



Joint Forest Sector Questionnaire: JFSQ Introduction



Forest Product Statistics Webinar

12 April 2024



FORESTS



- Background and Deadlines
- JFSQ structure
- Product structure
- Questionnaire structures: JQ1, 2 and 3, ECE-EU

JFSQ Background

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- Managed by the Intersecretariat Working Group on Forest Sector Statistics
 - ECE, FAO, Eurostat, ITTO
 - JFSQ Replies are shared among the 4 organizations
- Available in English, French, Russian, Spanish
- 2023 Cycle:
 - Sent to National Correspondents on 9 April 2024
 - ECE and Eurostat deadline for replies: 10 June

JFSQ Structure: JQ1, 2 and 3; ECE-EU

JQ 1

Removals

Primary
Products
Production

JQ 2

Primary
Products
Trade

JQ 3

Secondary
Products
Trade

ECE-EU

Species Trade

*(Industrial
Roundwood,
Sawnwood)*



Joint Forest Sector Questionnaire: Updates to JFSQ for 2023 data



Based on slides developed by Melinda Verebelyine Dosa,
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Modified by UNECE with permission

Forest Product Statistics Webinar

12 April 2024





Changes in the questionnaire

- Updated a limited number of JFSQ product codes
- Updated correspondence with other classifications (annex 1-4)
- Added list of tropical countries and territories for JFSQ reporting on tropical timber
- Updated some product definitions

Changes in the questionnaire

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- Reported items

Item 5 “Wood pellets and other agglomerates” was renamed as “Wood pellets, **briquettes** and other agglomerates”.

Item 5.2 “Other agglomerates” was renamed as “**Wood briquettes** and other agglomerates”.



UNECE eurostat



Food and Agriculture Organization of the United Nations



FOREST SECTOR QUESTIONNAIRE

PRIMARY PRODUCTS
Trade

Specify Currency and Unit of Value (e.g.:1000 USD): _____

Product code	Product	Unit of quantity	IMP	
			2021	
			Quantity	Value
1	ROUNDWOOD (WOOD IN THE ROUGH)	1000 m ³ ub		
1.1	WOOD FUEL (INCLUDING WOOD FOR CHARCOAL)	1000 m ³ ub		
1.1.C	Coniferous	1000 m ³ ub		
1.1.NC	Non-Coniferous	1000 m ³ ub		
1.2	INDUSTRIAL ROUNDWOOD	1000 m ³ ub		
1.2.C	Coniferous	1000 m ³ ub		
1.2.NC	Non-Coniferous	1000 m ³ ub		
1.2.NC.T	of which: Tropical ¹	1000 m ³ ub		
2	WOOD CHARCOAL	1000 t		
3	WOOD CHIPS, PARTICLES AND RESIDUES	1000 m ³		
3.1	WOOD CHIPS AND PARTICLES	1000 m ³		
3.2	WOOD RESIDUES (INCLUDING WOOD FOR AGGLOMERATES)	1000 m ³		
3.2.1	of which: Sawdust	1000 m ³		
4	RECOVERED POST-CONSUMER WOOD	1000 t		
5	WOOD PELLETS, BRIQUETTES AND OTHER AGGLOMERATES	1000 t		
5.1	WOOD PELLETS	1000 t		
5.2	WOOD BRIQUETTES AND OTHER AGGLOMERATES	1000 t		

Changes in the questionnaire

FORESTS



- Reported items

Item 15 (Glulam and CLT) from the JFSQ for 2022 data was eliminated.

Glulam, CLT and I-Beam numbering was changed from 15.1, 15.2 and 16, respectively, to 13.4.1, 13.4.2, and 13.4.3, respectively.

