

# **PEP ecopassport® PROGRAM**

## PSR

# SPECIFIC RULES FOR WOOD HEATING SYSTEM APPLIANCE FOR INDIVIDUAL DWELLINGS

PSR-0015-ed1-EN-2017 01 10

According to PSR-model-ed1-EN-2015 03 20

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## **1.** Introduction

This reference document complements and explains the Product Environmental Profile (PEP) Drafting Rules defined by the PEP ecopassport<sup>®</sup> program (PEP-PCR ed.3-EN-2015 04 02), available at <u>www.pep-ecopassport.org</u>).

It defines the additional requirements applicable to independent wood heating devices for individual dwellings. Compliance with these requirements is necessary to:

- Qualify the environmental performance of these products on an objective and consistent basis,
- Publish PEPs compliant with the PEP ecopassport<sup>®</sup> program and international reference standards.<sup>1</sup>

This reference document was drawn up in compliance with the open, transparent rules of the PEP ecopassport<sup>®</sup> program with the support of stakeholders and professionals in the wood heating devices manufacturers and in particular the independent wood heating devices market and other stakeholders.

PEP eco PASS PORT®	www.pep-ecopassport.org
PSR reference	PSR-0015-ed1-EN-2017 01 10
Critical review	The third-party Critical review was carried out by Mr Pierre RAVEL and Miss Charlène FERIAU from CSTB. The declaration of conformity published on 27/02/2017 can be found in the Appendices.
Availability	The Critical review report is available on request from the P.E.P. Association <u>contact@pep-ecopassport.org</u>
Scope of validity	The critical review report and the declaration of conformity remain valid within 5 years or until the PEP Drafting Rules, or the normative reference texts to which they refer, are modified.

<sup>&</sup>lt;sup>1</sup> ISO 14025, ISO 14040 and ISO 14044 standards

## 2. Scope

In accordance with the general instructions of the PEP ecopassport<sup>®</sup> program and additional to the PCR, "Product Category Rules" of the PEP ecopassport<sup>®</sup> eco-declaration program, this document sets out the specific rules for the independent wood heating devices for individual dwellings and defines the product specifications to be adopted by manufacturers in the development of their PRODUCT ENVIRONMENTAL PROFILES (PEPs) particularly with regard to:

- the technology and its type of application,
- the reference life time (RLT) taken into account for the products Life Cycle Assessment (LCA),
- the conventional use scenarios to be adopted during the product use phase.

The main purpose of those specific rules is to provide a shared basis to manufacturers when developing life cycle assessments for their products.

The independent wood heating system appliances for individual dwellings products main purpose is to ensure an individual dwellings thermal heating function in addition to the dwellings centralized heating management installation. They are characterized by the presence of a combustion chamber, chamber plates, and a heat exchanger. Two main product families having the same function are the most common concerning the wood heating system appliances for individual dwellings. There are the devices using the wood log as a solid fuel, and the devices using wood pellet. This specific rules apply to devices with a nominal calorific power up to 50 kW.

## **2.1.** Wood heating system appliances

#### **2.1.1.** Wood fireplaces

Wood fireplace are devices closed by a door, made to be inserted within a niche, a device enclosure or in the combustion chamber of an open fire. They are generally composed of (non-exhaustive list):

- A combustion chamber,
- Chamber plates,
- A heat exchanger.

Those devices can be equipped with:

• A fan providing a continuous air supply for the combustion

Connection conduits and boilers are not covered by the PSR and must be covered by a specific declaration.

#### 2.1.2. Wood stoves

Wood stoves are devices composed of a completely closed combustion chamber with one or several loading doors, providing heat through radiation and/or convection. They are generally composed of (non-exhaustive list):

- A combustion chamber,
- Chamber plates,

• A heat exchanger.

Those devices can be equipped with:

• A fan providing a continuous air supply for the combustion

Connection conduits and boilers are not covered by the PSR and must be covered by a specific declaration.

#### 2.1.3. Wood cookers

Wood cookers are specific devices incorporating a food cooking function thanks to a heating plate and/or an oven. They are generally composed of (non-exhaustive list):

- A combustion chamber,
- Chamber plates,
- A heat exchanger,
- Heating plate and/or oven.

