

# Workbook - Biomass

Version – 15<sup>th</sup> July 2022

## Contents

<b>Workbook - Biomass</b> .....	1
A.1.1 Primary Crops .....	2
A.1.2.1 Used crop residues .....	4
A.1.2.2.1 Fodder Crops and harvest from grassland.....	6
A.1.2.2.2 Grazed biomass .....	6
A.1.3 Wood .....	8
A.1.4 Wild harvest n.e.c. ....	10

## A.1.1 Primary Crops

### Example

Establishing the Domestic Extraction of Primary Crops based on FAOSTAT for country X in the year Y.

### Solution

#### 1) Data download

[FAOSTAT](#); Data; Production; Crops and livestock products

Country; Element: Production Quantity; Item: Crops Primary >(List); Year

➔ Download Data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Domain Code	Domain	Area Code (FAO)	Area	Element Code	Element	Item Code (FAO)	Item	Year Code	Year	Unit	Value	Flag	Flag Description
2	QCL	Crops and livestock products	11	Austria	5510	Production	515	Apples	2019	2019	tonnes	239210		Official data
3	QCL	Crops and livestock products	11	Austria	5510	Production	526	Apricots	2019	2019	tonnes	11510		Official data
4	QCL	Crops and livestock products	11	Austria	5510	Production	367	Asparagus	2019	2019	tonnes	3320		Official data
5	QCL	Crops and livestock products	11	Austria	5510	Production	572	Avocados	2019	2019	tonnes	0		Official data
6	QCL	Crops and livestock products	11	Austria	5510	Production	486	Bananas	2019	2019	tonnes	0		Official data
7	QCL	Crops and livestock products	11	Austria	5510	Production	44	Barley	2019	2019	tonnes	828130		Official data
8	QCL	Crops and livestock products	11	Austria	5510	Production	414	Beans, green	2019	2019	tonnes	7660		Official data
9	QCL	Crops and livestock products	11	Austria	5510	Production	558	Berries nes	2019	2019	tonnes	70		Official data
10	QCL	Crops and livestock products	11	Austria	5510	Production	552	Blueberries	2019	2019	tonnes	1350		Official data
11	QCL	Crops and livestock products	11	Austria	5510	Production	181	Broad beans, horse beans, dry	2019	2019	tonnes	13030		Official data
12	QCL	Crops and livestock products	11	Austria	5510	Production	358	Cabbages and other brassicas	2019	2019	tonnes	60000		Official data
13	QCL	Crops and livestock products	11	Austria	5510	Production	426	Carrots and turnips	2019	2019	tonnes	108180		Official data
14	QCL	Crops and livestock products	11	Austria	5510	Production	393	Cauliflowers and broccoli	2019	2019	tonnes	5760		Official data
15	QCL	Crops and livestock products	11	Austria	5510	Production	108	Cereals nes	2019	2019	tonnes	22550		Official data

#### 2) Correspondence

The FAO→Primary Crops Correspondence Table provides allocation of downloaded data to MFA Questionnaire Table A.

	A	B	C	D	E	F
1						
2						
3	Questionnaire Table A Code			FAO Item Code	FAO Item Name	Sub-categories level 2
4					Primary crops	
5	A.1. biomass	A.1.1. primary crops	A.1.1.1.1 Rice	27	Rice, Paddy	A.1.1.1.1
6			A.1.1.1.2 Wheat	15	Wheat	A.1.1.1.2
7			A.1.1.1.3 Cereals n.e.c.	44	Barley	A.1.1.1.3
8				56	Maize	A.1.1.1.3
9				68	Pop Corn	A.1.1.1.3
10				71	Rye	A.1.1.1.3
11				75	Oats	A.1.1.1.3
12				79	Millet	A.1.1.1.3
13				83	Sorghum	A.1.1.1.3
14				89	Buckwheat	A.1.1.1.3
15				92	Quinoa	A.1.1.1.3
16				94	Fonio	A.1.1.1.3
17				97	Triticale	A.1.1.1.3
18				101	Canary Seed	A.1.1.1.3
19				103	Mixed Grain	A.1.1.1.3
20				108	Cereals nes	A.1.1.1.3
21			A.1.1.2 Roots, tubers	116	Potatoes	A.1.1.2
22				122	Sweet Potatoes	A.1.1.2
23				125	Cassava	A.1.1.2

#### 3) Assignment

The excel function “VLOOKUP” helps to assign the respective code to downloaded data.

