

Forest Tenure Distribution



May 2012

Forest tenure distribution in 33 countries, 2002-2012 (Mha) (this set of 33 countries includes 85% of the world's forests)

	Country	Administered by Government		Designated for use by communities & Indigenous Peoples		Owned by communities & Indigenous Peoples		Owned by individuals & firms	
		2002	2012	2002	2012	2002	2012	2002	2012
1	Russia	886.50	882.98	0.00	0.00	0.00	0.00	0.00	0.00
2	Canada	388.90	374.14	0.00	0.00	1.40	1.46	27.20	26.48
3	Brazil	294.49 ⁱ	150.08 ⁱⁱ	11.68	35.61 ⁱⁱⁱ	75.27	111.57 ^{iv}	57.30	99.89 ^v
4	United States	110.00	129.16	6.92	7.46	0.00	0.00	164.10	166.46
5	China ^{vi}	75.152	81.05	0.00	0.00	101.85	125.81	0.00	0.00
6	Australia ^{vii}	114.57	109.30	0.00	0.00	13.63	20.86	28.68	17.24
7	Dem. Rep. of Congo ^{viii}	104.46	103.38	0.00	0.00 ^{ix}	0.00	0.00	0.00	0.00
8	Indonesia	97.70 ^x	90.70	0.22 ^{xi}	1.00	0.00	0.00	1.49 ^{xii}	2.73
9	Peru	57.12 ^{xiii}	52.14	1.57 ^{xiv}	3.52 ^{xv}	10.52 ^{xvi}	15.60 ^{xvii}	5.29 ^{xviii}	1.95 ^{xix}
10	India	44.42 ^{xx}	35.65	11.60	21.55	0.00	1.65 ^{xxi}	9.37 ^{xxii}	9.58
11	Mexico	2.75	2.89 ^{xxiii}	0.00	0.00	44.00	45.69 ^{xxiv}	8.30	17.00 ^{xxv}
12	Colombia	36.46	31.40 ^{xxvi}	0.00	0.00	24.50	29.85 ^{xxvii}	0.00	0.00
13	Angola	59.73	59.10	0.00	0.00	0.00	0.00	0.00	0.00
14	Bolivia	37.87 ^{xxviii}	18.20	18.23 ^{xxix}	22.81 ^{xxx}	2.84 ^{xxxi}	14.75 ^{xxxii}	0.62 ^{xxxiii}	1.44
15	Zambia ^{xxxiv}	51.13	49.27	0.00	0.00 ^{xxxv}	0.00	0.00 ^{xxxvi}	0.00	0.00
16	Venezuela ^{xxxvii}	49.51	47.70	0.00	nd	0.00	nd	0.00	nd
17	Tanzania	38.50	29.00 ^{xxxviii}	0.40	1.77 ^{xxxix}	0.00	2.51 ^{xl}	0.00	0.15 ^{xli}
18	Myanmar	34.55	32.18	0.00	0.04	0.00	0.00	0.00	0.00
19	Argentina	5.70	-	0.00	-	0.00	-	22.20	-
20	Finland	10.20	10.70	0.00	0.00	0.00	0.00	16.10	15.60

21	Papua New Guinea ^{xiii}	0.80	0.25	0.00	0.00	25.90	25.08	0.00	0.00
22	Japan	10.50	10.24	0.00	0.00	0.00	0.29	14.60	14.44
23	Central African Rep.	22.90	22.76	0.00	0.00	0.00	0.00	0.00	0.00
24	Gabon	21.00	22.51 ^{xliii}	0.00	0.00 ^{xliiv}	0.00	0.00	0.00	0.00
25	Rep. of Congo	22.56	21.95 ^{xliv}	0.00	0.46 ^{xlvi}	0.00	0.00	0.00	0.00
26	Sweden	2.26	4.24 ^{xlvii}	0.00	0.00	0.41 ^{xlviii}	0.41	19.93 ^{xlx}	17.74
27	Malaysia	nd	-	nd	-	nd	-	nd	-
28	Cameroon	22.12 ⁱ	18.42	0.00	1.50 ⁱⁱ	0.00	0.00	0.00	0.00
29	Mozambique	nd	nd ⁱⁱⁱ	nd	nd	nd	4.64 ⁱⁱⁱ	nd	0.02 ^{iv}
30	Thailand	15.04	13.27 ^{iv}	0.00	1.30 ^{vi}	0.00	0.00	1.96	2.59 ^{vii}
31	Suriname	14.70	14.70	0.51	0.51	0.00	0.00	0.03	0.03
32	Guyana	15.40	12.22 ^{lviii}	0.00	0.00	1.40	2.49 ^{lix}	0.00	0.50 ^{lx}
33	Cambodia ^{xi}	11.45	9.32	0.09	0.77	0.00	0.00	0.00	0.00
Total for 30 complete cases		2,652.74	2,438.90	51.22	98.30	301.72	398.02	354.97	393.82
<i>Total for all countries</i>		<i>2,658.44</i>	<i>2,438.90</i>	<i>51.22</i>	<i>98.30</i>	<i>301.72</i>	<i>402.66</i>	<i>377.17</i>	<i>393.84</i>