The food cooking function is considered as a secondary function and is not considered in the use scenario. The following precision must be completed and presented in the declaration, in order to ensure clarity and transparency to the user:

The food cooking function is not considered in this declaration and must be calculated by the declaration used, based on the product usage specific consumption.

Connection conduits and boilers are not covered by the PSR and must be covered by a specific declaration.

## **2.2.** Pellet heating system appliances

#### **2.2.1.** Pellet fireplaces

Pellet fireplaces are devices closed by a door, made to be inserted within a niche, a device enclosure or in the combustion chamber of an open fire. They are generally composed of (non-exhaustive list):

- A combustion chamber,
- An on/off device,
- Chamber plates,
- A heat exchanger,
- An integrated wood pellet stock.

Connection conduits and boilers are not covered by the PSR and must be covered by a specific declaration.

#### **2.2.2.** Pellet stoves

Pellet stoves are independent or inserted devices, fueled by an automatic loading device. They can be composed of an integrated or external fuel hopper. They are generally composed of (non-exhaustive list):

- A combustion chamber,
- An on/off device,
- Chamber plates,
- A heat exchanger,

- An integrated wood pellet stock,
- A pellet supply motor
- An automatic electric ignition spark plug,
- A forced convection turbine,
- A combustive and extinction air turbine.

They might not be equipped with a forced convection turbine.

Connection conduits and boilers are not covered by the PSR and must be covered by a specific declaration.

Note: In the case of an external fuel hopper use, it must be included in the study scope, as well as the silo and its supply system.

#### **2.2.3.** Pellet cookers

Pellet cookers are specific devices incorporating a food cooking function thanks to a heating plate and/or an oven. They are fueled by an automatic loading device and can be composed of an integrated or external fuel hopper. They are generally composed of (non-exhaustive list):

- A combustion chamber,
- Heating plate and/or oven,
- Chamber plates,
- A heat exchanger,
- An integrated wood pellet stock,
- A pellet supply motor
- An automatic electric ignition spark plug,
- A forced convection turbine,
- A combustive and extinction air turbine.

They might not be equipped with a forced convection turbine.

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The food cocking function is not considered in this declaration and must be calculated by the declaration used, based on the product usage specific consumption.

Connection conduits and boilers are not covered by the PSR and must be covered by a specific declaration.

Note: In the case of an external fuel hopper use, it must be included in the study scope, as well as the silo and its supply system.

## 2.3. Other devices

Devices not included in the previous categories of this PSR, such as masonry heaters, battery-based autonomous or airtight stoves are not targeted by this PSR.

## **3.** Product life cycle assessment

## **3.1.** Functional unit and reference flow description

These specific rules are additional to section 2.1 "Functional unit and reference flow description" of the current PCR.

The functional unit associated with the independent wood heating devices is:

#### "To product a 1kW heating power considering the reference use scenario, for a X years reference life time."

The equipment reference life time (X years) must be defined in the functional unit description such as mentioned in table 1.

For each defined equipment categories, the studies must include the following reference flows:

- A defined independent wood heating device with a specific reference life time and matching, when possible, the characteristics listed in table 1<sup>2</sup>. Otherwise, the chosen product characteristics must be justified.
- Elements not included in the product, including wastes and scrap materials generated at each life cycle step (production, cutting, installation, etc.)
- Its packaging and also other packaging not included in the product and used during the reference life time,
- Necessary elements, flows and processes to distribute, install, use (maintenance, repairing, replacement, etc.), remove, dismantle and treat the reference product.

Equipment category		Reference product characteristics	Reference life time (X value)	
	Wood fireplaces	Nominal newer: 11 kW	Cast iron device: 29 years	
Indonondontwood		Nominal power. 11 kw	Steel device: 20 years	
hosting system	Wood stoves		Cast iron device: 29 years	
		Nominal power. 8 kw	Steel device: 20 years	
appliance	Wood cookers	Nominal power: 10 kW	Cast iron device: 29 years	
			Steel device: 20 years	
	Pellet fireplaces	Nominal power: 10 kW	15 years	
Indonondant pollot	reliet liteplaces	Nominal power: 2,5 kW	15 years	
hosting system	Pellet stoves	Nominal power: 8 kW	1E voars	
appliance		Nominal power: 2,5 kW	15 years	
appliance	Pellet cookers	Nominal power: 8 kW	1E voars	
		Nominal power: 2,5 kW	15 years	

Table 1 – Power and reference life time by equipment category

<sup>&</sup>lt;sup>2</sup> The definition of a reference product, defined by its power, enables the product comparison at an iso-functionality level by avoiding favoring high-power devices.