		FOREST SECTOR QUESTIONNAIRE PRIMARY PRODUCTS Trade		
		Specify Currency and Unit of Value (e.g.:1000 USD): _____		
Product code	Product	Unit of quantity	IM	
			2021	
			Quantity	Value
10.2	RECOVERED FIBRE PULP	1000 t		
11	RECOVERED PAPER	1000 t		
12	PAPER AND PAPERBOARD	1000 t		
12.1	GRAPHIC PAPERS	1000 t		
12.1.1	NEWSPRINT	1000 t		
12.1.2	UNCOATED MECHANICAL	1000 t		
12.1.3	UNCOATED WOODFREE	1000 t		
12.1.4	COATED PAPERS	1000 t		
12.2	HOUSEHOLD AND SANITARY PAPERS	1000 t		
12.3	PACKAGING MATERIALS	1000 t		
12.3.1	CASE MATERIALS	1000 t		
12.3.2	CARTONBOARD	1000 t		
12.3.3	WRAPPING PAPERS	1000 t		
12.3.4	OTHER PAPERS MAINLY FOR PACKAGING	1000 t		
12.4	OTHER PAPER AND PAPERBOARD N.E.S. (NOT ELSEWHERE SPECIFIED)	1000 t		
13.4.1	GLULAM ²	1000 m ³		
13.4.2	CROSS-LAMINATED TIMBER (CLT or X-LAM) ²	1000 m ³		
13.4.3	I-BEAMS (I-JOISTS) ²	1000 t		

¹Correspondents are requested to check bilateral trade and include non-coniferous non-tropical species exported by tropical countries.
²Glulam, CLT and I Beams are classified as secondary wood products but for ease of reporting are included here. They have been included in the questionnaire since 2017.

Changes in the questionnaire

FORESTS



- Reported items

Item 15 (Glulam and CLT) from the JFSQ for 2022 data was eliminated.

Glulam, CLT and I-Beam numbering was changed from 15.1, 15.2 and 16, respectively, to **13.4.1, 13.4.2, and 13.4.3**, respectively.

Item 13.4 Builder's joinery and carpentry of wood **includes** Glulam, CLT and I-beams.

FOREST SECTOR QUESTIONNAIRE JQ3					
SECONDARY PROCESSED PRODUCTS					
Trade					
					Telephone/Fax:
					E-mail:
Specify Currency and Unit of Value (e.g.: 1000 US \$): _____					
Product code	Product	IMPORT VALUE		EXPORT VALUE	
		2021	2022	2021	2022
13	SECONDARY WOOD PRODUCTS				
13.1	FURTHER PROCESSED SAWNWOOD				
13.1.C	Coniferous				
13.1.NC	Non-coniferous				
13.1.NC.T	of which: Tropical				
13.2	WOODEN WRAPPING AND PACKAGING MATERIAL				
13.3	WOOD PRODUCTS FOR DOMESTIC/DECORATIVE USE				
13.4	BUILDER'S JOINERY AND CARPENTRY OF WOOD				
13.5	WOODEN FURNITURE				
13.6	PREFABRICATED BUILDINGS OF WOOD				
13.7	OTHER MANUFACTURED WOOD PRODUCTS				
14	SECONDARY PAPER PRODUCTS				
14.1	COMPOSITE PAPER AND PAPERBOARD				
14.2	SPECIAL COATED PAPER AND PULP PRODUCTS				
14.3	HOUSEHOLD AND SANITARY PAPER, READY FOR USE				
14.4	PACKAGING CARTONS, BOXES ETC.				
14.5	OTHER ARTICLES OF PAPER AND PAPERBOARD, READY FOR USE				
14.5.1	of which: PRINTING AND WRITING PAPER, READY FOR USE				
14.5.2	of which: ARTICLES, MOULDED OR PRESSED FROM PULP				
14.5.3	of which: FILTER PAPER AND PAPERBOARD, READY FOR USE				

Changes in the questionnaire

FORESTS



- Reported items

JQ3 items 13 (secondary wood products) and 14 (secondary paper products) were reformatted so that **no data are requested for these aggregates.**

