

General information

Country:	South Korea
National Correspondent: (Name and contact information)	Nam-Chang Park (pnch@foa.go.kr) Tel : 82-55-760-5013
Other professionals involved in the reporting process:	
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1 Table T1 – Extent of Bamboo Forest

1.1 GBRA 2005 Categories and definitions

Category	Definition
Bamboo on forest land	Bamboo on lands defined as "Forest" in FRA 2005.

1.2 National Data on Bamboo Resources

1.2.1 Data sources

References	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Statistical Yearbook of Forestry	H		2004	

1.2.2 Classification and definitions

National class	Definition
Bamboo stand	Bamboo stand covers over 75% of standing tree in unit area

1.2.3 Original data

1.3 Data for National Reporting Table T1

GBRA 2005 Categories	Area (1000 hectares)		
	1990	2000	2003
Bamboo on forest land			
Monopodial bamboo area	8	6.1	6.1
Sympodial bamboo area			
TOTAL	8	6.1	6.1

1.4 Comments to National Reporting Table T1

* Total sum of bamboo on forest land in 2004 is now in progress.

* In our country, we include only major 3 bamboo species in statistical calculation (*Phyllostachys bambusoides*, *P. pubescens*, *P. nigra* var. *henonis*).

2 Table T2 – Ownership of Bamboo Forest

2.1 GBRA 2005 Categories and definitions

Category	Definition
Private ownership	Same as FRA: Land owned by individuals, families, private co-operatives, corporations, industries, religious and educational institutions, pension or investment funds, and other private institutions.
Public ownership	Same as FRA: Land owned by the State (national, state and regional governments) or government-owned institutions or corporations or other public bodies including cities, municipalities, villages and communes.
Other ownership	Same as FRA: Land that is not classified either as “Public ownership” or as “Private ownership”.

2.2 National Data on Bamboo Resources

2.2.1 Data sources

References	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Statistical Yearbook of Forestry	H		2004	

2.2.2 Classification and definitions

National class (Bamboo)	Definition

2.2.3 Original data

2.3 Data for National Reporting Table T2

GBRA 2005 Categories	Area (1000 ha)	
	1992	2003
Private ownership	8.03	5.8
Public ownership	0.03	0.3
Other ownership	-	-
Total	8.06	6.1

2.4 Comments to National Reporting Table T2

* Total sum of bamboo on forest land in 2004 is now in progress.

* In our country, we include only major 3 bamboo species in statistical calculation (*Phyllostachys bambusoides*, *P. pubescens*, *P. nigra* var. *henonis*).

3 Table T3 – Characteristics of Bamboo Forest

3.1 GBRA 2005 Categories and definitions

Category	Definition
Natural bamboo forest	Bamboo area of naturally regenerated native bamboo species.
Plantation	Bamboo area of native or introduced species, established through planting, seeding or assisted natural regeneration.

3.2 National data on Bamboo in Forest

3.2.1 Data sources

References	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Statistical Yearbook of Forestry	H		2003	

3.2.2 Classification and definitions

National class	Definition

3.2.3 Original data

3.3 Data for National Reporting Table T3

GBRA 2005 Categories	Area (1000 hectares)		
	1990	2000	2003
Natural bamboo forest	-	-	-
Plantation	8.0	6.1	6.1
TOTAL	8.0	6.1	6.1

3.4 Comments to National Reporting Table T3

* Total sum of bamboo on forest land in 2004 is now in progress.

* In our country, we include only major 3 bamboo species in statistical calculation (*Phyllostachys bambusoides*, *P. pubescens*, *P. nigra* var. *henonis*).

4 Table T4 – Bamboo Growing Stock

4.1 GBRA 2005 Categories and definitions

Category	Definition
Bamboo Growing stock	Weight (tons) of all bamboo forest more than X cm in diameter at breast height.
Commercial growing stock of Bamboo	The part of the growing stock of bamboo species that are considered as commercial or potentially commercial under current market conditions, and with a diameter at breast height of Z cm or more.
Growing stock of Common bamboo species	Weight (tons) of the most common bamboo species.

4.2 National data on Bamboo Resources

4.2.1 Data sources

References	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
No data				

4.2.2 Classification and definitions

Category	Definition

4.2.3 Original data

4.3 Data for National Reporting Table T4

GBRA 2005 Categories	Total weight (tons)		
	1990	2000	2005
Bamboo Growing stock			
....			