In the case of a mixed product using log wood and wood pellets, the product will be studied in its most disadvantageous configuration, ie the system operating with wood pellets.

## **3.2.** System boundaries

These specific rules are additional to section 2.2 « System boundaries of the current PCR », which describes all boundaries per stage of life cycle.

#### **3.2.1.** Manufacturing stage

The product category description as presented in paragraph « 2. Scope » does not aim at being exhaustive. All components provided with the product and enabling its proper working must be included in the study scope. The main components to take into account are the heating device, accessories and the packaging used for the product distribution.

#### **3.2.2.** Distribution stage

For this step, the PCR rules apply.

#### **3.2.3.** Installation stage

Conventionally, the independent wood heating system appliances installation implies:

• The device connection to connection conduits (fumes evacuation, air supply), the electric network connection, masonry work and/or fire surround to facilitate the esthetically pleasing integration within the housing.

Those parameters are not taken into account due to their variation. As a sectorial convention, the connection conduits are excluded from the study scope are subject to a specific declaration. In addition, all housing assembly modification and/or the addition of elements unexpected by the manufacturer are excluded from the study scope. Those operation real impacts have to be calculated by the declaration user if they wish, depending on the installation elements used during the construction phase.

• On the contrary, the packaging wastes treatment is included. Indeed, the product packaging wastes generated during the installation phase are supposed to be eliminated by the installer once the equipment is installed.

#### **3.2.4.** Use stage

The independent wood heating system appliances use phase implies, once the equipment is installed:

- For the independent wood log heating devices:
  - o Wood log consumption
  - Electrical energy consumption, related to the ventilation and to the timer/thermostat/regulator
  - Air emissions due to the wood log combustion
  - Ashes due to the wood log combustion

- o Maintenance operations
- For the independent wood pellet heating devices:
  - Wood pellet consumption
  - Electrical energy consumption, related to the ventilation and to the timer/thermostat/regulator
  - Air emissions due to the wood pellet combustion
  - Ashes due to the wood pellet combustion
  - Maintenance operations

#### **3.2.5.** End of life stage

For this step, the PCR rules apply.

## **3.3.** Cut-off criteria

For this step, the PCR rules apply.

## **3.4.** Rules for allocation between co-products

For this step, the PCR rules apply.

## **3.5.** Development of scenarios (default scenarios)

These specific rules are additional to section 2.5 « Development of scenarios (default scenarios) » of the current PCR.

#### **3.5.1.** Wastes from the manufacturing phase

These specific rules are additional to section 2.5.6 « End-of-life treatment scenarios » of the current PCR.

The manufacturing of wastes and their treatment are included in the manufacturing phase.

Manufacturers can eliminate manufacturing wastes themselves, or under their responsibility. The LCA report precise how the manufacturer, or any person working on his behalf, fulfill those steps by distinguishing hazardous from non-hazardous manufacturing wastes, and by providing proof of those allegations.

When they are known, treatment processes (energy valorization, landfill, and incineration without valorization) must be presented and justified in the LCA report, and the related environmental impacts must be taken into account. The treatment processes justification must be defined, in the LCA report, by explaining the treatment sector and the valorization ratio selected for each waste.

Without more precise and justified information, the following values must be used by default:

- Concerning cast iron pieces: Loss rate: 5% Waste treatment: 95% recycled wastes and 5% landfill
- Concerning steel pieces: Loss rate: 20%
   Waste treatment: 95% recycled wastes and 5% landfill
- Concerning other pieces: Loss rate: 30%
   Waste treatment: 50% incinerated without energy recovery and 50% landfill
- The waste collection transport from the manufacturing site to the last treatment site is accounted with a 100km by truck transport hypothesis.