1	Domain Code	Domain	Area Code (FAO)	Area	Element Code (FAO)	Element	Item Code (FAO)	Item	Year Code	Year	Unit	Value	Flag	Flag Description	MFA DE Code
2	QCL	Crops and livestock products	11	Austria	5510	Production	515	Apples	2019	2019	tonnes	239210	Official data		
3	QCL	Crops and livestock products	11	Austria	5510	Production	526	Apricots	2019	2019	tonnes	11510	Official data		
4	QCL	Crops and livestock products	11	Austria	5510	Production	367	Asparagus	2019	2019	tonnes	3320	Official data		
5	QCL	Crops and livestock products	11	Austria	5510	Production	572	Avocados	2019	2019	tonnes	0	Official data		
6	QCL	Crops and livestock products	11	Austria	5510	Production	486	Bananas	2019	2019	tonnes	0	Official data		
7	QCL	Crops and livestock products	11	Austria	5510	Production	44	Barley	2019	2019	tonnes	828130	Official data		

1	Domain Code	Domain	Area Code (FAO)	Area	Element Code (FAO)	Element	Item Code (FAO)	Item	Year Code	Year	Unit	Value	Flag	Flag Description	MFA DE Code
2	QCL	Crops and livestock products	11	Austria	5510	Production	515	Apples	2019	2019	tonnes	239210	Official data		A.1.1.8
3	QCL	Crops and livestock products	11	Austria	5510	Production	526	Apricots	2019	2019	tonnes	11510	Official data		A.1.1.8
4	QCL	Crops and livestock products	11	Austria	5510	Production	367	Asparagus	2019	2019	tonnes	3320	Official data		A.1.1.7
5	QCL	Crops and livestock products	11	Austria	5510	Production	572	Avocados	2019	2019	tonnes	0	Official data		A.1.1.8
6	QCL	Crops and livestock products	11	Austria	5510	Production	486	Bananas	2019	2019	tonnes	0	Official data		A.1.1.8
7	QCL	Crops and livestock products	11	Austria	5510	Production	44	Barley	2019	2019	tonnes	828130	Official data		A.1.1.1.3
8	QCL	Crops and livestock products	11	Austria	5510	Production	414	Beans, green	2019	2019	tonnes	7660	Official data		A.1.1.7
9	QCL	Crops and livestock products	11	Austria	5510	Production	558	Berries nes	2019	2019	tonnes	70	Official data		A.1.1.8
10	QCL	Crops and livestock products	11	Austria	5510	Production	552	Blueberries	2019	2019	tonnes	1350	Official data		A.1.1.8

#### 4) Log in

The items from each MFA category can then be summed up and entered into to the questionnaire simultaneously with the excel function "SUMIF".

1	IRP MFA Questionnaire -Table A Domestic extraction					<a href="#">Back to Notes and Directory</a>	
3	Material category	Sub-categories level 1	Level 1 Description	Sub-categories level 2	Level 2 Description	Value (tonnes)	Notes
4	A.1. Biomass	A.1.1	Primary crops	A.1.1.1.1	Rice	=SUMIF(	
5				A.1.1.1.2	Wheat	SUMIF(range; criteria; [sum_range])	
6				A.1.1.1.3	Cereals n.e.c.		