FOREST SECTOR QUESTIONNAIRE JQ3					
SECONDARY PROCESSED PRODUCTS					
Trade					
					Telephone/Fax:
					E-mail:
Specify Currency and Unit of Value (e.g.: 1000 US \$): _____					
Product code	Product	IMPORT VALUE		EXPORT VALUE	
		2021	2022	2021	2022
13	SECONDARY WOOD PRODUCTS				
13.1	FURTHER PROCESSED SAWNWOOD				
13.1.C	Coniferous				
13.1.NC	Non-coniferous				
13.1.NC.T	of which: Tropical				
13.2	WOODEN WRAPPING AND PACKAGING MATERIAL				
13.3	WOOD PRODUCTS FOR DOMESTIC/DECORATIVE USE				
13.4	BUILDER'S JOINERY AND CARPENTRY OF WOOD				
13.5	WOODEN FURNITURE				
13.6	PREFABRICATED BUILDINGS OF WOOD				
13.7	OTHER MANUFACTURED WOOD PRODUCTS				
14	SECONDARY PAPER PRODUCTS				
14.1	COMPOSITE PAPER AND PAPERBOARD				
14.2	SPECIAL COATED PAPER AND PULP PRODUCTS				
14.3	HOUSEHOLD AND SANITARY PAPER, READY FOR USE				
14.4	PACKAGING CARTONS, BOXES ETC.				
14.5	OTHER ARTICLES OF PAPER AND PAPERBOARD, READY FOR USE				
14.5.1	of which: PRINTING AND WRITING PAPER, READY FOR USE				
14.5.2	of which: ARTICLES, MOULDED OR PRESSED FROM PULP				
14.5.3	of which: FILTER PAPER AND PAPERBOARD, READY FOR USE				

Changes in the questionnaire

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- HS codes

Wood charcoal: inclusion of HS2022 code 4402.20 in wood charcoal aggregate.

- Annexes

Annex 1 JQ1 – CPC 3.0

Annex 2 JQ2 (products 1-12) – HS and SITC

Annex 3 JQ3 (products 13-14) – HS and SITC

Annex 4 JQ2+JQ3 (all products) – HS + remarks

List of tropical countries and territories

Changes in the questionnaire

FORESTS



- Definitions

→ Item 13.4 Builder's joinery and carpentry of wood **includes** Glulam, CLT and I-beams.

→ Revised the footnote for tropical roundwood and tropical Sawnwood

- Revised for JQ2 and ITTO1 items 1.2.NC.T and 6.NC.T
- Added for JQ2 and ITTO1 items 7.NC.T, 8.1.NC.T and (for JQ2 only) 8.1.1.NC.T

“correspondents are requested to check bilateral trade and include non-coniferous non-tropical species exported by tropical countries or imported from tropical countries or areas if the wood is credibly sourced from the tropical country or area”

- A list of tropical countries for JFSQ reporting was added as Annex 5
- Conversion factors: added a link to ITTO country specific conversion factors for products 1.2.NC.T and 6.NC.T.



Thank you!



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Joint Forest Sector Questionnaire: UNECE Database



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JFSQ Process and Storage

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- Annual data collection exercise
 - Excel-based data collection, processing and validation
 - The UNECE version of the JFSQ for 2023 data requests 888 data points
 - Access database created in 2002 is used for storage
 - Data UNECE website (Excel File) and provided to FAO for upload to FAOSTAT.
- High share of manual work
 - National replies individually checked in Excel
 - Summary log of changes drafted for validation by correspondents
 - Significant data processing required after exporting data from Access to develop output tables (e.g. for FPAMR)

JFSQ Data Checking

FORESTS



- Each product code is reviewed in Excel using checks based on:
 - Apparent Consumption or Net Trade
 - Change from prior year/historical values and ratios
 - Regional Average Unit Price
 - Discrepancies between aggregates and disaggregates
 - Missing Quantities
 - Unit and conversion factor errors
 - Wood balance
 - Third party sources (COMTRADE)
 - Exchange with national correspondents
- Changes are documented in a log shared with the national correspondent



- **The JFSQ Access Database requires urgent replacement**

It has reached its technical limits in terms of data volume and technical requirements for modern data processing, exchange, management and sharing.

Data outreach capacities are very weak

Also, the current setup does not allow for easy revisions and publication of historical datapoints.

New JFSQ Data Platform

FORESTS



- Improved data collection, processing, validation, storage and dissemination linked to the JFSQ will:
 - Strengthen capacity for timely data processing and quality assurance
 - Make use of automated data exchange
 - Be more flexible for partial data set submission, updating and publication (as data is available)
 - Allow for easier revision of datapoints and historical data
 - Provide more detailed metadata
 - Allow for automatic update of graphs and tables (INForest, other platforms)
 - Allow for more flexible assessment of trends and their drivers
 - Enhance the possibility for more systematic data analytics for publication

New JFSQ Data Platform

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- UNECE would like to give national correspondents access to the system, to support reporting
- See data checks prior to submitting JFSQ
- One click options for making estimates
- More streamlined and better documented exchange with UNECE when data points are revised
- Ability to submit data as available on a rolling basis
- Access to data visualization tools
- Opportunity for electronic data exchange
- If you are interested, please contact the Secretariat to learn more
- Budgetary support is requested and may be through pooled funding