#### **3.5.2.** Wastes from the installation phase

These specific rules are additional to section 2.5.6 « End-of-life treatment scenarios » of the current PCR.

The product packaging wastes are eliminated, in principle, by the installer once the equipment is installed.

Their treatment is calculated	by default as follow:
-------------------------------	-----------------------

	Recycled part of the packaging	Incineration with energy recovery part of the packaging	Incineration without energy recovery part of the packaging	Landfilled part of the packaging
Paper and cardboard	84.60%	8.30%	3.55%	3.55%
Wood	36.00%	29.90%	17.05%	17.05%
Plastic	37.30%	31.50%	15.60%	15.60%
Metal	74.30%	0.40%	12.65%	12.65%

Table 2 – Installation wastes default treatment

As a sectorial convention, the waste collection transport from the use place until the last treatment site is accounted with a 100km truck transport.

#### **3.5.3.** Use scenario

These specific rules are additional to section 2.5.4 "Reference product use scenario" of the current PCR.

#### 3.5.3.1. <u>Reference use scenario</u>

As a sectorial convention, the reference use scenarios to apply are as follows:

Equipment category	Reference use scenario <sup>3</sup>			
	On mode T = 1000 h per year at nominal power			
Independent wood	Corresponding to about 5h28 per day during the 6-month annual heating period.			
log heating system				
appliances	<u>Stand-by mode:</u> 7760 h per year			
	The rest of the time, the product remains plugged to the electric network.			
	On mode T = 2000 h per year at nominal power, 20% at nominal power and 80% at minimal power			
	Corresponding to about 10h57 per day during the 6-month annual heating period.			
Independent wood pellet heating	<u>Stand-by mode:</u> 2380 h per year The rest of the time, during the 6-month heating period, the device remains in stand-by			
system appliances	mode.			
	<u>Off mode:</u> 4380 h per year The other 6 month, outside of the heating period, the device is unplugged.			

Where:

T = Amount of annual device working hour in on mode

#### Table 3 – Reference use scenario

#### 3.5.3.2. Energy consumption

The following formula enables the final energy consumption necessary for an independent wood heating system appliance during its reference life time:

C(kWh) = Celec + Cwood

#### Where:

C = Heating system final consumption, expressed in kWh, over the reference life time

C<sub>elec</sub> = Heating system electric consumption, expressed in kWh, over the reference life time.

 $C_{wood}$  = Heating system wood (wood log or wood pellet) consumption, expressed in kWh, over the reference life time

#### Electric consumption for the wood log devices:

Concerning the wood log system appliances without ventilation:

Celec(kWh) = [Pelec standby \* (8760 - T)] \* RLT

<sup>&</sup>lt;sup>3</sup> Source: Expert team based scenarios (see Appendix 5.3)

Concerning the wood log system appliances with a ventilation, the following formula is used:

$$Celec(kWh) = [(Pelec ventilation) * T + Pelec standby * (8760 - T)] * RLT$$

#### Where:

P<sub>elec ventilation</sub> = Electric power absorbed by the ventilation, expressed in kW

P<sub>elec standby</sub> = Electric power absorbed by the device in standby mode, expressed in kW

T = Total annual amount of hours on functioning mode (T = 1000 h)

RLT = Device reference life time, expressed in years

#### Electric consumption for wood pellet devices:

Celec(kWh) = [(0.2 \* Pelec max + 0.8 \* Pelec min) \* T + Pelec standby \* (4380 - T)] \* RLT

#### Where:

 $P_{elec max}$  = Electric power absorbed by the device at the nominal thermal power, expressed in kW  $P_{elec min}$  = Electric power absorbed by the device at the minimal thermal power, expressed in kW  $P_{elec standby}$  = Electric power absorbed by the device in standby mode, expressed in kW

T = Total annual amount of hours on functioning mode (T = 2000 h)

RLT = Device reference life time, expressed in years

#### Wood consumption for wood log or wood pellet heating devices:

$$Cwood (kWh) = \frac{Pref}{\eta} * T * DVR$$

$$Cwood (kg) = Cwood (kWh) * \frac{1}{LHV} = \frac{Pref}{\eta} * T * RLT * \frac{1}{LHV}$$