1	IRP MFA Questionnaire -Table A Domestic extraction					<a href="#">Back to Notes and Directory</a>	
3	Material category	Sub-categories level 1	Level 1 Description	Sub-categories level 2	Level 2 Description	Value (tonnes)	Notes
4	A.1. Biomass	A.1.1	Primary crops	A.1.1.1.1	Rice	-	
5				A.1.1.1.2	Wheat	1 596 880	
6				A.1.1.1.3	Cereals n.e.c.	3 802 430	
7				A.1.1.2	Roots and tubers	751 260	
8				A.1.1.3	Sugar crops	1 965 150	
9				A.1.1.4	Pulses	38 800	
10				A.1.1.5	Nuts	3 090	
11				A.1.1.6	Oil bearing crops	413 770	
12				A.1.1.7	Vegetables	559 600	
13				A.1.1.8	Fruits	638 500	
14				A.1.1.9	Fibres	8 920	
15				A.1.1.10	Other crops n.e.c	-	
16				A.1.1.11	Spice - beverage - pharmaceutical crops	520	
17				A.1.1.12	Tobacco	-	

## A.1.2.1 Used crop residues

### Example

Estimate the used crop residues in country X and year Y

### Solution

#### 1) Identification

In most cases crop with residues include all types of cereals (A.1.1.1), sugar crops (A.1.1.3) and oil-bearing crops (A.1.1.6), only in exceptional cases will other crops have to be considered.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Domain Code	Domain	Area Code	Area	Element Code	Element	Item Code	Item	Year	Year	Unit	Value	Flag	Flag Description	MFA DE Code
2	QCL	Crops an	11	Austria	5510	Production	15	Wheat	2019	2019	tonnes	1596880		Official data	A.1.1.1.2
3	QCL	Crops an	11	Austria	5510	Production	44	Barley	2019	2019	tonnes	828130		Official data	A.1.1.1.3
4	QCL	Crops an	11	Austria	5510	Production	108	Cereals nes	2019	2019	tonnes	22550		Official data	A.1.1.1.3
5	QCL	Crops an	11	Austria	5510	Production	103	Grain, mixed	2019	2019	tonnes	19770		Official data	A.1.1.1.3
6	QCL	Crops an	11	Austria	5510	Production	56	Maize	2019	2019	tonnes	2298880		Official data	A.1.1.1.3
7	QCL	Crops an	11	Austria	5510	Production	75	Oats	2019	2019	tonnes	77350		Official data	A.1.1.1.3
8	QCL	Crops an	11	Austria	5510	Production	71	Rye	2019	2019	tonnes	199670		Official data	A.1.1.1.3
9	QCL	Crops an	11	Austria	5510	Production	83	Sorghum	2019	2019	tonnes	29740		Official data	A.1.1.1.3
10	QCL	Crops an	11	Austria	5510	Production	97	Triticale	2019	2019	tonnes	326340		Official data	A.1.1.1.3
11	QCL	Crops an	11	Austria	5510	Production	116	Potatoes	2019	2019	tonnes	751260		Official data	A.1.1.2
12	QCL	Crops an	11	Austria	5510	Production	157	Sugar beet	2019	2019	tonnes	1965150		Official data	A.1.1.3
13	QCL	Crops an	11	Austria	5510	Production	181	Broad beans, horse beans, dry	2019	2019	tonnes	13030		Official data	A.1.1.4
14	QCL	Crops an	11	Austria	5510	Production	210	Lupins	2019	2019	tonnes	360		Official data	A.1.1.4
15	QCL	Crops an	11	Austria	5510	Production	187	Peas, dry	2019	2019	tonnes	12800		Official data	A.1.1.4
16	QCL	Crops an	11	Austria	5510	Production	211	Pulses nes	2019	2019	tonnes	12610		Official data	A.1.1.4
17	QCL	Crops an	11	Austria	5510	Production	222	Walnuts, with shell	2019	2019	tonnes	3090		Official data	A.1.1.5
18	QCL	Crops an	11	Austria	5510	Production	333	Linseed	2019	2019	tonnes	1710		Official data	A.1.1.6
19	QCL	Crops an	11	Austria	5510	Production	339	Oilseeds nes	2019	2019	tonnes	22570		Official data	A.1.1.6
20	QCL	Crops an	11	Austria	5510	Production	260	Olives	2019	2019	tonnes	0		Official data	A.1.1.6
21	QCL	Crops an	11	Austria	5510	Production	270	Rapeseed	2019	2019	tonnes	107170		Official data	A.1.1.6
22	QCL	Crops an	11	Austria	5510	Production	236	Soybeans	2019	2019	tonnes	217780		Official data	A.1.1.6
23	QCL	Crops an	11	Austria	5510	Production	267	Sunflower seed	2019	2019	tonnes	64540		Official data	A.1.1.6
24	QCL	Crops an	11	Austria	5510	Production	367	Asparagus	2019	2019	tonnes	3320		Official data	A.1.1.7
25	QCL	Crops an	11	Austria	5510	Production	414	Beans, green	2019	2019	tonnes	7660		Official data	A.1.1.7
26	QCL	Crops an	11	Austria	5510	Production	358	Cabbages and other brassicas	2019	2019	tonnes	60000		Official data	A.1.1.7