Note: if possible, please (1) breakdown by species groups (2) include information on the minimum diameter used as thresholds and (3) provide coefficient of number of culms per a ton of weight

4.4 Comments to National Reporting Table T4

5 Table T5 – Bamboo Biomass stock

5.1 GBRA 2005 Categories and definitions

Category	Definition
Above-ground biomass of Bamboo	All living biomass above the soil including stem, stump, branches, bark, seeds, and foliage.
Below-ground biomass of Bamboo	All living biomass of live roots. Fine roots of less than 2mm diameter are excluded because these often cannot be distinguished empirically from soil organic matter or litter.

5.2 National Data on Bamboo Resources

5.2.1 Data sources

References	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Park, I.H. and S.B. Ryu. 1996. Biomass, net production and nutrient distribution of bamboo <i>Phyllostachys</i> stands in Korea. J. of Kor. For. Soc. 85(3):453-461 (in Korean with English abstracts)	H			

5.2.2 Classification and definitions

Category	Definition

5.2.3 Original data

5.3 Data for National Reporting Table T5

GBRA 2005 Categories	Bamboo Biomass (million metric ton dry weight)		
	1990	2000	2003
Above-ground biomass of Bamboo	0.271	0.206	0.206
Below-ground biomass of Bamboo	0.136	0.103	0.103
Total of living biomass			
TOTAL	0.406	0.309	0.310

5.4 Comments to National Reporting Table T5

* Bamboo biomass mentioned above includes only 3 major bamboo species in Korea.

* Suggested bamboo biomass data was estimated from above paper published in Korea in 1996.

6 Table 6 – Diversity of bamboo tree species

6.1 GBRA 2005 Categories and definitions

Category	Definition
Number of native Bamboo species	The total number of native tree species that have been identified within the country.
Number of introduced Bamboo species	The total number of introduced tree species that have been identified within the country.
Number of critically endangered Bamboo species	The number of native tree species that are classified as “Critically endangered” in the IUCN red list.
Number of endangered Bamboo species	The number of native tree species that are classified as “Endangered” in the IUCN red list.
Number of vulnerable Bamboo species	The number of native tree species that are classified as “Vulnerable” in the IUCN red list.

6.2 National Data on Bamboo Resources

6.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments

6.2.2 Classification and definitions

Category	Definition

6.3 Data for National Reporting Table T6

GBRA 2005 Categories	Number of species (Year 2005)
Native Bamboo species	5
Introduced Bamboo species	46
Critically endangered Bamboo species	-
Endangered Bamboo species	-
Vulnerable Bamboo species	-

6.4 Comments to National Reporting Table T6

* The number of bamboo species includes all kind of bamboo species in bamboo exhibition garden managed by southern forest research center (SFRC/KFRI).

7 Table T7 – Bamboo Removal

7.1 GBRA 2005 Categories and Definitions

Category	Definition
Bamboo Wood removal	The Bamboo wood removed (volume) for production of goods and services other than energy production (woodfuel).
Woodfuel Bamboo removal	The Bamboo wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

7.2 National Data on Bamboo Resources

7.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
No data				

7.2.2 Classification and definitions

National class	Definition

7.2.3 Original data

7.3 Data for National Reporting Table T7

GBRA2005	Bamboo removal (million ton)		
	1990	2000	2005
Bamboo wood removal			
Bamboo woodfuel removal			
Total	No data	No data	No data

7.4 Comments to National Reporting Table T7

8 Table 8 – Value of Wood Removal

8.1 GBRA 2005 Categories and Definitions

Category	Definition
Bamboo Wood removal	The Bamboo wood removed (volume) for production of goods and services other than energy production (woodfuel).
Woodfuel Bamboo removal	The Bamboo wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

8.2 National Data

8.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
No data				

8.2.2 Classification and definitions

National class	Definition

8.2.3 Original data

8.3 Data for National Reporting Table T8

GBRA2005	Value (million USD)		
	1990	2000	2005
Bamboo wood removal			
Bamboo woodfuel removal			
Total	No data	No data	No data

8.4 Comments to National Reporting Table T8

9 Table 9 – Non Wood Bamboo Product Removal

9.1 GBRA2005 Categories and Definitions

Category
<u>Plant products / raw material</u>
1. Food
2. Raw material for medicine and aromatic products
3. Raw material for utensils, handicrafts & construction
4. Ornamental plants
5. Other plant products
<u>Animal products / raw material</u>
1. Living animals
2. Other edible animal products
3. Other non-edible animal products