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Product Structure, JQ code

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- ECE/FAO: “Bottom-up” approach: subitems sum to aggregates (top level; single digit)
- Subitems start with aggregate number
- Species group identified with C (Coniferous) or NC (non-coniferous) or NC.T (tropical)
- “Of which” indicates subitem list is not complete

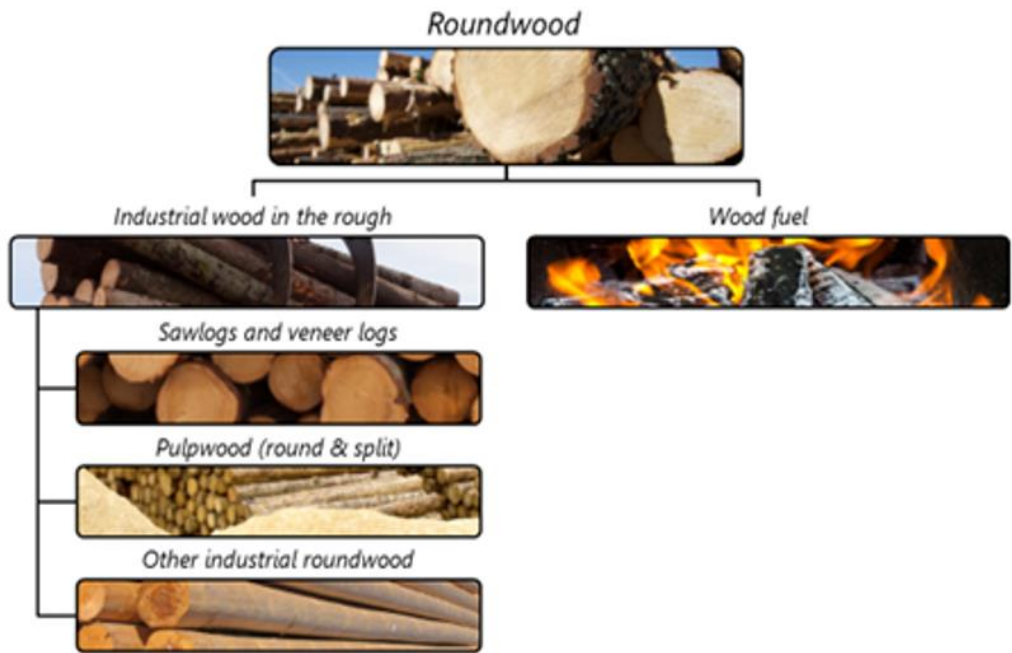
8	WOOD-BASED PANELS	1000 m ³
8.1	PLYWOOD	1000 m ³
8.1.C	Coniferous	1000 m ³
8.1.NC	Non-Coniferous	1000 m ³
8.1.NC.T	of which: Tropical	1000 m ³
8.1.1	of which: Laminated Veneer Lumber (LVL)	1000 m ³
8.1.1.C	Coniferous	1000 m ³
8.1.1.NC	Non-Coniferous	1000 m ³
8.1.1.NC.T	of which: Tropical	1000 m ³
8.2	PARTICLE BOARD, ORIENTED STRAND BOARD (OSB) AND SIMILAR BOARD	1000 m ³
8.2.1	of which: ORIENTED STRAND BOARD (OSB)	1000 m ³
8.3	FIBREBOARD	1000 m ³
8.3.1	HARDBOARD	1000 m ³
8.3.2	MEDIUM/HIGH DENSITY FIBREBOARD (MDF/HDF)	1000 m ³
8.3.3	OTHER FIBREBOARD	1000 m ³