#### 2) Residues estimation

Collect residue-providing crops in Crop Residues Tool of the Questionnaire and link to standard factors (if no local data is available)

	A	B	C	D	E	F
9	Summary Calculated totals for Crop Residues					
10	Total for A.1.2.1.1 Straw			2019	0	0
11	A.1.2.1.2 Other crop residues (sugar and fodder beet leaves etc.)			0	0	0
12				0	0	0
13						
14						
15						
16	CEREAL CROP PRODUCTION BY YEAR (STRAW PRODUCING)					
17	Crop	Harvest Factor	Recovery Factor	2019		
18	Wheat	1		1 596 880		
19	Barley	1		828 130		
20	Cereals nes	1		22 550		
21	E.g. Straw Crop 4					
22	E.g. Straw Crop 5					
23	E.g. Straw Crop 6					

### 3) Used residues estimation

Include recovery factors to obtain only the used share of available residues

	A	B	C	D	E	F
9				Summary Calculated totals for Crop Residues		
10				2019	0	0
11	Total for A.1.2.1.1 Straw			1713292	0	0
12	A.1.2.1.2 Other crop residues (sugar and fodder beet leaves etc.)			0	0	0
13						
14						
15						
16	CEREAL CROP PRODUCTION BY YEAR (STRAW PRODUCING)					
17	Crop	Harvest Factor	Recovery Factor	2019		
18	Wheat		0.7	1 596 880		
19	Barley		0.7	828 130		
20	Cereals nes		0.7	22 550		
21	E.g. Straw Crop 4					
22	E.g. Straw Crop 5					

### 4) Log in

A link between the Crop Residues Tool and Table A in the Questionnaire can be set to enter the data

	A	B	C	D	E	F
1	IRP MFA Questionnaire -Table A Domestic extraction			<a href="#">Back to Notes and Directory</a>		
2						
3	Material category	Sub-categories level 1	Level 1 Description	Sub-categories level 2	Level 2 Description	Value (tonnes)
4	A.1. Biomass	A.1.1	Primary crops	A.1.1.1.1	Rice	-
5				A.1.1.1.2	Wheat	1 596 880
6				A.1.1.1.3	Cereals n.e.c.	3 802 430
7				A.1.1.2	Roots and tubers	751 260
8				A.1.1.3	Sugar crops	1 965 150
9				A.1.1.4	Pulses	38 800
10				A.1.1.5	Nuts	3 090
11				A.1.1.6	Oil bearing crops	413 770
12				A.1.1.7	Vegetables	559 600
13				A.1.1.8	Fruits	638 500
14				A.1.1.9	Fibres	8 920
15				A.1.1.10	Other crops n.e.c	-
16				A.1.1.11	Spice - beverage - pharmaceutical crops	520
17				A.1.1.12	Tobacco	-
18	A.1.2	Crop residues (used) and fodder crops	A.1.2.1.1	Straw		1 713 292



