



QUESTIONNAIRE ON POPLARS AND WILLOWS 2011

INTRODUCTION

The questionnaire on poplars and willows is designed to complement the Country Reports for the 24th IPC Session in 2012.

Response to the questionnaire is crucial for FAO to allow country, regional and global analyses of status and trends in forest sector development and to assist in improving formulation of policies, preparing outlook studies and undertaking planning, management, monitoring and reporting.

We understand the difficulties that experts may find in providing such information, however in lack of detailed statistical data, aggregated data and/or best professional estimates are also very much appreciated.

CONTACTS

For queries in completing this questionnaire please contact:

IPC-Secretariat, IPC-Secretariat@fao.org, or
Mr. Alberto Del Lungo, forestry officer, alberto.dellungo@fao.org

Thank you very much for your cooperation !

We would appreciate your contact details in case we may have any queries

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Table 1: Total area of poplars and willows 2011 by main forest categories, forest function and area planted from 2008 to 2011 (area change over the last 4 years)

The main FAO forest categories can be classified as:

Indigenous forest	forest of native species, where there are no clearly visible indications of human activities
Planted forest	forest of <u>native species</u> , or of <u>introduced species</u> , established through planting or seeding mainly for <i>production of wood or nonwood goods</i> and/or <i>provision of environmental services</i>
Agroforestry/trees outside forests (TOF):	Stands smaller than 0.5 ha; trees in agricultural land (agroforestry systems, homegardens, orchards); trees in urban environments; and scattered along roads and in landscapes

In the following table please indicate for the year 2011 the area (ha) of poplars and willows, the forest area allocated to forest functions (%) and the area planted (afforestation and reforestation) from 2008 to 2011 (4 years).

Please note that the total of the four forest functions cannot be more than 100% horizontally

Remark: For Flanders only data are available from the forest mapping and the forest inventory, respectively 2000 and 2001. So no trends could be defined. The new forest inventory started in 2009 and will last 10 years, so only data are actually available of 20 % of the forest area.

For the Walloon region more recent data are available. So the data are given apart for the Flemish (F) and the Walloon region (W).

A general trend in decrease in surface of poplar plantations is noticed, due to the nature conservation policy in the alluvial planes, and also to the problems related with *Melampsora*.

Table 1

Forest category		Total Area 2011 (ha)	Total area by forest function in %				Area planted from 2008-2011 (reforestation and afforestation) (ha)
			Production		Protection (%)	Other* (%)	
			Industrial roundwood, (%)	Fuelwood biomass (%)			
Indigenous	Poplars						
	W: F:	1 360 700			100 100		2,0
	Willows						
	W: F:	5 560 200			100 100		
	Mix of P&W						
	Total						
	W: F:	6 920 900					
Planted	Poplars						



	W: F:	11 180 21 750	100 100				Approx.1600–1800 Unknown
	Willows W: F:	0 20					
	Mix of P&W						
	Total W: F:	11 180 21 770					
Agrofor./ TOF	Poplars	No data					
	Willows	No data					
	Mix of P&W	No data					
	Total	No data					
	Grand Total W: F:	<u>18 100</u> <u>21 770</u>					

*Please specify other function:

Table 2: Mean Annual Increment (MAI), rotation lengths, and wood removals 2011 by forest category, species, cultivar or clone

Please note that the Grand Total of the area % (column 2) cannot be more than 100% vertically

Table 2

Forest category and species, cultivar or clone		Area (%)	Avg MAI m ³ /ha/yr	Average rotation length (yrs)			Wood removals 2011 in m ³		
				Production		Protection	Production		Protection
				Industr. roundwood	fuelwood, biomass		Industr. roundwood,	fuelwood, biomass	
Indigenous	Poplars								
	P. alba (F)	0.06	?			0	0	0	
	P. nigra								
	P. tremula (W)	7.5	?	=	=	0	0	0	
	Willows								
	S. alba								
	All Salix			=	-	0	0	0	
	W:	30.7	?		-		?		
	F:	0.04	?		3				