Where:

Pref = Heating system power, expressed in kW

For wood log system appliances: Pref = Nominal power

For wood pellet system appliances: Pref = 0.2\*nominal power + 0.8\*minimal power

η = Heating device seasonal energy efficiency, corresponding to the wood consumption, calculated according to the European ecodesign regulation n°2015/1185, expressed in %

T = Total annual amount of hours on functioning mode

For wood log devices: T = 1000 h

For wood pellet devices: T = 2000 h

- RLT = Device reference life time, expressed in years
- LHV = Wood lower heating value, expressed in kWh/kg

As a sectorial convention, the LHV are defined as:

LHV wood log = 3.76 kWh/kg (or 13.53 MJ/kg, humidity 25.64%)<sup>4</sup>

<sup>&</sup>lt;sup>4</sup> Source: Ecolnvent (see Appendix 5.3)

LHV wood pellet = 4.9 kWh/kg (or 17.64 MJ/kg, humidity 9.10%)<sup>5</sup>

The heating device seasonal energy efficiency<sup>6</sup>  $\eta$  takes into account the energy performance modes and is calculated as follow:

η = η<sub>th, nom</sub> - 10% + F(2) + F(3)

Where:

 $\eta_{\text{th, nom}}$  = Useful efficiency at nominal heat output

F(2) = Correction factor, expressed in %, accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls of indoor heating comfort, the values of which are mutually exclusive, cannot be added to each other,

F(3) = correction factor, expressed in % accounting for a positive contribution to the seasonal space heating energy efficiency due to adjusted contributions of controls for indoor heating comfort the values of which can be added to each other.

The correction factor F(2) takes one of the values in the following table, depending on which control characteristic applies. Only one value can be selected.

If the product is equipped with (only one option may apply):		
Single stage heat output, no room temperature control		
Two or more manual stages, no temperature control	1.0%	
With mechanic thermostat room temperature control		
With electronic room temperature control	4.0%	
With electronic room temperature control plus day timer		
With electronic room temperature control plus week timer		

#### Table 4 – Calculation of the correction factor F(2)

The correction factor F(3) is the sum of the values in the following table, depending on which control characteristic(s) applies.

If the product is equipped with (multiple options may apply):	
Room temperature control with presence detection	1.0%
Room temperature control with open window detection	
With distance control option	

Table 5 – Calculation of the correction factor F(3)

#### 3.5.3.3. <u>Wood production accounting</u>

In order to enable a fair comparison between the different environmental declarations created based on this PSR, the inventory data to be used to assess the wood log and pellet have been determined.

The life cycle inventories provided in the EcoInvent database<sup>7</sup> (version 3.3 2016) and available in the Appendix 5.5 must be used.

<sup>&</sup>lt;sup>5</sup> Source: Ecolnvent and ADEME (see Appendix 5.3)

<sup>&</sup>lt;sup>6</sup> Source: Ecodesign directive (see Appendix 5.3)

<sup>&</sup>lt;sup>7</sup> Source: Ecolnvent (see Appendix 5.3)

To be noted for the "wood log" data:

- The inventory is representative of a wood log production on the European market.
- The distribution transport between the production site and the final client is already included in the inventory data (considered as a transport distance of 10km by truck, which is representative of a local market<sup>8</sup>). The wood log provision is generally provided with a local supply: self-consumption, provision from a producer or a reseller.
- The wood is considered to be extracted from a sustainable forestry management. On the wood life cycle including its consumption, the treatment of biogenic carbon is considered as neutral. The biogenic carbon sequestration must not be taken into account.
- The inventory is provided for 1kg of dry wood log with a 25.64% humidity ratio (wet mass = 1.34478kg, water content = 0.34478kg)
- The wood LHV is 3.76 kWh/kg (or 13.53 MJ/kg) with a 25.64% humidity ratio.