2) Identification of grazing livestock

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Domain Code	Domain	Area Code (FAO)	Area	Element Code	Element	Item Code (FAO)	Item	Year Code	Year	Unit	Value	Flag	Flag Description		
QCL	Crops and livestock products	11	Austria	5114	Stocks	1181	Beehives	2019	2019	No	372900		Official data		
QCL	Crops and livestock products	11	Austria	5111	Stocks	866	Cattle	2019	2019	Head	1879520		Official data		
QCL	Crops and livestock products	11	Austria	5111	Stocks	1016	Goats	2019	2019	Head	92500		Official data		
QCL	Crops and livestock products	11	Austria	5111	Stocks	1034	Pigs	2019	2019	Head	2773230		Official data		
QCL	Crops and livestock products	11	Austria	5111	Stocks	976	Sheep	2019	2019	Head	402660		Official data		

3) Collect grazing livestock numbers in Grazed Biomass Tool in the Questionnaire

7	8	9	10	11	12	13	14	15	16	17	18
Summary Calculated totals for Grazed Biomass											
				2019	0	0					
Total for A.1.2.2.2 Grazed biomass				0	0	0					
GRAZING ANIMAL HERD SIZE (NUMBER OF ANIMALS)											
Animal type	Roughage requirement (tonnes/head/year)	% Roughage from grazing	2019								
Cattle			1 879 520								
Goats			92 500								
Sheep			402 660								
E.g. Animal type 4											

4) Include factors for roughage requirements from reference table and add share for grazing (in this approach 100%)

7	8	9	10	11	12	13	14	15	16	17	18
Summary Calculated totals for Grazed Biomass											
				2019	0	0					
Total for A.1.2.2.2 Grazed biomass				11386264	0	0					
GRAZING ANIMAL HERD SIZE (NUMBER OF ANIMALS)											
Animal type	Roughage requirement (tonnes/head/year)	% Roughage from grazing	2019								
Cattle	5.9	100%	1 879 520								
Goats	0.6	100%	92 500								
Sheep	0.6	100%	402 660								
E.g. Animal type 4											

5) Subtract harvested roughage from total roughage demand

7	8	9	10	11	12	13	14	15	16	17	18
Summary Calculated totals for Grazed Biomass											
				2019	0	0					
Total for A.1.2.2.2 Grazed biomass				11 386 264	0	0					
A.1.2.2.1	Fodder crops (including biomass harvest from grassland)			10 052 941							
				1 333 323							
GRAZING ANIMAL HERD SIZE (NUMBER OF ANIMALS)											
Animal type	Roughage requirement (tonnes/head/year)	% Roughage from grazing	2019								
Cattle	5.9	100%	1 879 520								
Goats	0.6	100%	92 500								
Sheep	0.6	100%	402 660								
E.g. Animal type 4											

## 6) Log in

18	A.1.2	Crop residues (used) and fodder crops	A.1.2.1.1	Straw	1 713 292
19			A.1.2.1.2	Other crop residues (sugar and fodder beet leaves etc.)	
20			A.1.2.2.1	Fodder crops (including biomass harvest from grassland)	10 052 941
21			A.1.2.2.2	Grazed biomass	1 333 323
22	A.1.3	Wood	A.1.3.1	Timber (Industrial roundwood)	

### A.1.3 Wood

#### Example

Wood extraction from forests for country X has to be compiled.

#### Solution

- 1) Data download

#### FAOSTAT

Country; Element: Production Quantity; Items: Wood fuel > (List), Industrial roundwood, coniferous + (Total), Industrial roundwood, non-coniferous + (Total); Year

- ➔ Download Data

Dom	Area Code (FAO)	Area	Element	Item Code	Item	Year	Unit	Value	Flag	Flag Description
1	FO	11 Austria	5516 Production	1627	Wood fuel, coniferous	2019 2019	m3	3634197		Official data
2	FO	11 Austria	5516 Production	1628	Wood fuel, non-coniferous	2019 2019	m3	1944838		Official data
3	FO	11 Austria	5516 Production	1866	Industrial roundwood, coniferous	2019 2019	m3	12342524		FAO data based on imputation methodology
4	FO	11 Austria	5516 Production	1867	Industrial roundwood, non-coniferous	2019 2019	m3	982156		FAO data based on imputation methodology