Product Structure Diagram

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The full structure is included in the [JFSQ for 2023 Data: Manual](#)



$$\begin{aligned}
 1 &= 1.1 + 1.2 \\
 1.1 &= 1.1.C + 1.1.NC \\
 1.2 &= 1.2.1 + 1.2.2 + 1.2.3 \\
 &= 1.2.C + 1.2.NC \\
 &= 1.2.1.C + 1.2.1.NC + 1.2.2.C + 1.2.2.NC + 1.2.3.C + 1.2.3.NC \\
 1.2.C &= 1.2.1.C + 1.2.2.C + 1.2.3.C \\
 1.2.NC &= 1.2.1.NC + 1.2.2.NC + 1.2.3.NC \\
 1.2.NC &\geq 1.2.NC.T \\
 1.2.1 &= 1.2.1.C + 1.2.1.NC \\
 1.2.2 &= 1.2.2.C + 1.2.2.NC \\
 1.2.3 &= 1.2.3.C + 1.2.3.NC \\
 \\
 3 &= 3.1 + 3.2 \\
 3.2 &\geq 3.2.1
 \end{aligned}$$

JQ1 Questionnaire Structure

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- Covers **removals** and **production** by *volume*, 1000 m³ or 1000 metric tonnes
- For **primary products**, roundwood, sawnwood, panels, pulp and paper

Product Code	Product	Unit	Year 1	Year 2	Flag	Flag	Note	Note
			2021	2022	2021	2022	2021	2022
			Quantity	Quantity				
ALL REMOVALS OF ROUNDWOOD (WOOD IN THE ROUGH)								
1	ROUNDWOOD (WOOD IN THE ROUGH)	1000 m ³ ub						
1.1	WOOD FUEL (INCLUDING WOOD FOR CHARCOAL)	1000 m ³ ub						
1.1.C	Coniferous	1000 m ³ ub						
1.1.NC	Non-Coniferous	1000 m ³ ub						
1.2	INDUSTRIAL ROUNDWOOD	1000 m ³ ub						
1.2.C	Coniferous	1000 m ³ ub						
1.2.NC	Non-Coniferous	1000 m ³ ub						
1.2.NC.T	of which: Tropical	1000 m ³ ub						
1.2.1	SAWLOGS AND VENEER LOGS	1000 m ³ ub						
1.2.1.C	Coniferous	1000 m ³ ub						
1.2.1.NC	Non-Coniferous	1000 m ³ ub						

Please avoid blank cells: use symbols!



Symbol	Meaning	Note
...	Data not available	If no data is available, you may consider making an estimate rather than reporting data not available (“...”). Well-founded and timely estimates (e.g. based on industry publications) are preferable to reporting that data is not available. You will have the possibility to correct your data later when final official figures are available.
0	nil (zero)	For values that are less than half the unit indicated, you are requested to increase the decimal places so that it is clear the value is not 0
+++	Confidential	This should be used if confidential data is not reported. The alternative is to report confidential data with status code (flag) 6. Where items are reported to be confidential with +++, the secretariat may repeat the previous year’s data or estimate the values using other techniques.
Note: Please do not leave blank cells for a given item/unit/year, as this makes it unclear whether the data are not available or whether they are zero		



Where the status code cell is left blank, all national data is considered official data

Status Code	Status	Definition (ECE published)	Notes
5	Repeated	Data repeated from previous year.	Data that is repeated in the national submission will be flagged as a national estimate. In the UNECE database, the “repeated” flag is used only for data repeated by the secretariat.
6	Do Not Publish	Should not appear (confidential data)	Confidential data will not be published, but may be used to calculate aggregates when possible to do so without revealing the underlying confidential data. For publication of the database, the secretariat may also choose to repeat historical data or include an estimate (e.g. based on the overall trend) that does not use or reveal the confidential data.
9	National estimate	Unofficial data provided by country.	Will be flagged as a national estimate in ECE database

Notes

A woman wearing a camouflage cap and a high-visibility vest is looking at a tablet in a forest setting. In the foreground, there is a large pile of cut logs. The background shows dense green foliage.

Notes provided in the JFSQ will not be published but can be useful to provide context when processing your submission for publication.

For example, you may note known issues, such as an explanation for:

- Negative apparent consumption (production + imports – exports)
- Large increases in values or volumes from one year to the next
- Negative wood balance

Checks

FORESTS



This table highlights discrepancies between items and sub-items. Please verify your data if there's an error!

