2,604	-4,625	1,866	1,056	1,703
Guangdong	24,480	19.95	22.03	2.08	4,494	10,856	5,027	4,103	3,323	9,623	6,349	5,185	-1,171	-1,233	1,322	1,082
Guangxi	38,977	21.51	23.81	2.31	6,762	14,947	8,350	8,918	7,477	11,131	8,336	12,033	715	-3,816	-14	3,115
Guizhou	32,645	20.58	25.72	5.14	4,178	14,070	9,412	4,985	2,320	8,794	11,347	10,184	-1,858	-5,276	1,935	5,199
Hainan	4,450	11.90	16.35	4.45	2,218	1,736	418	78	1,187	1,917	1,143	203	-1,031	181	725	125
Hebei	82,546	5.57	6.43	0.86	74,804	6,949	725	69	71,093	8,749	2,191	514	-3,711	1,800	1,466	445
Heilongjiang	141,144	8.51	8.59	0.08	102,946	31,107	5,264	1,828	105,989	29,716	3,399	2,041	3,043	-1,391	-1,865	213
Henan	110,537	8.82	11.01	2.19	82,737	25,346	1,701	754	55,119	50,918	3,237	1,263	-27,617	25,572	1,536	509
Hubei	68,976	15.86	17.11	1.25	16,425	40,257	7,348	4,946	12,760	43,213	5,291	7,712	-3,665	2,956	-2,057	2,766
Hunan	32,965	20.76	20.60	-0.16	991	19,600	8,824	3,550	1,882	19,028	7,549	4,506	891	-572	-1,275	956
Jiangsu	66,323	15.21	14.54	-0.67	14,529	40,422	10,135	1,237	16,570	40,985	7,801	967	2,041	563	-2,334	-270
Jiangxi	29,609	19.55	19.74	0.19	5,482	15,002	3,900	5,225	5,282	14,696	3,894	5,737	-200	-306	-6	512
Jilin	75,345	6.35	6.76	0.41	62,342	8,045	2,592	2,366	62,025	8,578	2,715	2,027	-317	533	123	-339
Liaoning	57,416	6.15	7.61	1.46	46,710	7,789	2,116	801	43,434	8,806	3,692	1,484	-3,276	1,017	1,576	683
Nei Mongol	203,507	3.61	3.66	0.05	193,027	6,664	1,992	1,825	190,162	7,497	2,731	3,118	-2,865	833	739	1,293
Ningxia Hui	9,227	2.38	3.11	0.74	9,108	65	43	11	9,064	67	43	53	-44	2	0	42
Qinghai	1,487	4.89	5.98	1.09	1,370	105	12	0	1,280	177	19	11	-90	72	7	11
Shaanxi	52,787	7.26	10.98	3.73	42,827	6,404	2,402	1,154	34,561	11,372	3,626	3,228	-8,266	4,968	1,224	2,074
Shandong	105,073	5.40	6.71	1.32	98,262	6,001	695	116	89,804	14,036	1,031	203	-8,458	8,035	336	87
Shanghai	2,623	19.50	12.92	-6.58	81	1,517	948	77	844	1,599	171	9	763	82	-777	-68
Shanxi	69,487	7.38	9.46	2.08	56,620	9,881	2,143	843	47,177	17,017	3,577	1,716	-9,443	7,136	1,434	873
Sichuan	109,836	23.29	28.16	4.86	2,537	49,315	39,391	18,593	2,066	28,456	40,444	38,870	-471	-20,859	1,053	20,277
Tianjin	7,506	7.46	8.66	1.20	6,478	961	67	0	5,455	1,819	215	17	-1,023	858	148	17
Xinjiang Uygur	73,332	5.90	5.31	-0.59	66,072	4,323	1,682	1,256	66,975	3,449	1,472	1,437	903	-874	-210	181
Xizang	6,136	41.55	42.20	0.65	709	743	639	4,045	781	697	602	4,056	72	-46	-37	11
Yunnan	82,086	21.29	24.93	3.64	14,890	31,912	19,012	16,272	12,398	24,136	21,442	24,110	-2,492	-7,776	2,430	7,838
Zhejiang	22,541	24.80	21.69	-3.11	621	9,012	7,772	5,136	2,813	11,574	3,476	4,678	2,192	2,562	-4,296	-458
China - All	1,691,755	11.36	12.84	1.48	1,010,187	409,591	168,639	103,351	922,648	435,706	172,506	160,907	-87,539	26,115	3,867	57,556

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

China		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Anhui	73,237	11.50	13.46	1.95	57.59	34.93	5.22	2.27	34.30	56.67	6.22	2.81	-23.29	21.74	1.00	0.55
Beijing	3,619	6.76	8.15	1.38	87.46	9.42	2.60	0.53	80.02	12.57	5.66	1.74	-7.43	3.15	3.07	1.22
Chongqing	43,411	24.15	28.22	4.07	0.61	36.35	44.19	18.85	0.76	21.79	41.18	36.27	0.15	-14.56	-3.01	17.42
Fujian	8,871	30.55	33.05	2.50	12.97	19.74	17.70	49.59	9.92	14.19	18.72	57.16	-3.05	-5.55	1.03	7.58
Gansu	51,576	5.06	7.56	2.50	89.59	6.02	2.64	1.75	80.62	9.64	4.69	5.05	-8.97	3.62	2.05	3.30
Guangdong	24,480	19.95	22.03	2.08	18.36	44.35	20.54	16.76	13.57	39.31	25.94	21.18	-4.78	-5.04	5.40	4.42
Guangxi	38,977	21.51	23.81	2.31	17.35	38.35	21.42	22.88	19.18	28.56	21.39	30.87	1.83	-9.79	-0.04	7.99
Guizhou	32,645	20.58	25.72	5.14	12.80	43.10	28.83	15.27	7.11	26.94	34.76	31.20	-5.69	-16.16	5.93	15.93
Hainan	4,450	11.90	16.35	4.45	49.84	39.01	9.39	1.75	26.67	43.08	25.69	4.56	-23.17	4.07	16.29	2.81
Hebei	82,546	5.57	6.43	0.86	90.62	8.42	0.88	0.08	86.12	10.60	2.65	0.62	-4.50	2.18	1.78	0.54
Heilongjiang	141,144	8.51	8.59	0.08	72.94	22.04	3.73	1.30	75.09	21.05	2.41	1.45	2.16	-0.99	-1.32	0.15
Henan	110,537	8.82	11.01	2.19	74.85	22.93	1.54	0.68	49.87	46.06	2.93	1.14	-24.98	23.13	1.39	0.46
Hubei	68,976	15.86	17.11	1.25	23.81	58.36	10.65	7.17	18.50	62.65	7.67	11.18	-5.31	4.29	-2.98	4.01
Hunan	32,965	20.76	20.60	-0.16	3.01	59.46	26.77	10.77	5.71	57.72	22.90	13.67	2.70	-1.74	-3.87	2.90
Jiangsu	66,323	15.21	14.54	-0.67	21.91	60.95	15.28	1.87	24.98	61.80	11.76	1.46	3.08	0.85	-3.52	-0.41
Jiangxi	29,609	19.55	19.74	0.19	18.51	50.67	13.17	17.65	17.84	49.63	13.15	19.38	-0.68	-1.03	-0.02	1.73
Jilin	75,345	6.35	6.76	0.41	82.74	10.68	3.44	3.14	82.32	11.39	3.60	2.69	-0.42	0.71	0.16	-0.45
Liaoning	57,416	6.15	7.61	1.46	81.35	13.57	3.69	1.40	75.65	15.34	6.43	2.58	-5.71	1.77	2.74	1.19
Nei Mongol	203,507	3.61	3.66	0.05	94.85	3.27	0.98	0.90	93.44	3.68	1.34	1.53	-1.41	0.41	0.36	0.64
Ningxia Hui	9,227	2.38	3.11	0.74	98.71	0.70	0.47	0.12	98.23	0.73	0.47	0.57	-0.48	0.02	0.00	0.46
Qinghai	1,487	4.89	5.98	1.09	92.13	7.06	0.81	0.00	86.08	11.90	1.28	0.74	-6.05	4.84	0.47	0.74
Shaanxi	52,787	7.26	10.98	3.73	81.13	12.13	4.55	2.19	65.47	21.54	6.87	6.12	-15.66	9.41	2.32	3.93
Shandong	105,073	5.40	6.71	1.32	93.52	5.71	0.66	0.11	85.47	13.36	0.98	0.19	-8.05	7.65	0.32	0.08
Shanghai	2,623	19.50	12.92	-6.58	3.09	57.83	36.14	2.94	32.18	60.96	6.52	0.34	29.09	3.13	-29.62	-2.59
Shanxi	69,487	7.38	9.46	2.08	81.48	14.22	3.08	1.21	67.89	24.49	5.15	2.47	-13.59	10.27	2.06	1.26
Sichuan	109,836	23.29	28.16	4.86	2.31	44.90	35.86	16.93	1.88	25.91	36.82	35.39	-0.43	-18.99	0.96	18.46
Tianjin	7,506	7.46	8.66	1.20	86.30	12.80	0.89	0.00	72.68	24.23	2.86	0.23	-13.63	11.43	1.97	0.23
Xinjiang Uygur	73,332	5.90	5.31	-0.59	90.10	5.90	2.29	1.71	91.33	4.70	2.01	1.96	1.23	-1.19	-0.29	0.25
Xizang	6,136	41.55	42.20	0.65	11.55	12.11	10.41	65.92	12.73	11.36	9.81	66.10	1.17	-0.75	-0.60	0.18
Yunnan	82,086	21.29	24.93	3.64	18.14	38.88	23.16	19.82	15.10	29.40	26.12	29.37	-3.04	-9.47	2.96	9.55
Zhejiang	22,541	24.80	21.69	-3.11	2.76	39.98	34.48	22.79	12.48	51.35	15.42	20.75	9.72	11.37	-19.06	-2.03
China - All	1,691,755	11.36	12.84	1.48	59.71	24.21	9.97	6.11	54.54	25.75	10.20	9.51	-5.17	1.54	0.23	3.40

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

China

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

China

Appendix 7: Fiji

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Fiji		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Central	219	55.51	58.10	2.59	0	7	15	197	0	1	16	202	0	-6	1	5
Eastern	56	68.21	68.86	0.64	0	0	1	55	0	0	1	55	0	0	0	0
Northern	594	39.47	43.75	4.28	5	177	97	315	1	91	154	348	-4	-86	57	33
Western	1,917	29.83	36.53	6.71	89	627	482	719	0	293	591	1,033	-89	-334	109	314
Fiji - All	2,786	34.67	40.42	5.74	94	811	595	1,286	1	385	762	1,638	-93	-426	167	352

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Fiji		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Central	219	55.51	58.10	2.59	0.00	3.20	6.85	89.96	0.00	0.46	7.31	92.24	0.00	-2.74	0.46	2.28
Eastern	56	68.21	68.86	0.64	0.00	0.00	1.79	98.22	0.00	0.00	1.79	98.22	0.00	0.00	0.00	0.00
Northern	594	39.47	43.75	4.28	0.84	29.80	16.33	53.03	0.17	15.32	25.93	58.59	-0.67	-14.48	9.60	5.56
Western	1,917	29.83	36.53	6.71	4.64	32.71	25.14	37.51	0.00	15.28	30.83	53.89	-4.64	-17.42	5.69	16.38
Fiji - All	2,786	34.67	40.42	5.74	3.37	29.11	21.36	46.16	0.04	13.82	27.35	58.79	-3.34	-15.29	5.99	12.63

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Fiji

Appendix 8: India

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

India		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
State	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Andaman and Nicobar	160	35.32	38.11	2.79	0	28	45	87	3	18	40	99	3	-10	-5	12
Andhra Pradesh	92,528	6.58	7.80	1.22	72,823	15,825	3,490	391	65,702	23,198	3,270	358	-7,120	7,373	-220	-33
Arunachal Pradesh	15,482	50.53	51.55	1.02	1,178	1,347	1,209	11,748	1,222	1,080	1,333	11,847	44	-267	124	99
Assam	50,188	14.66	17.61	2.95	22,620	19,271	3,512	4,785	11,200	26,869	7,494	4,625	-11,420	7,598	3,982	-160
Bihar	79,137	8.62	7.03	-1.59	53,443	25,085	510	99	68,681	10,204	230	23	15,237	-14,881	-280	-76
Chhattisgarh	62,228	4.98	4.84	-0.13	56,255	4,785	1,084	104	57,785	4,278	165	0	1,530	-507	-919	-104
Dadra and Nagar Haveli	217	4.49	6.20	1.71	201	16	0	0	200	17	0	0	-1	1	0	0
Goa	561	15.63	19.07	3.44	178	233	117	33	76	236	218	31	-102	3	101	-2
Gujarat	85,398	2.74	4.53	1.79	84,637	724	36	2	82,131	3,205	63	0	-2,506	2,481	27	-2
Haryana	37,403	5.78	5.98	0.20	30,275	6,719	388	21	30,399	6,901	101	2	124	182	-287	-19
Himachal Pradesh	14,057	19.07	19.83	0.76	2,820	5,201	4,696	1,340	2,346	4,867	5,662	1,182	-474	-334	966	-158
Jammu and Kashmir	17,579	16.48	19.15	2.66	6,330	6,199	3,192	1,858	4,354	6,624	4,022	2,579	-1,976	425	830	721
Jharkhand	42,430	4.30	4.56	0.26	38,800	3,046	564	20	39,515	2,776	139	0	715	-270	-425	-20
Karnataka	84,925	4.55	6.05	1.51	78,848	3,538	1,714	826	75,151	6,746	2,192	837	-3,697	3,208	478	11
Kerala	8,074	32.05	29.84	-2.21	93	778	2,520	4,683	52	1,046	3,606	3,370	-41	268	1,086	-1,313
Madhya Pradesh	154,040	5.14	7.07	1.93	146,969	6,405	648	19	122,298	31,699	44	0	-24,671	25,294	-604	-19
Maharashtra	169,509	6.39	8.79	2.39	153,539	14,544	1,100	327	124,698	43,257	1,212	343	-28,841	28,713	112	16
Manipur	1,632	31.16	27.06	-4.10	499	347	54	732	541	294	99	698	42	-53	45	-34
Meghalaya	410	18.40	20.40	2.00	186	88	47	89	81	176	77	76	-105	88	30	-13
Mizoram	3,032	57.47	51.43	-6.04	0	0	16	3,016	0	0	23	3,009	0	0	7	-7
Nagaland	982	43.46	47.83	4.37	64	119	79	720	37	122	69	754	-27	3	-10	34
NCT of Delhi	87	3.77	4.39	0.62	87	0	0	0	87	0	0	0	0	0	0	0
Odisha	70,348	4.99	6.89	1.90	63,698	5,283	1,058	309	56,701	12,048	1,381	218	-6,997	6,765	323	-91
Puducherry	107	14.47	17.14	2.67	53	28	16	10	10	73	19	5	-43	45	3	-5
Punjab	42,527	10.80	10.85	0.05	21,737	19,181	1,542	67	19,017	22,833	674	3	-2,720	3,652	-868	-64
Rajasthan	202,275	1.75	2.22	0.47	202,054	223	0	0	199,682	2,588	7	0	-2,372	2,365	7	0
Sikkim	582	45.21	50.20	4.99	30	38	105	409	28	20	49	485	-2	-18	-56	76
Tamil Nadu	72,544	6.03	8.26	2.23	61,905	8,994	1,025	620	54,853	14,817	1,969	905	-7,052	5,823	944	285
Telangana	55,227	5.32	5.97	0.65	50,100	4,166	861	100	48,182	6,645	392	8	-1,918	2,479	-469	-92
Tripura	2,597	39.49	35.58	-3.91	204	307	227	1,859	32	529	433	1,603	-172	222	206	-256
Uttar Pradesh	193,655	6.51	5.41	-1.10	161,417	29,626	1,925	688	175,705	16,543	1,053	355	14,288	-13,083	-872	-333
Uttarakhand	15,506	21.68	21.49	-0.19	3,150	5,742	3,070	3,544	2,771	5,497	4,055	3,183	-379	-245	985	-361
West Bengal	64,704	7.39	10.94	3.55	52,107	10,422	1,226	949	34,724	26,157	2,756	1,067	-17,383	15,735	1,530	118
India - All	1,640,132	6.84	7.82	0.98	1,366,304	198,310	36,075	39,455	1,278,266	281,367	42,847	37,664	-88,039	83,058	6,772	-1,791

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

India		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
State	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Andaman and Nicobar	160	35.32	38.11	2.79	0.00	17.50	28.13	54.38	1.88	11.25	25.00	61.88	1.88	-6.25	-3.13	7.50
Andhra Pradesh	92,528	6.58	7.80	1.22	78.70	17.10	3.77	0.42	71.01	25.07	3.53	0.39	-7.70	7.97	-0.24	-0.04
Arunachal Pradesh	15,482	50.53	51.55	1.02	7.61	8.70	7.81	75.88	7.89	6.98	8.61	76.52	0.28	-1.72	0.80	0.64
Assam	50,188	14.66	17.61	2.95	45.07	38.40	7.00	9.53	22.32	53.54	14.93	9.22	-22.75	15.14	7.93	-0.32
Bihar	79,137	8.62	7.03	-1.59	67.53	31.70	0.64	0.13	86.79	12.89	0.29	0.03	19.25	-18.80	-0.35	-0.10
Chhattisgarh	62,228	4.98	4.84	-0.13	90.40	7.69	1.74	0.17	92.86	6.87	0.27	0.00	2.46	-0.81	-1.48	-0.17
Dadra and Nagar Haveli	217	4.49	6.20	1.71	92.63	7.37	0.00	0.00	92.17	7.83	0.00	0.00	-0.46	0.46	0.00	0.00
Goa	561	15.63	19.07	3.44	31.73	41.53	20.86	5.88	13.55	42.07	38.86	5.53	-18.18	0.53	18.00	-0.36
Gujarat	85,398	2.74	4.53	1.79	99.11	0.85	0.04	0.00	96.17	3.75	0.07	0.00	-2.93	2.91	0.03	0.00
Haryana	37,403	5.78	5.98	0.20	80.94	17.96	1.04	0.06	81.27	18.45	0.27	0.01	0.33	0.49	-0.77	-0.05
Himachal Pradesh	14,057	19.07	19.83	0.76	20.06	37.00	33.41	9.53	16.69	34.62	40.28	8.41	-3.37	-2.38	6.87	-1.12
Jammu and Kashmir	17,579	16.48	19.15	2.66	36.01	35.26	18.16	10.57	24.77	37.68	22.88	14.67	-11.24	2.42	4.72	4.10
Jharkhand	42,430	4.30	4.56	0.26	91.45	7.18	1.33	0.05	93.13	6.54	0.33	0.00	1.69	-0.64	-1.00	-0.05
Karnataka	84,925	4.55	6.05	1.51	92.84	4.17	2.02	0.97	88.49	7.94	2.58	0.99	-4.35	3.78	0.56	0.01
Kerala	8,074	32.05	29.84	-2.21	1.15	9.64	31.21	58.00	0.64	12.96	44.66	41.74	-0.51	3.32	13.45	-16.26
Madhya Pradesh	154,040	5.14	7.07	1.93	95.41	4.16	0.42	0.01	79.39	20.58	0.03	0.00	-16.02	16.42	-0.39	-0.01
Maharashtra	169,509	6.39	8.79	2.39	90.58	8.58	0.65	0.19	73.56	25.52	0.72	0.20	-17.01	16.94	0.07	0.01
Manipur	1,632	31.16	27.06	-4.10	30.58	21.26	3.31	44.85	33.15	18.01	6.07	42.77	2.57	-3.25	2.76	-2.08
Meghalaya	410	18.40	20.40	2.00	45.37	21.46	11.46	21.71	19.76	42.93	18.78	18.54	-25.61	21.46	7.32	-3.17
Mizoram	3,032	57.47	51.43	-6.04	0.00	0.00	0.53	99.47	0.00	0.00	0.76	99.24	0.00	0.00	0.23	-0.23
Nagaland	982	43.46	47.83	4.37	6.52	12.12	8.04	73.32	3.77	12.42	7.03	76.78	-2.75	0.31	-1.02	3.46
NCT of Delhi	87	3.77	4.39	0.62	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Odisha	70,348	4.99	6.89	1.90	90.55	7.51	1.50	0.44	80.60	17.13	1.96	0.31	-9.95	9.62	0.46	-0.13
Puducherry	107	14.47	17.14	2.67	49.53	26.17	14.95	9.35	9.35	68.22	17.76	4.67	-40.19	42.06	2.80	-4.67
Punjab	42,527	10.80	10.85	0.05	51.11	45.10	3.63	0.16	44.72	53.69	1.58	0.01	-6.40	8.59	-2.04	-0.15
Rajasthan	202,275	1.75	2.22	0.47	99.89	0.11	0.00	0.00	98.72	1.28	0.00	0.00	-1.17	1.17	0.00	0.00
Sikkim	582	45.21	50.20	4.99	5.15	6.53	18.04	70.28	4.81	3.44	8.42	83.33	-0.34	-3.09	-9.62	13.06
Tamil Nadu	72,544	6.03	8.26	2.23	85.34	12.40	1.41	0.85	75.61	20.43	2.71	1.25	-9.72	8.03	1.30	0.39
Telangana	55,227	5.32	5.97	0.65	90.72	7.54	1.56	0.18	87.24	12.03	0.71	0.01	-3.47	4.49	-0.85	-0.17
Tripura	2,597	39.49	35.58	-3.91	7.86	11.82	8.74	71.58	1.23	20.37	16.67	61.73	-6.62	8.55	7.93	-9.86
Uttar Pradesh	193,655	6.51	5.41	-1.10	83.35	15.30	0.99	0.36	90.73	8.54	0.54	0.18	7.38	-6.76	-0.45	-0.17
Uttarakhand	15,506	21.68	21.49	-0.19	20.31	37.03	19.80	22.86	17.87	35.45	26.15	20.53	-2.44	-1.58	6.35	-2.33
West Bengal	64,704	7.39	10.94	3.55	80.53	16.11	1.89	1.47	53.67	40.43	4.26	1.65	-26.87	24.32	2.36	0.18
India - All	1,640,132	6.84	7.82	0.98	83.30	12.09	2.20	2.41	77.94	17.16	2.61	2.30	-5.37	5.06	0.41	-0.11