- 2) Stacked or piled to solid cubic meters conversion

Please note that FAOSTAT reports wood in volumes per solid cubic meter. If volumes are reported in stacked cubic meters, volumes need to be converted to solid cubic meters by multiplying with 0.7 (not shown in this workbook)

- 3) Conversion from volumes to weights at 15% moisture content

9	Conversion factor for coniferous wood	0.52			
10	Conversion factor for non-coniferous wood	0.68			
11					
12	Item Code	Item	m3	Conversion factor	tonnes at 15% mc / scm
13	1627	Wood fuel, coniferous	3,634,197	0.52	1,889,782
14	1628	Wood fuel, non-coniferous	1,944,838	0.68	1,322,490
15	1866	Industrial roundwood, coniferous	12,342,524	0.52	6,418,112
16	1867	Industrial roundwood, non-coniferous	982,156	0.68	667,866
17					

- 4) Aggregation of coniferous and non-coniferous wood and allocation to EW-MFA categories

MFA category		tonnes at 15% mc / scm
A.1.3.1	Timber (Industrial roundwood)	7,085,979
A.1.3.2	Wood fuel and other extraction	3,212,272



5) Addition of bark

FAOSTAT reports industrial roundwood and wood fuel under bark, which means without bark. Unless you have local information that no bark is removed from the forests, the production quantity for forest products needs to be estimated and added

	MFA category		tonnes at 15% mc / scm under bark	Extension factor	tonnes at 15% mc / scm incl. bark
32					
33	A.1.3.1	Timber (Industrial roundwood)	7,085,979	1.1	7,794,576
34	A.1.3.2	Wood fuel and other extraction	3,212,272	1.1	3,533,500

6) Log in

The standardized values can be entered into the Questionnaire

21			A.1.2.2.2	Grazed biomass	1,333,323
22	A.1.3	Wood	A.1.3.1	Timber (Industrial roundwood)	7,794,576
23			A.1.3.2	Wood fuel and other extraction	3,533,500

## A.1.4 Wild harvest n.e.c.

*Example*

Wild fish catch country X has to be compiled.

*Solution*

1) Data download

### FISHSTAT

*Country*; FAOSTAT GROUP OF SPECIES: Aquatic Animals NEI, Aquatic Mammals, Aquatic Plants, Cephalopods, Crustaceans, Demersal Marine Fish, Freshwater and Diadromous Fish, Marine Fish NEI, Molluscs excl. Cephalopods, Pelagic Marine Fish; *INLAND/MARINE AREAS*: Inland waters, Marine areas; *Year*

*Organization of data query (Filters/Columns/Selected rows)*

#### Query definition

Select fields from the list and drag or click the arrow buttons to move them. Drag fields to sort or move them between rows and columns.

Filters

- ASFIS species FAOSTAT group of species Name En
- FAO major fishing area Inland/Marine areas Name En

Selected rows

- Country Name En

Columns (only one allowed)

- Year

Possible fields

- Country Continent Name En
- Country Geographical region Name En
- Country World Bank income classification Name En
- Country Other country groups Name En

#### Query definition

Select fields from the list and drag or click the arrow buttons to move them. Drag fields to sort or move them between rows and columns.

