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IMPROVEMENTS ON FOREST LAND CATEGORIES OF TURKISH NIR



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Content



- **Introduction**
- **Improvements on Forest Land Categories of 2015
submission of Turkey's NIR**
- **Improvements on Forest Land Categories of 2016
submission of Turkey's NIR**
- **Conclusion : Planned Improvements**



Introduction



- This calculations and report (NIR) and LULUCF sector calculations have been made for UNFCCC that Turkey signed since 2006.
- Prepared according to IPCC guidelines (Latest 2006)
- The Gains-losses method use for calculation. Most of sub-categories are calculated with level of Tier 2
- Time period for latest submission is 1990-2014



Introduction



- 6 Carbon Pools in LULUCF sector (5 of 6 can be calculated in NIR of Turkey)
 1. Above Ground Biomass
 2. Below Ground Biomass
 3. Litter
 4. Dead Wood
 5. Soil
 6. Harvested wood products

- There are 3 subcategories:
 - Forestland remain forestland,
 - Land converted to forestland
 - Forestland converted to Grassland



Activity Data



- The land uses and land use changes data for Forestland category is provided from ENVANIS (Inventory Statistical System for Forests) database since 2004.
- The ENVANIS is a tabular database that contains annual increment, growing stock, results of forest management plans by subdistrict according to forest and stand types