Plant	Poplars								
	P. alba								
	P. nigra								
	P. X eurameri cana	<u>61.8</u> (W) <u>99.0</u> (E)	<u>11.8</u>	<u>25-30</u>	=	=	320 000 for Belgium	<u>0</u>	<u>0</u>
	Willows								
	S. alba								
	Grand Total	100							

Table 3: Main cultivars/clones in use in planted forests

Please list the main cultivars in use, starting with the most common, assign a percentage share and indicate (a) whether they originate from certified germplasm and (b) what is their major end-use (e.g. veneer production, fibre production, biomass, etc.):

Please note that totals by species (column 2) should tally to 100% vertically for both, poplars and willows

Table 3

Main cultivars/clones in use	%	Originates from certified germplasm (yes/no)	Major end-use
Poplars			
1) 'Vesten'	<u>20-25</u>	Yes Belgian	Industrial round wood
2) 'Koster'	<u>20-25</u>	Yes Netherlands	Industrial round wood
3) 'Grimminge'	<u>10</u>	Yes Belgian	Industrial round wood
4) 'Serotina blanc du Poitou'	<u>10</u>	No	Industrial round wood
5) 'Gaver'	<u>8-9</u>	Yes Belgian	Industrial round wood
6) 'A4A'	<u>5-6</u>	Yes Italy	Industrial round wood
7) 'Oudenberg'	<u>5-6</u>	Yes Belgian	Industrial round wood
8) 'Trichobel'	<u>4</u>	Yes Belgian	Industrial round wood
9) 'Ogy'	<u>3-4</u>	Yes Belgian	Industrial round wood
10) others	<u><10</u>	Yes	Industrial round wood
Total poplars	100		



Willows			
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
Total willows	100		

Table 4: Tree ownership in 2011

Tree ownership types are classified as follows:

Public ownership	Trees owned by the State (national, state, regional governments) or government-owned institutions/corporations or other public bodies including cities, municipalities and villages.
Private corporate ownership	Trees owned by private companies, co-operatives, corporations, industries, private religious and educational institutions, pension or investment funds (generally large scale)
Private smallholder ownership	Trees owned by individuals, families or village communities (generally small scale)
Other ownership	Ownership of trees not classified as public or private. Includes land where tree ownership is not defined or unknown (e.g. community, traditional).

Please list following the above ownership classification the area of poplars and willows, as percentage of the total area reported in table 1.

Please note that totals by ownership categories should tally to 100% horizontally.

Table 4



Forest category		Public ownership			Private corporate ownership			Private smallholder ownership			Other ownership		
		Prod	Prot	Other	Prod	Prot	Other	Prod	Prot	Other	Prod.	Prot.	Other
		%	%	%	%	%	%	%	%	%	%	%	%
Indigenous	Poplars		20			80							
	Willows							100					
Planted	Poplars				5			95					
	Willows												
Agrofor./ TOF	Poplars				100								
	Willows												

Table 5: Forest products from poplars and willows 2011

Please list by forest category the products that have been produced from poplars and willows in 2011. Please use roundwood equivalents (1000 m³ r) as measuring unit. The general conversion factors for each single product are given below (in case your country specific conversion factors are not available):

Product	Measuring unit of the product	Conversion factor to roundwood equivalents
Fuelwood	metric tonnes or m ³ stacked wood	1 metr. tonne = 4 m ³ (r) 1 m ³ stacked wood = 1.8 m ³ (r)
Chips	metric tonnes	1 metr. tonne = 1.7 m ³ (r)
Mechanical woodpulp	metric tonnes	1 tonne mech. pulp = 2.5 m ³ (r)
Chemical woodpulp		1 tonne chem. pulp = 4.5 m ³ (r)
Particleboard	m ³ of the product	1 m ³ particleboard = 1.4 m ³ (r)
Fibreboard (hardboard, MDF)		1 m ³ fibreboard = 2.0 m ³ (r)
Veneer sheets	m ³ of the product	1 m ³ = 1.9 m ³ (r)
Plywood	m ³ of the product	1 m ³ = 2.5 m ³ (r)
Sawn timber	m ³ of the product	1 m ³ = 1.8 m ³ (r)