Filters

No items found

Selected rows

- Country Name En
- ASFIS species FAOSTAT group of species Name En
- FAO major fishing area Inland/Marine areas Name En

Columns (only one allowed)

- Year

Possible fields

- Country Continent Name En
- Country Geographical region Name En
- Country World Bank income classification Name En
- Country Other country groups Name En

## Query results

 Preferences ▼
  Download ▲
  Show data

### Download

File type <input type="radio"/> Csv <input checked="" type="radio"/> Excel	Flag <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Include null values <input checked="" type="radio"/> Yes <input type="radio"/> No
--	--	---

 Download

### ➔ Download Data

	A	B	C	D	E	F
1	Country Name En	FAOSTAT group of species Name En	Inland/Marine areas Name En	Unit Name	2019	2019 Flag
2	Australia	Aquatic Animals NEI	Marine areas	Tonnes - live weight	57	
3	Australia	Aquatic Mammals	Marine areas	Number	98	
4	Australia	Aquatic Plants	Marine areas	Tonnes - live weight	1,923	E
5	Australia	Cephalopods	Marine areas	Tonnes - live weight	2,564	
6	Australia	Crustaceans	Inland waters	Tonnes - live weight	-	
7	Australia	Crustaceans	Marine areas	Tonnes - live weight	34,813	
8	Australia	Demersal Marine Fish	Marine areas	Tonnes - live weight	40,274	
9	Australia	Freshwater and Diadromous Fish	Inland waters	Tonnes - live weight	884	
10	Australia	Freshwater and Diadromous Fish	Marine areas	Tonnes - live weight	946	
11	Australia	Marine Fish NEI	Marine areas	Tonnes - live weight	12,602	
12	Australia	Molluscs excl. Cephalopods	Marine areas	Tonnes - live weight	10,687	
13	Australia	Pelagic Marine Fish	Marine areas	Tonnes - live weight	65,461	

### 2) Identification of relevant groups of species

	A	B	C	D	E	F
1	Country Name En	FAOSTAT group of species Name En	Inland/Marine areas Name En	Unit Name	2019	2019 Flag
2	Australia	Aquatic Animals NEI	Marine areas	Tonnes - live weight	57	
3	Australia	Aquatic Mammals	Marine areas	Number	98	
4	Australia	Aquatic Plants	Marine areas	Tonnes - live weight	1,923	E
5	Australia	Cephalopods	Marine areas	Tonnes - live weight	2,564	
6	Australia	Crustaceans	Inland waters	Tonnes - live weight	-	
7	Australia	Crustaceans	Marine areas	Tonnes - live weight	34,813	
8	Australia	Demersal Marine Fish	Marine areas	Tonnes - live weight	40,274	
9	Australia	Freshwater and Diadromous Fish	Inland waters	Tonnes - live weight	884	
10	Australia	Freshwater and Diadromous Fish	Marine areas	Tonnes - live weight	946	
11	Australia	Marine Fish NEI	Marine areas	Tonnes - live weight	12,602	
12	Australia	Molluscs excl. Cephalopods	Marine areas	Tonnes - live weight	10,687	
13	Australia	Pelagic Marine Fish	Marine areas	Tonnes - live weight	65,461	

### 3) Allocation to EW-MFA categories

Aggregation of all groups of species AND fishing area (Inland/Marine)

	A	B	C	D	E	F	G	H
1	Country Name En	FAOSTAT group of species Name En	Inland/Marine areas Name En	Unit Name	2019	2019 Flag		EW-MFA category
2	Australia	Aquatic Animals NEI	Marine areas	Tonnes - live weight	57			A.1.4.1
3	Australia	Aquatic Mammals	Marine areas	Number	98			
4	Australia	Aquatic Plants	Marine areas	Tonnes - live weight	1,923	E		A.1.4.1
5	Australia	Cephalopods	Marine areas	Tonnes - live weight	2,564			A.1.4.3
6	Australia	Crustaceans	Inland waters	Tonnes - live weight	-			A.1.4.2
7	Australia	Crustaceans	Marine areas	Tonnes - live weight	34,813			A.1.4.2
8	Australia	Demersal Marine Fish	Marine areas	Tonnes - live weight	40,274			A.1.4.1
9	Australia	Freshwater and Diadromous Fish	Inland waters	Tonnes - live weight	884			A.1.4.1
10	Australia	Freshwater and Diadromous Fish	Marine areas	Tonnes - live weight	946			A.1.4.1
11	Australia	Marine Fish NEI	Marine areas	Tonnes - live weight	12,602			A.1.4.1
12	Australia	Molluscs excl. Cephalopods	Marine areas	Tonnes - live weight	10,687			A.1.4.2
13	Australia	Pelagic Marine Fish	Marine areas	Tonnes - live weight	65,461			A.1.4.1

