



## ***QUESTIONNAIRE ON POPLARS AND WILLOWS 2011***

### INTRODUCTION

The questionnaire on poplars and willows is designed to complement the Country Reports for the 24<sup>th</sup> 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](mailto:IPC-Secretariat@fao.org), or  
Mr. Alberto Del Lungo, forestry officer, [alberto.dellungo@fao.org](mailto:alberto.dellungo@fao.org)

**Thank you very much for your cooperation !**

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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:

<b>Indigenous forest</b>	forest of native species, where there are no clearly visible indications of human activities
<b>Planted forest</b>	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>
<b>Agroforestry/trees outside forests (TOF):</b>	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**

**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 (%)			
<b>Indigenous</b>	<b>Aspen</b>	-			100		0
	<b>Willows</b>	-			100		0
	<b>Mix of P&amp;W</b>						
	<b>Total</b>						
<b>Planted</b>	<b>Aspen &amp; Poplars</b>	16,5 milj m <sup>3</sup> 2 500 ha	100 20	80			1 500
	<b>Willows</b>	11 100 ha		100			2 000
	<b>Mix of P&amp;W</b>						
	<b>Total</b>						
<b>Agrofor./ TOF</b>	<b>Poplars</b>	0					
	<b>Willows</b>	0					
	<b>Mix of P&amp;W</b>	0					
	<b>Total</b>	0					
<b>Grand Total</b>							

\*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 <sup>3</sup> /ha/yr	Average rotation length (yrs)			Wood removals 2011 in m <sup>3</sup>		
				Production		Protection	Production		Protection
				Industr. roundwood	fuelwood, biomass		Industr. roundwood,	fuelwood, biomass	
<b>Indigenous</b>	<b>Poplars</b>								
	P. tremula					150		0	
	<b>Willows</b>								
	S. caprea							0	
<b>Planted</b>	<b>Poplars</b>								
	P. tremula		8	60	60	-	400 000	60 000	
	P. tremula x tremuloides		20	20-25	20-25	-	-	-	
	P. trichocarpa (x spp.)		25	-	15-20	-	-	-	
	<b>Willows</b>								
	S. spp.		25	-	4-5	-	-	-	
<b>Grand Total</b>		<b>100</b>							



***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
<b>Poplars</b>			
1) OP42	35		biomass
2) Hybrid aspen Ekebo KB-002	60		biomass, pulpwood
3) Poplar Ekebo KB-003	5		biomass
4)			
5)			
6)			
7)			
8)			
9)			
10)			
<b>Total poplars</b>	<b>100</b>		
<b>Willows</b>			
1) Gudrun	4		biomass
2) Inger	26		biomass
3) Klara	4		biomass
4) Lisa	4		biomass
5) Olof	4		biomass
6) Stina	4		biomass
7) Sven	4		biomass
8) Tora	26		biomass
9) Tordis	20		biomass
10) Torhild	4		biomass
<b>Total willows</b>	<b>100</b>		



***Table 4: Tree ownership in 2011***

Tree ownership types are classified as follows:

<b>Public ownership</b>	Trees owned by the State (national, state, regional governments) or government-owned institutions/corporations or other public bodies including cities, municipalities and villages.
<b>Private corporate ownership</b>	Trees owned by private companies, co-operatives, corporations, industries, private religious and educational institutions, pension or investment funds (generally large scale)
<b>Private smallholder ownership</b>	Trees owned by individuals, families or village communities (generally small scale)
<b>Other ownership</b>	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
		%	%	%	%	%	%	%	%	%	%	%	%
<b>Indigenous</b>	<b>Poplars</b>												
	<b>Willows</b>												
<b>Planted</b>	<b>Aspen</b>	25			25			50					
	<b>Poplars</b>	0			10			90					
	<b>Willows</b>							100					
<b>Agrofor./ TOF</b>	<b>Poplars</b>												
	<b>Willows</b>												



**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 m<sup>3</sup> 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 <sup>3</sup> stacked wood	1 metr. tonne = 4 m <sup>3</sup> (r) 1 m <sup>3</sup> stacked wood = 1.8 m <sup>3</sup> (r)
Chips	metric tonnes	1 metr. tonne = 1.7 m <sup>3</sup> (r)
Mechanical woodpulp Chemical woodpulp	metric tonnes	1 tonne mech. pulp = 2.5 m <sup>3</sup> (r) 1 tonne chem. pulp = 4.5 m <sup>3</sup> (r)
Particleboard Fibreboard (hardboard, MDF)	m <sup>3</sup> of the product	1 m <sup>3</sup> particleboard = 1.4 m <sup>3</sup> (r) 1 m <sup>3</sup> fibreboard = 2.0 m <sup>3</sup> (r)
Veneer sheets	m <sup>3</sup> of the product	1 m <sup>3</sup> = 1.9 m <sup>3</sup> (r)
Plywood	m <sup>3</sup> of the product	1 m <sup>3</sup> = 2.5 m <sup>3</sup> (r)
Sawn timber	m <sup>3</sup> of the product	1 m <sup>3</sup> = 1.8 m <sup>3</sup> (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 <sup>3</sup> (r)						
Indigenous	From poplars							
	From willows							
Planted	From aspen	60	380					20
	From willows	10	50					
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 m<sup>3</sup> r) as the measuring unit and indicate the countries of origin and destination respectively, if possible.

<b>Imports of poplar and willow products 2011</b>	<b>'000 m3 (r)</b>	<b>Countries of origin</b>	<b>Estimated share of country of origin in p&amp;w imports of this product (%)</b>
Fuelwood, chips		1) 2) 3)	1) 2) 3)
Industrial roundwood (logs, pulpwood)		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) 2) 3)	1) 2) 3)
<b>Exports of poplar and willow products 2011</b>	<b>'000 m3 (r)</b>	<b>Destination countries</b>	<b>Estimated share of the destination country in p&amp;w exports of this product (%)</b>
Fuelwood, chips		1) 2) 3)	1) 2) 3)
Industrial roundwood (logs, pulpwood)		1) 2) 3)	1) 2) 3)
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

	increase	decrease	remain as it is	don't know
The conversion of <b>natural</b> poplar and willow forests to other land uses will...			x	
The area of <b>planted</b> 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 <b>productive</b> purposes will .....	x			
The significance of poplars and willows for <b>environmental</b> purposes will .....			x	
The rejection by environmental groups of <b>planted</b> 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---