Table 5: Forest products from poplars and willows

Forest category		Fuelwood chips	Industrial roundw. (logs, pulpw.)	Wood-pulp (mech. or chem.)	Particleboard fibreb. (MDF, (hardboard)	Veneer sheets	Plywood	Sawn-timber
		'000 m ³ (r)						
Indigenous	From poplars							
	From willows							
Planted	From poplars		300 000 Belgium			292 000 Belgium estimate on base of import, export, local balance		188 000 Belgium
	From willows							
Agrofor./ TOF	From poplars							
	From willows							

Table 6: Foreign trade with poplars and willows in 2011

Please list the **products from poplars and willows** that have been traded internationally in 2011. Please use roundwood equivalents (1000 m³ r) as the measuring unit and indicate the countries of origin and destination respectively, if possible.

Imports of poplar and willow products 2011	'000 m ³ (r)	Countries of origin	Estimated share of country of origin in p&w imports of this product (%)
Fuelwood, chips		1) 2) 3)	1) 2) 3)
Industrial roundwood (logs, pulpwood)	224 Belgium (2009)	1) 2) 3)	1) 2) 3)
Wood pulp (mech. or chem.)		1) 2) 3)	1) 2) 3)
Particleboard, fibreboard (hardboard, MDF)		1) 2) 3)	1) 2) 3)
Veneer sheets		1) 2) 3)	1) 2) 3)
Plywood		1) 2) 3)	1) 2) 3)
Sawn timber		1)	1)



		2) 3)	2) 3)
Exports of poplar and willow products 2011	'000 m3 (r)	Destination countries	Estimated share of the destination country in p&w exports of this product (%)
Fuelwood, chips		1) 2) 3)	1) 2) 3)
Industrial roundwood (logs, pulpwood)	44 Belgium (2009)	1) China Hong Kong 2) Maroc 3) France 4) Italy	1) 40,4 2) 36,6 3) 9,3 4) 8,2
Wood pulp (chem.. or chem..)		1) 2) 3)	1) 2) 3)
Particleboard, fibreboard (hardboard, MDF)		1) 2) 3)	1) 2) 3)
Veneer sheets		1) 2) 3)	1) 2) 3)
Plywood		1) 2) 3)	1) 2) 3)
Sawntimber		1) 2) 3)	1) 2) 3)

Table 7: Your opinion is important to us! Please reflect on the prevailing trends until 2020 in the development of poplars and willows in your country!

What is your opinion on the following issues:

Please put a cross in the column you think most appropriate

As forest policy is a regionalized matter the opinion is given separately for Walloon and Flemish Region

Walloon Region

	increase	decrease	remain as it is	don't know
The conversion of natural poplar and willow forests to other land uses will...	x			
The area of planted poplar and willow forests will....		x		
The area of poplars and willows for	x			



bioenergy plantations will				
Investments in poplar and willow tree breeding programs will		x		
Government investments in the poplar and willow sector will ...			x	
Private investments in the poplar and willow sector will ...				x
The significance of poplars and willows for productive purposes will	x			
The significance of poplars and willows for environmental purposes will	x			
The rejection by environmental groups of planted poplar and willow forests will			x	
The acceptance by the general public of poplars and willows being important natural resources will.....			x	

Femish Region

	increase	decrease	remain as it is	don't know
The conversion of natural poplar and willow forests to other land uses will...			x	
The area of planted poplar and willow forests will....		x		
The area of poplars and willows for bioenergy plantations will	x			
Investments in poplar and willow tree breeding programs will		x		
Government investments in the poplar and willow sector will ...		x		
Private investments in the poplar and willow sector will ...		x		
The significance of poplars and willows for productive purposes will	x			
The significance of poplars and	x			



willows for environmental purposes will				
The rejection by environmental groups of planted poplar and willow forests will	x			
The acceptance by the general public of poplars and willows being important natural resources will.....		x		

---END OF QUESTIONNAIRE---