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

India

0 295 590 1,180
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

India

Appendix 9: Indonesia

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Indonesia		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Aceh	17,479	40.52	43.26	2.74	349	2,348	2,954	11,828	115	2,305	2,300	12,759	-234	-43	-654	931
Bali	1,905	37.97	42.95	4.98	26	344	402	1,133	10	174	380	1,341	-16	-170	-22	208
Bangka Belitung	10,767	34.27	37.50	3.23	347	1,777	2,302	6,341	590	1,748	1,738	6,691	243	-29	-564	350
Banten	4,891	33.89	34.06	0.17	637	867	632	2,755	254	1,302	697	2,638	-383	435	65	-117
Bengkulu	9,303	45.01	50.28	5.27	13	545	1,258	7,487	3	157	659	8,484	-10	-388	-599	997
Gorontalo	3,901	39.13	40.23	1.10	64	751	761	2,325	5	451	1,053	2,392	-59	-300	292	67
Jambi	25,019	42.11	46.35	4.23	104	2,423	3,783	18,709	57	1,482	3,066	20,414	-47	-941	-717	1,705
Jawa Barat	22,281	29.64	30.54	0.89	2,580	4,958	4,772	9,971	881	6,911	4,392	10,097	-1,699	1,953	-380	126
Jawa Tengah	19,638	24.42	27.94	3.52	3,052	6,539	4,452	5,595	666	7,632	4,572	6,768	-2,386	1,093	120	1,173
Jawa Timur	25,498	23.31	27.02	3.70	4,409	9,252	5,717	6,120	1,850	8,398	7,384	7,866	-2,559	-854	1,667	1,746
Kalimantan Barat	63,886	45.69	50.33	4.64	217	3,519	7,662	52,488	195	2,518	6,056	55,117	-22	-1,001	-1,606	2,629
Kalimantan Selatan	22,425	35.37	39.46	4.10	920	4,942	4,473	12,090	537	4,553	3,951	13,384	-383	-389	-522	1,294
Kalimantan Tengah	37,500	42.05	47.75	5.70	385	4,641	5,995	26,479	303	3,642	4,911	28,644	-82	-999	-1,084	2,165
Kalimantan Timur	25,559	44.70	48.19	3.49	263	2,537	3,422	19,337	425	2,396	3,000	19,738	162	-141	-422	401
Kepulauan Riau	1,786	33.03	33.79	0.76	93	434	369	890	172	380	297	937	79	-54	-72	47
Lampung	25,744	23.17	27.66	4.49	6,249	8,476	3,982	7,037	3,183	9,367	3,791	9,403	-3,066	891	-191	2,366
Maluku	9,792	48.30	50.23	1.93	256	814	1,088	7,634	165	635	1,167	7,825	-91	-179	79	191
Maluku Utara	2,186	58.77	58.94	0.17	4	39	53	2,090	3	23	92	2,068	-1	-16	39	-22
Nusa Tenggara Barat	8,596	31.40	34.73	3.32	1,298	2,359	1,214	3,725	399	2,549	1,420	4,228	-899	190	206	503
Nusa Tenggara Timur	21,539	30.54	34.39	3.86	2,962	4,665	4,305	9,607	1,921	3,911	4,019	11,688	-1,041	-754	-286	2,081
Papua	47,827	49.17	50.63	1.46	397	3,620	6,540	37,270	484	3,157	6,077	38,109	87	-463	-463	839
Papua Barat	7,684	61.34	61.69	0.35	38	201	242	7,203	23	217	365	7,079	-15	16	123	-124
Riau	41,402	41.45	46.32	4.87	295	4,672	7,258	29,177	223	2,766	5,558	32,855	-72	-1,906	-1,700	3,678
Sulawesi Barat	3,661	46.15	49.51	3.36	20	223	381	3,037	0	114	397	3,150	-20	-109	16	113
Sulawesi Selatan	17,894	29.47	33.79	4.32	1,351	5,654	3,804	7,085	248	4,767	3,928	8,951	-1,103	-887	124	1,866
Sulawesi Tengah	12,838	48.55	47.72	-0.83	61	692	1,361	10,724	193	839	1,601	10,205	132	147	240	-519
Sulawesi Tenggara	10,407	38.17	43.31	5.14	264	1,698	1,889	6,556	215	1,163	1,341	7,688	-49	-535	-548	1,132
Sulawesi Utara	4,326	48.94	54.65	5.71	16	224	421	3,665	2	135	345	3,844	-14	-89	-76	179
Sumatera Barat	12,608	43.58	47.34	3.76	59	1,258	1,997	9,294	25	849	1,849	9,885	-34	-409	-148	591
Sumatera Selatan	63,093	38.13	44.70	6.57	1,222	8,521	12,106	41,244	361	6,666	8,230	47,836	-861	-1,855	-3,876	6,592
Sumatera Utara	39,226	41.42	45.23	3.81	1,519	5,837	5,253	26,617	215	4,791	5,734	28,486	-1,304	-1,046	481	1,869
Yogyakarta	1,172	27.88	31.31	3.44	37	329	404	402	1	256	429	486	-36	-73	25	84
Indonesia - All	621,833	39.19	43.09	3.89	29,507	95,160	101,253	395,918	13,724	86,255	90,800	431,059	-15,783	-8,905	-10,453	35,141

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Indonesia		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Aceh	17,479	40.52	43.26	2.74	2.00	13.43	16.90	67.67	0.66	13.19	13.16	73.00	-1.34	-0.25	-3.74	5.33
Bali	1,905	37.97	42.95	4.98	1.36	18.06	21.10	59.48	0.52	9.13	19.95	70.39	-0.84	-8.92	-1.15	10.92
Bangka Belitung	10,767	34.27	37.50	3.23	3.22	16.50	21.38	58.89	5.48	16.23	16.14	62.14	2.26	-0.27	-5.24	3.25
Banten	4,891	33.89	34.06	0.17	13.02	17.73	12.92	56.33	5.19	26.62	14.25	53.94	-7.83	8.89	1.33	-2.39
Bengkulu	9,303	45.01	50.28	5.27	0.14	5.86	13.52	80.48	0.03	1.69	7.08	91.20	-0.11	-4.17	-6.44	10.72
Gorontalo	3,901	39.13	40.23	1.10	1.64	19.25	19.51	59.60	0.13	11.56	26.99	61.32	-1.51	-7.69	7.49	1.72
Jambi	25,019	42.11	46.35	4.23	0.42	9.68	15.12	74.78	0.23	5.92	12.25	81.59	-0.19	-3.76	-2.87	6.81
Jawa Barat	22,281	29.64	30.54	0.89	11.58	22.25	21.42	44.75	3.95	31.02	19.71	45.32	-7.63	8.77	-1.71	0.57
Jawa Tengah	19,638	24.42	27.94	3.52	15.54	33.30	22.67	28.49	3.39	38.86	23.28	34.46	-12.15	5.57	0.61	5.97
Jawa Timur	25,498	23.31	27.02	3.70	17.29	36.29	22.42	24.00	7.26	32.94	28.96	30.85	-10.04	-3.35	6.54	6.85
Kalimantan Barat	63,886	45.69	50.33	4.64	0.34	5.51	11.99	82.16	0.31	3.94	9.48	86.27	-0.03	-1.57	-2.51	4.12
Kalimantan Selatan	22,425	35.37	39.46	4.10	4.10	22.04	19.95	53.91	2.39	20.30	17.62	59.68	-1.71	-1.73	-2.33	5.77
Kalimantan Tengah	37,500	42.05	47.75	5.70	1.03	12.38	15.99	70.61	0.81	9.71	13.10	76.38	-0.22	-2.66	-2.89	5.77
Kalimantan Timur	25,559	44.70	48.19	3.49	1.03	9.93	13.39	75.66	1.66	9.37	11.74	77.23	0.63	-0.55	-1.65	1.57
Kepulauan Riau	1,786	33.03	33.79	0.76	5.21	24.30	20.66	49.83	9.63	21.28	16.63	52.46	4.42	-3.02	-4.03	2.63
Lampung	25,744	23.17	27.66	4.49	24.27	32.92	15.47	27.33	12.36	36.39	14.73	36.53	-11.91	3.46	-0.74	9.19
Maluku	9,792	48.30	50.23	1.93	2.61	8.31	11.11	77.96	1.69	6.48	11.92	79.91	-0.93	-1.83	0.81	1.95
Maluku Utara	2,186	58.77	58.94	0.17	0.18	1.78	2.42	95.61	0.14	1.05	4.21	94.60	-0.05	-0.73	1.78	-1.01
Nusa Tenggara Barat	8,596	31.40	34.73	3.32	15.10	27.44	14.12	43.33	4.64	29.65	16.52	49.19	-10.46	2.21	2.40	5.85
Nusa Tenggara Timur	21,539	30.54	34.39	3.86	13.75	21.66	19.99	44.60	8.92	18.16	18.66	54.26	-4.83	-3.50	-1.33	9.66
Papua	47,827	49.17	50.63	1.46	0.83	7.57	13.67	77.93	1.01	6.60	12.71	79.68	0.18	-0.97	-0.97	1.75
Papua Barat	7,684	61.34	61.69	0.35	0.49	2.62	3.15	93.74	0.30	2.82	4.75	92.13	-0.20	0.21	1.60	-1.61
Riau	41,402	41.45	46.32	4.87	0.71	11.28	17.53	70.47	0.54	6.68	13.42	79.36	-0.17	-4.60	-4.11	8.88
Sulawesi Barat	3,661	46.15	49.51	3.36	0.55	6.09	10.41	82.96	0.00	3.11	10.84	86.04	-0.55	-2.98	0.44	3.09
Sulawesi Selatan	17,894	29.47	33.79	4.32	7.55	31.60	21.26	39.59	1.39	26.64	21.95	50.02	-6.16	-4.96	0.69	10.43
Sulawesi Tengah	12,838	48.55	47.72	-0.83	0.48	5.39	10.60	83.53	1.50	6.54	12.47	79.49	1.03	1.15	1.87	-4.04
Sulawesi Tenggara	10,407	38.17	43.31	5.14	2.54	16.32	18.15	63.00	2.07	11.18	12.89	73.87	-0.47	-5.14	-5.27	10.88
Sulawesi Utara	4,326	48.94	54.65	5.71	0.37	5.18	9.73	84.72	0.05	3.12	7.98	88.86	-0.32	-2.06	-1.76	4.14
Sumatera Barat	12,608	43.58	47.34	3.76	0.47	9.98	15.84	73.72	0.20	6.73	14.67	78.40	-0.27	-3.24	-1.17	4.69
Sumatera Selatan	63,093	38.13	44.70	6.57	1.94	13.51	19.19	65.37	0.57	10.57	13.04	75.82	-1.36	-2.94	-6.14	10.45
Sumatera Utara	39,226	41.42	45.23	3.81	3.87	14.88	13.39	67.86	0.55	12.21	14.62	72.62	-3.32	-2.67	1.23	4.76
Yogyakarta	1,172	27.88	31.31	3.44	3.16	28.07	34.47	34.30	0.09	21.84	36.60	41.47	-3.07	-6.23	2.13	7.17
Indonesia - All	621,833	39.19	43.09	3.89	4.75	15.30	16.28	63.67	2.21	13.87	14.60	69.32	-2.54	-1.43	-1.68	5.65

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Indonesia

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Indonesia

Appendix 10: Japan

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Japan		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Aichi	37	45.24	49.46	4.22	2	4	1	30	3	3	0	31	1	-1	-1	1
Akita	1,278	44.33	41.00	-3.33	23	263	165	827	33	292	146	807	10	29	-19	-20
Aomori	1,295	56.08	54.58	-1.50	20	83	96	1,096	10	89	102	1,094	-10	6	6	-2
Chiba	484	25.78	27.95	2.16	2	174	179	129	0	147	146	191	-2	-27	-33	62
Ehime	549	48.16	51.83	3.67	6	33	51	459	8	23	37	481	2	-10	-14	22
Fukui	162	41.62	44.83	3.20	5	25	18	114	3	24	18	117	-2	-1	0	3
Fukuoka	466	36.51	40.74	4.24	20	102	70	274	25	71	64	306	5	-31	-6	32
Fukushima	1,579	45.18	41.74	-3.44	5	210	238	1,126	8	225	221	1,125	3	15	-17	-1
Gifu	449	44.71	41.04	-3.67	5	66	59	319	24	52	66	307	19	-14	7	-12
Gunma	918	52.24	50.97	-1.26	14	50	93	761	20	41	76	781	6	-9	-17	20
Hiroshima	569	35.43	38.94	3.51	13	99	125	332	10	58	121	380	-3	-41	-4	48
Hokkaido	16,205	46.44	42.42	-4.02	398	3,124	2,327	10,356	520	3,332	2,287	10,066	122	208	-40	-290
Hyōgo	1,091	40.87	41.83	0.97	22	158	192	719	14	124	212	741	-8	-34	20	22
Ibaraki	1,878	21.21	22.81	1.60	122	956	552	248	128	804	598	348	6	-152	46	100
Ishikawa	450	50.11	49.14	-0.97	5	21	41	383	4	31	32	383	-1	10	-9	0
Iwate	2,549	55.68	53.09	-2.58	3	123	184	2,239	4	154	163	2,228	1	31	-21	-11
Kagawa	69	35.46	39.55	4.09	6	12	12	39	4	8	13	44	-2	-4	1	5
Kagoshima	1,201	40.37	44.00	3.63	53	157	244	747	11	119	222	849	-42	-38	-22	102
Kanagawa	31	54.90	65.39	10.48	1	1	0	29	1	1	0	29	0	0	0	0
Kochi	174	43.70	45.86	2.16	7	11	17	139	6	10	14	144	-1	-1	-3	5
Kumamoto	621	34.52	37.49	2.97	12	143	134	332	27	100	101	393	15	-43	-33	61
Kyoto	438	46.23	46.64	0.42	5	30	57	346	5	36	56	341	0	6	-1	-5
Mie	337	37.74	42.09	4.35	6	71	57	203	0	25	84	228	-6	-46	27	25
Miyagi	1,621	33.47	32.43	-1.05	70	484	315	752	214	399	253	755	144	-85	-62	3
Miyazaki	209	39.03	38.89	-0.14	3	30	50	126	1	36	49	123	-2	6	-1	-3
Nagano	1,217	46.57	45.77	-0.80	35	158	133	891	54	141	123	899	19	-17	-10	8
Naoasaki	757	37.63	41.25	3.63	33	127	141	456	19	96	132	510	-14	-31	-9	54
Nara	141	44.79	50.07	5.28	0	10	14	117	0	3	11	127	0	-7	-3	10
Niigata	2,383	51.28	45.97	-5.32	28	191	181	1,983	43	222	268	1,850	15	31	87	-133
Oita	621	40.23	42.27	2.04	13	57	94	457	3	65	76	477	-10	8	-18	20
Okayama	531	36.62	37.24	0.62	13	90	115	313	9	101	101	320	-4	11	-14	7
Okinawa	247	22.61	25.57	2.97	59	94	33	61	43	91	47	66	-16	-3	14	5
Osaka	54	47.54	50.70	3.17	0	3	6	45	0	1	6	47	0	-2	0	2
Saga	439	35.97	40.71	4.74	16	78	87	258	14	51	77	297	-2	-27	-10	39
Saitama	85	51.87	54.53	2.66	4	10	4	67	4	10	1	70	0	0	-3	3
Shiga	512	33.01	36.70	3.69	31	154	102	225	8	152	80	272	-23	-2	-22	47
Shimane	313	39.61	42.92	3.32	1	42	51	219	0	34	42	237	-1	-8	-9	18
Shizuoka	352	44.53	45.82	1.29	39	17	44	252	39	12	39	262	0	-5	-5	10
Tochigi	1,938	38.69	38.43	-0.26	65	399	298	1,176	92	408	327	1,111	27	9	29	-65
Tokushima	102	45.90	48.52	2.62	2	13	9	78	6	8	9	79	4	-5	0	1
Tokyo	6	63.33	67.67	4.33	0	0	0	6	0	0	0	6	0	0	0	0
Tottori	438	35.32	34.16	-1.16	27	101	71	239	19	116	79	224	-8	15	8	-15
Toyama	900	40.66	35.82	-4.84	55	145	101	599	93	131	131	545	38	-14	30	-54
Wakayama	63	47.21	50.37	3.16	0	1	4	58	0	0	6	57	0	-1	2	-1
Yamagata	1,305	47.97	40.61	-7.36	7	184	140	974	31	205	185	884	24	21	45	-90
Yamaguchi	692	39.05	42.94	3.89	27	87	110	468	14	78	80	520	-13	-9	-30	52
Yamanashi	251	52.51	52.61	0.10	1	15	27	208	0	23	33	195	-1	8	6	-13
Japan - All	48,010	43.76	42.07	-1.70	1,284	8,406	7,044	31,276	1,574	8,152	6,935	31,349	290	-254	-109	73

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Japan		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Aichi	37	45.24	49.46	4.22	5.41	10.81	2.70	81.08	8.11	8.11	0.00	83.78	2.70	-2.70	-2.70	2.70
Akita	1,278	44.33	41.00	-3.33	1.80	20.58	12.91	64.71	2.58	22.85	11.42	63.15	0.78	2.27	-1.49	-1.56
Aomori	1,295	56.08	54.58	-1.50	1.54	6.41	7.41	84.63	0.77	6.87	7.88	84.48	-0.77	0.46	0.46	-0.15
Chiba	484	25.78	27.95	2.16	0.41	35.95	36.98	26.65	0.00	30.37	30.17	39.46	-0.41	-5.58	-6.82	12.81
Ehime	549	48.16	51.83	3.67	1.09	6.01	9.29	83.61	1.46	4.19	6.74	87.61	0.36	-1.82	-2.55	4.01
Fukui	162	41.62	44.83	3.20	3.09	15.43	11.11	70.37	1.85	14.81	11.11	72.22	-1.23	-0.62	0.00	1.85
Fukuoka	466	36.51	40.74	4.24	4.29	21.89	15.02	58.80	5.36	15.24	13.73	65.67	1.07	-6.65	-1.29	6.87
Fukushima	1,579	45.18	41.74	-3.44	0.32	13.30	15.07	71.31	0.51	14.25	14.00	71.25	0.19	0.95	-1.08	-0.06
Gifu	449	44.71	41.04	-3.67	1.11	14.70	13.14	71.05	5.35	11.58	14.70	68.37	4.23	-3.12	1.56	-2.67
Gunma	918	52.24	50.97	-1.26	1.53	5.45	10.13	82.90	2.18	4.47	8.28	85.08	0.65	-0.98	-1.85	2.18
Hiroshima	569	35.43	38.94	3.51	2.28	17.40	21.97	58.35	1.76	10.19	21.27	66.78	-0.53	-7.21	-0.70	8.44
Hokkaido	16,205	46.44	42.42	-4.02	2.46	19.28	14.36	63.91	3.21	20.56	14.11	62.12	0.75	1.28	-0.25	-1.79
Hyōgo	1,091	40.87	41.83	0.97	2.02	14.48	17.60	65.90	1.28	11.37	19.43	67.92	-0.73	-3.12	1.83	2.02
Ibaraki	1,878	21.21	22.81	1.60	6.50	50.91	29.39	13.21	6.82	42.81	31.84	18.53	0.32	-8.09	2.45	5.32
Ishikawa	450	50.11	49.14	-0.97	1.11	4.67	9.11	85.11	0.89	6.89	7.11	85.11	-0.22	2.22	-2.00	0.00
Iwate	2,549	55.68	53.09	-2.58	0.12	4.83	7.22	87.84	0.16	6.04	6.39	87.41	0.04	1.22	-0.82	-0.43
Kagawa	69	35.46	39.55	4.09	8.70	17.39	17.39	56.52	5.80	11.59	18.84	63.77	-2.90	-5.80	1.45	7.25
Kagoshima	1,201	40.37	44.00	3.63	4.41	13.07	20.32	62.20	0.92	9.91	18.48	70.69	-3.50	-3.16	-1.83	8.49
Kanagawa	31	54.90	65.39	10.48	3.23	3.23	0.00	93.55	3.23	3.23	0.00	93.55	0.00	0.00	0.00	0.00
Kochi	174	43.70	45.86	2.16	4.02	6.32	9.77	79.89	3.45	5.75	8.05	82.76	-0.57	-0.57	-1.72	2.87
Kumamoto	621	34.52	37.49	2.97	1.93	23.03	21.58	53.46	4.35	16.10	16.26	63.29	2.42	-6.92	-5.31	9.82
Kyoto	438	46.23	46.64	0.42	1.14	6.85	13.01	79.00	1.14	8.22	12.79	77.85	0.00	1.37	-0.23	-1.14
Mie	337	37.74	42.09	4.35	1.78	21.07	16.91	60.24	0.00	7.42	24.93	67.66	-1.78	-13.65	8.01	7.42
Miyagi	1,621	33.47	32.43	-1.05	4.32	29.86	19.43	46.39	13.20	24.61	15.61	46.58	8.88	-5.24	-3.82	0.19
Miyazaki	209	39.03	38.89	-0.14	1.44	14.35	23.92	60.29	0.48	17.23	23.45	58.85	-0.96	2.87	-0.48	-1.44
Nagano	1,217	46.57	45.77	-0.80	2.88	12.98	10.93	73.21	4.44	11.59	10.11	73.87	1.56	-1.40	-0.82	0.66
Naoasaki	757	37.63	41.25	3.63	4.36	16.78	18.63	60.24	2.51	12.68	17.44	67.37	-1.85	-4.10	-1.19	7.13
Nara	141	44.79	50.07	5.28	0.00	7.09	9.93	82.98	0.00	2.13	7.80	90.07	0.00	-4.96	-2.13	7.09
Niigata	2,383	51.28	45.97	-5.32	1.17	8.02	7.60	83.22	1.80	9.32	11.25	77.63	0.63	1.30	3.65	-5.58
Oita	621	40.23	42.27	2.04	2.09	9.18	15.14	73.59	0.48	10.47	12.24	76.81	-1.61	1.29	-2.90	3.22
Okayama	531	36.62	37.24	0.62	2.45	16.95	21.66	58.95	1.69	19.02	19.02	60.26	-0.75	2.07	-2.64	1.32
Okinawa	247	22.61	25.57	2.97	23.89	38.06	13.36	24.70	17.41	36.84	19.03	26.72	-6.48	-1.21	5.67	2.02
Osaka	54	47.54	50.70	3.17	0.00	5.56	11.11	83.33	0.00	1.85	11.11	87.04	0.00	-3.70	0.00	3.70
Saga	439	35.97	40.71	4.74	3.64	17.77	19.82	58.77	3.19	11.62	17.54	67.65	-0.46	-6.15	-2.28	8.88
Saitama	85	51.87	54.53	2.66	4.71	11.76	4.71	78.82	4.71	11.76	1.18	82.35	0.00	0.00	-3.53	3.53
Shiga	512	33.01	36.70	3.69	6.05	30.08	19.92	43.95	1.56	29.69	15.63	53.13	-4.49	-0.39	-4.30	9.18
Shimane	313	39.61	42.92	3.32	0.32	13.42	16.29	69.97	0.00	10.86	13.42	75.72	-0.32	-2.56	-2.88	5.75
Shizuoka	352	44.53	45.82	1.29	11.08	4.83	12.50	71.59	11.08	3.41	11.08	74.43	0.00	-1.42	-1.42	2.84
Tochigi	1,938	38.69	38.43	-0.26	3.35	20.59	15.38	60.68	4.75	21.05	16.87	57.33	1.39	0.46	1.50	-3.35
Tokushima	102	45.90	48.52	2.62	1.96	12.75	8.82	76.47	5.88	7.84	8.82	77.45	3.92	-4.90	0.00	0.98
Tokyo	6	63.33	67.67	4.33	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
Tottori	438	35.32	34.16	-1.16	6.16	23.06	16.21	54.57	4.34	26.48	18.04	51.14	-1.83	3.42	1.83	-3.42
Toyama	900	40.66	35.82	-4.84	6.11	16.11	11.22	66.56	10.33	14.56	14.56	60.56	4.22	-1.56	3.33	-6.00
Wakayama	63	47.21	50.37	3.16	0.00	1.59	6.35	92.06	0.00	0.00	9.52	90.48	0.00	-1.59	3.17	-1.59
Yamagata	1,305	47.97	40.61	-7.36	0.54	14.10	10.73	74.64	2.38	15.71	14.18	67.74	1.84	1.61	3.45	-6.90
Yamaguchi	692	39.05	42.94	3.89	3.90	12.57	15.90	67.63	2.02	11.27	11.56	75.15	-1.88	-1.30	-4.34	7.51
Yamanashi	251	52.51	52.61	0.10	0.40	5.98	10.76	82.87	0.00	9.16	13.15	77.69	-0.40	3.19	2.39	-5.18
Japan - All	48,010	43.76	42.07	-1.70	2.67	17.51	14.67	65.15	3.28	16.98	14.45	65.30	0.60	-0.53	-0.23	0.15