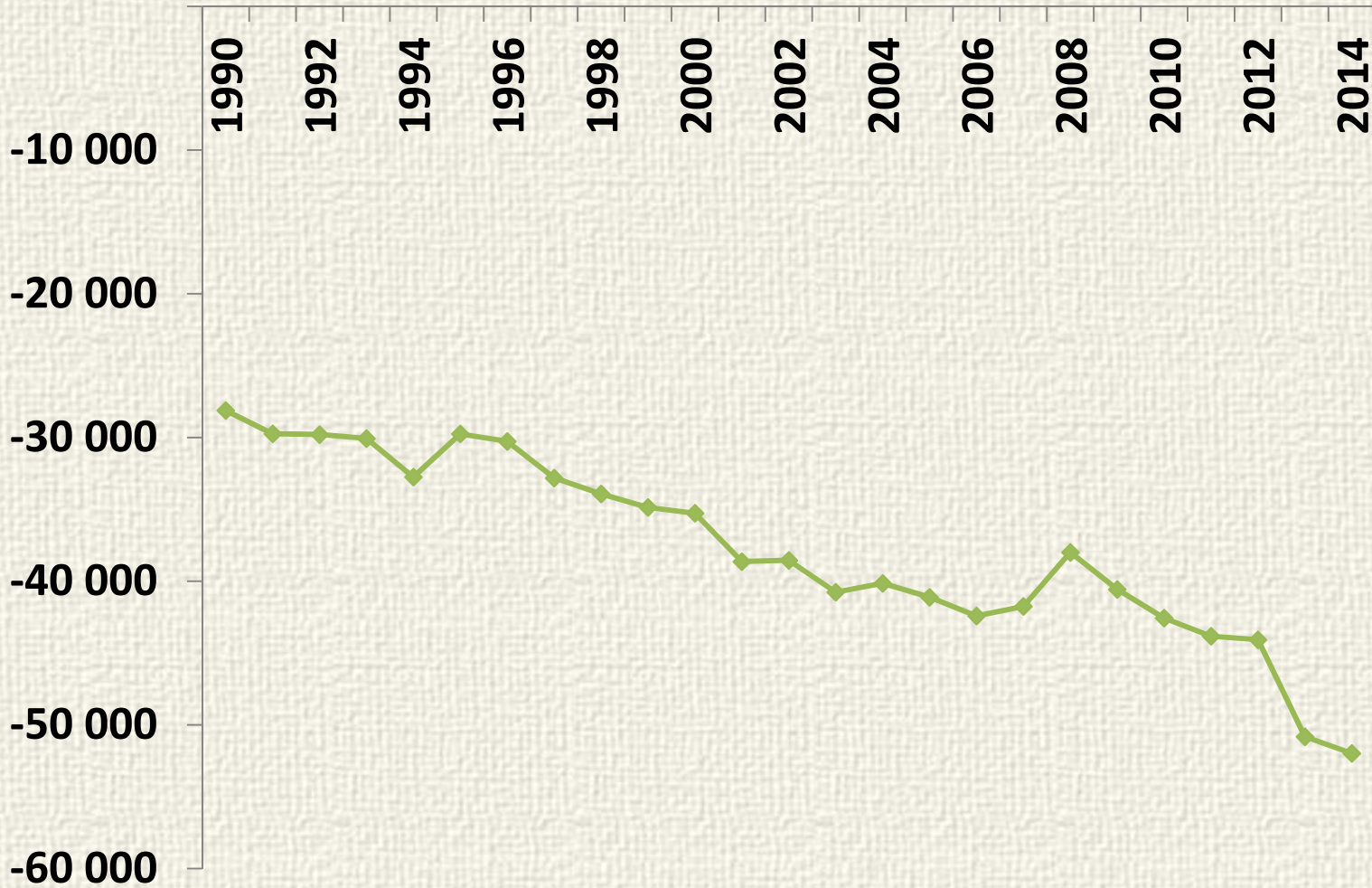
Activity Data



- Annual commercial cutting and fuel wood data taken from Forest Production and Marketing Department.
- Annual forest fire information (area) taken from Forest Fire Department
- Annual illegal cutting and wood gathering information taken from Combatting Forest Pest Department.
- Forestland: Forest definition according to the legislation (Forest Law No: 6831) (GDF, 1956)

Results of Turkey's Forestland Category of 2016 NIR

Figure 2. Net removals from Forestland Category as kt CO₂ equivalents 1990-2014 NIR





Improvements on Forest Land Categories of 2015 submission of Turkey's NIR



- The first improvement of this LULUCF sector is goes on with new added categories like HWP.
- The emission/removal factors have been improved at the local level in most categories. Also the wood densities have been improved for Forestland category.
- In this submission, the emphasis has been given to the QA/QC of the activity data and emission/factors.



Improvements on Forest Land Categories of 2016 submission of Turkey's NIR



- The carbon stock changes of the Forest Land category have been calculated at sub-regional level in this submission. Therefore calculation for this submission has been recalculated for the period 1990-2013.
- Forest Land converted grassland (deforestation) has been calculated for a first time this submission for the period 1990-2014.



Conclusion : Planned Improvements



➤ Integrated Approach to Management of Forests in Turkey, With Demonstration in High Conservation Value Forests in the Mediterranean Region Project (GEF 5) was initiated in 2013.

With this project sustainable forest management, establishment of policy and institutional framework GHG inventory estimation and carbon sequestration of forests issues will be studied more in detail. This project also has been started to activities for establishing MRV system for GHG inventory of Forest Land category.



Conclusion : Planned Improvements



- Digitalization of the forest managing maps of Turkey was initiated in 2008. It will be finished in 2018.
- Turkey is a partner of International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests. The ICP forest project's soil analysis in Turkish forest was initiated in 2015 January. It will be finished until 2019. The results of this project will contribute to our soil, and litter C database.



Conclusion : Planned Improvements



- There have been implemented three EU project about the LULUCF calculations.
- First project name is Environment and Climate Regional Accession Network (ECRAN). This project organize regional workshops about LULUCF calculations.
- Second project name is “Technical Assistance for Support to Mechanism for Monitoring Turkey's Greenhouse Gas Emissions” which has been start at February 2015.



Conclusion : Planned Improvements

One of the expected result of this project: Improvement of the quality of the national inventory reports, with a focus on improved estimations and reporting following UNFCCC and IPCC guidelines.

- Third project name is 'Capacity Building in the Field of Climate Change in Turkey' which is in Terms of Reference (TOR) stage. One of the expected result of this project: To develop an analytical basis for the LULUCF sector.
- These projects are expected to increase the GHG reporting capacity.



Thank you