Sources/Notes: This table presents the best data available as of May 2012. Unless otherwise cited in endnotes, 2002 and 2008 figures refer to data previously published in White and Martin 2002, Sunderlin et al. 2008 and RRI & ITTO 2009. Areas are rounded and given in millions of hectares (Mha). Countries are ranked by total current forest area. Boldface entries correspond to complete sets for 2002-2012; italicized entries are complete for 2012 only. "nd" denotes no data available after extensive literature review. No entry given (indicated by a hyphen) if a country or tenure category was not investigated for a given year. Sudan and South Sudan were excluded from this table due to lack of information regarding South Sudan for 2012.

ⁱ Refers to the area of Areas Protegidas and Terras Devolutas (381.44 Mha, as cited in Sunderlin et al. 2008), less areas reserved for use or owned by communities and indigenous peoples.

ⁱⁱ Servico Florestal Brasileiro (SFB). 2011a. "Cadastro Nacional de Florestas Públicas: Atualização 2011." Brasília: SFB.

<http://www.sfb.gov.br/informacoes-florestais/cadastro-nacional-de-florestas-publicas/index.php?option=com_k2&view=item&layout=item&id=1147&Itemid=374>

ⁱⁱⁱ Refers to Reservas Extrativistas and Reservas de Desenvolvimento Sustentável (Ministerio do Meio Ambiente (MMA). 2012. "Tabela consolidada das Unidades de Conservação: Dados Consolidados." Brasília: Cadastro Nacional de Unidades de Conservação.

<<http://www.mma.gov.br/sitio/index.php?ido=conteudo.monta&idEstrutura=119&idConteudo=11227&idMenu=12153>>); and Projetos de Assentamento Agro-Extrativista, Projetos de Assentamento Florestal and Projetos de Desenvolvimento Sustentavel (SFB. 2011b. *Plano Anual de Manejo Florestal Comunitário e Familiar 2011*. Brasília: SFB, p. 28.

<<http://www.mma.gov.br/index.php?ido=conteudo.monta&idEstrutura=95&idMenu=9922&idConteudo=11226>>

^{iv} Refers to Territórios Quilombolas for years of 2002, 2008 and 2012; includes some non-forest (Instituto Nacional de Colonização e Reforma Agrária (INCRA). 2011. "Títulos Expedidos às Comunidades Quilombolas." Brasília: INCRA. Online registry, last updated Dec. 15 2011.

<<http://www.incra.gov.br/index.php/estrutura-fundiaria/quilombolas/file/108-titulos-expedidos-as-comunidades-quilombolas>>); and Terras Indígenas on forest lands (2002 and 2008: as cited in Sunderlin et al. 2008; 2012: SFB 2011a.)