Discrepancies

Product Code	Product	Unit	2021 Quantity	2022 Quantity
	ALL REMOVALS OF ROUNDWOOD (WOOD IN THE ROUGH)			
1	ROUNDWOOD (WOOD IN THE ROUGH)	1000 m ³ ub	0	0
1.1	WOOD FUEL (INCLUDING WOOD FOR CHARCOAL)	1000 m ³ ub	0	0
1.1.C	Coniferous	1000 m ³ ub		
1.1.NC	Non-Coniferous	1000 m ³ ub		
1.2	INDUSTRIAL ROUNDWOOD	1000 m ³ ub	0	0
1.2.C	Coniferous	1000 m ³ ub	0	0
1.2.NC	Non-Coniferous	1000 m ³ ub	0	0
1.2.NC.T	of which: Tropical	1000 m ³ ub		
1.2.1	SAWLOGS AND VENEER LOGS	1000 m ³ ub	0	0
1.2.1.C	Coniferous	1000 m ³ ub		
1.2.1.NC	Non-Coniferous	1000 m ³ ub		
1.2.2	PULPWOOD, ROUND AND SPLIT (INCLUDING WOOD FOR PARTICLE	1000 m ³ ub	0	0

FORESTS



Industrial Roundwood Balance

test for good numbers, missing number, bad number, negative number

	2022	2023	% change	Conversion factors
Roundwood				
Industrial roundwood availability	0	0	missing data	m3 of wood in m3 or t of product
Recovered wood used in particle board	0	0	missing data	Solid wood equivalent
Solid Wood Demand				
agglomerate production	0	0	missing data	2.4
Sawnwood production	Missing data	Missing data	missing data	1
vener production	Missing data	Missing data	missing data	1
plywood production	Missing data	Missing data	missing data	1
particle board production (incl OSB)	missing data	missing data	missing data	1.58
fibreboard production	missing data	missing data	missing data	1.8
mechanical/semi-chemical pulp production	missing data	missing data	missing data	2.5
chemical pulp production	missing data	missing data	missing data	4.9
dissolving pulp production	missing data	missing data	missing data	5.7
Availability				
Solid Wood Demand	missing data	missing data	missing data	
Difference (roundwood-demand)	missing data	missing data	missing data	positive = surplus
gap (demand/availability)	missing data	missing data		Negative number means not enough roundwood available

Positive number means more roundwood available than demanded

% of particle board that is from recovered wood
 share of agglomerates produced from industrial roundwood residues
 usable industrial roundwood - amount of roundwood that is used, remainder leaves industry




35%
 100%
 98.5%

JQ2 Questionnaire Structure

FORESTS



- JQ2 covers **imports** and **exports**
- Includes both *volume* and *value* (1000 national currency)
- JQ2 has the same products in the same order as JQ1

 UNECE   Food and Agriculture Organization of the United Nations				FOREST SECTOR QUESTIONNAIRE JQ2 PRIMARY PRODUCTS Trade				Country: 0 Date:		
						Name of Official responsible for reporting: 0				
						Official Address (in full): 0				
						Telephone: 0	Fax: 0			
						E-mail: 0				
Specify Currency and Unit of Value (e.g.:1000 USD): _____										
Product code	Product	Unit of quantity	I M P O R T				E X P O R T			
			2021		2022		2021		2022	
			Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1	ROUNDWOOD (WOOD IN THE ROUGH)	1000 m ³ ub								
1.1	WOOD FUEL (INCLUDING WOOD FOR CHARCOAL)	1000 m ³ ub								
1.1.C	Coniferous	1000 m ³ ub								
1.1.NC	Non-Coniferous	1000 m ³ ub								
1.2	INDUSTRIAL ROUNDWOOD	1000 m ³ ub								
1.2.C	Coniferous	1000 m ³ ub								
1.2.NC	Non-Coniferous	1000 m ³ ub								
1.2.NC.T	of which: Tropical ¹	1000 m ³ ub								

JQ2: Trade in Tropical Species

FORESTS



Tropical¹: (1) correspondents are requested to check bilateral trade and include non-coniferous non-tropical species exported by tropical countries or imported from tropical countries or areas if the wood is credibly sourced from the tropical country or area.