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Japan

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Japan

Appendix 11: Laos

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Laos		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Attapu	704	39.83	39.90	0.07	47	46	98	513	37	75	121	471	-10	29	23	-42
Bokeo	2,282	53.78	46.13	-7.65	34	84	101	2,063	102	131	211	1,838	68	47	110	-225
Bolikhamxai	2,598	45.59	43.04	-2.55	147	214	189	2,048	97	261	346	1,894	-50	47	157	-154
Champasak	2,816	20.76	19.35	-1.41	1,396	280	223	917	1,315	458	300	743	-81	178	77	-174
Houaphan	3,495	60.56	58.44	-2.13	1	16	62	3,416	0	31	126	3,338	-1	15	64	-78
Khammouan	1,856	35.51	33.64	-1.86	370	170	193	1,123	363	219	215	1,059	-7	49	22	-64
Louang Namtha	1,002	56.89	52.09	-4.80	4	11	28	959	3	17	57	925	-1	6	29	-34
Louangphrabang	5,646	57.26	56.27	-1.00	3	25	95	5,523	4	59	176	5,407	1	34	81	-116
Oudômxai	2,667	55.67	51.77	-3.90	2	21	42	2,602	1	28	118	2,520	-1	7	76	-82
Phongsali	2,700	54.68	57.55	2.86	0	2	75	2,623	0	8	87	2,605	0	6	12	-18
Saravan	1,692	34.30	33.83	-0.47	318	144	150	1,080	276	143	231	1,042	-42	-1	81	-38
Savannakhet	5,683	31.16	32.46	1.30	1,453	573	556	3,101	1,282	558	701	3,142	-171	-15	145	41
Vientiane	3,763	45.93	39.46	-6.47	255	327	373	2,808	204	414	616	2,529	-51	87	243	-279
Vientiane [prefecture]	2,006	29.45	27.31	-2.14	474	373	258	901	378	441	371	816	-96	68	113	-85
Xaignabouri	3,905	54.22	47.24	-6.98	92	111	154	3,548	116	190	304	3,295	24	79	150	-253
Xaisômboun	945	54.37	51.74	-2.62	1	14	35	895	1	18	72	854	0	4	37	-41
Xékong	423	45.61	41.50	-4.12	0	9	21	393	4	38	79	302	4	29	58	-91
Xiangkhoang	1,781	51.03	52.51	1.48	103	63	77	1,538	120	43	89	1,529	17	-20	12	-9
Laos - All	45,963	46.17	43.93	-2.24	4,699	2,483	2,730	36,051	4,303	3,131	4,220	34,309	-396	648	1,490	-1,742

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Laos		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Attapu	704	39.83	39.90	0.07	6.68	6.53	13.92	72.87	5.26	10.65	17.19	66.90	-1.42	4.12	3.27	-5.97
Bokeo	2,282	53.78	46.13	-7.65	1.49	3.68	4.43	90.40	4.47	5.74	9.25	80.54	2.98	2.06	4.82	-9.86
Bolikhamxai	2,598	45.59	43.04	-2.55	5.66	8.24	7.27	78.83	3.73	10.05	13.32	72.90	-1.92	1.81	6.04	-5.93
Champasak	2,816	20.76	19.35	-1.41	49.57	9.94	7.92	32.56	46.70	16.26	10.65	26.39	-2.88	6.32	2.73	-6.18
Houaphan	3,495	60.56	58.44	-2.13	0.03	0.46	1.77	97.74	0.00	0.89	3.61	95.51	-0.03	0.43	1.83	-2.23
Khammouan	1,856	35.51	33.64	-1.86	19.94	9.16	10.40	60.51	19.56	11.80	11.58	57.06	-0.38	2.64	1.19	-3.45
Louang Namtha	1,002	56.89	52.09	-4.80	0.40	1.10	2.79	95.71	0.30	1.70	5.69	92.32	-0.10	0.60	2.89	-3.39
Louangphrabang	5,646	57.26	56.27	-1.00	0.05	0.44	1.68	97.82	0.07	1.04	3.12	95.77	0.02	0.60	1.43	-2.05
Oudomxai	2,667	55.67	51.77	-3.90	0.07	0.79	1.57	97.56	0.04	1.05	4.42	94.49	-0.04	0.26	2.85	-3.07
Phongsali	2,700	54.68	57.55	2.86	0.00	0.07	2.78	97.15	0.00	0.30	3.22	96.48	0.00	0.22	0.44	-0.67
Saravan	1,692	34.30	33.83	-0.47	18.79	8.51	8.87	63.83	16.31	8.45	13.65	61.58	-2.48	-0.06	4.79	-2.25
Savannakhet	5,683	31.16	32.46	1.30	25.57	10.08	9.78	54.57	22.56	9.82	12.34	55.29	-3.01	-0.26	2.55	0.72
Vientiane	3,763	45.93	39.46	-6.47	6.78	8.69	9.91	74.62	5.42	11.00	16.37	67.21	-1.36	2.31	6.46	-7.41
Vientiane [prefecture]	2,006	29.45	27.31	-2.14	23.63	18.59	12.86	44.92	18.84	21.98	18.49	40.68	-4.79	3.39	5.63	-4.24
Xaignabouri	3,905	54.22	47.24	-6.98	2.36	2.84	3.94	90.86	2.97	4.87	7.78	84.38	0.61	2.02	3.84	-6.48
Xaisomboun	945	54.37	51.74	-2.62	0.11	1.48	3.70	94.71	0.11	1.90	7.62	90.37	0.00	0.42	3.92	-4.34
Xekong	423	45.61	41.50	-4.12	0.00	2.13	4.96	92.91	0.95	8.98	18.68	71.40	0.95	6.86	13.71	-21.51
Xiangkhoang	1,781	51.03	52.51	1.48	5.78	3.54	4.32	86.36	6.74	2.41	5.00	85.85	0.95	-1.12	0.67	-0.51
Laos - All	45,963	46.17	43.93	-2.24	10.22	5.40	5.94	78.44	9.36	6.81	9.18	74.65	-0.86	1.41	3.24	-3.79

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Laos

0 90 180 360
Kilometers

Source Data: Zomer et al., 2014

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Laos

Source Data: Zomer et al., 2014

Appendix 12: Malaysia

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Malaysia		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Johor	11,552	44.13	43.83	-0.31	99	885	1,568	9,000	250	1,155	1,592	8,555	151	270	24	-445
Kedah	4,839	39.13	39.26	0.13	42	505	1,163	3,129	65	804	793	3,177	23	299	-370	48
Kelantan	5,224	45.65	42.10	-3.54	72	766	523	3,863	94	783	666	3,681	22	17	143	-182
Melaka	921	37.88	44.52	6.64	12	108	209	592	3	65	151	702	-9	-43	-58	110
Negeri Sembilan	4,024	40.84	44.06	3.22	85	402	682	2,855	117	290	554	3,063	32	-112	-128	208
Pahang	13,764	49.50	52.12	2.62	98	872	1,389	11,405	80	600	1,176	11,908	-18	-272	-213	503
Perak	7,742	45.27	46.31	1.04	221	711	822	5,988	99	718	797	6,128	-122	7	-25	140
Perlis	515	28.23	27.83	-0.40	86	144	110	175	23	250	90	152	-63	106	-20	-23
Pulau Pinang	123	32.02	23.58	-8.44	9	37	17	60	24	43	26	30	15	6	9	-30
Putrajaya	51	9.27	8.78	-0.49	38	8	2	3	41	6	4	0	3	-2	2	-3
Sabah	26,046	49.35	58.45	9.10	70	1,120	2,272	22,584	15	359	1,169	24,503	-55	-761	-1,103	1,919
Sarawak	25,664	49.62	57.98	8.36	145	1,144	2,115	22,260	95	514	1,119	23,936	-50	-630	-996	1,676
Selangor	2,980	37.62	35.32	-2.29	255	473	459	1,793	212	613	509	1,646	-43	140	50	-147
Trengganu	3,336	40.38	42.43	2.04	106	371	518	2,341	98	356	450	2,432	-8	-15	-68	91
Malaysia - All	106,780	46.76	51.37	4.61	1,338	7,546	11,849	86,048	1,216	6,556	9,096	89,913	-122	-990	-2,753	3,865

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Malaysia		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		Percent Tree Cover (%)			Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Johor	11,552	44.13	43.83	-0.31	0.86	7.66	13.57	77.91	2.16	10.00	13.78	74.06	1.31	2.34	0.21	-3.85
Kedah	4,839	39.13	39.26	0.13	0.87	10.44	24.03	64.66	1.34	16.62	16.39	65.65	0.48	6.18	-7.65	0.99
Kelantan	5,224	45.65	42.10	-3.54	1.38	14.66	10.01	73.95	1.80	14.99	12.75	70.46	0.42	0.33	2.74	-3.48
Melaka	921	37.88	44.52	6.64	1.30	11.73	22.69	64.28	0.33	7.06	16.40	76.22	-0.98	-4.67	-6.30	11.94
Negeri Sembilan	4,024	40.84	44.06	3.22	2.11	9.99	16.95	70.95	2.91	7.21	13.77	76.12	0.80	-2.78	-3.18	5.17
Pahang	13,764	49.50	52.12	2.62	0.71	6.34	10.09	82.86	0.58	4.36	8.54	86.52	-0.13	-1.98	-1.55	3.65
Perak	7,742	45.27	46.31	1.04	2.85	9.18	10.62	77.34	1.28	9.27	10.29	79.15	-1.58	0.09	-0.32	1.81
Perlis	515	28.23	27.83	-0.40	16.70	27.96	21.36	33.98	4.47	48.54	17.48	29.51	-12.23	20.58	-3.88	-4.47
Pulau Pinang	123	32.02	23.58	-8.44	7.32	30.08	13.82	48.78	19.51	34.96	21.14	24.39	12.20	4.88	7.32	-24.39
Putrajaya	51	9.27	8.78	-0.49	74.51	15.69	3.92	5.88	80.39	11.76	7.84	0.00	5.88	-3.92	3.92	-5.88
Sabah	26,046	49.35	58.45	9.10	0.27	4.30	8.72	86.71	0.06	1.38	4.49	94.08	-0.21	-2.92	-4.23	7.37
Sarawak	25,664	49.62	57.98	8.36	0.56	4.46	8.24	86.74	0.37	2.00	4.36	93.27	-0.19	-2.45	-3.88	6.53
Selangor	2,980	37.62	35.32	-2.29	8.56	15.87	15.40	60.17	7.11	20.57	17.08	55.24	-1.44	4.70	1.68	-4.93
Trengganu	3,336	40.38	42.43	2.04	3.18	11.12	15.53	70.17	2.94	10.67	13.49	72.90	-0.24	-0.45	-2.04	2.73
Malaysia - All	106,780	46.76	51.37	4.61	1.25	7.07	11.10	80.58	1.14	6.14	8.52	84.20	-0.11	-0.93	-2.58	3.62

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Malaysia

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Malaysia

Appendix 13: Mongolia

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Mongolia		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Arhangay	26,770	4.49	4.38	-0.12	24,466	1,991	274	39	24,033	2,085	502	150	-433	94	228	111
Bayan-Ölgii	3,922	2.44	2.32	-0.12	3,886	35	1	0	3,881	41	0	0	-5	6	-1	0
Bayanhongor	10,085	2.40	2.02	-0.38	10,044	39	2	0	10,040	45	0	0	-4	6	-2	0
Bulgan	16,841	5.07	5.57	0.49	15,533	1,217	86	5	14,714	1,651	416	60	-819	434	330	55
Darhan-Uul	1,227	6.07	5.91	-0.16	1,115	91	16	5	1,101	96	17	13	-14	5	1	8
Domod	58,423	3.89	3.37	-0.52	57,939	458	23	3	58,062	346	14	1	123	-112	-9	-2
Domogovi	205	1.09	1.06	-0.03	205	0	0	0	205	0	0	0	0	0	0	0
Dundgovi	10	0.90	1.50	0.60	10	0	0	0	10	0	0	0	0	0	0	0
Dzavhan	3,173	5.78	6.01	0.23	2,809	344	20	0	2,692	418	56	7	-117	74	36	7
Govi-Altay	2,621	1.42	1.69	0.27	2,609	12	0	0	2,617	4	0	0	8	-8	0	0
Govisumber	135	1.69	0.05	-1.64	135	0	0	0	135	0	0	0	0	0	0	0
Hentiy	33,308	4.57	4.21	-0.37	30,981	2,070	242	15	30,347	2,438	429	94	-634	368	187	79
Hovd	5,330	1.69	1.89	0.19	5,242	83	5	0	5,261	60	9	0	19	-23	4	0
Hövsgöl	26,259	6.02	7.22	1.21	22,671	3,084	477	27	20,382	4,135	1,407	335	-2,289	1,051	930	308
Ömnögovii	267	1.12	1.59	0.47	267	0	0	0	267	0	0	0	0	0	0	0
Orhon	291	4.42	4.14	-0.27	278	10	3	0	276	12	3	0	-2	2	0	0
Övörhangay	6,980	3.34	2.90	-0.45	6,599	314	52	15	6,611	263	79	27	12	-51	27	12
Selenge	12,164	7.19	6.73	-0.46	10,315	1,538	226	85	10,268	1,452	309	135	-47	-86	83	50
Sühbaatar	19,054	3.02	2.74	-0.27	19,050	4	0	0	19,051	3	0	0	1	-1	0	0
Töv	11,638	4.99	4.89	-0.11	10,590	839	170	39	10,261	936	309	132	-329	97	139	93
Ulaanbaatar	1,181	5.84	4.23	-1.61	1,044	96	36	5	1,067	83	23	8	23	-13	-13	3
Uvs	4,672	3.85	4.44	0.60	4,466	196	10	0	4,273	343	49	7	-193	147	39	7
Mongolia - All	244,556	4.37	4.28	-0.09	230,256	12,421	1,643	238	225,556	14,411	3,622	969	-4,700	1,990	1,979	731

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Mongolia		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Arhangay	26,770	4.49	4.38	-0.12	91.39	7.44	1.02	0.15	89.78	7.79	1.88	0.56	-1.62	0.35	0.85	0.41
Bayan-Ölgiy	3,922	2.44	2.32	-0.12	99.08	0.89	0.03	0.00	98.96	1.05	0.00	0.00	-0.13	0.15	-0.03	0.00
Bayanhongor	10,085	2.40	2.02	-0.38	99.59	0.39	0.02	0.00	99.55	0.45	0.00	0.00	-0.04	0.06	-0.02	0.00
Bulgan	16,841	5.07	5.57	0.49	92.23	7.23	0.51	0.03	87.37	9.80	2.47	0.36	-4.86	2.58	1.96	0.33
Darhan-Uul	1,227	6.07	5.91	-0.16	90.87	7.42	1.30	0.41	89.73	7.82	1.39	1.06	-1.14	0.41	0.08	0.65
Domod	58,423	3.89	3.37	-0.52	99.17	0.78	0.04	0.01	99.38	0.59	0.02	0.00	0.21	-0.19	-0.02	0.00
Domogovi	205	1.09	1.06	-0.03	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dundgovi	10	0.90	1.50	0.60	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dzavhan	3,173	5.78	6.01	0.23	88.53	10.84	0.63	0.00	84.84	13.17	1.76	0.22	-3.69	2.33	1.13	0.22
Govi-Altay	2,621	1.42	1.69	0.27	99.54	0.46	0.00	0.00	99.85	0.15	0.00	0.00	0.31	-0.31	0.00	0.00
Govisumber	135	1.69	0.05	-1.64	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hentiy	33,308	4.57	4.21	-0.37	93.01	6.21	0.73	0.05	91.11	7.32	1.29	0.28	-1.90	1.10	0.56	0.24
Hovd	5,330	1.69	1.89	0.19	98.35	1.56	0.09	0.00	98.71	1.13	0.17	0.00	0.36	-0.43	0.08	0.00
Hövsööl	26,259	6.02	7.22	1.21	86.34	11.74	1.82	0.10	77.62	15.75	5.36	1.28	-8.72	4.00	3.54	1.17
Ömnögov	267	1.12	1.59	0.47	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Orhon	291	4.42	4.14	-0.27	95.53	3.44	1.03	0.00	94.85	4.12	1.03	0.00	-0.69	0.69	0.00	0.00
Övörhangay	6,980	3.34	2.90	-0.45	94.54	4.50	0.74	0.21	94.71	3.77	1.13	0.39	0.17	-0.73	0.39	0.17
Selenge	12,164	7.19	6.73	-0.46	84.80	12.64	1.86	0.70	84.41	11.94	2.54	1.11	-0.39	-0.71	0.68	0.41
Sühbaatar	19,054	3.02	2.74	-0.27	99.98	0.02	0.00	0.00	99.99	0.02	0.00	0.00	0.01	-0.01	0.00	0.00
Töv	11,638	4.99	4.89	-0.11	91.00	7.21	1.46	0.34	88.17	8.04	2.66	1.13	-2.83	0.83	1.19	0.80
Ulaanbaatar	1,181	5.84	4.23	-1.61	88.40	8.13	3.05	0.42	90.35	7.03	1.95	0.68	1.95	-1.10	-1.10	0.25
Uvs	4,672	3.85	4.44	0.60	95.59	4.20	0.21	0.00	91.46	7.34	1.05	0.15	-4.13	3.15	0.83	0.15
Mongolia - All	244,556	4.37	4.28	-0.09	94.15	5.08	0.67	0.10	92.23	5.89	1.48	0.40	-1.92	0.81	0.81	0.30

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Mongolia

0 205 410 820
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Mongolia

Appendix 14: Myanmar

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Myanmar		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Ayeyarwady	21,228	9.52	10.06	0.54	15,716	3,223	1,080	1,209	13,873	5,716	1,151	488	-1,843	2,493	71	-721
Bago	16,906	11.59	10.24	-1.35	12,705	1,425	615	2,161	12,951	1,773	622	1,560	246	348	7	-601
Chin	4,413	53.53	38.90	-14.63	72	69	106	4,166	81	89	477	3,766	9	20	371	-400
Kachin	9,189	49.71	48.86	-0.86	1,081	576	561	6,971	1,038	672	660	6,819	-43	96	99	-152
Kayah	1,333	30.31	26.04	-4.27	415	77	181	660	446	209	149	529	31	132	-32	-131
Kayin	8,250	36.23	33.56	-2.67	1,892	757	651	4,950	1,671	1,213	877	4,489	-221	456	226	-461
Magway	27,480	6.00	4.44	-1.56	22,965	2,469	1,355	691	24,513	2,082	568	317	1,548	-387	-787	-374
Mandalay	22,833	8.36	6.97	-1.39	18,725	1,342	859	1,907	19,275	1,678	468	1,412	550	336	-391	-495
Mon	5,040	22.17	21.14	-1.03	2,435	326	330	1,949	2,276	504	491	1,769	-159	178	161	-180
Naypyitaw	126	13.50	3.02	-10.48	58	39	18	11	125	1	0	0	67	-38	-18	-11
Rakhine	11,324	37.16	25.10	-12.06	3,371	905	511	6,537	3,273	1,354	1,862	4,835	-98	449	1,351	-1,702
Sagaing	29,873	12.16	11.44	-0.71	21,275	2,678	2,031	3,889	21,690	3,737	1,337	3,109	415	1,059	-694	-780
Shan	25,192	39.06	36.31	-2.75	4,372	1,596	1,927	17,297	4,996	1,741	2,695	15,760	624	145	768	-1,537
Tanintharyi	3,448	37.21	35.28	-1.93	338	296	450	2,364	262	354	667	2,165	-76	58	217	-199
Yangon	6,328	5.73	6.40	0.68	5,649	326	92	261	5,598	447	68	215	-51	121	-24	-46
Myanmar - All	192,963	19.86	17.67	-2.19	111,070	16,104	10,767	55,023	112,069	21,570	12,092	47,233	999	5,466	1,325	-7,790

