

Domestic waste emissions to European freshwaters in the 2010s - (Version 1-0)

Type Text File

Tags Water quality, BOD, N, P, Nitrogen, Phosphorous, Population Equivalent, PE, Domestic waste

Summary

To obtain a pan-European table class containing domestic waste emissions to European freshwaters in the 2010s

Description

Mean annual domestic waste emissions (Person Equivalent, 5-days Biochemical Oxygen Demand BOD5, Nitrogen and Phosphorous) to freshwater network. Estimation of domestic waste emissions to waters is needed for pollution assessment and modelling. Quantity and location of domestic waste emissions to European freshwaters are provided for the 2010s. Specifically, the dataset reports mean annual domestic waste emissions in terms of Population Equivalent (PE), and loads (t/y) of total Nitrogen, total Phosphorous, and 5-days Biochemical Oxygen Demand (BOD). The assessment is based on available European databases, population density and national statistics data. The spatial resolution and extent of the analysis corresponded to the CCM2 River and Catchment Database for Europe

Credits

De Jager, Alfred; Vogt, Jürgen (2007): Rivers and Catchments of Europe - Catchment Characterization Model (CCM). European Commission, Joint Research Centre (JRC) [Dataset] PID: <http://data.europa.eu/89h/fe1878e8-7541-4c66-8453-afdae7469221>

Use limitations

No conditions apply

Extent

West -15 East 60
North 72 South 32

Scale Range

Maximum (zoomed in) 1:50,000
Minimum (zoomed out) 1:50,000,000

Topics and Keywords ►

Themes or categories of the resource environment, health, society

Content type ↔ Other Documents

Theme keywords Water quality, BOD, N, P, Nitrogen, Phosphorous, Person Equivalent, PE, Domestic waste

Place keywords Europe

Citation ►

Title Domestic waste emissions to European freshwaters in the 2010s - (Version 1-0)
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Edition 1-0
Edition date 2019-06-28

Presentation formats ⇔ digital document
FGDC geospatial presentation format vector digital data

Resource identifier
Value <http://data.europa.eu/89h/8200d185-6694-4789-989e-77cac01691c0> (not valid yet)

Resource Details ►

Dataset languages ⇔ English (UNITED STATES)
Dataset character set utf8 - 8 bit UCS Transfer Format

Status completed

Processing environment ⇔ Version 6.2 (Build 9200) ; Esri ArcGIS 10.7.1.11595

Credits
De Jager, Alfred; Vogt, Jürgen (2007): Rivers and Catchments of Europe - Catchment Characterization Model (CCM).
European Commission, Joint Research Centre (JRC) [Dataset] PID: <http://data.europa.eu/89h/fe1878e8-7541-4c66-8453-afdae7469221>

ArcGIS item properties
Name ⇔ domesticWasteEmissions_v10.csv

Extents ►

Extent
Geographic extent
Bounding rectangle
Extent type

Extent used for searching

West longitude -15
East longitude 60
North latitude 72
South latitude 32

Temporal extent
Beginning date 2013-12-31 00:00:00
Ending date 2015-12-31 00:00:00

Resource Points of Contact ►

Point of contact - author
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Contact's position Scientific Officer

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Organization's name JRC

Contact's position xx

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Resource Maintenance ►

Resource maintenance

Update frequency irregular

Resource Constraints ►

Security constraints

Classification unclassified

Constraints

Limitations of use

No conditions apply

Data Quality ►

Scope of quality information



Resource level dataset

Data quality report - Domain consistency ►

Dimension horizontal

Test date 2019-06-28 01:00:00

Test date 2019-07-01 00:00:00

Quantitative test results

Value 10

Units

Symbol [arb'U]

Value type integer

Conformance test results

Test passed Yes

Product specification



Title INSPIRE

Creation date 2019-06-28 00:00:00

Lineage

Lineage statement

A method was developed to merge domestic waste data reported in databases (REP approach) with alternative sources of information based on population density and national statistics on sewerage connection and treatment level rates (POP approach), to fill in content and regional gaps . The spatial resolution and extent of the analysis and dataset corresponded to the CCM2 River and Catchment Database for Europe , which defines the European drainage network and divides the land into topologically connected catchments. The reference period for the assessment was 2014-2015, although in some cases a longer time period was considered.

The assessment of emissions of nitrogen, phosphorus and organic matter (BOD) in domestic waste involved several steps, namely assessment (i) of the spatial distribution of annual domestic waste (LOCATION); (ii) of the pollution loads (QUANTITY); and (iii) of the level of treatment (ABATEMENT).

