

World - World Bank ToxInt Database 1996, Intensity of Toxic Pollution from Industry

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Sampling

No content available

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
1996	1996	N/A

Data Collection Mode

Other [oth]

DATA COLLECTION NOTES

PRDEI has provided pollution intensities with their corresponding toxic risks for 246 chemicals in the U.S. EPA's Toxic Release Inventory (TRI).

The database used to determine pollution intensities is the same database used from the TRI to generate the Industrial Pollution Projection System (IPPS). All the pollution intensities represented are lower-bound. To learn how lower-bound pollution intensities were calculated, please refer to Section 3.2.4, "Alternative Estimates of Sectoral Pollution Intensity" of the IPPS paper at http://www.NIPR.org/work_paper/1431/. Please also note, Section 4, Construction of a Toxic Risk Pollution Intensity Index represents an unrelated risk weighting methodology.

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

WLD_1996_TID_v01_M

Content

Cases 3160

Variable(s) 13

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V1	chemical	Chemical name	discrete	character	
V2	ncas	Chemical Abstract Service (CAS) number	contin	numeric	
V3	isic	4-digit ISIC codes	contin	numeric	
V4	tlv	Threshold Limit Values	contin	numeric	
V5	airt	Value of output for air	contin	numeric	
V6	aire	Pollution intensities for air by employment	contin	numeric	
V7	airv	Value added for air	contin	numeric	
V8	solt	Value of output for land	contin	numeric	
V9	sole	Pollution intensities for land by employment	contin	numeric	
V10	solv	Value added for land	contin	numeric	
V11	watt	Value of output for water	contin	numeric	
V12	wate	Pollution intensities for water by employment	contin	numeric	
V13	watv	Value added for water	contin	numeric	

Chemical name (chemical)

File: WLD_1996_TID_v01_M

Overview

Type: Discrete
 Format: character
 Width: 58

Valid cases: 3160
 Invalid: 0

Chemical Abstract Service (CAS) number (ncas)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 50000-39156417

Valid cases: 3160
 Invalid: 0
 Minimum: 50000
 Maximum: 39156417
 Mean: 2535258
 Standard deviation: 3672183.6

Description

The Chemical Abstract Service (CAS) number is a standardized chemical identifier.

4-digit ISIC codes (isic)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 3111-3909

Valid cases: 3160
 Invalid: 0
 Minimum: 3111
 Maximum: 3909
 Mean: 3591.2
 Standard deviation: 223.3

Threshold Limit Values (tlv)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0.0020000000949949-7670

Valid cases: 2384
 Invalid: 776
 Minimum: 0
 Maximum: 7670
 Mean: 310
 Standard deviation: 1036.6

Description

TLV's are measures of safe toxic exposure levels, as determined by the American Conference of Governmental Industrial Hygienists (ACGIH). They are time-weighted average concentrations in air that cannot be exceeded without adverse effects for workers in a normal 8-hour work day and a 40-hour work week. TLV's are updated annually by the ACGIH. This data uses 1996 values.

All TLV's units are in milligrams per cubic meter. In cases where no TLV measurement is provided for a chemical, it is because no guideline had been provided by the ACGIH. Also please note that not all toxics are released by plants in all sectors, so that for a particular toxic, the omission of a sector row implies zero output of the toxic from that sector.

Value of output for air (airt)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 16952.5
Range: 0-16952.5234375	Mean: 50.8
	Standard deviation: 563.7

Description

The units of measurement are kilograms per 1987 \$US million.

Pollution intensities for air by employment (aire)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 6038986
Range: 0-6038986	Mean: 7878
	Standard deviation: 126212.8

Description

The units of measurement for employees are kilograms per 1,000 employees.

Value added for air (airv)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: -122321.2
Decimals: 0	Maximum: 41794100264960
Range: -122321.1640625-41794100264960	Mean: 67296661948.4
	Standard deviation: 1314721104371.8

Description

The units of measurement are kilograms per 1987 \$US million.

Value of output for land (solt)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 45071.4
Range: 0-45071.4375	Mean: 70.1
	Standard deviation: 888

Description

The units of measurement are kilograms per 1987 \$US million.

Pollution intensities for land by employment (sole)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 3155000.5
Range: 0-3155000.5	Mean: 10457.1
	Standard deviation: 91139.5

Description

The units of measurement for employees are kilograms per 1,000 employees.

Value added for land (solv)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: -34189.7
Decimals: 0	Maximum: 16814599831552
Range: -34189.734375-16814599831552	Mean: 8920929284.3
	Standard deviation: 310367881791.6

Description

The units of measurement are kilograms per 1987 \$US million.

Value of output for water (watt)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 25662.8
Range: 0-25662.80078125	Mean: 34.2
	Standard deviation: 679.3

Description

The units of measurement are kilograms per 1987 \$US million.

Pollution intensities for water by employment (wate)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 9531296
Range: 0-9531296	Mean: 9478.5
	Standard deviation: 219894.6

Description

The units of measurement for employees are kilograms per 1,000 employees.

Value added for water (watv)

File: WLD_1996_TID_v01_M

Overview

Type: Continuous	Valid cases: 3160
Format: numeric	Invalid: 0
Width: 9	Minimum: 0
Decimals: 0	Maximum: 38809399984128
Range: 0-38809399984128	Mean: 31938345707.3
	Standard deviation: 944343308355.2

Description

The units of measurement are kilograms per 1987 \$US million.

Related Materials

Technical documents

Readme file

Title	Readme file
Description	Description of original dataset, and conditions of use
Filename	readme.txt

Other materials

The industrial pollution projection system

Title	The industrial pollution projection system
Author(s)	Hettige, Hemamala; Martin, Paul; Singh, Manjula
Date	1995-03-31
Filename	http://go.worldbank.org/BVL18RZFP0