9.2 National Data on Bamboo Resources

9.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments

9.2.2 Classification and definitions

9.2.3 Original data

9.3 Data for National Reporting Table T9

GBRA 2005 Categories	Scale factor	Unit	NWFP removal		
			1990	2000	2005
<u>Plant products / raw material</u>					
1. Food (bamboo shoots)		ton	1,634	678	no data
2. Raw material for medicine and aromatic products					
3. Raw material for utensils, handicrafts & construction					
4. Ornamental plants					
5. Other plant products					
<u>Animal products / raw material (if any)</u>					
1. Living animals					
2. Other edible animal products					
3. Other non-edible animal products					

9.4 Comments to National Reporting Table T9

10 Table T10– Value of Non Wood Bamboo Product

10.1 GBRA 2005 Categories and Definitions

10.2 National Data on Bamboo Resources

10.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments

10.2.2 Classification and definitions

10.2.3 Original data

10.3 Data for National Reporting Table T10

GBRA 2005 Categories	Value of the other than culms removal (Million USD)		
	1990	2000	2005
Plant products / raw material			
1. Food (bamboo shoots)	0.477	1.6	No data
2. Raw material for medicine and aromatic products			
3. Raw material for utensils, handicrafts & construction			
4. Ornamental plants			
5. Other plant products			

10.4 Comments to National Reporting Table T10

11 Map of country's bamboo resources distribution

* Next time, I will attach map of bamboo resources distribution.

12 List of bamboo species in the country

Scientific name
<i>Arundinaria chino</i> var. <i>gracilis</i> Makino
<i>Arundinaria communis</i> Makino
<i>Arundinaria hindsii</i> Munro
<i>Arundinaria hisauchii</i> Makino
<i>Arundinaria simonii</i> A et C. Riv
<i>Arundinaria simonii</i> var. <i>variegata</i> Hooker
<i>Arundinaria variegata</i> Makino
<i>Arundinaria variegata</i> var. <i>tanakae</i> Makino
<i>Arundinaria variegata</i> var. <i>viridis-striata</i> Makino
<i>Bambusa nana</i> Roxb.
<i>Chimonobusa marmorea</i> Makino
<i>Pseudosasa japonica</i> Makino
<i>Phyllostachys aurea</i> Carriere ex A. Riviere et C. Riviera
<i>Phyllostachys aurea</i> var. <i>flavescens-inversa</i> Nakai
<i>Phyllostachys bambusoides</i> for. <i>kawadana</i> Makino
<i>Phyllostachys bambusoides</i> S. et Z.
<i>Phyllostachys bambusoides</i> var. <i>castillonis-inversa</i> Houzeau de Lehaie
<i>Phyllostachys bambusoides</i> var. <i>tanakae</i> Makino
<i>Phyllostachys bambusoides</i> var. <i>castillonis</i> Makino
<i>Phyllostachys edulis</i> var. <i>heterocycla</i> for. <i>subconvexa</i> Makino
<i>Phyllostachys nigra</i> for. <i>bicolor</i> Nakai
<i>Phyllostachys nigra</i> for. <i>punctata</i> Nakai
<i>Phyllostachys nigra</i> var. <i>cnigra</i> Munro
<i>Phyllostachys nigra</i> var. <i>henonis</i> Stapf
<i>Phyllostachys pubescens</i> Mazel ex Houzeau de Lehaie
<i>Pleioblastus argenteostriatus</i> for. <i>pumilis</i> Muroi
<i>Pleioblastus argenteostriatus</i> Nakai
<i>Pleioblastus chino</i> for. <i>anaustifolius</i> Muroi et H. Okamura
<i>Pleioblastus chino</i> Makino
<i>Pleioblastus pygmaeus</i> var. <i>distichus</i> Nakai
<i>Pleioblastus vaginatus</i> Nakai
<i>Pleioblastus viridistriatus</i> Makino
<i>Sasa albo-marginata</i> Makino et Shibata
<i>Sasa kurilensis</i> Makino
<i>Sasa kurillensis</i> var. <i>kurillensis</i> Makino
<i>Sasa nana</i> Makino
<i>Sasa nipponica</i> Makino et Shibata
<i>Sasa paniculata</i> for. <i>nebulosa</i> Makino et Shibata
<i>Sasa pubens</i> Nakai
<i>Sasa quelpaertensis</i>
<i>Sasa ramosissima</i> Makino et Shibata
<i>Sasa tsuboiana</i> Makino
<i>Sasaella</i> var. <i>ramosa</i> Makino
<i>Semiarundinaria fastuosa</i> Makino
<i>Semiarundinaria yashadake</i> Makino
<i>Shibataea kumasasa</i> Nakai
<i>Sinibambusa tootsik</i> Makino

* The list of bamboo species includes all kind of bamboo species in bamboo exhibition garden managed by southern forest research center (SFRC/KFRI).