

Latvian experts experience on data input in the CRF Reporter

(main problems, consistency between subsectors)

CRF Reporter Inventory Software CRF_Reporter v5.6.0 | Latvia 2015 Inventory #2 Editable



United Nations
Framework Convention on
Climate Change

Training seminar on QA/QC procedures in Land use, Land-use change and Forestry sector

18th – 19th May, 2015
Riga, Latvia

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Working scheme



Forest data modelling tool

The screenshot shows an Excel spreadsheet with multiple sheets. Key sections include:

- Meža ugunsgrēku radītās emisijas** (Forest fire emissions): Table with columns for CO₂, CH₄, N₂O, and NMHC values for different fire types.
- Mežizstrādes atlieku dedzināšanas radītās emisijas** (Forest residue incineration emissions): Table with columns for CO₂, CH₄, N₂O, and NMHC values.
- Meža ugunsgrēku radītās emisijas** (Forest fire emissions): Another table with columns for CO₂, CH₄, N₂O, and NMHC values.

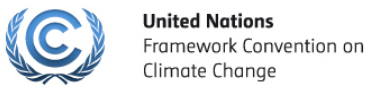
Data transfer from tool to CRF import excel sheets

CRF Reporter Interface

The screenshot shows a data table with the following structure:

Area	1990	1991	1992	1993	1994	1995
CO ₂	NA	NA	NA	NA	NA	NA
CH ₄	NA	NA	NA	NA	NA	NA
N ₂ O	NA	NA	NA	NA	NA	NA
CO ₂	NA	NA	NA	NA	NA	NA
CH ₄	NA	NA	NA	NA	NA	NA
N ₂ O	NA	NA	NA	NA	NA	NA
CO ₂ per area	kg CO ₂ /ha	NO	NO	NO	NO	NO
CH ₄ per area	kg CH ₄ /ha	NO	NO	NO	NO	NO
N ₂ O-N per area	kg N ₂ O-N/ha	NO	NO	NO	NO	NO

Data import in the CRF Reporter



- Administration
- Submissions
- Data Entry
- Reporting Tables
- Import / Export
- Submission Checks
- Useful Links

- Transfer
- Excel Export - Data Entry
- XML Export
- Export reporting tables
- Export All QA Checks
- Export party profile
- My Data Export
- Excel / XML - Import
- My Data Import

Operation	Requested	Started	Finished	Status	Your File	Report	Queue
Excel Import	08:34:43 CEST 08	08:35:30	08:42:43	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	08:27:23 CEST 08	08:27:23	08:34:26	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	08:00:35 CEST 08	08:18:27	08:25:09	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	07:32:44 CEST 08	07:52:44	07:59:37	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	07:14:22 CEST 08	07:23:53	07:30:46	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	07:06:01 CEST 08	07:06:01	07:13:07	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	11:21:56 CEST 07	14:08:47	15:12:48	SUCCESS	File	Report	done in 64 minute(s)
Excel Import	10:36:59 CEST 07	11:06:17	11:13:14	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	07:04:19 CEST 07	07:04:19	07:11:12	SUCCESS	File	Report	done in 7 minute(s)
Excel Import	16:00:35 CEST 06	23:51:49	00:20:52	SUCCESS	File	Report	done in 29 minute(s)

Submission checks: Completeness

-	4. Land Use, Land-Use Change and Forestry	✓
	4.1 Land Transition Matrix	✓
+	4(IV) Indirect N ₂ O Emissions from Managed Soils	✓
+	4.A Forest Land	✓
+	4.B Cropland	✓
+	4.C Grassland	✓
+	4.D Wetlands	✓
+	4.E Settlements	✓
+	4.F Other Land	✓
+	4.G Harvested Wood Products	✓
	4.H Other (please specify)	✓

Is it double counting of area?

Navigation Tree	
+	4(IV) Indirect N2O Emissions from Managed Soils
-	4.A Forest Land
-	4.A.1 Forest Land Remaining Forest Land
	Carbon stock change
+	4(I) Direct N2O Emissions from N Inputs to Managed Soils
	4(III) Direct N2O Emissions from N Mineralization/Immobilization
-	4(V) Biomass Burning
	Controlled Burning
	Wildfires

Id	[4. Land Use, Land-Use Change and Forestry][4.A Forest Land][4.A.1 Forest Land Remaining Forest Land][Carbon stock change]	Unit	1990
L1	Activity data		
L2	Total area	kha	3,163.42
L3	Area of mineral soil	kha	2,730.67
L4	Area of organic soil	kha	432.75
L5	Changes in carbon stock and net C		
L6	Carbon stock change in living t		

Navigation Tree	
+	4(IV) Indirect N2O Emissions from Managed Soils
-	4.A Forest Land
-	4.A.1 Forest Land Remaining Forest Land
	Carbon stock change
+	4(I) Direct N2O Emissions from N Inputs to Managed Soils
	4(III) Direct N2O Emissions from N Mineralization/Immobilization
-	4(V) Biomass Burning
	Controlled Burning
	Wildfires

Id	[4. Land Use, Land-Use Change and Forestry][4.A Forest Land][4.A.1 Forest Land Remaining Forest Land][4(V) Biomass Burning][wildfires]	Unit	1990	199
L1	Activity data	ha	258.00	69.0
L3	Method			
L4	CO2		T1	T1
L5	CH4		T1	T1
L6	N2O		T1	T1
L7	Emission factor information			