To be noted for the "wood pellet" data:

- The inventory is representative of a wood pellet production on the European market.
- The wood pellet are produced in factories using wood sawmill residue and wood chip as primary material.
- The distribution transport between the production site and the final client is not included in the inventory data. This supply transport must be considered with a 100km transport by truck (Module ELCD – Articulated lorry transport; Euro 0, 1, 2, 3, 4 mix; 40 t total weight, 27 t max payload; RER)<sup>9</sup>.
- The wood is considered to be extracted from a sustainable forestry management. On the wood life cycle including its consumption, the treatment of biogenic carbon is considered as neutral. The biogenic carbon sequestration must not be taken into account.
- The inventory is provided for 1kg of dry wood pellet with a 9.10% humidity ratio (wet mass = 1.1kg, water content = 0.1kg)
- The wood LHV is 4.9 kWh/kg (or 17.64 MJ/kg) with a 9.10% humidity ratio.

#### 3.5.3.4. <u>Air emissions accounting</u>

The use of independent wood heating system appliances implies air emissions during the wood combustion.

Depending on the geographical representativity targeted by the declaration, the air emissions must be assessed, and their calculation methods must be compliant with the applicable regulatory requirements. The air emission to assess, at the minimum are: the carbon monoxide (CO), nitrogen oxides (NOx), volatile organic compounds (VOC) and particulate matter (PM/PME). The use of European standard EN 16510-1 with a 13% oxygen rate at the nominal power is recommended.

<sup>&</sup>lt;sup>8</sup> Source: ADEME Practical Guide « Se chauffeur au bois » 2016

<sup>&</sup>lt;sup>9</sup> Source: ADEME Practical Guide « Se chauffeur au bois » Sept 2012 presenting the wood pellets market inFrance.

To be noted:

• The wood is considered to be extracted from a sustainable forestry management. On the wood life cycle including its consumption, the treatment of biogenic carbon is considered as neutral. The biogenic carbon emissions must not be taken into account.

#### 3.5.3.5. <u>Wastes from the use phase</u>

The use of independent wood heating system appliances implies the production of ashes.

The ashes coming from the combustion in the heating device are used for private garden soil-enrichment. This hypothesis reflects the actual private individual using wood heating practices.

Concerning the ashes spreading in private garden, the ash metal content leaching behavior has been considered as follow<sup>10</sup>:

	Heavy metal content per kg of spread ash (mg/kg)			
	Wood Ic	og ashes	Wood pellet ashes	
	Soil emissions	Soil emissions Water emissions		Water emissions
Cadmium	0.09	0.002	0.77	0.002
Chromium	14.40	1.40	14.40	1.40
Cobalt	2.23	/	12.30	/
Copper	140.87	0.13	140.87	0.13
iron	4455.00	/	5030.00	/
Manganese	1213.00	/	4236.00	/
Mercury	/	0.005	/	0.005
Nickel	18.99	0.006	8.67	0.006
Lead	1.79	0.01	200.54	0.47
Zinc	91.80	0.02	223.00	0.14

Table 6 – Secondary data concerning the accounting of ashes spreading

#### **3.5.4.** Maintenance scenario

These specific rules are additional to section 2.5.5 "Maintenance scenario" of the current PCR.

The independent wood heating system appliances maintenance is performed by a qualified professional intervention, in charge of cleaning the device and/or replacing wearing parts.

Note: the connection conduits being subjected to a specific declaration, their sweeping occurring twice a year are excluded from the study scope.

If, in the scope of the manufacturer specification, some components must be replaced during the product reference life time, the impacts related to their production, distribution, installation, end of life must be

<sup>&</sup>lt;sup>10</sup> Source: ADEME (see Appendix 5.3)

taken into consideration. The replacement of components subject to a malfunction is not taken into consideration.

Equipment category	Intervention nature on the RLT	Frequency on the RLT	
	Intervention of a qualified	1 per year	
	professional		
Independent wood log	Seals replacement	1 every 2 years	
heating system appliance	Inner lining replacement (refractory material)	1 every 7 years	
	Ventilation	1 every 5 years	
	Intervention of a qualified	1 per year	
	professional		
	Seals replacement	1 every 2 years	
Independent wood pellet	Spark plug replacement	Steel spark plug: 1 every 3 years	
heating system appliance	Spark plug replacement	Ceramic spark plug: 1 every 8 years	
	Gear motor	1 every 5 years	
	Extractor	1 every 15 years	
	Fan	1 every 5 years	

When no information is available, the default maintenance operations to consider are:

Table 7 – Maintenance scenario

In case no precise and justified information is available, the end of life treatment of replaced parts is assessed based on paragraph 3.5.5 Wastes from the end of life phase.