Product Code	Product	Classifications	
		HS2022	HS2017
1	ROUNDWOOD (WOOD IN THE ROUGH)	4401.11/12 44.03	4401.11/12 44.03
1.1	WOOD FUEL (INCLUDING WOOD FOR CHARCOAL)	4401.11/12	4401.11/12
1.1.C	Coniferous	4401.11	4401.11
1.1.NC	Non-Coniferous	4401.12	4401.12
1.2	INDUSTRIAL ROUNDWOOD	44.03	44.03
1.2.C	Coniferous	4403.11/21/22/23/24/25/26	4403.11/21/22/23/24/25/26
1.2.NC	Non-Coniferous	4403.12/41/42/49/91/93/94/95/96/97/98/99	4403.12/41/49/91/93/94/95/96/97/98/99
1.2.NC.T	of which: Tropical ¹	4403.41/42/49	ex4403.12+ 4403.41/49






- Applicable for Roundwood (1.2.NC.T), Sawnwood (6.NC.T), Veneer (7.NC.T) and Wood Based Panels (8.1.NC.T and 8.1.1.NC.T) on **JQ2** & **ITTO1**.
- This requires checking country-specific trade flows

JQ3 Questionnaire Structure

FORESTS



JQ3 covers imports and exports in *value only* for secondary products

    				Country: 0 Date: 0									
FOREST SECTOR QUESTIONNAIRE JQ3 SECONDARY PROCESSED PRODUCTS Trade				Name of Official responsible for reply: 0									
Specify Currency and Unit of Value (e.g.:1000 US \$): _____				Official Address (in full): 0									
				Telephone/Fax: 0 0									
				E-mail: 0									
Product code	Product	IMPORT VALUE		EXPORT VALUE		Flag Import		Flag Export		Note Import		Note Export	
		2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
13	SECONDARY WOOD PRODUCTS												
13.1	FURTHER PROCESSED SAWNWOOD												
13.1.C	Coniferous												
13.1.NC	Non-coniferous												
13.1.NC.T	of which: Tropical												
13.2	WOODEN WRAPPING AND PACKAGING MATERIAL												
13.3	WOOD PRODUCTS FOR DOMESTIC/DECORATIVE USE												
13.4	BUILDER'S JOINERY AND CARPENTRY OF WOOD ¹												

ECE-EU Questionnaire Structure

FORESTS



- Species level imports and exports in *value only* for industrial roundwood and sawnwood
- Only countries reporting to Eurostat complete cells shaded in blue

Product Code	Classification HS2022	Classification CN2022	Product	Unit of Quantity	IMPORT				EXPORT				
					2021		2022		2021		2022		
					Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
1.2.C	4403.11/21/22/23/24/25/26		Industrial Roundwood, Coniferous	1000 m ³ ub									
	4403.21/22		of which: Pine (<i>Pinus</i> spp.)	1000 m ³ ub									
		4403 21 10	sawlogs and veneer logs	1000 m ³ ub									
		4403 21 90	pulpwood and other industrial roundwood	1000 m ³ ub									
		4403 22 00											
	4403.23/24		of which: Fir/Spruce (<i>Abies</i> spp., <i>Picea</i> spp.)	1000 m ³ ub									
		4403 23 10	sawlogs and veneer logs	1000 m ³ ub									
		4403 23 90	pulpwood and other industrial roundwood	1000 m ³ ub									
		4403 24 00											
1.2.NC	4403.12/41/42/49/91/93/94 4403.95/96/97/98/99		Industrial Roundwood, Non-Coniferous	1000 m ³ ub									

JFSQ Guidance and Reference Materials

- Manual
 - How to complete JFSQ
 - Product structure
 - Standard symbols
 - Changes this year
- Conversion factors
- Classifications available
 - Annex 1: Production – CPC
 - Annex 2 and 3: Trade – HS 2022, HS 2017, 2012, SITC Rev.4
 - Annex 4: Individual codes
- List of Tropical Countries and Territories for JFSQ reporting (Annex 5)
- Product definitions are in separate file

Conversion Factors

Please note that these factors are general and should only be used if you find it impossible to locate country- and product-specific factors

JOINT FOREST SECTOR QUESTIONNAIRE

Conversion Factors

NOTE THESE ARE ONLY GENERAL FACTORS. IT WOULD BE PREFERABLE TO USE SPECIES- OR COUNTRY-SPECIFIC FACTORS

Multiply the quantity expressed in units on the right side of "per" with the factor to get the value expressed in units on left side of "per".