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Myanmar		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Ayeyarwady	21,228	9.52	10.06	0.54	74.03	15.18	5.09	5.70	65.35	26.93	5.42	2.30	-8.68	11.74	0.33	-3.40
Bago	16,906	11.59	10.24	-1.35	75.15	8.43	3.64	12.78	76.61	10.49	3.68	9.23	1.46	2.06	0.04	-3.55
Chin	4,413	53.53	38.90	-14.63	1.63	1.56	2.40	94.40	1.84	2.02	10.81	85.34	0.20	0.45	8.41	-9.06
Kachin	9,189	49.71	48.86	-0.86	11.76	6.27	6.11	75.86	11.30	7.31	7.18	74.21	-0.47	1.04	1.08	-1.65
Kayah	1,333	30.31	26.04	-4.27	31.13	5.78	13.58	49.51	33.46	15.68	11.18	39.69	2.33	9.90	-2.40	-9.83
Kayin	8,250	36.23	33.56	-2.67	22.93	9.18	7.89	60.00	20.25	14.70	10.63	54.41	-2.68	5.53	2.74	-5.59
Magway	27,480	6.00	4.44	-1.56	83.57	8.98	4.93	2.51	89.20	7.58	2.07	1.15	5.63	-1.41	-2.86	-1.36
Mandalay	22,833	8.36	6.97	-1.39	82.01	5.88	3.76	8.35	84.42	7.35	2.05	6.18	2.41	1.47	-1.71	-2.17
Mon	5,040	22.17	21.14	-1.03	48.31	6.47	6.55	38.67	45.16	10.00	9.74	35.10	-3.15	3.53	3.19	-3.57
Naypyitaw	126	13.50	3.02	-10.48	46.03	30.95	14.29	8.73	99.21	0.79	0.00	0.00	53.18	-30.16	-14.29	-8.73
Rakhine	11,324	37.16	25.10	-12.06	29.77	7.99	4.51	57.73	28.90	11.96	16.44	42.70	-0.87	3.97	11.93	-15.03
Sagaing	29,873	12.16	11.44	-0.71	71.22	8.96	6.80	13.02	72.61	12.51	4.48	10.41	1.39	3.55	-2.32	-2.61
Shan	25,192	39.06	36.31	-2.75	17.35	6.34	7.65	68.66	19.83	6.91	10.70	62.56	2.48	0.58	3.05	-6.10
Tanintharyi	3,448	37.21	35.28	-1.93	9.80	8.58	13.05	68.56	7.60	10.27	19.34	62.79	-2.20	1.68	6.29	-5.77
Yangon	6,328	5.73	6.40	0.68	89.27	5.15	1.45	4.12	88.46	7.06	1.07	3.40	-0.81	1.91	-0.38	-0.73
Myanmar - All	192,963	19.86	17.67	-2.19	57.56	8.35	5.58	28.52	58.08	11.18	6.27	24.48	0.52	2.83	0.69	-4.04

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

≤10	≤40
≤20	≤50
≤30	≤90

Myanmar

0 205 410 820
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Myanmar

Appendix 15: Nepal

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Nepal		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Central	11,611	17.44	16.70	-0.75	4,210	3,367	2,446	1,588	4,667	2,920	2,631	1,393	457	-447	185	-195
East	11,186	17.18	20.47	3.29	4,889	2,616	1,795	1,886	3,468	3,159	2,188	2,371	-1,421	543	393	485
Far-Western	6,651	20.08	19.63	-0.44	1,827	1,977	1,559	1,288	1,962	1,741	1,852	1,096	135	-236	293	-192
Mid-Western	10,383	19.07	18.02	-1.04	3,277	2,868	2,327	1,911	3,495	2,706	2,751	1,431	218	-162	424	-480
West	9,508	20.13	19.36	-0.78	2,742	2,786	2,137	1,843	3,087	2,305	2,644	1,472	345	-481	507	-371
Nepal - All	49,339	18.60	18.74	0.14	16,945	13,614	10,264	8,516	16,679	12,831	12,066	7,763	-266	-783	1,802	-753

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Nepal		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Central	11,611	17.44	16.70	-0.75	36.26	29.00	21.07	13.68	40.19	25.15	22.66	12.00	3.94	-3.85	1.59	-1.68
East	11,186	17.18	20.47	3.29	43.71	23.39	16.05	16.86	31.00	28.24	19.56	21.20	-12.70	4.85	3.51	4.34
Far-Western	6,651	20.08	19.63	-0.44	27.47	29.73	23.44	19.37	29.50	26.18	27.85	16.48	2.03	-3.55	4.41	-2.89
Mid-Western	10,383	19.07	18.02	-1.04	31.56	27.62	22.41	18.41	33.66	26.06	26.50	13.78	2.10	-1.56	4.08	-4.62
West	9,508	20.13	19.36	-0.78	28.84	29.30	22.48	19.38	32.47	24.24	27.81	15.48	3.63	-5.06	5.33	-3.90
Nepal - All	49,339	18.60	18.74	0.14	34.34	27.59	20.80	17.26	33.81	26.01	24.46	15.73	-0.54	-1.59	3.65	-1.53

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Nepal

0 50 100 200
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Nepal

Appendix 16: New Zealand

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

New Zealand		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Auckland	1,504	34.51	40.77	6.26	4	108	482	910	2	14	226	1,262	-2	-94	-256	352
Bay of Plenty	1,536	34.00	35.89	1.89	4	80	540	912	0	53	471	1,012	-4	-27	-69	100
Canterbury	14,733	13.90	21.17	7.27	5,684	6,819	1,699	531	2,148	5,743	4,263	2,579	-3,536	-1,076	2,564	2,048
Gisborne	2,120	24.94	30.11	5.16	38	793	888	401	7	311	1,095	707	-31	-482	207	306
Hawke's Bay	5,352	25.70	28.69	2.99	52	1,759	2,302	1,239	3	960	2,906	1,483	-49	-799	604	244
Manawatu-Wanganui	10,855	25.90	31.98	6.08	53	3,659	4,715	2,428	2	407	5,724	4,722	-51	-3,252	1,009	2,294
Marlborough	687	10.61	18.02	7.41	465	175	31	16	99	409	123	56	-366	234	92	40
Northland	5,107	35.57	37.04	1.47	25	418	1,758	2,906	19	211	1,692	3,185	-6	-207	-66	279
Otago	9,687	13.76	19.50	5.74	4,697	3,062	1,516	412	2,413	3,625	1,982	1,667	-2,284	563	466	1,255
Southland	8,779	22.15	31.48	9.32	466	3,928	3,207	1,178	56	1,356	3,218	4,149	-410	-2,572	11	2,971
Taranaki	2,846	37.66	42.64	4.98	0	192	475	2,179	2	10	414	2,420	2	-182	-61	241
Tasman	149	31.97	36.63	4.66	0	29	47	73	0	9	45	95	0	-20	-2	22
Waikato	10,305	32.91	37.24	4.33	79	827	3,377	6,022	2	381	2,044	7,878	-77	-446	-1,333	1,856
Wellington	2,746	27.39	30.42	3.03	0	783	1,079	884	0	159	1,614	973	0	-624	535	89
West Coast	352	32.67	39.63	6.96	3	44	127	178	1	13	69	269	-2	-31	-58	91
New Zealand - All	76,758	23.91	29.54	5.64	11,570	22,676	22,243	20,269	4,754	13,661	25,886	32,457	-6,816	-9,015	3,643	12,188

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

New Zealand		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		Percent Tree Cover (%)			Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Auckland	1,504	34.51	40.77	6.26	0.27	7.18	32.05	60.51	0.13	0.93	15.03	83.91	-0.13	-6.25	-17.02	23.40
Bay of Plenty	1,536	34.00	35.89	1.89	0.26	5.21	35.16	59.38	0.00	3.45	30.66	65.89	-0.26	-1.76	-4.49	6.51
Canterbury	14,733	13.90	21.17	7.27	38.58	46.28	11.53	3.60	14.58	38.98	28.94	17.51	-24.00	-7.30	17.40	13.90
Gisborne	2,120	24.94	30.11	5.16	1.79	37.41	41.89	18.92	0.33	14.67	51.65	33.35	-1.46	-22.74	9.76	14.43
Hawke's Bay	5,352	25.70	28.69	2.99	0.97	32.87	43.01	23.15	0.06	17.94	54.30	27.71	-0.92	-14.93	11.29	4.56
Manawatu-Wanganui	10,855	25.90	31.98	6.08	0.49	33.71	43.44	22.37	0.02	3.75	52.73	43.50	-0.47	-29.96	9.30	21.13
Marlborough	687	10.61	18.02	7.41	67.69	25.47	4.51	2.33	14.41	59.53	17.90	8.15	-53.28	34.06	13.39	5.82
Northland	5,107	35.57	37.04	1.47	0.49	8.18	34.42	56.90	0.37	4.13	33.13	62.37	-0.12	-4.05	-1.29	5.46
Otago	9,687	13.76	19.50	5.74	48.49	31.61	15.65	4.25	24.91	37.42	20.46	17.21	-23.58	5.81	4.81	12.96
Southland	8,779	22.15	31.48	9.32	5.31	44.74	36.53	13.42	0.64	15.45	36.66	47.26	-4.67	-29.30	0.13	33.84
Taranaki	2,846	37.66	42.64	4.98	0.00	6.75	16.69	76.56	0.07	0.35	14.55	85.03	0.07	-6.39	-2.14	8.47
Tasman	149	31.97	36.63	4.66	0.00	19.46	31.54	48.99	0.00	6.04	30.20	63.76	0.00	-13.42	-1.34	14.77
Waikato	10,305	32.91	37.24	4.33	0.77	8.03	32.77	58.44	0.02	3.70	19.84	76.45	-0.75	-4.33	-12.94	18.01
Wellington	2,746	27.39	30.42	3.03	0.00	28.51	39.29	32.19	0.00	5.79	58.78	35.43	0.00	-22.72	19.48	3.24
West Coast	352	32.67	39.63	6.96	0.85	12.50	36.08	50.57	0.28	3.69	19.60	76.42	-0.57	-8.81	-16.48	25.85
New Zealand - All	76,758	23.91	29.54	5.64	15.07	29.54	28.98	26.41	6.19	17.80	33.72	42.29	-8.88	-11.74	4.75	15.88

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

≤10	≤40
≤20	≤50
≤30	≤90

New Zealand

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

New Zealand

Appendix 17: North Korea

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

North Korea		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Chagang-do	540	32.84	31.00	-1.83	140	108	57	235	134	128	48	230	-6	20	-9	-5
Hamgyŏng-bukto	1,773	27.10	26.15	-0.95	579	347	199	648	686	273	176	638	107	-74	-23	-10
Hamgyŏng-namdo	2,361	18.57	18.44	-0.13	1,060	578	267	456	1,149	482	248	482	89	-96	-19	26
Hwanghae-bukto	2,599	9.09	9.08	-0.01	2,031	393	101	74	1,959	473	86	81	-72	80	-15	7
Hwanghae-namdo	5,320	8.54	9.02	0.48	4,031	922	233	134	3,946	902	291	181	-85	-20	58	47
Kaesŏng	443	6.42	8.09	1.67	399	41	3	0	349	81	8	5	-50	40	5	5
Kangwŏn-do	925	15.92	15.55	-0.37	475	244	89	117	480	269	63	113	5	25	-26	-4
Kumgangsan	21	34.29	30.00	-4.29	10	0	0	11	10	0	0	11	0	0	0	0
P'yŏngan-bukto	2,005	9.83	11.28	1.44	1,510	308	87	100	1,233	571	94	107	-277	263	7	7
P'yŏngan-namdo	4,284	12.33	11.98	-0.35	2,651	1,054	299	280	2,457	1,373	214	240	-194	319	-85	-40
P'yŏngyang	1,659	13.54	12.81	-0.73	873	475	214	97	867	556	160	76	-6	81	-54	-21
Rasŏn	101	17.52	17.12	-0.41	46	22	13	20	43	20	19	19	-3	-2	6	-1
Ryanggang	610	44.51	44.16	-0.35	65	70	31	444	56	72	33	449	-9	2	2	5
Sinŭiju	19	10.79	12.63	1.84	8	11	0	0	4	15	0	0	-4	4	0	0
North Korea - All	22,660	14.17	14.16	-0.01	13,878	4,573	1,593	2,616	13,373	5,215	1,440	2,632	-505	642	-153	16

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

North Korea		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Chagang-do	540	32.84	31.00	-1.83	25.93	20.00	10.56	43.52	24.82	23.70	8.89	42.59	-1.11	3.70	-1.67	-0.93
Hamgyŏng-bukto	1,773	27.10	26.15	-0.95	32.66	19.57	11.22	36.55	38.69	15.40	9.93	35.98	6.04	-4.17	-1.30	-0.56
Hamgyŏng-namdo	2,361	18.57	18.44	-0.13	44.90	24.48	11.31	19.31	48.67	20.42	10.50	20.42	3.77	-4.07	-0.80	1.10
Hwanghae-bukto	2,599	9.09	9.08	-0.01	78.15	15.12	3.89	2.85	75.38	18.20	3.31	3.12	-2.77	3.08	-0.58	0.27
Hwanghae-namdo	5,320	8.54	9.02	0.48	75.77	17.33	4.38	2.52	74.17	16.96	5.47	3.40	-1.60	-0.38	1.09	0.88
Kaesŏng	443	6.42	8.09	1.67	90.07	9.26	0.68	0.00	78.78	18.28	1.81	1.13	-11.29	9.03	1.13	1.13
Kangwŏn-do	925	15.92	15.55	-0.37	51.35	26.38	9.62	12.65	51.89	29.08	6.81	12.22	0.54	2.70	-2.81	-0.43
Kumgangsan	21	34.29	30.00	-4.29	47.62	0.00	0.00	52.38	47.62	0.00	0.00	52.38	0.00	0.00	0.00	0.00
P'yŏngan-bukto	2,005	9.83	11.28	1.44	75.31	15.36	4.34	4.99	61.50	28.48	4.69	5.34	-13.82	13.12	0.35	0.35
P'yŏngan-namdo	4,284	12.33	11.98	-0.35	61.88	24.60	6.98	6.54	57.35	32.05	5.00	5.60	-4.53	7.45	-1.98	-0.93
P'yŏngyang	1,659	13.54	12.81	-0.73	52.62	28.63	12.90	5.85	52.26	33.51	9.64	4.58	-0.36	4.88	-3.25	-1.27
Rasŏn	101	17.52	17.12	-0.41	45.54	21.78	12.87	19.80	42.57	19.80	18.81	18.81	-2.97	-1.98	5.94	-0.99
Ryanggang	610	44.51	44.16	-0.35	10.66	11.48	5.08	72.79	9.18	11.80	5.41	73.61	-1.48	0.33	0.33	0.82
Sinŭiju	19	10.79	12.63	1.84	42.11	57.90	0.00	0.00	21.05	78.95	0.00	0.00	-21.05	21.05	0.00	0.00
North Korea - All	22,660	14.17	14.16	-0.01	61.24	20.18	7.03	11.54	59.02	23.01	6.35	11.62	-2.23	2.83	-0.68	0.07

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Source Data: Zomer et al., 2014

Tree Cover (%)

North Korea

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

North Korea

Source Data: Zomer et al., 2014

Appendix 18: Pakistan

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Pakistan		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Azad Kashmir	6,484	15.60	18.00	2.41	2,163	2,734	1,283	304	1,658	2,418	1,752	656	-505	-316	469	352
Baluchistan	32,500	0.37	0.70	0.33	32,479	21	0	0	32,452	48	0	0	-27	27	0	0
F.A.T.A.	8,782	3.06	4.92	1.87	8,020	565	161	36	7,718	775	228	61	-302	210	67	25
F.C.T.	290	6.69	7.07	0.38	245	35	10	0	240	32	15	3	-5	-3	5	3
N.W.F.P.	24,067	5.45	7.22	1.77	19,832	3,011	909	315	18,192	4,038	1,337	500	-1,640	1,027	428	185
Northern Areas	992	6.56	7.46	0.90	811	117	47	17	787	113	71	21	-24	-4	24	4
Punjab	135,330	4.33	4.78	0.45	130,684	4,374	254	19	130,769	4,103	357	102	85	-271	103	83
Sind	64,805	3.17	3.85	0.68	64,482	320	3	0	63,753	1,046	6	0	-729	726	3	0
Pakistan - All	273,250	3.92	4.62	0.70	258,717	11,177	2,667	691	255,570	12,573	3,766	1,343	-3,147	1,396	1,099	652

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Pakistan		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Azad Kashmir	6,484	15.60	18.00	2.41	33.36	42.17	19.79	4.69	25.57	37.29	27.02	10.12	-7.79	-4.87	7.23	5.43
Baluchistan	32,500	0.37	0.70	0.33	99.94	0.06	0.00	0.00	99.85	0.15	0.00	0.00	-0.08	0.08	0.00	0.00
F.A.T.A.	8,782	3.06	4.92	1.87	91.32	6.43	1.83	0.41	87.88	8.82	2.60	0.69	-3.44	2.39	0.76	0.28
F.C.T.	290	6.69	7.07	0.38	84.48	12.07	3.45	0.00	82.76	11.03	5.17	1.03	-1.72	-1.03	1.72	1.03
N.W.F.P.	24,067	5.45	7.22	1.77	82.40	12.51	3.78	1.31	75.59	16.78	5.56	2.08	-6.81	4.27	1.78	0.77
Northern Areas	992	6.56	7.46	0.90	81.75	11.79	4.74	1.71	79.34	11.39	7.16	2.12	-2.42	-0.40	2.42	0.40
Punjab	135,330	4.33	4.78	0.45	96.57	3.23	0.19	0.01	96.63	3.03	0.26	0.08	0.06	-0.20	0.08	0.06
Sind	64,805	3.17	3.85	0.68	99.50	0.49	0.00	0.00	98.38	1.61	0.01	0.00	-1.12	1.12	0.00	0.00
Pakistan - All	273,250	3.92	4.62	0.70	94.68	4.09	0.98	0.25	93.53	4.60	1.38	0.49	-1.15	0.51	0.40	0.24

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Pakistan

Source Data: Zomer et al., 2014

Sources: Esri, DigitalGlobe, GeoEye, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, © OpenStreetMap contributors, and the GIS User Community

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Pakistan

Source Data: Zomer et al., 2014

Appendix 19: Papua New Guinea

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Papua New Guinea		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Bougainville	166	62.45	71.30	8.84	0	0	0	166	0	0	0	166	0	0	0	0
Central	6,697	49.63	52.70	3.07	59	663	890	5,085	6	339	927	5,425	-53	-324	37	340
Chimbu	993	39.25	44.55	5.30	16	183	226	568	0	91	166	736	-16	-92	-60	168
East New Britain	2,055	61.60	67.74	6.13	0	6	20	2,029	0	3	6	2,046	0	-3	-14	17
East Sepik	14,603	44.26	46.62	2.35	40	1,972	2,283	10,308	170	1,797	2,071	10,565	130	-175	-212	257
Eastern Highlands	2,362	28.47	32.54	4.07	58	868	622	814	2	581	726	1,053	-56	-287	104	239
Enga	932	40.57	44.09	3.52	10	72	215	635	2	43	161	726	-8	-29	-54	91
Gulf	4,412	67.05	62.93	-4.11	1	30	121	4,260	0	38	181	4,193	-1	8	60	-67
Hela	1,114	47.61	52.38	4.77	17	51	144	902	1	50	54	1,009	-16	-1	-90	107
Jiwaka	1,058	40.03	45.37	5.34	1	51	247	759	1	17	150	890	0	-34	-97	131
Madang	5,039	53.32	57.63	4.31	54	282	325	4,378	28	205	335	4,471	-26	-77	10	93
Manus	304	62.03	67.93	5.89	0	0	1	303	0	0	0	304	0	0	-1	1
Milne Bay	2,657	50.74	51.65	0.91	84	344	263	1,966	24	302	299	2,032	-60	-42	36	66
Morobe	8,380	42.16	46.07	3.92	379	1,625	1,006	5,370	188	1,364	1,216	5,612	-191	-261	210	242
National Capital District	3	32.00	34.33	2.33	0	2	0	1	0	0	2	1	0	-2	2	0
New Ireland	887	63.29	67.65	4.36	1	1	17	868	2	0	5	880	1	-1	-12	12
Oro	5,058	56.89	58.96	2.08	1	154	339	4,564	19	132	332	4,575	18	-22	-7	11
Sandaun	8,632	49.34	52.23	2.89	33	683	837	7,079	154	521	652	7,305	121	-162	-185	226
Southern Highlands	1,919	52.18	55.19	3.01	4	109	309	1,497	8	27	237	1,647	4	-82	-72	150
West New Britain	3,025	65.21	69.92	4.71	3	11	26	2,985	0	4	30	2,991	-3	-7	4	6
Western	31,644	50.70	52.22	1.52	66	2,065	4,269	25,244	94	1,906	3,527	26,117	28	-159	-742	873
Western Highlands	1,130	35.31	39.75	4.44	2	146	314	668	0	64	242	824	-2	-82	-72	156
Papua New Guinea - All	103,070	49.85	52.29	2.44	829	9,318	12,474	80,450	699	7,484	11,319	83,569	-130	-1,834	-1,155	3,119

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Papua New Guinea		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Bougainville	166	62.45	71.30	8.84	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
Central	6,697	49.63	52.70	3.07	0.88	9.90	13.29	75.93	0.09	5.06	13.84	81.01	-0.79	-4.84	0.55	5.08
Chimbu	993	39.25	44.55	5.30	1.61	18.43	22.76	57.20	0.00	9.16	16.72	74.12	-1.61	-9.26	-6.04	16.92
East New Britain	2,055	61.60	67.74	6.13	0.00	0.29	0.97	98.74	0.00	0.15	0.29	99.56	0.00	-0.15	-0.68	0.83
East Sepik	14,603	44.26	46.62	2.35	0.27	13.50	15.63	70.59	1.16	12.31	14.18	72.35	0.89	-1.20	-1.45	1.76
Eastern Highlands	2,362	28.47	32.54	4.07	2.46	36.75	26.33	34.46	0.08	24.60	30.74	44.58	-2.37	-12.15	4.40	10.12
Enga	932	40.57	44.09	3.52	1.07	7.73	23.07	68.13	0.21	4.61	17.27	77.90	-0.86	-3.11	-5.79	9.76
Gulf	4,412	67.05	62.93	-4.11	0.02	0.68	2.74	96.56	0.00	0.86	4.10	95.04	-0.02	0.18	1.36	-1.52
Hela	1,114	47.61	52.38	4.77	1.53	4.58	12.93	80.97	0.09	4.49	4.85	90.58	-1.44	-0.09	-8.08	9.61
Jiwaka	1,058	40.03	45.37	5.34	0.09	4.82	23.35	71.74	0.09	1.61	14.18	84.12	0.00	-3.21	-9.17	12.38
Madang	5,039	53.32	57.63	4.31	1.07	5.60	6.45	86.88	0.56	4.07	6.65	88.73	-0.52	-1.53	0.20	1.85
Manus	304	62.03	67.93	5.89	0.00	0.00	0.33	99.67	0.00	0.00	0.00	100.00	0.00	0.00	-0.33	0.33
Milne Bay	2,657	50.74	51.65	0.91	3.16	12.95	9.90	73.99	0.90	11.37	11.25	76.48	-2.26	-1.58	1.35	2.48
Morobe	8,380	42.16	46.07	3.92	4.52	19.39	12.00	64.08	2.24	16.28	14.51	66.97	-2.28	-3.11	2.51	2.89
National Capital District	3	32.00	34.33	2.33	0.00	66.67	0.00	33.33	0.00	0.00	66.67	33.33	0.00	-66.67	66.67	0.00
New Ireland	887	63.29	67.65	4.36	0.11	0.11	1.92	97.86	0.23	0.00	0.56	99.21	0.11	-0.11	-1.35	1.35
Oro	5,058	56.89	58.96	2.08	0.02	3.04	6.70	90.23	0.38	2.61	6.56	90.45	0.36	-0.43	-0.14	0.22
Sandaun	8,632	49.34	52.23	2.89	0.38	7.91	9.70	82.01	1.78	6.04	7.55	84.63	1.40	-1.88	-2.14	2.62
Southern Highlands	1,919	52.18	55.19	3.01	0.21	5.68	16.10	78.01	0.42	1.41	12.35	85.83	0.21	-4.27	-3.75	7.82
West New Britain	3,025	65.21	69.92	4.71	0.10	0.36	0.86	98.68	0.00	0.13	0.99	98.88	-0.10	-0.23	0.13	0.20
Western	31,644	50.70	52.22	1.52	0.21	6.53	13.49	79.78	0.30	6.02	11.15	82.53	0.09	-0.50	-2.34	2.76
Western Highlands	1,130	35.31	39.75	4.44	0.18	12.92	27.79	59.12	0.00	5.66	21.42	72.92	-0.18	-7.26	-6.37	13.81
Papua New Guinea - All	103,070	49.85	52.29	2.44	0.80	9.04	12.10	78.05	0.68	7.26	10.98	81.08	-0.13	-1.78	-1.12	3.03

