DMC: Eurostat guidelines and questionnaires

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Global Webinar on Geospatial and Other Data Sources for Environment Statistics: Assessing the Impact of the Economy on the Environment
Economy-wide material flow accounts – EW-MFA

• Domestic material consumption (DMC) = indicator
derived from ...

• Economy-wide material flow accounts (EW-MFA) = accounting framework
EW-MFA – definition

EW-MFA record …

- the material flows \textbf{into} the economy* i.e. from other economies or from environment

- material accumulation in the economy, and

- material flows \textbf{out of} the economy i.e. to other economies or to the environment.

* as defined and delineated in national accounts
Pyramid of statistical information
EW-MFA – derived indicators

- Input indicators:
  - Direct Material Input (DMI)
  - Raw Material Input (RMI)

- Consumption indicators:
  - Direct Material Consumption (DMC)
  - Raw Material Consumption (RMC)
EW-MFA guidelines

Economy-wide material flow accounts and derived indicators
A methodological guide

Economy Wide Material Flow Accounts (EW-MFA)
Compilation Guide 2012
26 July 2012

download:
https://ec.europa.eu/eurostat/web/environment/methodology
EW-MFA data collections

Eurostat EW-MFA questionnaire

- Table A: domestic extraction
- Table B: physical imports
- Table D: physical exports
- Table F: domestic processed output
- Table G: balancing items
- Table H: indicators
- Table I: MFA in raw material equivalents

• download: https://ec.europa.eu/eurostat/web/environment/methodology
Compilation tools (integrated in questionnaire) for:

- "grazed biomass"
- "crop residues"
- "sand and gravel"
- "clay"
- "limestone"
- Balancing items
Annexes to questionnaire:

I. Correspondences between EW-MFA classification for biomass and various Eurostat statistics, such as agricultural crop statistics, forestry statistics, fishery statistics

II. Correspondences between EW-MFA classification for metal ores, non-metallic minerals and fossil energy materials with codes of Eurostat's energy statistics/balances, PRODCOM and CPA

III. Correspondences between EW-MFA classification for non-metallic minerals and CPA, PRODCOM, BGS and USGS

IV. Correspondence between Combined Nomenclature 2021 (CN) and EW-MFA classification for imports and exports

V. Correspondence between Combined Nomenclature (CN) 2021 and EW-MFA classification for stages of manufacturing

VI. Conversion factors for imports and exports - Combined Nomenclature, 2017

VII. Complete version of the Combined Nomenclature 2022 including the 2,4, 6 and 8 digits codes, valid from 1988
Dissemination

- Online database
Dissemination

Environment and energy

Environment (env)

- Emissions of greenhouse gases and air pollutants (env_air)

Material flows and resource productivity (env_mrp)

- Material flow accounts (env_ac_mfa)
- Material flow accounts - domestic processed output (env_ac_mfadpo)
- Material flow accounts - balancing items (env_ac_mfab)
- Material flow accounts - main indicators (env_ac_mfain)
- Material flow accounts in raw material equivalents - modelling estimates (env_ac_rme)
- Material flow accounts in raw material equivalents by final uses of products - modelling estimates (env_ac_rmeid)

- Resource productivity (env_ac_rp)
- Material import dependency (env_ac_mic)
- Circular material use rate (env_ac_cur)
- Circular material use rate by material type (env_ac_curm)
- Material flows for circular economy - Sankey diagram data (env_ac_sd)
- Trade in recyclable raw materials by partner (env_trdrmm)
Thank you