Items in RED text were added to the JFSQ (or updated) in February 2024

Product Code	Product	JFSQ Quantity Unit	Results from UNECE/FAO/ITTO 2020 publication "Forest Product Conversion Factors"						UNECE/FAO Engineered Wood Products Questionnaire (last revised 2020)		Results from UNECE/FAO 2009 Conversion Factors Questionnaire (median)			
			volume to weight			volume/weight of finished product to volume of roundwood			Notes to Results	volume to weight	Notes to Results	volume/weight of finished product to volume of roundwood	Notes to Results	
			m ³ per MT	m ³ per MT	m ³ per MT	Roundwood equivalent	Roundwood equivalent	Roundwood equivalent						m ³ per MT
Europe	NA**	EECCA**	Europe	NA**	EECCA**									
1	ROUNDWOOD (WOOD IN THE ROUGH)	1000 m ³ ub												
1.1	WOOD FUEL, INCLUDING WOOD FOR CHARCOAL	1000 m ³ ub												
1.1.C	Coniferous	1000 m ³ ub	1.64											
1.1.C	Coniferous	1000 m ³ ub												
1.1.NC	Non-Coniferous	1000 m ³ ub	1.11											
1.1.NC	Non-Coniferous	1000 m ³ ub												
1.2	INDUSTRIAL ROUNDWOOD	1000 m ³ ub												
1.2.C	Coniferous	1000 m ³ ub	1.11	1.08	1.27									
1.2.C.Fir	Fir (and Spruce)	1000 m ³ ub												
1.2.C.Pine	Pine	1000 m ³ ub												
1.2.NC	Non-Coniferous	1000 m ³ ub	0.98	1.02	1.15									
1.2.NC.T	of which: Tropical	1000 m ³ ub	see ITTO country-specific conversion factors: https://www.itto.int/direct/topics/topics_pdf_download/topics_id=6737&no=1&disp=inline											
1.2.1	SAWLOGS AND VENEER LOGS	1000 m ³ ub	1.04	0.96	1.12									
1.2.1.C	Coniferous	1000 m ³ ub	1.10	1.00	1.19									
1.2.1.NC	Non-Coniferous	1000 m ³ ub	0.97	0.92	1.04									
1.2.NC.Beech	Beech	1000 m ³ ub												
1.2.NC.Birch	Birch	1000 m ³ ub												
1.2.NC.Eucalypt	Eucalyptus	1000 m ³ ub												
1.2.NC.Oak	Oak	1000 m ³ ub												
1.2.NC.Poplar	Poplar	1000 m ³ ub												
1.2.2	PULPWOOD (ROUND & SPLIT)	1000 m ³ ub	1.05	1.14	1.30									
1.2.2.C	Coniferous	1000 m ³ ub	1.11	1.16	1.35									
1.2.2.NC	Non-Coniferous	1000 m ³ ub	0.98	1.11	1.25									
1.2.3	OTHER INDUSTRIAL ROUNDWOOD	1000 m ³ ub												
1.2.3.C	Coniferous	1000 m ³ ub	1.11	1.16	1.35									
1.2.3.NC	Non-Coniferous	1000 m ³ ub	0.98	1.11	1.25									
2	WOOD CHARCOAL	1000 MT				6 m ³ rw/tonne								
3	WOOD CHIPS, PARTICLES AND RESIDUES	1000 m ³												
3.1	WOOD CHIPS AND PARTICLES	1000 m ³	1.205	1.07		1.21	1.08							
3.1	WOOD CHIPS AND PARTICLES	1000 m ³												
3.1	WOOD CHIPS AND PARTICLES	1000 m ³												
3.2	WOOD RESIDUES	1000 m ³	1.205	1.07		1.21	1.08							
3.2	WOOD RESIDUES	1000 m ³	2.12			2.07								
3.2.1	of which: SAWDUST	1000 m ³	1.205	1.07		1.21	1.08							
4	RECOVERED POST-CONSUMER WOOD	1000 mt												
5	WOOD PELLETS AND OTHER AGGLOMERATES	1000 MT												
5.1	WOOD PELLET S	1000 MT	1.54	1.45	1.54	1.51	1.44	nodata	m ³ /ton - bulk density, loose volume, 5-10% mcw- Equivalent - solid					
5.2	OTHER AGGLOMERATES	1000 MT	1.12	nodata	nodata	2.32	nodata	nodata	m ³ /ton - Pressed logs and briquettes, bulk density, loose volume.					



Thank you!



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