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

≤10	≤40
≤20	≤50
≤30	≤90

Papua New Guinea

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Papua New Guinea

Appendix 20: Philippines

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Philippines		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Abra	2,436	33.34	36.97	3.63	138	304	584	1,410	116	151	414	1,755	-22	-153	-170	345
Agusan del Norte	1,470	40.09	47.72	7.63	0	103	371	996	1	43	194	1,232	1	-60	-177	236
Agusan del Sur	4,315	51.36	56.93	5.57	0	254	423	3,638	0	172	372	3,771	0	-82	-51	133
Aklan	1,128	32.24	33.94	1.70	6	180	361	581	13	213	276	626	7	33	-85	45
Albay	1,774	38.38	35.48	-2.90	7	222	403	1,142	20	327	426	1,001	13	105	23	-141
Antique	2,111	26.77	29.55	2.78	45	707	697	662	54	436	720	901	9	-271	23	239
Apayao	928	42.11	37.47	-4.63	26	98	143	661	29	146	142	611	3	48	-1	-50
Aurora	1,023	53.59	51.88	-1.71	0	49	111	863	0	42	127	854	0	-7	16	-9
Basilan	803	54.27	53.58	-0.69	0	1	24	778	0	22	56	725	0	21	32	-53
Bataan	844	31.01	36.26	5.25	25	207	220	392	2	116	199	527	-23	-91	-21	135
Batangas	2,345	33.87	38.88	5.01	13	375	651	1,306	10	222	526	1,587	-3	-153	-125	281
Benguet	1,611	34.44	40.41	5.96	8	200	489	914	3	45	291	1,272	-5	-155	-198	358
Biliran	261	40.58	40.69	0.11	2	31	40	188	0	32	37	192	-2	1	-3	4
Bohol	3,380	26.32	28.60	2.28	149	1,316	801	1,114	163	1,197	696	1,324	14	-119	-105	210
Bukidnon	6,110	31.02	33.59	2.57	3	845	2,707	2,555	4	484	2,396	3,226	1	-361	-311	671
Bulacan	1,120	30.31	32.02	1.71	83	398	137	502	8	340	232	540	-75	-58	95	38
Cagayan	4,729	28.47	25.39	-3.08	232	1,788	983	1,726	372	2,005	942	1,410	140	217	-41	-316
Camarines Norte	1,424	43.65	46.09	2.44	8	87	180	1,149	8	79	143	1,194	0	-8	-37	45
Camarines Sur	3,917	39.71	40.27	0.56	2	605	713	2,597	13	662	658	2,584	11	57	-55	-13
Camiguin	16	46.88	59.63	12.75	0	0	2	14	0	0	0	16	0	0	-2	2
Capiz	2,280	22.31	21.71	-0.60	0	1,143	873	264	149	1,099	623	409	149	-44	-250	145
Catanduanes	763	51.55	55.46	3.91	0	20	51	692	0	19	31	713	0	-1	-20	21
Cavite	757	27.25	35.92	8.67	16	213	277	251	13	138	145	461	-3	-75	-132	210
Cebu	4,019	23.54	25.69	2.15	214	1,551	1,382	872	114	1,300	1,512	1,093	-100	-251	130	221
Compostela Valley	2,852	45.81	49.18	3.38	0	83	409	2,360	0	35	246	2,571	0	-48	-163	211
Davao del Norte	2,742	42.00	43.65	1.65	1	94	632	2,015	0	135	501	2,106	-1	41	-131	91
Davao del Sur	4,412	35.49	36.95	1.46	0	394	1,366	2,652	30	499	942	2,941	30	105	-424	289
Davao Oriental	2,597	50.76	55.21	4.45	3	50	235	2,309	0	12	126	2,459	-3	-38	-109	150
Dinagat Islands	174	28.26	33.10	4.84	1	58	49	66	0	36	49	89	-1	-22	0	23
Eastern Samar	1,814	50.77	50.28	-0.49	0	29	91	1,694	0	16	129	1,669	0	-13	38	-25
Guimaras	506	34.76	32.15	-2.61	5	78	154	269	3	74	191	238	-2	-4	37	-31
Ifugao	1,592	27.89	31.18	3.29	18	639	421	514	10	481	427	674	-8	-158	6	160
Ilocos Norte	2,234	29.89	34.70	4.81	136	576	525	997	66	388	459	1,321	-70	-188	-66	324
Ilocos Sur	2,089	31.63	37.30	5.67	190	522	358	1,019	46	394	339	1,310	-144	-128	-19	291
Iloilo	4,099	24.21	22.28	-1.93	60	1,719	1,410	910	395	1,846	1,031	827	335	127	-379	-83
Isabela	6,034	22.30	17.49	-4.81	372	3,433	1,186	1,043	1,115	3,792	557	570	743	359	-629	-473
Kalinga	1,568	33.43	33.11	-0.32	23	513	317	715	76	459	287	746	53	-54	-30	31
La Union	1,215	31.56	37.78	6.22	49	225	320	621	6	170	161	878	-43	-55	-159	257
Laguna	903	39.70	41.46	1.77	9	154	137	603	3	136	165	599	-6	-18	28	-4
Lanao del Norte	1,879	41.31	44.25	2.95	2	138	385	1,354	0	109	329	1,441	-2	-29	-56	87
Lanao del Sur	1,512	42.24	42.30	0.05	1	143	323	1,045	0	91	380	1,041	-1	-52	57	-4
Leyte	3,711	35.54	37.31	1.76	53	706	724	2,228	24	544	831	2,312	-29	-162	107	84
Maguindanao	3,931	30.61	31.55	0.94	10	868	1,531	1,522	4	664	1,629	1,634	-6	-204	98	112
Marinduque	549	43.76	47.38	3.62	7	20	66	456	5	13	60	471	-2	-7	-6	15
Masbate	3,371	27.55	28.36	0.81	132	1,158	926	1,155	113	1,177	840	1,241	-19	19	-86	86
Misamis Occidental	842	34.99	38.61	3.62	0	86	195	561	5	34	152	651	5	-52	-43	90

Philippines		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Mountain Province	1,097	37.29	38.70	1.41	8	202	271	616	2	128	218	749	-6	-74	-53	133
Negros Occidental	6,677	21.92	22.81	0.89	184	3,561	1,952	980	210	3,384	1,920	1,163	26	-177	-32	183
Negros Oriental	4,475	25.51	24.90	-0.60	63	1,592	1,557	1,263	179	1,574	1,500	1,222	116	-18	-57	-41
North Cotabato	5,297	30.78	31.60	0.82	2	855	2,250	2,190	3	799	1,929	2,566	1	-56	-321	376
Northern Samar	1,797	45.91	52.60	6.70	0	103	187	1,507	0	42	153	1,602	0	-61	-34	95
Nueva Ecija	4,571	19.65	23.96	4.31	1,510	1,688	516	857	272	2,415	808	1,076	-1,238	727	292	219
Nueva Vizcaya	2,536	28.74	30.03	1.30	65	854	732	885	40	788	735	973	-25	-66	3	88
Occidental Mindoro	4,679	33.41	34.55	1.14	304	1,094	796	2,485	273	1,010	808	2,588	-31	-84	12	103
Oriental Mindoro	2,914	39.21	39.05	-0.16	25	333	543	2,013	32	365	531	1,986	7	32	-12	-27
Palawan	6,715	44.62	44.03	-0.59	18	532	918	5,247	44	599	921	5,151	26	67	3	-96
Pampanga	1,315	19.98	24.17	4.18	296	585	214	220	63	655	309	288	-233	70	95	68
Pangasinan	4,645	19.94	24.77	4.84	1,080	1,894	795	876	219	2,048	1,053	1,325	-861	154	258	449
Quezon	4,804	47.33	48.90	1.58	2	206	570	4,026	12	167	491	4,134	10	-39	-79	108
Quirino	1,172	34.88	27.92	-6.97	0	187	391	594	8	448	299	417	8	261	-92	-177
Rizal	712	35.29	40.63	5.34	18	100	168	426	0	41	135	536	-18	-59	-33	110
Romblon	679	40.88	39.05	-1.83	0	53	147	479	1	69	148	461	1	16	1	-18
Samar	2,786	41.93	42.16	0.23	0	287	531	1,968	4	300	449	2,033	4	13	-82	65
Sarangani	2,398	32.89	36.18	3.29	30	471	744	1,153	3	277	710	1,408	-27	-194	-34	255
Siquijor	264	27.37	33.49	6.12	5	60	109	90	0	25	93	146	-5	-35	-16	56
Sorsogon	1,282	44.90	45.00	0.10	11	102	148	1,021	11	86	166	1,019	0	-16	18	-2
South Cotabato	3,095	30.76	33.85	3.09	65	701	1,051	1,278	5	282	1,202	1,606	-60	-419	151	328
Southern Leyte	951	45.88	51.68	5.81	0	38	124	789	0	20	75	856	0	-18	-49	67
Sultan Kudarat	3,226	34.54	35.52	0.98	22	668	1,022	1,514	2	522	1,118	1,584	-20	-146	96	70
Sulu	647	52.73	55.62	2.89	1	3	10	633	3	0	4	640	2	-3	-6	7
Surigao del Norte	563	44.35	46.79	2.43	1	64	81	417	0	41	86	436	-1	-23	5	19
Surigao del Sur	1,735	52.76	56.79	4.03	0	93	117	1,525	0	64	127	1,544	0	-29	10	19
Tarlac	2,536	22.14	28.22	6.07	699	860	296	681	93	1,090	521	832	-606	230	225	151
Tawi-Tawi	218	57.33	60.71	3.38	0	2	9	207	0	0	2	216	0	-2	-7	9
Zambales	2,712	23.68	28.20	4.52	635	727	510	840	171	820	707	1,014	-464	93	197	174
Zamboanga del Norte	4,723	37.92	41.08	3.16	7	375	1,193	3,148	6	133	806	3,778	-1	-242	-387	630
Zamboanga del Sur	3,952	32.97	37.05	4.09	27	679	1,153	2,093	1	332	964	2,655	-26	-347	-189	562
Zamboanga Sibugay	2,086	38.98	41.42	2.43	16	180	379	1,511	2	141	316	1,627	-14	-39	-63	116
Philippines - All	188,841	33.79	35.58	1.80	7,148	41,771	44,258	95,665	4,655	39,200	40,563	104,424	-2,493	-2,571	-3,695	8,759

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Philippines		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
		2000	2010	Change	Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
					<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Abra	2,436	33.34	36.97	3.63	5.67	12.48	23.97	57.88	4.76	6.20	17.00	72.04	-0.90	-6.28	-6.98	14.16
Agusan del Norte	1,470	40.09	47.72	7.63	0.00	7.01	25.24	67.76	0.07	2.93	13.20	83.81	0.07	-4.08	-12.04	16.05
Agusan del Sur	4,315	51.36	56.93	5.57	0.00	5.89	9.80	84.31	0.00	3.99	8.62	87.39	0.00	-1.90	-1.18	3.08
Aklan	1,128	32.24	33.94	1.70	0.53	15.96	32.00	51.51	1.15	18.88	24.47	55.50	0.62	2.93	-7.54	3.99
Albay	1,774	38.38	35.48	-2.90	0.39	12.51	22.72	64.37	1.13	18.43	24.01	56.43	0.73	5.92	1.30	-7.95
Antique	2,111	26.77	29.55	2.78	2.13	33.49	33.02	31.36	2.56	20.65	34.11	42.68	0.43	-12.84	1.09	11.32
Apayao	928	42.11	37.47	-4.63	2.80	10.56	15.41	71.23	3.13	15.73	15.30	65.84	0.32	5.17	-0.11	-5.39
Aurora	1,023	53.59	51.88	-1.71	0.00	4.79	10.85	84.36	0.00	4.11	12.41	83.48	0.00	-0.68	1.56	-0.88
Basilan	803	54.27	53.58	-0.69	0.00	0.12	2.99	96.89	0.00	2.74	6.97	90.29	0.00	2.62	3.99	-6.60
Bataan	844	31.01	36.26	5.25	2.96	24.53	26.07	46.45	0.24	13.74	23.58	62.44	-2.73	-10.78	-2.49	16.00
Batangas	2,345	33.87	38.88	5.01	0.55	15.99	27.76	55.69	0.43	9.47	22.43	67.68	-0.13	-6.52	-5.33	11.98
Benguet	1,611	34.44	40.41	5.96	0.50	12.41	30.35	56.74	0.19	2.79	18.06	78.96	-0.31	-9.62	-12.29	22.22
Biliran	261	40.58	40.69	0.11	0.77	11.88	15.33	72.03	0.00	12.26	14.18	73.56	-0.77	0.38	-1.15	1.53
Bohol	3,380	26.32	28.60	2.28	4.41	38.94	23.70	32.96	4.82	35.41	20.59	39.17	0.41	-3.52	-3.11	6.21
Bukidnon	6,110	31.02	33.59	2.57	0.05	13.83	44.30	41.82	0.07	7.92	39.21	52.80	0.02	-5.91	-5.09	10.98
Bulacan	1,120	30.31	32.02	1.71	7.41	35.54	12.23	44.82	0.71	30.36	20.71	48.21	-6.70	-5.18	8.48	3.39
Cagayan	4,729	28.47	25.39	-3.08	4.91	37.81	20.79	36.50	7.87	42.40	19.92	29.82	2.96	4.59	-0.87	-6.68
Camarines Norte	1,424	43.65	46.09	2.44	0.56	6.11	12.64	80.69	0.56	5.55	10.04	83.85	0.00	-0.56	-2.60	3.16
Camarines Sur	3,917	39.71	40.27	0.56	0.05	15.45	18.20	66.30	0.33	16.90	16.80	65.97	0.28	1.46	-1.40	-0.33
Camiguin	16	46.88	59.63	12.75	0.00	0.00	12.50	87.50	0.00	0.00	0.00	100.00	0.00	0.00	-12.50	12.50
Capiz	2,280	22.31	21.71	-0.60	0.00	50.13	38.29	11.58	6.54	48.20	27.32	17.94	6.54	-1.93	-10.96	6.36
Catanduanes	763	51.55	55.46	3.91	0.00	2.62	6.68	90.70	0.00	2.49	4.06	93.45	0.00	-0.13	-2.62	2.75
Cavite	757	27.25	35.92	8.67	2.11	28.14	36.59	33.16	1.72	18.23	19.15	60.90	-0.40	-9.91	-17.44	27.74
Cebu	4,019	23.54	25.69	2.15	5.32	38.59	34.39	21.70	2.84	32.35	37.62	27.20	-2.49	-6.25	3.23	5.50
Compostela Valley	2,852	45.81	49.18	3.38	0.00	2.91	14.34	82.75	0.00	1.23	8.63	90.15	0.00	-1.68	-5.72	7.40
Davao del Norte	2,742	42.00	43.65	1.65	0.04	3.43	23.05	73.49	0.00	4.92	18.27	76.81	-0.04	1.50	-4.78	3.32
Davao del Sur	4,412	35.49	36.95	1.46	0.00	8.93	30.96	60.11	0.68	11.31	21.35	66.66	0.68	2.38	-9.61	6.55
Davao Oriental	2,597	50.76	55.21	4.45	0.12	1.93	9.05	88.91	0.00	0.46	4.85	94.69	-0.12	-1.46	-4.20	5.78
Dinagat Islands	174	28.26	33.10	4.84	0.57	33.33	28.16	37.93	0.00	20.69	28.16	51.15	-0.57	-12.64	0.00	13.22
Eastern Samar	1,814	50.77	50.28	-0.49	0.00	1.60	5.02	93.39	0.00	0.88	7.11	92.01	0.00	-0.72	2.09	-1.38
Guimaras	506	34.76	32.15	-2.61	0.99	15.42	30.44	53.16	0.59	14.62	37.75	47.04	-0.40	-0.79	7.31	-6.13
Ifugao	1,592	27.89	31.18	3.29	1.13	40.14	26.44	32.29	0.63	30.21	26.82	42.34	-0.50	-9.92	0.38	10.05
Ilocos Norte	2,234	29.89	34.70	4.81	6.09	25.78	23.50	44.63	2.95	17.37	20.55	59.13	-3.13	-8.42	-2.95	14.50
Ilocos Sur	2,089	31.63	37.30	5.67	9.10	24.99	17.14	48.78	2.20	18.86	16.23	62.71	-6.89	-6.13	-0.91	13.93
Iloilo	4,099	24.21	22.28	-1.93	1.46	41.94	34.40	22.20	9.64	45.04	25.15	20.18	8.17	3.10	-9.25	-2.02
Isabela	6,034	22.30	17.49	-4.81	6.17	56.89	19.66	17.29	18.48	62.84	9.23	9.45	12.31	5.95	-10.42	-7.84
Kalinga	1,568	33.43	33.11	-0.32	1.47	32.72	20.22	45.60	4.85	29.27	18.30	47.58	3.38	-3.44	-1.91	1.98
La Union	1,215	31.56	37.78	6.22	4.03	18.52	26.34	51.11	0.49	13.99	13.25	72.26	-3.54	-4.53	-13.09	21.15
Laguna	903	39.70	41.46	1.77	1.00	17.05	15.17	66.78	0.33	15.06	18.27	66.33	-0.66	-1.99	3.10	-0.44
Lanao del Norte	1,879	41.31	44.25	2.95	0.11	7.34	20.49	72.06	0.00	5.80	17.51	76.69	-0.11	-1.54	-2.98	4.63
Lanao del Sur	1,512	42.24	42.30	0.05	0.07	9.46	21.36	69.11	0.00	6.02	25.13	68.85	-0.07	-3.44	3.77	-0.26
Leyte	3,711	35.54	37.31	1.76	1.43	19.02	19.51	60.04	0.65	14.66	22.39	62.30	-0.78	-4.37	2.88	2.26
Maguindanao	3,931	30.61	31.55	0.94	0.25	22.08	38.95	38.72	0.10	16.89	41.44	41.57	-0.15	-5.19	2.49	2.85
Marinduque	549	43.76	47.38	3.62	1.28	3.64	12.02	83.06	0.91	2.37	10.93	85.79	-0.36	-1.28	-1.09	2.73
Masbate	3,371	27.55	28.36	0.81	3.92	34.35	27.47	34.26	3.35	34.92	24.92	36.81	-0.56	0.56	-2.55	2.55
Misamis Occidental	842	34.99	38.61	3.62	0.00	10.21	23.16	66.63	0.59	4.04	18.05	77.32	0.59	-6.18	-5.11	10.69

Philippines		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Misamis Oriental	1,392	33.27	38.72	5.45	0.36	17.17	28.09	54.38	0.22	10.06	19.40	70.33	-0.14	-7.11	-8.69	15.95
Mountain Province	1,097	37.29	38.70	1.41	0.73	18.41	24.70	56.15	0.18	11.67	19.87	68.28	-0.55	-6.75	-4.83	12.12
Negros Occidental	6,677	21.92	22.81	0.89	2.76	53.33	29.23	14.68	3.15	50.68	28.76	17.42	0.39	-2.65	-0.48	2.74
Negros Oriental	4,475	25.51	24.90	-0.60	1.41	35.58	34.79	28.22	4.00	35.17	33.52	27.31	2.59	-0.40	-1.27	-0.92
North Cotabato	5,297	30.78	31.60	0.82	0.04	16.14	42.48	41.34	0.06	15.08	36.42	48.44	0.02	-1.06	-6.06	7.10
Northern Samar	1,797	45.91	52.60	6.70	0.00	5.73	10.41	83.86	0.00	2.34	8.51	89.15	0.00	-3.39	-1.89	5.29
Nueva Ecija	4,571	19.65	23.96	4.31	33.03	36.93	11.29	18.75	5.95	52.83	17.68	23.54	-27.08	15.90	6.39	4.79
Nueva Vizcaya	2,536	28.74	30.03	1.30	2.56	33.68	28.86	34.90	1.58	31.07	28.98	38.37	-0.99	-2.60	0.12	3.47
Occidental Mindoro	4,679	33.41	34.55	1.14	6.50	23.38	17.01	53.11	5.83	21.59	17.27	55.31	-0.66	-1.80	0.26	2.20
Oriental Mindoro	2,914	39.21	39.05	-0.16	0.86	11.43	18.63	69.08	1.10	12.53	18.22	68.15	0.24	1.10	-0.41	-0.93
Palawan	6,715	44.62	44.03	-0.59	0.27	7.92	13.67	78.14	0.66	8.92	13.72	76.71	0.39	1.00	0.04	-1.43
Pampanga	1,315	19.98	24.17	4.18	22.51	44.49	16.27	16.73	4.79	49.81	23.50	21.90	-17.72	5.32	7.22	5.17
Pangasinan	4,645	19.94	24.77	4.84	23.25	40.78	17.12	18.86	4.71	44.09	22.67	28.53	-18.54	3.32	5.55	9.67
Quezon	4,804	47.33	48.90	1.58	0.04	4.29	11.87	83.81	0.25	3.48	10.22	86.05	0.21	-0.81	-1.64	2.25
Quirino	1,172	34.88	27.92	-6.97	0.00	15.96	33.36	50.68	0.68	38.23	25.51	35.58	0.68	22.27	-7.85	-15.10
Rizal	712	35.29	40.63	5.34	2.53	14.05	23.60	59.83	0.00	5.76	18.96	75.28	-2.53	-8.29	-4.63	15.45
Romblon	679	40.88	39.05	-1.83	0.00	7.81	21.65	70.55	0.15	10.16	21.80	67.89	0.15	2.36	0.15	-2.65
Samar	2,786	41.93	42.16	0.23	0.00	10.30	19.06	70.64	0.14	10.77	16.12	72.97	0.14	0.47	-2.94	2.33
Sarangani	2,398	32.89	36.18	3.29	1.25	19.64	31.03	48.08	0.13	11.55	29.61	58.72	-1.13	-8.09	-1.42	10.63
Siquijor	264	27.37	33.49	6.12	1.89	22.73	41.29	34.09	0.00	9.47	35.23	55.30	-1.89	-13.26	-6.06	21.21
Sorsogon	1,282	44.90	45.00	0.10	0.86	7.96	11.54	79.64	0.86	6.71	12.95	79.49	0.00	-1.25	1.40	-0.16
South Cotabato	3,095	30.76	33.85	3.09	2.10	22.65	33.96	41.29	0.16	9.11	38.84	51.89	-1.94	-13.54	4.88	10.60
Southern Leyte	951	45.88	51.68	5.81	0.00	4.00	13.04	82.97	0.00	2.10	7.89	90.01	0.00	-1.89	-5.15	7.05
Sultan Kudarat	3,226	34.54	35.52	0.98	0.68	20.71	31.68	46.93	0.06	16.18	34.66	49.10	-0.62	-4.53	2.98	2.17
Sulu	647	52.73	55.62	2.89	0.15	0.46	1.55	97.84	0.46	0.00	0.62	98.92	0.31	-0.46	-0.93	1.08
Surigao del Norte	563	44.35	46.79	2.43	0.18	11.37	14.39	74.07	0.00	7.28	15.28	77.44	-0.18	-4.09	0.89	3.37
Surigao del Sur	1,735	52.76	56.79	4.03	0.00	5.36	6.74	87.90	0.00	3.69	7.32	88.99	0.00	-1.67	0.58	1.10
Tarlac	2,536	22.14	28.22	6.07	27.56	33.91	11.67	26.85	3.67	42.98	20.54	32.81	-23.90	9.07	8.87	5.95
Tawi-Tawi	218	57.33	60.71	3.38	0.00	0.92	4.13	94.95	0.00	0.00	0.92	99.08	0.00	-0.92	-3.21	4.13
Zambales	2,712	23.68	28.20	4.52	23.41	26.81	18.81	30.97	6.31	30.24	26.07	37.39	-17.11	3.43	7.26	6.42
Zamboanga del Norte	4,723	37.92	41.08	3.16	0.15	7.94	25.26	66.65	0.13	2.82	17.07	79.99	-0.02	-5.12	-8.19	13.34
Zamboanga del Sur	3,952	32.97	37.05	4.09	0.68	17.18	29.18	52.96	0.03	8.40	24.39	67.18	-0.66	-8.78	-4.78	14.22
Zamboanga Sibugay	2,086	38.98	41.42	2.43	0.77	8.63	18.17	72.44	0.10	6.76	15.15	78.00	-0.67	-1.87	-3.02	5.56
Philippines - All	188,841	33.79	35.58	1.80	3.79	22.12	23.44	50.66	2.47	20.76	21.48	55.30	-1.32	-1.36	-1.96	4.64

