

Turkish National GHG Inventory Agriculture Sector

ECRAN Regional Training Seminar on Assessment of GHG Inventories in Agriculture

Zagreb/Croatia
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Environment, Energy and Transport Statistics Department

OVERVIEW OF THE NATIONAL SYSTEM

- GHG emissions inventory is prepared by the “GHG Emissions Inventory Working Group”
 - Coordination Board on Climate Change and Air Management (CBCCAM).
 - Official Statistics Programme (OSP) based on the Statistics Law of Turkey No. 5429
- TurkStat is the responsible organization for the coordination of this working group (WG) and also the UNFCCC Inventory focal point of Turkey



OVERVIEW OF THE NATIONAL SYSTEM

- Emissions of indirect gases for all sectors were calculated by the Ministry of Environment and Urbanization (MoEU) under the Convention on Long-range Transboundary Air Pollution (CLRTAP) and transferred to TurkStat.
- The 2006 IPCC Guidelines were used since our 2015 Inventory Submission as it is the obligation of Annex-I parties.



OVERVIEW OF THE AGRICULTURE SECTOR

Agriculture	Time Frame	Territory	GHG	Method Applied	Emission Factor
Enteric Fermentation	1990-2014	TR	CH4	T1	D
Manure Management	1990-2014	TR	CH4, N2O	T1	D
Rice cultivation	1990-2014	TR	CH4	T1	D
Agricultural soils	1990-2014	TR	N2O	T1	D
Prescribed burning of savannas	1990-2014	TR	NOT OCCURRED		
Field burning of agricultural residues	1990-2014	TR	CH4, N2O	T1	D
Liming	1990-2014	TR	NOT ESTIMATED		
Urea application	1990-2014	TR	CO2	T1	D
Other carbon-containing fertilizers	1990-2014	TR	NOT ESTIMATED		

COMPLETENESS

Not estimated categories

N2O emissions from;

- Sewage sludge applied to soils (CRF 3D.2b)
- Cultivation of organic soils (CRF 3D.6)

CO2 emissions from;

- Liming (CRF 3G)
- Other-carbon containing fertilizers (CRF 3I)

KEY CATEGORIES

- **3A Enteric fermentation (CH4)** Both under Level and Trend Assessment
- **3D Agricultural Soils (N2O)** Both under Level and Trend Assessment
- **3B Manure Management (CH4)** Both under Level and Trend Assessment
- **3B Manure Management (N2O)** Only under Level Assessment

PLANNED IMPROVEMENTS

Using a higher Tier method, specifically Tier 2, for key categories:

- enteric fermentation (CRF3A)
- agriculture soils category (CRF 3D)
- manure management (CRF 3B).

In order to increase Tier level;

- Livestock parameters related to the characterization of subgroup of significant livestock species, methane conversion factor, gross energy intake
- Detailed information on animal characteristics and manure management practices
- Emission factors under different conditions for subcategories of agricultural soils category

are required.

PLANNED IMPROVEMENTS

In order to achieve completeness of the agriculture sector:

N₂O emissions from;

- Sewage sludge applied to soils (CRF 3D.2b)
- Cultivation of organic soils (CRF 3D.6)

CO₂ emissions from;

- Liming (CRF 3G)
- Other-carbon containing fertilizers (CRF 3I)

is planned to be estimated.

Thank you for your time and attention!

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