As per sectorial convention, the annual maintenance transport step must be taken into account considering a 100 km two-way trip in van.

If a new product on the market requires maintenance or consumables not taken into account in this document, those elements must be included in the study.

#### **3.5.5.** Wastes from the end of life phase

These specific rules are additional to section 2.5.6 "End-of-life treatment scenarios" of the current PCR.

After presenting the local requirements in temps of independent wood heating system appliances end of life management, the LCA report must present the end of life treatment and/or valorization sector organization, their associated environmental impacts and how the manufacturer complies with the requirements if relevant.

In case no precise and justified information is available, the following scenarios must be used:

• Within the European Union, the independent wood log heating devices are not targeted by the WEEE directive (Waste Electrical and Electronic Equipment). The independent wood pellet heating devices are included in the WEEE category (Waste Electrical and Electronic Equipment) and must comply with the specific regulation.

• Valorization and treatment by default<sup>11</sup>:

	Part recycled during end of life	Part incinerated with energy recovery during end of life	Part incinerated without energy recovery during end of life	Part landfilled during end of life
Cast iron parts	95%	0%	0%	5%
Steel parts	95%	0%	0%	5%
Glass parts	95%	0%	0%	5%
WEEE parts	83.21%	8.59%	4.01%	4.01%
Other parts	0%	0%	0%	100%

#### Table 8 – Default end of life wastes treatment

• The product end of life collection transport from the use site to the last treatment site is taken into account considering a 100km truck transport.

# **3.6.** Rule(s) for extrapolation to a homogeneous environmental family

These specific rules are additional to section 2.6 "Rule(s) for extrapolation to a homogeneous environmental family" of the current PCR.

The PEP can cover other products than the reference product. The extrapolation rules enabling the homogeneous family environmental data estimation must be justified based on the environmental impacts evaluation of a representative sample within the product range. They must be documented in the LCA report.

The extrapolation rules are being defined and will be added to the document once validated.

## **3.7.** Rules applying to joint environmental declarations

These specific rules are additional to section 2.7 "Rules applying to joint environmental declarations" of the current PCR.

Concerning joint environmental declarations, the study must be based on a "typical product", compliant to rules defined in paragraph 3.1 "Functional unit and reference flow description" of this PSR.

<sup>&</sup>lt;sup>11</sup> Source: Expert team based scenarios and Eurostats data (see Appendix 5.3)

## **3.8.** Data collection requirements

These specific rules are additional to sections 2.9 "Primary data collection requirements" and 2.10 "Secondary data requirements" of the current PCR.

As much as possible, for each independent wood heating system appliances element, the primary data (meaning the set of data related to the reference product manufacturing phase, specific to an organization) must be favored and justified in the LCA report, distinguishing two aspects:

- 1) The real or standard primary data in case of a single supplier,
- 2) In case of supply from multiple suppliers, the real or standard primary data considered are those coming from the most significant suppliers, accounting for at least 50% of the supply volume (based on the total bought quantity). For example, considering 10 suppliers, each supplying 10% of the volume, it is required to take into account at least 5 suppliers in order to ensure an exhaustive primary information vision. Any other repartition rule must be mentioned in the LCA report and the PEP.

In the case where those primary data would be shared with other products than those targeted by this PSR, the impacts calculation is made based on the manufactured devices mass ratio.

This information is not always available to manufacturers. When no primary data is available, standard secondary data, meaning from the used LCA software database, must be used.

The LCA practitioner must select the most relevant inventory data, mainly concerning the steel and cast iron productions depending on its composition and its recycled content.

## **3.9.** Data quality evaluation

These specific rules are additional to section 2.11 "Data quality evaluation" of the current PCR.

## **3.10.** Environmental impact calculation

In order to ensure environmental impacts consistency between the functional unit and the reference product, the PEP must display the manufacturing, distribution, installation, use and end of life environmental impacts the following way:

PEP declaration environmental impacts = Reference product environmental impacts Reference product power (kW)

## 4. Drawing up the Product Environmental Profile

## **4.1.** General information

These specific rules are additional to section 3.2 "General information" of the current PCR.