EW-MFA Category	Tonnes - live weight	Formulae
A.1.4.1	122,147	=Sumif(H2:H13;A17;E2:E13)
A.1.4.2	45,500	=Sumif(H2:H13;A18;E2:E13)
A.1.4.3	2,564	=Sumif(H2:H13;A19;E2:E13)

### 1) Log in

Enter the values in the Questionnaire. No standardization of moisture content is necessary

24	A.1.4	Wild harvest n.e.c.	A.1.4.1	Wild fish catch	122,147
25			A.1.4.2	All other wild aquatic animals catch	45,500
26			A.1.4.3	Wild aquatic plant harvest	2,564
27			A.1.4.4	Wild terrestrial plant harvest n.e.c.	
28			A.1.4.5	Wild terrestrial animal catch	

#### A.1.4.4 Wild terrestrial plant harvest n.e.c.

This data is commonly not reported in official statistics. It needs to be estimated, based on e.g., per capita values. Gathered wild plants by indigenous people should be reported under this category (if not already contained under category A.1.1). No standardization of moisture content is necessary.

#### A.1.4.5 Wild terrestrial animal catch

This data is commonly not reported in official agricultural statistics. But it might be reported by official hunting offices or similar institutions. Hunted animals by indigenous people should be reported under this category.

### 1) Convert reported numbers into life weight

	A	B	C	D	E	F	G
	Country					Life weight	Total weight
1	Name En	Animal species	Year	Unit Name	2019	in kg	(kg)
2	Austria	Rabbit	2019	Number	1,000	2.0	2,000
3	Austria	Lynx	2019	Number	500	30.0	15,000
4	Austria	Racoon	2019	Number	300	3.5	1,050
5	Austria	Widgeon	2019	Number	2,000	0.7	1,400
6	Austria	Fallow deer	2019	Number	1,500	65.0	97,500

Data for the conversion from numbers into life weight can be derived from Table 8 from the [Eurostat MFA compilation guide](#). For some species, detailed data for male/female species, and min/max/average values are reported

2) Convert weight in kg to weight in tons

	A	B	C	D	E	F	G	H
	Country					Life weight	Total weight	Total (tonnes
1	Name En	Animal species	Year	Unit Name	2019	in kg	(kg)	life weight)
2	Austria	Rabbit	2019	Number	1,000	2.0	2,000	2
3	Austria	Lynx	2019	Number	500	30.0	15,000	15
4	Austria	Racoon	2019	Number	300	3.5	1,050	1
5	Austria	Widgeon	2019	Number	2,000	0.7	1,400	1
6	Austria	Fallow deer	2019	Number	1,500	65.0	97,500	98

3) Add data for individual species

	A	B	C	D	E	F	G	H
	Country					Life weight	Total weight	Total (tonnes
1	Name En	Animal species	Year	Unit Name	2019	in kg	(kg)	life weight)
2	Austria	Rabbit	2019	Number	1,000	2.0	2,000	2
3	Austria	Lynx	2019	Number	500	30.0	15,000	15
4	Austria	Racoon	2019	Number	300	3.5	1,050	1
5	Austria	Widgeon	2019	Number	2,000	0.7	1,400	1
6	Austria	Fallow deer	2019	Number	1,500	65.0	97,500	98
7								
8							<b>Total</b>	<b>117</b>

4) Log in

24	A.1.4	Wild harvest n.e.c.	A.1.4.1	Wild fish catch	122,147
25			A.1.4.2	All other wild aquatic animals catch	45,500
26			A.1.4.3	Wild aquatic plant harvest	2,564
27			A.1.4.4	Wild terrestrial plant harvest n.e.c.	0
28			A.1.4.5	Wild terrestrial animal catch	117