Emissions (CO₂) from drained inland organic soils



Navigation Tree

- Sectors/Totals
 - 1. Energy
 - 2. Industrial Processes and Product Use
 - 3. Agriculture
 - 4. Land Use, Land-Use Change and Forestry
 - 4.1 Land Transition Matrix
 - 4(IV) Indirect N2O Emissions from Managed Soils
 - 4.A Forest Land
 - 4.A.1 Forest Land Remaining Forest Land
 - Carbon stock change
 - 4(I) Direct N2O Emissions from N Inputs to Managed Soils
 - 4(III) Direct N2O Emissions from N Mineralization/Immobilization
 - 4(V) Biomass Burning
 - 4.A.2 Land Converted to Forest Land
 - 4(II) Emissions and removals from drainage and rewetting and other management of organic and mineral soils
 - 4.B Cropland

Id	[4. Land Use, Land-Use Change and Forestry][4.A Forest Land][4.A.1 Forest Land Remaining Forest Land][Carbon stock change]	Unit	1990
L1	Activity data		
L2	Total area	kha	3,163.42
L3	Area of mineral soil	kha	2,730.67
L4	Area of organic soil	kha	432.75
L5	Changes in carbon stock and net change		
L6	Carbon stock change in living trees		
L7	Gains	kt C	9,295.41805
L8	Losses	kt C	-3,977.43062
L9	Net change	kt C	5,317.98742
L10	Net carbon stock change in dead wood	kt C	-13.35742
L11	Net carbon stock change in litter	kt C	NO
L12	Net carbon stock change in soil		
L13	Mineral soils	kt C	NO
L14	Organic soils	kt C	-1,125.1497
L15	Method		
L16	CO2		
L17	Emission factor information		
L18	CO2	CS	

Total area of organic soils

Node

Node comment Node year

- 4(I) Direct N2O Emissions from N Inputs to Managed Soils
- 4(III) Direct N2O Emissions from N Mineralization/Immobilization
- 4(V) Biomass Burning
- 4.A.2 Land Converted to Forest Land
- 4(II) Emissions and removals from drainage and rewetting and other management of organic and mineral soils
 - Total Organic Soils
 - Drained Organic Soils
 - Rewetted Organic Soils
 - Other (please specify)
 - Total Mineral Soils
- 4.B Cropland

Node

Node comment Node year

Id	[4. Land Use, Land-Use Change and Forestry][4.A Forest Land][4(II) Emissions and removals from drainage and rewetting and other management of organic and mineral soils][Total Organic Soils][Drained Organic Soils]	Unit	1990
L1	Area	kha	IE
L2	Method		
L3	CO2		NA
L4	CH4		T1
L5	N2O		NA
L6	Emission factor information		
L7	CO2		NA
L8	CH4		D
L9	N2O		NA
L10	Emissions		
L11	CO2	kt	IE
L12	CH4	kt	2,2468,790
L13	N2O	kt	IE
L14	Implied emission factor		
L15	CO2 per area	kg CO2/h	IE

What information we have to report here to avoid of double counting of area?

N₂O emissions from drained inland organic soils



What information we have to report here to avoid of double counting of area?

Navigation Tree

- Sectors/Totals
 - 1. Energy
 - 2. Industrial Processes and Product Use
 - 3. Agriculture
 - 4. Land Use, Land-Use Change and Forestry
 - 4.1 Land Transition Matrix
 - 4(IV) Indirect N2O Emissions from Managed Soils
 - 4.A Forest Land
 - 4.A.1 Forest Land Remaining Forest Land
 - Carbon stock change
 - 4(I) Direct N2O Emissions from N Inputs to Managed Soils
 - 4(III) Direct N2O Emissions from N Mineralization/Immobilization
 - 4(V) Biomass Burning
 - 4.A.2 Land Converted to Forest Land
 - 4(II) Emissions and removals from drainage and rewetting and other

Id	[4. Land Use, Land-Use Change and Forestry][4.A Forest Land][4.A.1 Forest Land Remaining Forest Land][4(III) Direct N2O Emissions from N Mineralization/Immobilization]	Unit	1990
L1	Area	kha	IE
L2	Method		
L3	N2O		T1
L4	Emission factor information		
L5	N2O		
L6	Emissions		
L7	N2O	kt	1.90409951
L8	Implied emission factor		
L9	N2O	kg N2O-M IE	
L10	Documentation box		

4.A.1 Forest Land Remaining Forest Land

- Carbon stock change
- 4(I) Direct N2O Emissions from N Inputs to Managed Soils
- 4(III) Direct N2O Emissions from N Mineralization/Immobilization
- 4(V) Biomass Burning
- 4.A.2 Land Converted to Forest Land
- 4(II) Emissions and removals from drainage and rewetting and other
 - Total Organic Soils
 - Drained Organic Soils
 - Rewetted Organic Soils
 - Other (please specify)
 - Total Mineral Soils
- 4.B Cropland

Id	[4. Land Use, Land-Use Change and Forestry][4.A Forest Land][4(II) Emissions and removals from drainage and rewetting and other management of organic and mineral soils][Total Organic Soils][Drained Organic Soils]	Unit	1990
L1	Area	kha	IE
L2	Method		
L3	CO2		NA
L4	CH4		T1
L5	N2O		NA
L6	Emission factor information		
L7	CO2		NA
L8	CH4		D
L9	N2O		NA
L10	Emissions		
L11	CO2	kt	IE
L12	CH4	kt	2.2468679043
L13	N2O	kt	IE
L14	Implied on value = N2O		
L15	CO2	Formula=L13=AGR(ALL)	02/h IE

Thank you for attention!