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Philippines

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Philippines

0 170 340 680
Kilometers

Appendix 21: South Korea

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

South Korea		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Busan	124	32.11	27.68	-4.44	13	20	23	68	23	19	35	47	10	-1	12	-21
Chungcheongbuk-do	1,917	27.30	26.77	-0.53	355	432	355	775	436	383	324	774	81	-49	-31	-1
Chungcheongnam-do	4,333	22.97	23.48	0.51	1,065	1,121	871	1,276	983	1,151	899	1,300	-82	30	28	24
Daegu	117	32.29	30.43	-1.86	10	29	18	60	13	28	20	56	3	-1	2	-4
Daejeon	44	42.05	42.91	0.86	0	1	11	32	0	3	7	34	0	2	-4	2
Gangwon-do	823	35.57	38.92	3.34	43	125	161	494	45	116	103	559	2	-9	-58	65
Gwangju	50	18.68	19.50	0.82	26	7	3	14	24	8	4	14	-2	1	1	0
Gyeonggi-do	1,923	18.74	18.00	-0.73	661	613	311	338	754	546	301	322	93	-67	-10	-16
Gyeongsangbuk-do	6,322	32.76	33.45	0.69	667	1,017	1,128	3,510	781	956	942	3,643	114	-61	-186	133
Gyeongsangnam-do	4,007	33.91	33.75	-0.16	352	643	744	2,268	433	634	675	2,265	81	-9	-69	-3
Incheon	107	28.73	29.03	0.30	10	29	22	46	24	15	22	46	14	-14	0	0
Jeju	342	29.19	29.46	0.27	9	67	143	123	4	59	150	129	-5	-8	7	6
Jeollabuk-do	3,917	25.41	24.61	-0.80	1,309	672	485	1,451	1,312	738	495	1,372	3	66	10	-79
Jeollanam-do	6,456	27.35	29.14	1.80	1,399	1,440	1,043	2,574	1,331	1,339	954	2,832	-68	-101	-89	258
Sejong	196	24.07	22.24	-1.83	32	48	58	58	53	38	52	53	21	-10	-6	-5
Ulsan	155	30.91	29.98	-0.93	16	30	31	78	21	35	29	70	5	5	-2	-8
South Korea - All	30,833	28.20	28.64	0.44	5,967	6,294	5,407	13,165	6,237	6,068	5,012	13,516	270	-226	-395	351

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

South Korea		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Busan	124	32.11	27.68	-4.44	10.48	16.13	18.55	54.84	18.55	15.32	28.23	37.90	8.06	-0.81	9.68	-16.94
Chungcheongbuk-do	1,917	27.30	26.77	-0.53	18.52	22.54	18.52	40.43	22.74	19.98	16.90	40.38	4.23	-2.56	-1.62	-0.05
Chungcheongnam-do	4,333	22.97	23.48	0.51	24.58	25.87	20.10	29.45	22.69	26.56	20.75	30.00	-1.89	0.69	0.65	0.55
Daegu	117	32.29	30.43	-1.86	8.55	24.79	15.38	51.28	11.11	23.93	17.09	47.86	2.56	-0.85	1.71	-3.42
Daejeon	44	42.05	42.91	0.86	0.00	2.27	25.00	72.73	0.00	6.82	15.91	77.27	0.00	4.55	-9.09	4.55
Gangwon-do	823	35.57	38.92	3.34	5.22	15.19	19.56	60.02	5.47	14.09	12.52	67.92	0.24	-1.09	-7.05	7.90
Gwangju	50	18.68	19.50	0.82	52.00	14.00	6.00	28.00	48.00	16.00	8.00	28.00	-4.00	2.00	2.00	0.00
Gyeonggi-do	1,923	18.74	18.00	-0.73	34.37	31.88	16.17	17.58	39.21	28.39	15.65	16.74	4.84	-3.48	-0.52	-0.83
Gyeongsangbuk-do	6,322	32.76	33.45	0.69	10.55	16.09	17.84	55.52	12.35	15.12	14.90	57.62	1.80	-0.96	-2.94	2.10
Gyeongsangnam-do	4,007	33.91	33.75	-0.16	8.78	16.05	18.57	56.60	10.81	15.82	16.85	56.53	2.02	-0.22	-1.72	-0.07
Incheon	107	28.73	29.03	0.30	9.35	27.10	20.56	42.99	22.43	14.02	20.56	42.99	13.08	-13.08	0.00	0.00
Jeju	342	29.19	29.46	0.27	2.63	19.59	41.81	35.97	1.17	17.25	43.86	37.72	-1.46	-2.34	2.05	1.75
Jeollabuk-do	3,917	25.41	24.61	-0.80	33.42	17.16	12.38	37.04	33.50	18.84	12.64	35.03	0.08	1.68	0.26	-2.02
Jeollanam-do	6,456	27.35	29.14	1.80	21.67	22.31	16.16	39.87	20.62	20.74	14.78	43.87	-1.05	-1.56	-1.38	4.00
Sejong	196	24.07	22.24	-1.83	16.33	24.49	29.59	29.59	27.04	19.39	26.53	27.04	10.71	-5.10	-3.06	-2.55
Ulsan	155	30.91	29.98	-0.93	10.32	19.35	20.00	50.32	13.55	22.58	18.71	45.16	3.23	3.23	-1.29	-5.16
South Korea - All	30,833	28.20	28.64	0.44	19.35	20.41	17.54	42.70	20.23	19.68	16.26	43.84	0.88	-0.73	-1.28	1.14

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

South Korea

0 55 110 220
Kilometers

Appendix 22: Sri Lanka

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Sri Lanka		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Ampara	1,827	14.90	17.19	2.29	735	758	178	156	265	1,124	297	141	-470	366	119	-15
Anuradhapura	2,449	19.77	21.93	2.16	377	1,280	401	391	76	1,446	511	416	-301	166	110	25
Badulla	790	22.72	28.05	5.34	118	295	182	195	2	286	212	290	-116	-9	30	95
Batticaloa	1,414	10.87	14.60	3.73	874	436	75	29	487	660	193	74	-387	224	118	45
Colombo	176	49.31	40.21	-9.10	0	1	10	165	0	16	43	117	0	15	33	-48
Galle	1,014	43.11	37.32	-5.79	0	5	110	899	0	39	300	675	0	34	190	-224
Gampaha	601	41.29	34.31	-6.98	0	5	53	543	0	31	196	374	0	26	143	-169
Hambantota	902	23.06	27.55	4.49	132	364	183	223	70	289	223	320	-62	-75	40	97
Jaffna	484	9.35	7.34	-2.01	333	128	20	3	407	61	8	8	74	-67	-12	5
Kalutara	1,100	48.48	36.08	-12.41	1	3	51	1,045	1	98	275	726	0	95	224	-319
Kandy	895	38.79	42.57	3.79	12	72	160	651	0	55	115	725	-12	-17	-45	74
Kegalle	1,165	52.94	53.18	0.24	0	0	8	1,157	0	2	22	1,141	0	2	14	-16
Kilinochchi	600	17.10	16.33	-0.76	336	120	33	111	271	184	51	94	-65	64	18	-17
Kurunegala	4,463	27.25	28.23	0.98	30	1,253	1,814	1,366	6	932	2,159	1,366	-24	-321	345	0
Mannar	461	14.31	13.77	-0.54	257	107	42	55	242	139	40	40	-15	32	-2	-15
Matale	783	29.90	35.68	5.78	60	261	138	324	13	160	183	427	-47	-101	45	103
Matara	726	48.26	46.02	-2.24	0	2	46	678	0	16	78	632	0	14	32	-46
Moneragala	1,512	20.00	23.36	3.36	435	497	290	290	113	701	309	389	-322	204	19	99
Mullaitivu	627	24.59	23.24	-1.35	126	211	86	204	77	284	87	179	-49	73	1	-25
Nuwara Eliya	612	30.54	34.48	3.93	2	88	281	241	1	29	207	375	-1	-59	-74	134
Polonnaruwa	1,686	14.69	18.87	4.18	588	838	139	121	74	1,200	221	191	-514	362	82	70
Puttalam	1,855	22.30	23.40	1.10	306	626	507	416	212	578	653	412	-94	-48	146	-4
Ratnapura	1,546	42.95	45.97	3.02	16	154	180	1,196	0	51	146	1,349	-16	-103	-34	153
Trincomalee	1,065	17.68	19.74	2.06	331	440	140	154	179	528	179	179	-152	88	39	25
Vavuniya	288	29.53	28.66	-0.88	5	103	55	125	9	92	61	126	4	-11	6	1
Sri Lanka - All	29,041	26.94	27.95	1.01	5,074	8,047	5,182	10,738	2,505	9,001	6,769	10,766	-2,569	954	1,587	28

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Sri Lanka		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Ampara	1,827	14.90	17.19	2.29	40.23	41.49	9.74	8.54	14.50	61.52	16.26	7.72	-25.73	20.03	6.51	-0.82
Anuradhapura	2,449	19.77	21.93	2.16	15.39	52.27	16.37	15.97	3.10	59.04	20.87	16.99	-12.29	6.78	4.49	1.02
Badulla	790	22.72	28.05	5.34	14.94	37.34	23.04	24.68	0.25	36.20	26.84	36.71	-14.68	-1.14	3.80	12.03
Batticaloa	1,414	10.87	14.60	3.73	61.81	30.83	5.30	2.05	34.44	46.68	13.65	5.23	-27.37	15.84	8.35	3.18
Colombo	176	49.31	40.21	-9.10	0.00	0.57	5.68	93.75	0.00	9.09	24.43	66.48	0.00	8.52	18.75	-27.27
Galle	1,014	43.11	37.32	-5.79	0.00	0.49	10.85	88.66	0.00	3.85	29.59	66.57	0.00	3.35	18.74	-22.09
Gampaha	601	41.29	34.31	-6.98	0.00	0.83	8.82	90.35	0.00	5.16	32.61	62.23	0.00	4.33	23.79	-28.12
Hambantota	902	23.06	27.55	4.49	14.63	40.36	20.29	24.72	7.76	32.04	24.72	35.48	-6.87	-8.31	4.43	10.75
Jaffna	484	9.35	7.34	-2.01	68.80	26.45	4.13	0.62	84.09	12.60	1.65	1.65	15.29	-13.84	-2.48	1.03
Kalutara	1,100	48.48	36.08	-12.41	0.09	0.27	4.64	95.00	0.09	8.91	25.00	66.00	0.00	8.64	20.36	-29.00
Kandy	895	38.79	42.57	3.79	1.34	8.04	17.88	72.74	0.00	6.15	12.85	81.01	-1.34	-1.90	-5.03	8.27
Kegalle	1,165	52.94	53.18	0.24	0.00	0.00	0.69	99.31	0.00	0.17	1.89	97.94	0.00	0.17	1.20	-1.37
Kilinochchi	600	17.10	16.33	-0.76	56.00	20.00	5.50	18.50	45.17	30.67	8.50	15.67	-10.83	10.67	3.00	-2.83
Kurunegala	4,463	27.25	28.23	0.98	0.67	28.08	40.65	30.61	0.13	20.88	48.38	30.61	-0.54	-7.19	7.73	0.00
Mannar	461	14.31	13.77	-0.54	55.75	23.21	9.11	11.93	52.49	30.15	8.68	8.68	-3.25	6.94	-0.43	-3.25
Matale	783	29.90	35.68	5.78	7.66	33.33	17.62	41.38	1.66	20.43	23.37	54.53	-6.00	-12.90	5.75	13.15
Matara	726	48.26	46.02	-2.24	0.00	0.28	6.34	93.39	0.00	2.20	10.74	87.05	0.00	1.93	4.41	-6.34
Moneragala	1,512	20.00	23.36	3.36	28.77	32.87	19.18	19.18	7.47	46.36	20.44	25.73	-21.30	13.49	1.26	6.55
Mullaitivu	627	24.59	23.24	-1.35	20.10	33.65	13.72	32.54	12.28	45.30	13.88	28.55	-7.82	11.64	0.16	-3.99
Nuwara Eliya	612	30.54	34.48	3.93	0.33	14.38	45.92	39.38	0.16	4.74	33.82	61.27	-0.16	-9.64	-12.09	21.90
Polonnaruwa	1,686	14.69	18.87	4.18	34.88	49.70	8.24	7.18	4.39	71.17	13.11	11.33	-30.49	21.47	4.86	4.15
Puttalam	1,855	22.30	23.40	1.10	16.50	33.75	27.33	22.43	11.43	31.16	35.20	22.21	-5.07	-2.59	7.87	-0.22
Ratnapura	1,546	42.95	45.97	3.02	1.03	9.96	11.64	77.36	0.00	3.30	9.44	87.26	-1.03	-6.66	-2.20	9.90
Trincomalee	1,065	17.68	19.74	2.06	31.08	41.31	13.15	14.46	16.81	49.58	16.81	16.81	-14.27	8.26	3.66	2.35
Vavuniya	288	29.53	28.66	-0.88	1.74	35.76	19.10	43.40	3.13	31.94	21.18	43.75	1.39	-3.82	2.08	0.35
Sri Lanka - All	29,041	26.94	27.95	1.01	17.47	27.71	17.84	36.98	8.63	30.99	23.31	37.07	-8.85	3.29	5.46	0.10

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Sri Lanka

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Sri Lanka

Appendix 23: Thailand

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Thailand		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Amnat Charoen	2,468	6.50	4.94	-1.56	2,103	160	95	110	2,183	193	61	31	80	33	-34	-79
Ang Thong	815	14.73	16.59	1.86	82	695	38	0	25	730	60	0	-57	35	22	0
Bangkok Metropolis	211	12.08	16.64	4.56	66	143	2	0	33	139	39	0	-33	-4	37	0
Bueng Kan	3,068	7.35	15.93	8.59	2,563	377	79	49	1,054	1,218	552	244	-1,509	841	473	195
Buri Ram	7,114	4.19	6.21	2.01	6,774	266	48	26	6,377	534	135	68	-397	268	87	42
Chachoengsao	2,873	8.54	15.45	6.91	2,115	664	68	26	632	1,791	335	115	-1,483	1,127	267	89
Chai Nat	2,052	11.60	13.50	1.90	896	1,033	114	9	652	1,221	172	7	-244	188	58	-2
Chaiyaphum	7,352	5.99	9.21	3.22	6,342	588	243	179	5,365	1,364	285	338	-977	776	42	159
Chanthaburi	2,331	22.61	20.96	-1.64	321	790	720	500	193	1,133	685	320	-128	343	-35	-180
Chiang Mai	3,756	32.72	31.41	-1.31	479	705	666	1,906	307	878	870	1,701	-172	173	204	-205
Chiang Rai	4,944	27.32	24.22	-3.10	1,660	785	484	2,015	1,669	1,064	576	1,635	9	279	92	-380
Chon Buri	2,599	10.91	13.95	3.05	1,774	568	121	136	1,156	922	339	182	-618	354	218	46
Chumphon	3,693	40.06	41.24	1.18	14	248	781	2,650	5	141	582	2,965	-9	-107	-199	315
Kalasin	5,631	3.32	4.84	1.51	5,381	166	56	28	5,106	376	87	62	-275	210	31	34
Kamphaeng Phet	5,210	11.85	12.17	0.32	2,806	2,055	135	214	2,565	2,284	141	220	-241	229	6	6
Kanchanaburi	5,692	19.10	20.22	1.12	3,077	867	368	1,380	2,490	1,205	552	1,445	-587	338	184	65
Khon Kaen	8,122	3.95	5.15	1.20	7,588	256	135	143	7,286	453	151	232	-302	197	16	89
Krabi	3,501	42.35	46.89	4.53	2	132	559	2,808	0	46	236	3,219	-2	-86	-323	411
Lampang	2,202	29.08	28.20	-0.88	501	525	338	838	443	585	355	819	-58	60	17	-19
Lamphun	987	13.65	16.40	2.74	500	288	117	82	291	449	175	72	-209	161	58	-10
Loei	5,050	18.62	20.68	2.05	1,536	1,749	978	787	1,087	1,866	1,094	1,003	-449	117	116	216
Lop Buri	4,816	7.71	13.19	5.47	3,636	1,077	94	9	1,562	2,815	359	80	-2,074	1,738	265	71
Mae Hong Son	1,626	48.10	44.32	-3.78	4	39	69	1,514	28	79	182	1,337	24	40	113	-177
Maha Sarakham	5,106	2.51	3.17	0.66	5,017	72	10	7	4,941	136	23	6	-76	64	13	-1
Mukdahan	2,139	6.76	7.70	0.94	1,761	254	92	32	1,679	279	100	81	-82	25	8	49
Nakhon Nayok	1,180	12.75	18.35	5.60	525	544	57	54	99	790	219	72	-426	246	162	18
Nakhon Pathom	1,590	15.02	16.36	1.35	336	1,027	221	6	129	1,224	235	2	-207	197	14	-4
Nakhon Phanom	4,048	7.84	8.24	0.40	3,077	654	206	111	2,990	738	220	100	-87	84	14	-11
Nakhon Ratchasima	13,542	4.49	5.99	1.50	12,411	807	225	99	11,498	1,530	328	186	-913	723	103	87
Nakhon Sawan	7,465	8.49	11.41	2.92	5,272	1,872	245	76	3,530	3,553	300	82	-1,742	1,681	55	6
Nakhon Si Thammarat	7,118	34.06	36.07	2.02	508	1,521	1,204	3,885	283	1,227	1,236	4,372	-225	-294	32	487
Nan	4,486	40.45	35.73	-4.72	252	437	482	3,315	304	854	835	2,493	52	417	353	-822
Narathiwat	3,145	45.52	47.43	1.91	26	283	321	2,515	15	189	319	2,622	-11	-94	-2	107
Nong Bua Lam Phu	3,559	6.46	8.78	2.33	3,016	345	140	58	2,723	491	214	131	-293	146	74	73
Nong Khai	2,391	8.83	13.87	5.04	1,841	334	86	130	1,168	787	251	185	-673	453	165	55
Nonthaburi	234	16.18	17.20	1.02	6	201	27	0	5	200	29	0	-1	-1	2	0
Pathum Thani	797	15.55	17.86	2.31	74	637	86	0	7	650	140	0	-67	13	54	0
Pattani	1,535	25.54	30.06	4.53	88	673	305	469	31	446	405	653	-57	-227	100	184
Phangnga	1,725	48.18	43.68	-4.50	26	126	179	1,394	18	116	242	1,349	-8	-10	63	-45
Phatthalung	2,864	23.59	26.47	2.88	625	992	477	770	385	893	650	936	-240	-99	173	166
Phayao	2,456	22.67	20.05	-2.62	1,076	413	199	768	1,110	485	248	613	34	72	49	-155
Phetchabun	6,090	10.50	14.75	4.25	4,365	866	401	458	2,927	1,974	530	659	-1,438	1,108	129	201
Phetchaburi	1,512	13.28	13.96	0.68	783	489	116	124	559	707	167	79	-224	218	51	-45
Phichit	4,034	8.93	10.01	1.08	2,606	1,356	69	3	2,046	1,952	34	2	-560	596	-35	-1
Phitsanulok	4,961	16.92	16.85	-0.07	2,141	1,744	331	745	1,890	2,104	255	712	-251	360	-76	-33
Phra Nakhon Si Ayutthaya	1,863	13.03	14.77	1.73	571	1,162	130	0	129	1,660	74	0	-442	498	-56	0
Phrae	1,346	31.32	29.29	-2.03	379	212	125	630	354	268	133	591	-25	56	8	-39
Phuket	287	31.15	30.48	-0.67	42	68	43	134	45	60	55	127	3	-8	12	-7
Prachin Buri	2,301	8.81	14.11	5.30	1,722	413	86	80	793	1,233	165	110	-929	820	79	30
Prachuap Khiri Khan	2,419	19.38	19.00	-0.39	685	712	660	362	864	588	506	461	179	-124	-154	99
Ranong	775	46.08	44.95	-1.13	1	29	105	640	4	46	100	625	3	17	-5	-15