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- ^v Area of woods and forests in agriculture and livestock establishments in Brazil, as of 2006. Instituto Brasileiro de Geografia e Estatística (2006) *Agriculture and Livestock Census*, as cited in: U.N. Food & Agriculture Organization (FAO). 2010. *Global Forest Resource Assessment*. Rome: FAO (Country Report: Brazil).
- ^{vi} Area owned by communities and indigenous peoples refers to both Collective and Individual forest lands. 2002 figures from the Sixth National Forest Inventory of China (2003) as cited in FAO 2010 (Country Report: China). 2008 and 2012 figures from the Seventh National Forest Inventory (2008) as cited in FAO 2010 (Country Report: China).
- ^{vii} 2012 figures for all categories taken from the Department of Agriculture, Forests and Fisheries' *State of Australia's Forests 2008*, c.f. Sunderlin et al. 2008.
- ^{viii} Calculated through 2000 primary forest cover and 2000-2005 and 2005-2010 forest cover loss data. de Wasseige C., de Marcken P., Bayol N., Hiol Hiol F., Mayaux Ph., Desclée B., Nasi R., Billand A., Defourny P. & Eba'a Atyi R (eds.) 2012. *The Forests of the Congo Basin - State of the Forest 2010*. Luxembourg: Publications Office of the European Union. Table 1.4. <http://www.observatoire-comifac.net/docs/edf2010/FR/EDF_2010_FR_01.pdf>
- ^{ix} Draft legislation for Local Community Forest Concessions is currently under review but not yet implemented. Personal communication with Theophile Gata Dikulukila, independent researcher, Jan. 10 2012.
- ^x Government administered forest 2002, 2008 and 2012 refers to total forest area as cited in FAO 2010 (Country Report: Indonesia), less other categories.
- ^{xi} Refers to Hutan Kemasyarakatan, as cited in: Dahal, Ganga Ram, Julian Atkinson & James Bampton. 2011. *Forest Tenure in Asia: Status and Trends*. Kuala Lumpur: The Center for People and Forests & The European Union Forest Law Enforcement, Governance and Trade Facility.
- ^{xii} 2002, 2008 and 2012 data for areas owned by individuals and firms, as given in Dahal, Atkinson and Bampton 2011 for the years 2002, 2008 and 2010.
- ^{xiii} Areas administered by government in 2002, 2008 and 2012 refer to Permanent Production Forests, Non-Timber Forest Product Concessions, Conservation Concessions, Protected Areas and their buffer zones, and other publicly-owned forests based on data from the Autoridad Nacional Forestal for the years 2000/2002, 2004, and 2009, as cited in FAO 2010 (Country Report: Peru), p. 22.
- ^{xiv} Reservas del Estado, 2002 data. FAO 2010.
- ^{xv} Reservas del Estado (2009 data, FAO 2010) and Reservas Comunales en suelo forestal, (2009 data as cited in: Instituto del Bien Común. 2009. "Mapa Amazonía Peruana." Lima: Instituto del Bien Común. <<http://www.ibcperu.org/mapas/mapa-ibc.php>>).
- ^{xvi} Tierras de Comunidades Nativas con aptitud Forestal, 2000 data. FAO 2010.
- ^{xvii} Tierras de Comunidades Nativas con aptitud Forestal, Tierras de Comunidades Campesinas con aptitud Forestal (FAO 2010) and Reservas Territoriales para Pueblos Indígenas en Aislamiento (IBC 2009).
- ^{xviii} Predios Privadas; may not be entirely forested. FAO 2005 (Country Report: Peru), c.f. Sunderlin et al. 2008.
- ^{xix} Forests on industrial and smallholder private lands. 2010 Government of Peru data as cited in: International Tropical Timber Organization. 2011. *Status of Tropical Forest Management*. Yokohama: ITTO.
- ^{xx} Areas administered by government in 2002, 2008 and 2012 refer to total forest area for 2000, 2005 and 2010, less other categories. FAO 2010 (Country Report: India).
- ^{xxi} Individual and community titles in fourteen states. Ministry of Tribal Affairs, India. 2011. "Status report on implementation of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006." New Delhi: Ministry of Tribal Affairs. <<http://www.tribal.nic.in/writereaddata/mainlinkFile/File1317.pdf>>