The dataset consists of the original CCM2 catchment polygon feature class whose table reports emissions to waters.

Distribution

Distribution format

Version 10.0

Name ⇔ Text File

Transfer options

Online source

Location <https://water.jrc.ec.europa.eu/wpi>

Access protocol WWW:LINK

Name Water Pressure Indicators

Description Water Pressure indicators landing page

Function performed information

Application profile xx

Fields

Details for object domesticWasteEmissions_v10



Type ⇔ Feature Class

Row count ⇔ 1309019

Definition
Entity Type Definition

Definition source
JRC

Field WSO1_ID

▶
Alias ↔ WSO1_ID
Data type ↔ Integer
Width ↔ 4
Precision ↔ 0
Scale ↔ 0

Field description
CCM 2.1 elementary catchment identifier

Description source
Catchment Characterisation Model (CCM). European Commission, Joint Research Centre

Field NUTS3_ID

▶
Alias ↔ NUTS3_ID
Data type ↔ String
Width ↔ 5
Precision ↔ 0
Scale ↔ 0

Field description
Identifier of Eurostat Nuts level 3 administrative areas

Description source
Eurostat

Field PE_method

▶
Alias ↔ PE_method
Data type ↔ String
Width ↔ 3
Precision ↔ 0
Scale ↔ 0

Field description
Method used to estimate domestic waste (PE_IAS to PE_3P items): REP = UWWTD database; POP = population density and statistics

Description source
European Commission - DG JRC

Field Pop_SD



Alias ↔ Pop_SD
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste Population in scattered dwellings (in this case 1 inhabitant = 1 PE)

Description source

European Commission - DG JRC

Field PE_IAS



Alias ↔ PE_IAS
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste Person Equivalent treated in Independent Appropriate Systems

Description source

European Commission - DG JRC

Field PE_0



Alias ↔ PE_0
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste in Person Equivalent that is connected to sewerage but not treated; it is equivalent to the sum of PE_RES_0 and PE_AGGL_0

Description source

European Commission - DG JRC

Field PE_res_0



Alias ↔ PE_res_0
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste Person Equivalent (1 PE = 1.23 inhabitant) attributed to connected but not treated population estimated to be unreported in the UWWTD database (part of residual population; see methods section)

Description source

European Commission - DG JRC

Field PE_aggl_0



Alias ↔ PE_aggl_0

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste Person Equivalent reported in the UWWTD database agglomeration table as connected but not treated

Description source

European Commission - DG JRC

Field PE_1



Alias ↔ PE_1

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste Person Equivalent treated in primary treatment WWTPs

Description source

European Commission - DG JRC

Field PE_2



Alias ↔ PE_2

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste Person Equivalent treated in secondary treatment WWTPs

Description source

European Commission - DG JRC

Field PE_3



Alias ↔ PE_3

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste Person Equivalent treated in tertiary treatment WWTPs

Description source

European Commission - DG JRC

Field PE_3P



Alias ↔ PE_3P

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste Person Equivalent treated in tertiary treatment WWTPs equipped with phosphorous removal technology

Description source

European Commission - DG JRC

Field PE_TOT



Alias ↔ PE_TOT

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Total domestic waste Person Equivalent in the area, is the sum of Pop_SD, PE_IAS, PE_0, PE_1, PE_2, PE_3, and PE_3P

Description source

European Commission - DG JRC

Field N_SD



Alias ↔ N_SD

Data type ↔ Double

Width ↔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of nitrogen from scattered dwellings. In REP approach region these are part of 'residual population'

Description source

European Commission - DG JRC

Field N_IAS

Alias ⇔ N_IAS

Data type ⇔ Double

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of nitrogen from Independent appropriate systems

Description source

European Commission - DG JRC

Field N_0

Alias ⇔ N_0

Data type ⇔ Double

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of nitrogen from connected not treated population; it is the sum of N_RES_0 + N_Aggl_0

Description source

European Commission - DG JRC

Field N_res_0

Alias ⇔ N_res_0

Data type ⇔ Double

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of nitrogen from connected not treated population as unreported in the UWWTD database and estimated as part of residual population

Description source
European Commission - DG JRC

Field N_aggl_0



Alias ↔ N_aggl_0
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of nitrogen from connected not treated population from reported UWWTD database agglomeration table as connected but not treated waste

Description source
European Commission - DG JRC

Field N_1



Alias ↔ N_1
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of nitrogen from primary WWTPs