Thailand		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Ratchaburi	2,487	13.21	15.10	1.90	1,230	852	209	196	806	1,166	376	139	-424	314	167	-57
Rayong	2,439	18.22	18.03	-0.19	657	967	516	299	638	953	558	290	-19	-14	42	-9
Roi Et	7,195	2.94	4.10	1.16	6,972	162	40	21	6,829	286	58	22	-143	124	18	1
Sa Kaeo	3,120	6.18	9.84	3.66	2,767	242	62	49	2,031	884	112	93	-736	642	50	44
Sakon Nakhon	7,207	5.72	8.39	2.67	6,335	703	125	44	5,301	1,544	230	132	-1,034	841	105	88
Samut Prakan	239	10.36	14.27	3.92	118	113	8	0	86	113	39	1	-32	0	31	1
Samut Sakhon	386	17.56	15.85	-1.72	146	50	155	35	100	190	96	0	-46	140	-59	-35
Samut Songkhram	279	29.11	25.61	-3.50	32	66	46	135	28	66	84	101	-4	0	38	-34
Saraburi	1,379	9.85	14.48	4.63	912	366	74	27	409	793	123	54	-503	427	49	27
Satun	1,443	39.87	37.27	-2.60	39	184	235	985	18	170	325	930	-21	-14	90	-55
Si Sa Ket	5,460	4.66	5.99	1.33	5,107	243	41	69	4,902	334	84	140	-205	91	43	71
Sing Buri	705	12.86	15.89	3.04	211	480	14	0	26	629	50	0	-185	149	36	0
Songkhla	5,579	34.28	33.79	-0.49	510	1,136	820	3,113	461	1,037	851	3,230	-49	-99	31	117
Sukhothai	3,856	14.32	14.86	0.55	2,327	789	212	528	2,123	995	213	525	-204	206	1	-3
Suphan Buri	4,393	13.32	15.50	2.18	1,549	2,351	335	158	919	2,869	423	182	-630	518	88	24
Surat Thani	8,581	39.60	44.09	4.49	62	763	1,627	6,129	37	441	887	7,216	-25	-322	-740	1,087
Surin	6,518	4.78	5.78	1.01	6,167	249	30	72	6,064	303	67	84	-103	54	37	12
Tak	3,197	33.91	30.62	-3.29	712	488	365	1,632	743	596	446	1,412	31	108	81	-220
Trang	3,188	38.91	35.42	-3.49	6	239	725	2,218	4	289	996	1,899	-2	50	271	-319
Trat	1,194	25.63	26.07	0.44	58	429	377	330	22	357	513	302	-36	-72	136	-28
Ubon Ratchathani	9,100	5.70	6.53	0.83	8,043	569	205	283	7,636	972	250	242	-407	403	45	-41
Udon Thani	8,939	5.57	8.05	2.49	7,877	647	218	197	6,901	1,278	395	365	-976	631	177	168
Uthai Thani	2,557	14.81	18.20	3.39	1,368	759	111	319	970	912	277	398	-398	153	166	79
Uttaradit	2,549	26.32	23.85	-2.47	957	482	165	945	882	594	228	845	-75	112	63	-100
Yala	2,533	49.53	51.49	1.97	4	92	162	2,275	4	73	117	2,339	0	-19	-45	64
Yasothon	3,545	4.36	5.08	0.71	3,324	180	25	16	3,206	270	48	21	-118	90	23	5
Thailand - All	275,151	15.86	17.31	1.45	156,944	46,020	19,838	52,350	132,182	64,781	23,882	54,307	-24,762	18,761	4,044	1,957

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Thailand		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Amnat Charoen	2,468	6.50	4.94	-1.56	85.21	6.48	3.85	4.46	88.45	7.82	2.47	1.26	3.24	1.34	-1.38	-3.20
Ang Thong	815	14.73	16.59	1.86	10.06	85.28	4.66	0.00	3.07	89.57	7.36	0.00	-6.99	4.29	2.70	0.00
Bangkok Metropolis	211	12.08	16.64	4.56	31.28	67.77	0.95	0.00	15.64	65.88	18.48	0.00	-15.64	-1.90	17.54	0.00
Bueng Kan	3,068	7.35	15.93	8.59	83.54	12.29	2.57	1.60	34.35	39.70	17.99	7.95	-49.19	27.41	15.42	6.36
Buri Ram	7,114	4.19	6.21	2.01	95.22	3.74	0.67	0.37	89.64	7.51	1.90	0.96	-5.58	3.77	1.22	0.59
Chachoengsao	2,873	8.54	15.45	6.91	73.62	23.11	2.37	0.90	22.00	62.34	11.66	4.00	-51.62	39.23	9.29	3.10
Chai Nat	2,052	11.60	13.50	1.90	43.67	50.34	5.56	0.44	31.77	59.50	8.38	0.34	-11.89	9.16	2.83	-0.10
Chaiyaphum	7,352	5.99	9.21	3.22	86.26	8.00	3.31	2.43	72.97	18.55	3.88	4.60	-13.29	10.56	0.57	2.16
Chanthaburi	2,331	22.61	20.96	-1.64	13.77	33.89	30.89	21.45	8.28	48.61	29.39	13.73	-5.49	14.71	-1.50	-7.72
Chiang Mai	3,756	32.72	31.41	-1.31	12.75	18.77	17.73	50.75	8.17	23.38	23.16	45.29	-4.58	4.61	5.43	-5.46
Chiang Rai	4,944	27.32	24.22	-3.10	33.58	15.88	9.79	40.76	33.76	21.52	11.65	33.07	0.18	5.64	1.86	-7.69
Chon Buri	2,599	10.91	13.95	3.05	68.26	21.85	4.66	5.23	44.48	35.48	13.04	7.00	-23.78	13.62	8.39	1.77
Chumphon	3,693	40.06	41.24	1.18	0.38	6.72	21.15	71.76	0.14	3.82	15.76	80.29	-0.24	-2.90	-5.39	8.53
Kalasin	5,631	3.32	4.84	1.51	95.56	2.95	0.99	0.50	90.68	6.68	1.55	1.10	-4.88	3.73	0.55	0.60
Kamphaeng Phet	5,210	11.85	12.17	0.32	53.86	39.44	2.59	4.11	49.23	43.84	2.71	4.22	-4.63	4.40	0.12	0.12
Kanchanaburi	5,692	19.10	20.22	1.12	54.06	15.23	6.47	24.24	43.75	21.17	9.70	25.39	-10.31	5.94	3.23	1.14
Khon Kaen	8,122	3.95	5.15	1.20	93.43	3.15	1.66	1.76	89.71	5.58	1.86	2.86	-3.72	2.43	0.20	1.10
Krabi	3,501	42.35	46.89	4.53	0.06	3.77	15.97	80.21	0.00	1.31	6.74	91.95	-0.06	-2.46	-9.23	11.74
Lampang	2,202	29.08	28.20	-0.88	22.75	23.84	15.35	38.06	20.12	26.57	16.12	37.19	-2.63	2.72	0.77	-0.86
Lamphun	987	13.65	16.40	2.74	50.66	29.18	11.85	8.31	29.48	45.49	17.73	7.29	-21.18	16.31	5.88	-1.01
Loei	5,050	18.62	20.68	2.05	30.42	34.63	19.37	15.58	21.52	36.95	21.66	19.86	-8.89	2.32	2.30	4.28
Lop Buri	4,816	7.71	13.19	5.47	75.50	22.36	1.95	0.19	32.43	58.45	7.45	1.66	-43.07	36.09	5.50	1.47
Mae Hong Son	1,626	48.10	44.32	-3.78	0.25	2.40	4.24	93.11	1.72	4.86	11.19	82.23	1.48	2.46	6.95	-10.89
Maha Sarakham	5,106	2.51	3.17	0.66	98.26	1.41	0.20	0.14	96.77	2.66	0.45	0.12	-1.49	1.25	0.25	-0.02
Mukdahan	2,139	6.76	7.70	0.94	82.33	11.87	4.30	1.50	78.50	13.04	4.68	3.79	-3.83	1.17	0.37	2.29
Nakhon Nayok	1,180	12.75	18.35	5.60	44.49	46.10	4.83	4.58	8.39	66.95	18.56	6.10	-36.10	20.85	13.73	1.53
Nakhon Pathom	1,590	15.02	16.36	1.35	21.13	64.59	13.90	0.38	8.11	76.98	14.78	0.13	-13.02	12.39	0.88	-0.25
Nakhon Phanom	4,048	7.84	8.24	0.40	76.01	16.16	5.09	2.74	73.86	18.23	5.43	2.47	-2.15	2.08	0.35	-0.27
Nakhon Ratchasima	13,542	4.49	5.99	1.50	91.65	5.96	1.66	0.73	84.91	11.30	2.42	1.37	-6.74	5.34	0.76	0.64
Nakhon Sawan	7,465	8.49	11.41	2.92	70.62	25.08	3.28	1.02	47.29	47.60	4.02	1.10	-23.34	22.52	0.74	0.08
Nakhon Si Thammarat	7,118	34.06	36.07	2.02	7.14	21.37	16.91	54.58	3.98	17.24	17.36	61.42	-3.16	-4.13	0.45	6.84
Nan	4,486	40.45	35.73	-4.72	5.62	9.74	10.74	73.90	6.78	19.04	18.61	55.57	1.16	9.30	7.87	-18.32
Narathiwat	3,145	45.52	47.43	1.91	0.83	9.00	10.21	79.97	0.48	6.01	10.14	83.37	-0.35	-2.99	-0.06	3.40
Nong Bua Lam Phu	3,559	6.46	8.78	2.33	84.74	9.69	3.93	1.63	76.51	13.80	6.01	3.68	-8.23	4.10	2.08	2.05
Nong Khai	2,391	8.83	13.87	5.04	77.00	13.97	3.60	5.44	48.85	32.92	10.50	7.74	-28.15	18.95	6.90	2.30
Nonthaburi	234	16.18	17.20	1.02	2.56	85.90	11.54	0.00	2.14	85.47	12.39	0.00	-0.43	-0.43	0.85	0.00
Pathum Thani	797	15.55	17.86	2.31	9.28	79.93	10.79	0.00	0.88	81.56	17.57	0.00	-8.41	1.63	6.78	0.00
Pattani	1,535	25.54	30.06	4.53	5.73	43.84	19.87	30.55	2.02	29.06	26.38	42.54	-3.71	-14.79	6.51	11.99
Phangnga	1,725	48.18	43.68	-4.50	1.51	7.30	10.38	80.81	1.04	6.72	14.03	78.20	-0.46	-0.58	3.65	-2.61
Phatthalung	2,864	23.59	26.47	2.88	21.82	34.64	16.66	26.89	13.44	31.18	22.70	32.68	-8.38	-3.46	6.04	5.80
Phayao	2,456	22.67	20.05	-2.62	43.81	16.82	8.10	31.27	45.20	19.75	10.10	24.96	1.38	2.93	2.00	-6.31
Phetchabun	6,090	10.50	14.75	4.25	71.68	14.22	6.58	7.52	48.06	32.41	8.70	10.82	-23.61	18.19	2.12	3.30
Phetchaburi	1,512	13.28	13.96	0.68	51.79	32.34	7.67	8.20	36.97	46.76	11.05	5.22	-14.81	14.42	3.37	-2.98
Phichit	4,034	8.93	10.01	1.08	64.60	33.61	1.71	0.07	50.72	48.39	0.84	0.05	-13.88	14.77	-0.87	-0.02
Phitsanulok	4,961	16.92	16.85	-0.07	43.16	35.15	6.67	15.02	38.10	42.41	5.14	14.35	-5.06	7.26	-1.53	-0.67
Phra Nakhon Si Ayuttha	1,863	13.03	14.77	1.73	30.65	62.37	6.98	0.00	6.92	89.10	3.97	0.00	-23.73	26.73	-3.01	0.00
Phrae	1,346	31.32	29.29	-2.03	28.16	15.75	9.29	46.81	26.30	19.91	9.88	43.91	-1.86	4.16	0.59	-2.90
Phuket	287	31.15	30.48	-0.67	14.63	23.69	14.98	46.69	15.68	20.91	19.16	44.25	1.05	-2.79	4.18	-2.44
Prachin Buri	2,301	8.81	14.11	5.30	74.84	17.95	3.74	3.48	34.46	53.59	7.17	4.78	-40.37	35.64	3.43	1.30
Prachuap Khiri Khan	2,419	19.38	19.00	-0.39	28.32	29.43	27.28	14.96	35.72	24.31	20.92	19.06	7.40	-5.13	-6.37	4.09
Ranong	775	46.08	44.95	-1.13	0.13	3.74	13.55	82.58	0.52	5.94	12.90	80.65	0.39	2.19	-0.65	-1.94

Thailand		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)				Percent of Total Agrciultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Ratchaburi	2,487	13.21	15.10	1.90	49.46	34.26	8.40	7.88	32.41	46.88	15.12	5.59	-17.05	12.63	6.71	-2.29
Rayong	2,439	18.22	18.03	-0.19	26.94	39.65	21.16	12.26	26.16	39.07	22.88	11.89	-0.78	-0.57	1.72	-0.37
Roi Et	7,195	2.94	4.10	1.16	96.90	2.25	0.56	0.29	94.91	3.98	0.81	0.31	-1.99	1.72	0.25	0.01
Sa Kaeo	3,120	6.18	9.84	3.66	88.69	7.76	1.99	1.57	65.10	28.33	3.59	2.98	-23.59	20.58	1.60	1.41
Sakon Nakhon	7,207	5.72	8.39	2.67	87.90	9.75	1.73	0.61	73.55	21.42	3.19	1.83	-14.35	11.67	1.46	1.22
Samut Prakan	239	10.36	14.27	3.92	49.37	47.28	3.35	0.00	35.98	47.28	16.32	0.42	-13.39	0.00	12.97	0.42
Samut Sakhon	386	17.56	15.85	-1.72	37.82	12.95	40.16	9.07	25.91	49.22	24.87	0.00	-11.92	36.27	-15.29	-9.07
Samut Songkhram	279	29.11	25.61	-3.50	11.47	23.66	16.49	48.39	10.04	23.66	30.11	36.20	-1.43	0.00	13.62	-12.19
Saraburi	1,379	9.85	14.48	4.63	66.14	26.54	5.37	1.96	29.66	57.51	8.92	3.92	-36.48	30.96	3.55	1.96
Satun	1,443	39.87	37.27	-2.60	2.70	12.75	16.29	68.26	1.25	11.78	22.52	64.45	-1.46	-0.97	6.24	-3.81
Si Sa Ket	5,460	4.66	5.99	1.33	93.54	4.45	0.75	1.26	89.78	6.12	1.54	2.56	-3.75	1.67	0.79	1.30
Sing Buri	705	12.86	15.89	3.04	29.93	68.09	1.99	0.00	3.69	89.22	7.09	0.00	-26.24	21.13	5.11	0.00
Songkhla	5,579	34.28	33.79	-0.49	9.14	20.36	14.70	55.80	8.26	18.59	15.25	57.90	-0.88	-1.77	0.56	2.10
Sukhothai	3,856	14.32	14.86	0.55	60.35	20.46	5.50	13.69	55.06	25.80	5.52	13.62	-5.29	5.34	0.03	-0.08
Suphan Buri	4,393	13.32	15.50	2.18	35.26	53.52	7.63	3.60	20.92	65.31	9.63	4.14	-14.34	11.79	2.00	0.55
Surat Thani	8,581	39.60	44.09	4.49	0.72	8.89	18.96	71.43	0.43	5.14	10.34	84.09	-0.29	-3.75	-8.62	12.67
Surin	6,518	4.78	5.78	1.01	94.62	3.82	0.46	1.10	93.04	4.65	1.03	1.29	-1.58	0.83	0.57	0.18
Tak	3,197	33.91	30.62	-3.29	22.27	15.26	11.42	51.05	23.24	18.64	13.95	44.17	0.97	3.38	2.53	-6.88
Trang	3,188	38.91	35.42	-3.49	0.19	7.50	22.74	69.57	0.13	9.07	31.24	59.57	-0.06	1.57	8.50	-10.01
Trat	1,194	25.63	26.07	0.44	4.86	35.93	31.57	27.64	1.84	29.90	42.97	25.29	-3.02	-6.03	11.39	-2.35
Ubon Ratchathani	9,100	5.70	6.53	0.83	88.39	6.25	2.25	3.11	83.91	10.68	2.75	2.66	-4.47	4.43	0.49	-0.45
Udon Thani	8,939	5.57	8.05	2.49	88.12	7.24	2.44	2.20	77.20	14.30	4.42	4.08	-10.92	7.06	1.98	1.88
Uthai Thani	2,557	14.81	18.20	3.39	53.50	29.68	4.34	12.48	37.94	35.67	10.83	15.57	-15.57	5.98	6.49	3.09
Uttaradit	2,549	26.32	23.85	-2.47	37.54	18.91	6.47	37.07	34.60	23.30	8.94	33.15	-2.94	4.39	2.47	-3.92
Yala	2,533	49.53	51.49	1.97	0.16	3.63	6.40	89.82	0.16	2.88	4.62	92.34	0.00	-0.75	-1.78	2.53
Yasothon	3,545	4.36	5.08	0.71	93.77	5.08	0.71	0.45	90.44	7.62	1.35	0.59	-3.33	2.54	0.65	0.14
Thailand - All	275,151	15.86	17.31	1.45	57.04	16.73	7.21	19.03	48.04	23.54	8.68	19.74	-9.00	6.82	1.47	0.71

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Thailand

0 150 300 600
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Thailand

Appendix 24: Timor Leste

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Timor Leste		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Aileu	172	21.90	25.35	3.45	31	55	43	43	11	52	55	54	-20	-3	12	11
Ainaro	440	27.57	30.04	2.47	41	135	94	170	6	87	152	195	-35	-48	58	25
Ambeno	255	15.90	16.04	0.14	80	120	39	16	78	113	50	14	-2	-7	11	-2
Baucau	687	18.22	23.91	5.70	234	205	131	117	131	178	172	206	-103	-27	41	89
Bobonaro	440	25.75	28.99	3.24	48	165	74	153	57	96	102	185	9	-69	28	32
Covalima	734	34.19	35.62	1.43	37	134	146	417	5	114	180	435	-32	-20	34	18
Dili	52	19.00	23.17	4.17	20	15	6	11	13	14	10	15	-7	-1	4	4
Ermera	327	31.93	34.13	2.20	21	64	72	170	8	51	78	190	-13	-13	6	20
Lautem	842	35.98	39.69	3.72	54	162	143	483	22	144	105	571	-32	-18	-38	88
Liquica	267	42.53	43.75	1.22	23	21	26	197	7	29	29	202	-16	8	3	5
Manatuto	486	30.42	34.43	4.01	90	57	71	268	87	46	59	294	-3	-11	-12	26
Manufahi	687	36.41	37.91	1.50	3	99	155	430	0	60	165	462	-3	-39	10	32
Viqueque	1,024	32.94	37.67	4.74	13	229	260	522	2	115	239	668	-11	-114	-21	146
Timor Leste - All	6,411	30.49	33.66	3.17	696	1,459	1,259	2,997	427	1,099	1,394	3,491	-269	-360	135	494

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Timor Leste		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)				Percent of Total Agrcultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Aileu	172	21.90	25.35	3.45	18.02	31.98	25.00	25.00	6.40	30.23	31.98	31.40	-11.63	-1.74	6.98	6.40
Ainaro	440	27.57	30.04	2.47	9.32	30.68	21.36	38.64	1.36	19.77	34.55	44.32	-7.95	-10.91	13.18	5.68
Ambeno	255	15.90	16.04	0.14	31.37	47.06	15.29	6.27	30.59	44.31	19.61	5.49	-0.78	-2.75	4.31	-0.78
Baucau	687	18.22	23.91	5.70	34.06	29.84	19.07	17.03	19.07	25.91	25.04	29.99	-14.99	-3.93	5.97	12.95
Bobonaro	440	25.75	28.99	3.24	10.91	37.50	16.82	34.77	12.95	21.82	23.18	42.05	2.05	-15.68	6.36	7.27
Covalima	734	34.19	35.62	1.43	5.04	18.26	19.89	56.81	0.68	15.53	24.52	59.26	-4.36	-2.72	4.63	2.45
Dili	52	19.00	23.17	4.17	38.46	28.85	11.54	21.15	25.00	26.92	19.23	28.85	-13.46	-1.92	7.69	7.69
Ermera	327	31.93	34.13	2.20	6.42	19.57	22.02	51.99	2.45	15.60	23.85	58.10	-3.98	-3.98	1.83	6.12
Lautem	842	35.98	39.69	3.72	6.41	19.24	16.98	57.36	2.61	17.10	12.47	67.82	-3.80	-2.14	-4.51	10.45
Liguica	267	42.53	43.75	1.22	8.61	7.87	9.74	73.78	2.62	10.86	10.86	75.66	-5.99	3.00	1.12	1.87
Manatuto	486	30.42	34.43	4.01	18.52	11.73	14.61	55.14	17.90	9.47	12.14	60.49	-0.62	-2.26	-2.47	5.35
Manufahi	687	36.41	37.91	1.50	0.44	14.41	22.56	62.59	0.00	8.73	24.02	67.25	-0.44	-5.68	1.46	4.66
Viqueque	1,024	32.94	37.67	4.74	1.27	22.36	25.39	50.98	0.20	11.23	23.34	65.23	-1.07	-11.13	-2.05	14.26
Timor Leste - All	6,411	30.49	33.66	3.17	10.86	22.76	19.64	46.75	6.66	17.14	21.74	54.45	-4.20	-5.62	2.11	7.71

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

≤10	≤40
≤20	≤50
≤30	≤90

Timor Leste

0 21.25 42.5 85
Kilometers

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Timor Leste

0 21.25 42.5 85
Kilometers

Appendix 25: Vanuatu

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Vanuatu		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Malampa	1,064	66.85	70.18	3.33	0	0	2	1,062	0	0	3	1,061	0	0	1	-1
Penama	310	59.89	63.22	3.33	0	4	4	302	0	0	0	310	0	-4	-4	8
Sanma	2,423	63.02	69.84	6.82	0	4	17	2,402	0	0	1	2,422	0	-4	-16	20
Shefa	107	69.65	72.25	2.60	0	0	0	107	0	0	0	107	0	0	0	0
Torba	80	63.76	64.93	1.16	0	0	0	80	0	0	1	79	0	0	1	-1
Vanuatu - All	3,984	63.99	69.38	5.39	0	8	23	3,953	0	0	5	3,979	0	-8	-18	26