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- xxii Area owned by individuals and firms in 2002 and 2008 refers to 2000 and 2005 data from FAO 2010. 2012 figure calculated by applying the percentage of private forests in 2005 (14%) to the FAO 2010 total forest area.
- xxiii Total forests less other categories. FAO 2010 (Country Report: Mexico).
- xxiv Refers to area of Ejidos and Comunidades covered by forest and jungles; includes both communal-use and household/individual titled lands. Instituto Nacional de Estadística Geografía e Informática (INEGI). 2008. "Resultados Preliminares de IX Censo Ejidal." Mexico City: INEGI. <<http://www.ccmss.org.mx/biblioteca.php?Id=195>>
- xxv Privately owned forests. FAO 2010.
- xxvi Total forest area less forest areas owned by communities and indigenous peoples. Instituto de Hidrología, Meteorología y Estudios Ambientales de Colombia (IDEAM). 2007. "Estado de los Ecosistemas de Bosque." Data provided online by the Sistema de Información Ambiental de Colombia (SIAC) via the *Portal Ecosistemas de Bosque*. Bogotá: SIAC. <<http://www.siac.gov.co/contenido/contenido.aspx?catID=628&conID=940>>
- xxvii Resguardos Indígenas and Tierras de las Comunidades Negras. IDEAM 2007.
- xxviii Areas administered by government in 2002, 2008 and 2012 refer to total forest area in 2002, 2008 and 2010, less other categories. FAO 2010 (Country Report: Bolivia).
- xxix 1997-2002 cumulative totals for Agrupaciones Sociales del Lugar (ASL) both "otorgados" (signed) and "autorizados" (authorized) (Government of Bolivia & FAO. 2007. "Base de datos sobre el Sector Forestal de Bolivia 1997 a 2006: Proyecto TCP/BOL/3102." La Paz: Dirección General de Recursos Forestales. Table 1.02 & 1.04), as well as Territorio Indígena Originario Campesino (TIOC) "en proceso" (requested) in lowland areas only (Conteras Hermosilla & Vargas 2000 as cited in White & Martin 2002).
- xxx Active ASL areas larger than 200 ha (unpublished 2010 data from the "Autoridad de Fiscalización y Control Social de Bosques y Tierras" as cited in: Liga de Defensa del Medio Ambiente (LIDEMA). 2010. Informe del Estado Ambiental de Bolivia 2010. La Paz: LIDEMA. p. 329) and TIOCs "en proceso" as of 2010 (Fundación Tierra. 2011 "Territorios Indígena Originario Campesinos en Bolivia Entre la Loma Santa y la Pachamama." La Paz: Fundación Tierra, p. 46).
- xxxi TIOCs "otorgados" (signed), "titulados" (titled) (c.f. White and Martin 2002), and Propiedades Comunitarias (Government of Bolivia & FAO 2007).
- xxxii TIOCs "otorgados" and "titulados", Propiedades Comunitarias (Fundación Tierra 2011) and Títulos Comunales para Comunidades Agro-extractivas (Pacheco et al. 2009).
- xxxiii Area of forests owned by individuals and firms in 2002 and 2008 refers to Propiedades Privados "otorgados" and "autorizados" as of 2002 and 2006 (Government of Bolivia & FAO 2007); 2012 figure uses 2010 data (LIDEMA 2010, p. 329).
- xxxiv Public forests for 2000, 2005 and 2010. FAO 2010 (Country Report: Zambia).
- xxxv Sunderlin et al. 2008 notes 0.01 Mha of Joint Forest Management pilot areas, but as of January 2012, these areas no longer exist. Personal communication with Jacob Mwitwa, Professor, School of Natural Resources, Copperbelt University, Zambia, Mar. 5, 2012.
- xxxvi Approximately 3.4 Mha of land designated by FAO 2005 as "Other Wooded Lands" is under customary ownership, but not included here (c.f. Sunderlin et al. 2008).
- xxxvii In Venezuela, approximately 500,000 indigenous persons live in Venezuela, some within demarcated areas called Tierras Indígenas en Areas Bajo Regimen de Administracion Especial (Méndez, Manuel Briceño. 2005. Estudio de tendencias y perspectivas del Sector Forestal en América Latina. Rome: FAO, pp. 3, 7. <<ftp://ftp.fao.org/docrep/fao/009/j5484s/j5484s00.pdf>>). Much of the total ABRAE area of 66.63 Mha is forested, but more recent data on the extent of inhabited forested areas is not available. The indigenous population within ABRAE areas is concentrated in the states of Bolívar and Amazonas (Arias, Hortensia Caballero. 2007. La Demarcación de Tierras Indígenas en Venezuela. Rev. Venez. de Econ. y Ciencias Sociales 13 (3), pp. 189-208. <<http://www.scielo.org.ve/pdf/rvecs/v13n3/art13.pdf>>).