Description source
European Commission - DG JRC

Field N_2



Alias ↔ N_2
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of nitrogen from secondary WWTPs

Description source
European Commission - DG JRC

Field N_3



Alias ↔ N_3
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description
Domestic waste emissions of nitrogen from tertiary WWTPs

Description source
European Commission - DG JRC

Field N_3P

Alias ↔ N_3P
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description
Domestic waste emissions of nitrogen from tertiary with Phosphorous removal WWTPs

Description source
European Commission - DG JRC

Field P_SD

Alias ↔ P_SD
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description
Domestic waste emissions of phosphorous from scattered dwellings. In REP approach region these are part of 'residual population'

Description source
European Commission - DG JRC

Field P_IAS

Alias ↔ P_IAS
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of phosphorous from Independent appropriate systems

Description source

European Commission - DG JRC

Field P_0

Alias ↔ P_0

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste emissions of phosphorous from connected not treated population; it is the sum of N_RES_0 + N_Aggl_0

Description source

European Commission - DG JRC

Field P_res_0

Alias ↔ P_res_0

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste emissions of phosphorous from connected not treated population as unreported in the UWWTD database and estimated as part of residual population

Description source

European Commission - DG JRC

Field P_aggl_0

Alias ↔ P_aggl_0

Data type ↔ Double

Width ↔ 8

Precision ↔ 0

Scale ↔ 0

Field description

Domestic waste emissions of phosphorous from connected not treated population from reported UWWTD database agglomeration table as connected but not treated waste

Description source

European Commission - DG JRC

Field P_1

Alias ↔ P_1
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description
Domestic waste emissions of phosphorous from primary WWTPs

Description source
European Commission - DG JRC

Field P_2

Alias ↔ P_2
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description
Domestic waste emissions of phosphorous from secondary WWTPs

Description source
European Commission - DG JRC

Field P_3

Alias ↔ P_3
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description
Domestic waste emissions of phosphorous from tertiary WWTPs

Description source
European Commission - DG JRC

Field P_3P

Alias ↔ P_3P
Data type ↔ Double
Width ↔ 8
Precision ↔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of phosphorous from tertiary with Phosphorous removal WWTPs

Description source

European Commission - DG JRC

Field BOD_SD



Alias ⇔ BOD_SD

Data type ⇔ Double

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from scattered dwellings. In REP approach region these are part of 'residual population'

Description source

European Commission - DG JRC

Field BOD_IAS



Alias ⇔ BOD_IAS

Data type ⇔ Double

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from Independent appropriate systems

Description source

European Commission - DG JRC

Field BOD_0



Alias ⇔ BOD_0

Data type ⇔ Double

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from connected not treated population; it is the sum of N_RES_0 + N_Aggl_0

Description source
European Commission - DG JRC

Field BOD_res_0

Alias ↔ BOD_res_0
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from connected not treated population as unreported in the UWWTD database and estimated as part of residual population

Description source
European Commission - DG JRC

Field BOD_aggl_0

Alias ↔ BOD_aggl_0
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from connected not treated population from reported UWWTD database agglomeration table as connected but not treated waste

Description source
European Commission - DG JRC

Field BOD_1

Alias ↔ BOD_1
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from primary WWTPs

Description source
European Commission - DG JRC

Field BOD_2

Alias ↔ BOD_2
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from secondary WWTPs

Description source

European Commission - DG JRC

Field BOD_3

Alias ↔ BOD_3
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from tertiary WWTPs

Description source

European Commission - DG JRC

Field BOD_3P

Alias ↔ BOD_3P
Data type ↔ Double
Width ↔ 8
Precision ↔ 0
Scale ↔ 0

Field description

Domestic waste emissions of 5-days Biochemical Oxygen Demand from tertiary with Phosphorous removal WWTPs

Description source

European Commission - DG JRC

Metadata Details ▶

Metadata language ↔ English (UNITED STATES)
Metadata character set ↔ utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata ↔ non-geographic dataset

Scope name ↔ non-geographic dataset

Last update ↔ 2019-12-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Metadata style INSPIRE Metadata Directive

Standard or profile used to edit metadata INSPIRE

Created in ArcGIS for the item 2019-12-04 15:07:12

Last modified in ArcGIS for the item 2019-12-04 15:16:29

Automatic updates

Have been performed Yes

Last update 2019-12-04 15:11:01

Metadata Contacts ►

Metadata contact - point of contact

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Metadata Maintenance ►

Maintenance

Update frequency irregular