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Vanuatu		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
					Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Malampa	1,064	66.85	70.18	3.33	0.00	0.00	0.19	99.81	0.00	0.00	0.28	99.72	0.00	0.00	0.09	-0.09
Penama	310	59.89	63.22	3.33	0.00	1.29	1.29	97.42	0.00	0.00	0.00	100.00	0.00	-1.29	-1.29	2.58
Sanma	2,423	63.02	69.84	6.82	0.00	0.17	0.70	99.13	0.00	0.00	0.04	99.96	0.00	-0.17	-0.66	0.83
Shefa	107	69.65	72.25	2.60	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
Torba	80	63.76	64.93	1.16	0.00	0.00	0.00	100.00	0.00	0.00	1.25	98.75	0.00	0.00	1.25	-1.25
Vanuatu - All	3,984	63.99	69.38	5.39	0.00	0.20	0.58	99.22	0.00	0.00	0.13	99.88	0.00	-0.20	-0.45	0.65

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Vanuatu

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Vanuatu

Appendix 26: Vietnam

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes (km²)

Country	Vietnam		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)								Change (2000 to 2010)			
	Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Area by Tree Cover Class (km ²)			
			Area by Tree Cover Class (km ²)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
			2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Vietnam	An Giang	3,263	17.69	19.04	1.35	476	1,789	862	136	301	1,716	1,052	194	-175	-73	190	58
Vietnam	Bạc Liêu	2,389	11.71	11.18	-0.53	1,063	1,178	127	21	1,336	890	155	8	273	-288	28	-13
Vietnam	Bắc Giang	2,930	19.17	21.41	2.24	1,589	483	257	601	1,134	763	342	691	-455	280	85	90
Vietnam	Bắc Kạn	3,214	52.65	54.75	2.11	0	23	150	3,041	1	28	150	3,035	1	5	0	-6
Vietnam	Bắc Ninh	752	7.67	6.60	-1.07	685	67	0	0	726	26	0	0	41	-41	0	0
Vietnam	Bến Tre	1,961	14.37	21.32	6.95	608	1,031	273	49	541	489	459	472	-67	-542	186	423
Vietnam	Bà Rịa - Vũng Tàu	1,253	20.36	18.05	-2.30	345	438	201	269	322	537	225	169	-23	99	24	-100
Vietnam	Bình Định	2,232	18.53	21.23	2.70	780	667	365	420	586	772	333	541	-194	105	-32	121
Vietnam	Bình Dương	2,359	23.40	28.69	5.29	446	904	381	628	329	442	523	1,067	-119	-462	142	439
Vietnam	Bình Phước	3,937	27.08	28.11	1.03	281	1,147	1,112	1,397	137	743	1,609	1,448	-144	-404	497	51
Vietnam	Bình Thuận	3,808	12.63	13.68	1.05	2,335	712	274	487	2,157	839	282	530	-178	127	8	43
Vietnam	Cần Thơ	1,290	16.95	16.88	-0.07	104	874	297	15	77	956	242	15	-27	82	-55	0
Vietnam	Cà Mau	4,179	15.61	14.79	-0.82	1,219	1,994	764	202	1,601	1,883	359	336	382	-111	-405	134
Vietnam	Cao Bằng	3,272	42.65	44.71	2.06	9	138	525	2,600	11	124	523	2,614	2	-14	-2	14
Vietnam	Đắk Lắk	2,349	22.75	20.89	-1.86	403	803	553	590	542	837	478	492	139	34	-75	-98
Vietnam	Đắk Nông	885	30.23	28.23	-2.00	51	225	224	385	20	232	338	295	-31	7	114	-90
Vietnam	Đồng Nai	2,686	24.38	24.16	-0.22	430	940	537	779	346	901	690	749	-84	-39	153	-30
Vietnam	Đồng Tháp	3,339	16.88	17.85	0.97	496	2,004	786	53	214	2,230	805	90	-282	226	19	37
Vietnam	Đà Nẵng	204	20.88	20.15	-0.74	34	77	53	40	61	64	26	53	27	-13	-27	13
Vietnam	Điện Biên	2,113	40.78	36.17	-4.61	49	57	360	1,647	15	285	559	1,254	-34	228	199	-393
Vietnam	Gia Lai	4,766	22.04	23.53	1.49	1,292	1,366	790	1,318	895	1,491	1,001	1,379	-397	125	211	61
Vietnam	Hải Dương	1,598	10.45	8.94	-1.51	1,026	519	34	19	1,302	224	45	27	276	-295	11	8
Vietnam	Hải Phòng	777	11.02	8.36	-2.66	397	371	9	0	629	147	1	0	232	-224	-8	0
Vietnam	Hậu Giang	1,564	21.19	21.99	0.80	5	762	727	70	6	688	747	123	1	-74	20	53
Vietnam	Hồ Chí Minh	689	14.85	14.31	-0.54	257	335	63	34	264	332	55	38	7	-3	-8	4
Vietnam	Hà Giang	4,570	38.83	38.58	-0.26	93	608	804	3,065	118	515	926	3,011	25	-93	122	-54
Vietnam	Hà Nội	2,638	10.85	11.19	0.34	1,906	535	82	115	1,960	400	132	146	54	-135	50	31
Vietnam	Hà Nam	831	10.70	10.85	0.15	613	153	26	39	627	137	25	42	14	-16	-1	3
Vietnam	Hà Tĩnh	2,023	13.43	17.12	3.68	1,381	320	128	194	762	815	150	296	-619	495	22	102
Vietnam	Hoà Bình	2,396	36.43	36.16	-0.27	75	452	432	1,437	36	338	513	1,509	-39	-114	81	72
Vietnam	Hưng Yên	926	7.61	6.65	-0.96	842	84	0	0	876	50	0	0	34	-34	0	0
Vietnam	Khánh Hòa	1,635	24.63	22.63	-2.00	274	508	354	499	261	644	356	374	-13	136	2	-125
Vietnam	Kiên Giang	4,461	19.52	16.64	-2.88	113	2,744	1,447	157	728	2,695	895	143	615	-49	-552	-14
Vietnam	Kon Tum	1,666	29.18	29.33	0.14	188	346	382	750	184	344	410	728	-4	-2	28	-22
Vietnam	Lạng Sơn	3,732	41.71	43.13	1.42	146	307	428	2,851	123	255	386	2,968	-23	-52	-42	117
Vietnam	Lai Châu	1,367	39.53	35.29	-4.23	4	56	313	994	12	130	445	780	8	74	132	-214
Vietnam	Lâm Đồng	1,368	23.86	27.18	3.32	191	482	338	357	108	325	435	500	-83	-157	97	143
Vietnam	Lào Cai	3,357	36.12	34.97	-1.14	23	392	901	2,041	31	363	1,079	1,884	8	-29	178	-157
Vietnam	Long An	3,996	14.73	15.64	0.91	891	2,592	457	56	817	2,482	585	112	-74	-110	128	56
Vietnam	Nam Định	1,358	8.11	9.12	1.02	1,229	129	0	0	1,010	348	0	0	-219	219	0	0
Vietnam	Nghe An	4,668	30.44	29.53	-0.91	1,739	697	205	2,027	1,451	909	311	1,997	-288	212	106	-30
Vietnam	Ninh Bình	1,002	12.89	12.52	-0.37	636	239	46	81	678	196	45	83	42	-43	-1	2
Vietnam	Ninh Thuận	1,701	19.44	19.12	-0.32	782	235	172	512	775	278	165	483	-7	43	-7	-29
Vietnam	Phú Thọ	2,980	25.08	26.89	1.81	472	1,028	628	852	414	847	681	1,038	-58	-181	53	186
Vietnam	Phú Yên	1,975	21.48	20.44	-1.04	356	761	454	404	427	825	341	382	71	64	-113	-22
Vietnam	Quảng Bình	1,756	22.22	24.99	2.76	710	359	194	493	643	341	190	582	-67	-18	-4	89
Vietnam	Quảng Nam	2,053	17.74	17.71	-0.04	543	878	362	270	643	787	294	329	100	-91	-68	59

Vietnam		Average Tree Cover by Province			Areal Extent of Tree Cover Class (km ²)											
Province	Area_km	Mean Tree Cover Percent by Province			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)				Area by Tree Cover Class (km ²)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Quảng Ngãi	1,623	19.39	18.80	-0.60	328	746	281	268	389	712	237	285	61	-34	-44	17
Quảng Ninh	2,449	38.78	35.63	-3.15	212	392	254	1,591	332	361	289	1,467	120	-31	35	-124
Quảng Trị	1,469	23.36	24.15	0.79	434	392	199	444	344	444	243	438	-90	52	44	-6
Sóc Trăng	3,068	14.56	16.08	1.52	853	1,746	416	53	956	1,373	523	216	103	-373	107	163
Sơn La	4,340	40.52	34.21	-6.31	29	313	737	3,261	68	784	1,256	2,232	39	471	519	-1,029
Tây Ninh	3,060	15.39	18.05	2.66	1,463	933	308	356	987	1,232	361	480	-476	299	53	124
Thừa Thiên Huế	677	15.92	18.10	2.18	288	226	84	79	191	324	61	101	-97	98	-23	22
Thái Bình	1,414	9.27	7.62	-1.65	1,016	397	1	0	1,283	130	1	0	267	-267	0	0
Thái Nguyên	2,426	31.50	34.15	2.66	360	436	496	1,134	210	519	426	1,271	-150	83	-70	137
Thanh Hóa	4,586	25.48	25.46	-0.02	1,806	955	226	1,599	1,626	1,076	364	1,520	-180	121	138	-79
Tiền Giang	2,138	17.31	21.49	4.18	178	1,416	516	28	82	986	830	240	-96	-430	314	212
Trà Vinh	2,102	14.34	15.22	0.89	529	1,318	253	2	714	879	445	64	185	-439	192	62
Tuyên Quang	5,067	42.93	43.51	0.58	52	515	904	3,596	42	422	778	3,825	-10	-93	-126	229
Vĩnh Long	1,397	17.41	19.87	2.46	78	962	356	1	26	860	425	86	-52	-102	69	85
Vĩnh Phúc	1,118	14.26	14.57	0.31	551	400	64	103	724	198	68	128	173	-202	4	25
Yên Bái	3,729	40.16	39.04	-1.12	5	390	835	2,499	20	386	810	2,513	15	-4	-25	14
Vietnam - All	150,934	24.92	25.19	0.27	35,770	44,347	23,807	47,010	34,230	42,350	26,480	47,874	-1,540	-1,997	2,673	864

Average Percent Tree Cover by Province, and Areal Extent of Tree Cover Classes as a Percent of the Total Agricultural Area (%)

Vietnam		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover (%)			Year 2000				Year 2010				Change (2000 to 2010)			
		2000	2010	Change	Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)				Percent of Total Agricultural Area (%)			
					<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
An Giang	3,263	17.69	19.04	1.35	14.59	54.83	26.42	4.17	9.22	52.59	32.24	5.95	-5.36	-2.24	5.82	1.78
Bạc Liêu	2,389	11.71	11.18	-0.53	44.50	49.31	5.32	0.88	55.92	37.25	6.49	0.33	11.43	-12.06	1.17	-0.54
Bắc Giang	2,930	19.17	21.41	2.24	54.23	16.48	8.77	20.51	38.70	26.04	11.67	23.58	-15.53	9.56	2.90	3.07
Bắc Kạn	3,214	52.65	54.75	2.11	0.00	0.72	4.67	94.62	0.03	0.87	4.67	94.43	0.03	0.16	0.00	-0.19
Bắc Ninh	752	7.67	6.60	-1.07	91.09	8.91	0.00	0.00	96.54	3.46	0.00	0.00	5.45	-5.45	0.00	0.00
Bến Tre	1,961	14.37	21.32	6.95	31.00	52.58	13.92	2.50	27.59	24.94	23.41	24.07	-3.42	-27.64	9.49	21.57
Bà Rịa - Vũng Tàu	1,253	20.36	18.05	-2.30	27.53	34.96	16.04	21.47	25.70	42.86	17.96	13.49	-1.84	7.90	1.92	-7.98
Bình Định	2,232	18.53	21.23	2.70	34.95	29.88	16.35	18.82	26.25	34.59	14.92	24.24	-8.69	4.70	-1.43	5.42
Bình Dương	2,359	23.40	28.69	5.29	18.91	38.32	16.15	26.62	13.86	18.74	22.17	45.23	-5.04	-19.58	6.02	18.61
Bình Phước	3,937	27.08	28.11	1.03	7.14	29.13	28.25	35.48	3.48	18.87	40.87	36.78	-3.66	-10.26	12.62	1.30
Bình Thuận	3,808	12.63	13.68	1.05	61.32	18.70	7.20	12.79	56.64	22.03	7.41	13.92	-4.67	3.34	0.21	1.13
Cần Thơ	1,290	16.95	16.88	-0.07	8.06	67.75	23.02	1.16	5.97	74.11	18.76	1.16	-2.09	6.36	-4.26	0.00
Cà Mau	4,179	15.61	14.79	-0.82	29.17	47.72	18.28	4.83	38.31	45.06	8.59	8.04	9.14	-2.66	-9.69	3.21
Cao Bằng	3,272	42.65	44.71	2.06	0.28	4.22	16.05	79.46	0.34	3.79	15.98	79.89	0.06	-0.43	-0.06	0.43
Đắk Lắk	2,349	22.75	20.89	-1.86	17.16	34.19	23.54	25.12	23.07	35.63	20.35	20.95	5.92	1.45	-3.19	-4.17
Đắk Nông	885	30.23	28.23	-2.00	5.76	25.42	25.31	43.50	2.26	26.21	38.19	33.33	-3.50	0.79	12.88	-10.17
Đồng Nai	2,686	24.38	24.16	-0.22	16.01	35.00	19.99	29.00	12.88	33.54	25.69	27.89	-3.13	-1.45	5.70	-1.12
Đồng Tháp	3,339	16.88	17.85	0.97	14.85	60.02	23.54	1.59	6.41	66.79	24.11	2.70	-8.45	6.77	0.57	1.11
Đà Nẵng	204	20.88	20.15	-0.74	16.67	37.75	25.98	19.61	29.90	31.37	12.75	25.98	13.24	-6.37	-13.24	6.37
Điện Biên	2,113	40.78	36.17	-4.61	2.32	2.70	17.04	77.95	0.71	13.49	26.46	59.35	-1.61	10.79	9.42	-18.60
Gia Lai	4,766	22.04	23.53	1.49	27.11	28.66	16.58	27.65	18.78	31.28	21.00	28.93	-8.33	2.62	4.43	1.28
Hải Dương	1,598	10.45	8.94	-1.51	64.21	32.48	2.13	1.19	81.48	14.02	2.82	1.69	17.27	-18.46	0.69	0.50
Hải Phòng	777	11.02	8.36	-2.66	51.09	47.75	1.16	0.00	80.95	18.92	0.13	0.00	29.86	-28.83	-1.03	0.00
Hậu Giang	1,564	21.19	21.99	0.80	0.32	48.72	46.48	4.48	0.38	43.99	47.76	7.86	0.06	-4.73	1.28	3.39
Hồ Chí Minh	689	14.85	14.31	-0.54	37.30	48.62	9.14	4.93	38.32	48.19	7.98	5.52	1.02	-0.44	-1.16	0.58
Hà Giang	4,570	38.83	38.58	-0.26	2.04	13.30	17.59	67.07	2.58	11.27	20.26	65.89	0.55	-2.04	2.67	-1.18
Hà Nội	2,638	10.85	11.19	0.34	72.25	20.28	3.11	4.36	74.30	15.16	5.00	5.53	2.05	-5.12	1.90	1.18
Hà Nam	831	10.70	10.85	0.15	73.77	18.41	3.13	4.69	75.45	16.49	3.01	5.05	1.68	-1.93	-0.12	0.36
Hà Tĩnh	2,023	13.43	17.12	3.68	68.27	15.82	6.33	9.59	37.67	40.29	7.41	14.63	-30.60	24.47	1.09	5.04
Hoà Bình	2,396	36.43	36.16	-0.27	3.13	18.86	18.03	59.98	1.50	14.11	21.41	62.98	-1.63	-4.76	3.38	3.01
Hưng Yên	926	7.61	6.65	-0.96	90.93	9.07	0.00	0.00	94.60	5.40	0.00	0.00	3.67	-3.67	0.00	0.00
Khánh Hòa	1,635	24.63	22.63	-2.00	16.76	31.07	21.65	30.52	15.96	39.39	21.77	22.87	-0.80	8.32	0.12	-7.65
Kiên Giang	4,461	19.52	16.64	-2.88	2.53	61.51	32.44	3.52	16.32	60.41	20.06	3.21	13.79	-1.10	-12.37	-0.31
Kon Tum	1,666	29.18	29.33	0.14	11.28	20.77	22.93	45.02	11.04	20.65	24.61	43.70	-0.24	-0.12	1.68	-1.32
Lạng Sơn	3,732	41.71	43.13	1.42	3.91	8.23	11.47	76.39	3.30	6.83	10.34	79.53	-0.62	-1.39	-1.13	3.14
Lai Châu	1,367	39.53	35.29	-4.23	0.29	4.10	22.90	72.71	0.88	9.51	32.55	57.06	0.59	5.41	9.66	-15.65
Lâm Đồng	1,368	23.86	27.18	3.32	13.96	35.23	24.71	26.10	7.89	23.76	31.80	36.55	-6.07	-11.48	7.09	10.45
Lào Cai	3,357	36.12	34.97	-1.14	0.69	11.68	26.84	60.80	0.92	10.81	32.14	56.12	0.24	-0.86	5.30	-4.68
Long An	3,996	14.73	15.64	0.91	22.30	64.87	11.44	1.40	20.45	62.11	14.64	2.80	-1.85	-2.75	3.20	1.40
Nam Định	1,358	8.11	9.12	1.02	90.50	9.50	0.00	0.00	74.37	25.63	0.00	0.00	-16.13	16.13	0.00	0.00
Nghe An	4,668	30.44	29.53	-0.91	37.25	14.93	4.39	43.42	31.08	19.47	6.66	42.78	-6.17	4.54	2.27	-0.64
Ninh Bình	1,002	12.89	12.52	-0.37	63.47	23.85	4.59	8.08	67.67	19.56	4.49	8.28	4.19	-4.29	-0.10	0.20
Ninh Thuận	1,701	19.44	19.12	-0.32	45.97	13.82	10.11	30.10	45.56	16.34	9.70	28.40	-0.41	2.53	-0.41	-1.70
Phú Thọ	2,980	25.08	26.89	1.81	15.84	34.50	21.07	28.59	13.89	28.42	22.85	34.83	-1.95	-6.07	1.78	6.24
Phú Yên	1,975	21.48	20.44	-1.04	18.03	38.53	22.99	20.46	21.62	41.77	17.27	19.34	3.59	3.24	-5.72	-1.11
Quảng Bình	1,756	22.22	24.99	2.76	40.43	20.44	11.05	28.08	36.62	19.42	10.82	33.14	-3.82	-1.03	-0.23	5.07
Quảng Nam	2,053	17.74	17.71	-0.04	26.45	42.77	17.63	13.15	31.32	38.33	14.32	16.03	4.87	-4.43	-3.31	2.87

Vietnam		Average Tree Cover by Province			Areal Extent of Tree Cover Class as a Percent of Total Agricultural Area (%)											
Province	Area_km	Percent Tree Cover			Year 2000				Year 2010				Change (2000 to 2010)			
		(%)			Percent of Total Agrcltural Area (%)				Percent of Total Agrcltural Area (%)				Percent of Total Agrcltural Area (%)			
		2000	2010	Change	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%	<10%	10-20%	20-30%	>30%
Quảng Ngãi	1,623	19.39	18.80	-0.60	20.21	45.96	17.31	16.51	23.97	43.87	14.60	17.56	3.76	-2.09	-2.71	1.05
Quảng Ninh	2,449	38.78	35.63	-3.15	8.66	16.01	10.37	64.97	13.56	14.74	11.80	59.90	4.90	-1.27	1.43	-5.06
Quảng Trị	1,469	23.36	24.15	0.79	29.54	26.69	13.55	30.22	23.42	30.22	16.54	29.82	-6.13	3.54	3.00	-0.41
Sóc Trăng	3,068	14.56	16.08	1.52	27.80	56.91	13.56	1.73	31.16	44.75	17.05	7.04	3.36	-12.16	3.49	5.31
Sơn La	4,340	40.52	34.21	-6.31	0.67	7.21	16.98	75.14	1.57	18.06	28.94	51.43	0.90	10.85	11.96	-23.71
Tây Ninh	3,060	15.39	18.05	2.66	47.81	30.49	10.07	11.63	32.26	40.26	11.80	15.69	-15.56	9.77	1.73	4.05
Thừa Thiên Huế	677	15.92	18.10	2.18	42.54	33.38	12.41	11.67	28.21	47.86	9.01	14.92	-14.33	14.48	-3.40	3.25
Thái Bình	1,414	9.27	7.62	-1.65	71.85	28.08	0.07	0.00	90.74	9.19	0.07	0.00	18.88	-18.88	0.00	0.00
Thái Nguyên	2,426	31.50	34.15	2.66	14.84	17.97	20.45	46.74	8.66	21.39	17.56	52.39	-6.18	3.42	-2.89	5.65
Thanh Hóa	4,586	25.48	25.46	-0.02	39.38	20.82	4.93	34.87	35.46	23.46	7.94	33.14	-3.93	2.64	3.01	-1.72
Tiền Giang	2,138	17.31	21.49	4.18	8.33	66.23	24.13	1.31	3.84	46.12	38.82	11.23	-4.49	-20.11	14.69	9.92
Trà Vinh	2,102	14.34	15.22	0.89	25.17	62.70	12.04	0.10	33.97	41.82	21.17	3.04	8.80	-20.89	9.13	2.95
Tuyên Quang	5,067	42.93	43.51	0.58	1.03	10.16	17.84	70.97	0.83	8.33	15.35	75.49	-0.20	-1.84	-2.49	4.52
Vĩnh Long	1,397	17.41	19.87	2.46	5.58	68.86	25.48	0.07	1.86	61.56	30.42	6.16	-3.72	-7.30	4.94	6.08
Vĩnh Phúc	1,118	14.26	14.57	0.31	49.28	35.78	5.72	9.21	64.76	17.71	6.08	11.45	15.47	-18.07	0.36	2.24
Yên Bái	3,729	40.16	39.04	-1.12	0.13	10.46	22.39	67.02	0.54	10.35	21.72	67.39	0.40	-0.11	-0.67	0.38
Vietnam - All	150,934	24.92	25.19	0.27	23.70	29.38	15.77	31.15	22.68	28.06	17.54	31.72	-1.02	-1.32	1.77	0.57

Asia Pacific Region : Tree Cover on Agricultural Land (2010)

Tree Cover (%)

Vietnam

Asia Pacific Region : Change in Tree Cover on Agricultural Land (2000 - 2010)

Change in Tree Cover (%)

Vietnam

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