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- ^{xxxviii} Total forest area less forests in other tenure categories. FAO 2010 (Country Report: Tanzania).
- ^{xxxix} Joint Forest Management. Blomley, Tom and Said Iddi. 2009. "Participatory Forest Management in Tanzania 1993 – 2009: Lessons learned and experiences to date." Report commissioned by the Forestry and Beekeeping Division. Nairobi: Ministry of Natural Resources and Tourism, p. 19. <http://www.tzdpg.or.tz/uploads/media/EXPERIENCE_AND_LESSONS_LEARNED_IN_PARTICIPATORY_FOREST_MANAGEMENT_1.pdf>
- ^{xl} Community Forest Reserves (FAO 2005 as cited in Sunderlin et al. 2008) and Village Land Forest Reserve (2006 data from Ministry of Natural Resources and Tourism as cited in: Akina, Amina and Rosina Bromley. 2008. "Trends in forest ownership, forest resources, tenure and institutional arrangements: Are they contributing to better forest management and poverty reduction?", a case study from *Understanding forest tenure in Africa: opportunities and challenges for forest tenure diversification*. Forest Policy and Institutions Working Paper 19. Rome: FAO. <<ftp://ftp.fao.org/docrep/fao/010/i0161B/i0161B03.pdf>>
- ^{xli} FAO 2010 (Country Report: Tanzania).
- ^{xlii} Figures calculated by applying proportion of 99% customary forest ownership (reported in ODI 2007, as cited in Sunderlin et al. 2008) to total unlogged forest cover in 2002, based on most recent complete assessment of deforestation (Shearman, P.L., J.E. Bryan, J. Ash, P. Hunnam, B. Mackey and B. Lokes. 2008. *The State of the Forests of Papua New Guinea: Mapping the extent and condition of forest cover and measuring the drivers of forest change in the period 1972-2002*. Port Moresby: University of Papua New Guinea, p. 13.)
- ^{xliii} Refers to total dense forest in 2010. de Wasseige 2012, Table 1.1.
- ^{xliv} While legislation provides for Management Contracts with the national parks administration and Community Forest areas, these regimes are not yet implemented.
- ^{xlvi} FAO 2010 (Country Report: Rep. of Congo).
- ^{xlvi} Refers to Lac Télé Community Forest Reserve (c.f. Sunderlin et al. 2008). Recent legislation has created the potential for establishing Indigenous Populations' Land, but none yet exist.
- ^{xlvii} Refers to forests under the following ownership categories: "State," "state-owned companies," "other public owners" and "other." Swedish Forest Agency. 2011. *Swedish Statistical Yearbook of Forestry*. Stockholm: Swedish Forest Agency. <<http://www.skogsstyrelsen.se/yearbook>>
- ^{xlviii} Refers the area of productive forestland in the Forest Commons with a non-industrial, private owner-- forest industry ownership of Forest Commons is excluded; the entire Forest Commons covers 536,646 ha. Data originally from: Carlsson, L. 1995. "Skogsallmänningarna i Sverige." *Forskningsrapport Tulea 22*: p. 13, as cited in: Holmgren, Eva. 2009. "Forest Commons in Boreal Sweden: Aims and Outcomes on Forest Condition and Rural Development." Doctoral Thesis, Department of Forest Resource Management, Faculty of Forest Sciences. Umeå: Swedish University of Agricultural Sciences, p. 28. <http://pub.epsilon.slu.se/2173/1/Kappa_Finalrev_1.pdf>
- ^{xlix} Private forest areas in 2002, 2008 and 2012 refer to private forest areas given by the Swedish Forest Agency for 2002, 2007 and 2011, less Forest Commons area (c.f. Sunderlin et al. 2008).
- ^l Public forests are calculated as total forest area (FAO 2010) less Community Forest areas.
- ^{li} Areas designated for community and indigenous peoples' use refer to all Community Forests (from areas with provisional plans, to those with signed full management plans). 2010 Ministry of Forests and Wildlife data as cited in: Cuny, Pascal. 2011. *Etat des lieux de la foresterie communautaire et communale au Cameroun*. Wageningen: Tropenbos International, p. 12.
- ^{lii} In Mozambique, areas designated for community and indigenous peoples' use potentially comprise Zones with Historical Culture Use and Value and Community DUATs Within Multiple Use Areas (without certification), but verifiable data on the forests within these zones is not available.

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- liii Refers to the extent of Certified Community Land delimitations in Niassa, Sofala, Tete and Zambezia provinces; includes some non-forested land. 2009 data from National Directorate of Land and Forests, as cited in: De Wit, Paul and Simon Norfolk. 2010. "Recognizing Rights to Natural Resources in Mozambique." Washington DC: Rights and Resources Initiative, p. 10, 14-15. <http://www.rightsandresources.org/documents/files/doc_1467.pdf>
- liv FAO 2010 (Country Report: Mozambique).
- lv 2009 Office of Forest Land Management estimate, as cited in FAO 2010 (Country Report: Thailand).
- lvi Allocated Community Forests. 2012 data from website of Royal Forest Department's Community Forest program <http://www.forest.go.th/community_forest/index.php?lang=th>
- lvii Refers to rubber plantations only. FAO 2010.
- lviii FAO 2010 (Country Report: Guyana).
- lix Titled Amerindian Village Land. 2011 Guyana Lands and Surveys Commission data as cited in: Government of Guyana and Pöyry Forest Industry. 2011. "Guyana REDD+ Monitoring Reporting and Verification System: Interim Measures Report." Georgetown, Guyana: Guyana Forestry Commission, p. 6. <http://www.regjeringen.no/upload/MD/2011/vedlegg/klima/klima_skogprosjektet/Guyana/Guyana_MRVS_Interim_Measures_Report_16March2011.pdf>
- lx FAO 2010.
- lxi Government-administered forests for all years refer to 2000, 2005 and 2010 total forest area (FAO 2010) less the total area of Community Forests and Community Protected Areas, including those areas under development where management agreements have not yet been signed. 2011 Ministry of Environment databases on on Community Forests and Community Protected Areas, as provided by authors of Dahal, Atkinson and Bampton 2011.