The PEP declaration must include:

- The product category in compliance with paragraph 2.2
  - For all product categories, the following precision must be added: "*The evaluation has been performed not taking into account the flue pipes and the junction to the building*".
  - For the cookers, the following sentence must be added: "The food cooking function is not considered in this declaration and must be calculated by the declaration used, based on the product usage specific consumption".
- The device nominal power (and minimal is required), in compliance with table 1 paragraph 3.1.
- The following characteristics (if applicable):
  - o Inertia device or not,
  - Convection or radiation device,
  - Airtight device or not.
- The reference use scenario considered in the use phase as per paragraph 3.5.3.1.
- The use phase air emissions levels (at a minimum: carbon monoxide (CO), nitrous oxides (NOx), volatile organic compounds (VOC) and particulate matter (PM/PME), as per paragraph 3.5.3.4.
- The energy model used for the wood fuel assessment must be indicated the following way:
  - Wood log energy model: "Ecoinvent version 3.3 (2016) Wood log, Europe without Switzerland"
  - Wood pellet energy model: "Ecoinvent version 3.3 (2016) Wood pellet, Europe"
- The following sentence must be indicated in the paragraph presenting the environmental indicator results: "The environmental results do not take into account the connection conduits and work. Those must be considered separately, relatively to the equipment power".

## **4.2.** Constituent materials

These specific rules are additional to section 4.2 "Constituent materials" of the current PCR.

## **4.3.** Additional environmental information

These specific rules are additional to section 4.3 "Additional environmental information" of the current PCR.

Within the scope of life cycle assessment provision at a building level, the environmental impacts must be considered at the product scale. In addition, the impacts related to the energy consumption must be taken into account separately.

In that regard, to facilitate the use of the PEP declaration for building LCA, the PEP document can include as additional environmental information:

• The reference product environmental impact table expressed at the product level (or declared unit). The values must be described in numerical values, expressed with the appropriate unit, with three significant digits (and, in option, in percentage) for each life cycle step, and the total for each indicator of the complete life cycle assessment.

The following precisions must be indicated in the PEP declaration in order to ensure clarity and transparency for the user:

- Concerning the environmental impacts expressed per functional unit, the following mention must be displayed: "per kWh related to the functional unit"
- Concerning the environmental impacts expressed per declared unit, the following mention must be display: "per equipment related to the reference product"
- The use phase environmental impact results broke up according to the modules B from the EN 15978 standard. This decomposition does not substitute the total impacts of the use phase.

PEP ecopassport <sup>®</sup>	Reference in the PSR	EN 15978		
	3.5.3.5	B1	Use	
	3.5.4	B2	Maintenance	
		B3	Repair	
Use phase		B4	Replacement	
		B5	Refurbishment	
	3.5.3.2 ; 3.5.3.3 ; 3.5.3.4	B6	Operational energy use	
		B7	Operational water use	

Table 9 – Illustration of the PEP ecopassport® use phase break down into B modules in compliance withthe EN 15978 :2011

## **4.4.** Environmental impacts

These specific rules are additional to section 4.4 "Environmental impacts" of the current PCR.

The environmental impacts table represents the functional unit environmental impact, meaning the production of 1kW heating.

The installed product total impact must be calculated by the PEP user depending on the equipment power by multiplying the considered impact by the power associated with the study reference flow, meaning by the total kW amount of the device.

The following precision must be completed and presented in the declaration, in order to ensure the clarity and transparency to the user:

The presented declaration has been elaborated taking into account the production of a 1kW heating power. The real life cycle phases impact must be calculated by the declaration user, based on the real consumption when using the product, by multiplying the considered impact by the device total heating power, in kW.

#### In case of extrapolation rules use, the following precision must be added:

The extrapolation coefficients are given for the functional unit environmental impact, meaning the emission of a 1kW heating power. For each life cycle phase, the considered product environmental impacts are calculated by multiplying the declaration impacts corresponding to the reference product to the extrapolation coefficient. The column "Total" must be calculated by adding each life cycle phase environmental impacts.

## 5. Appendices

## **5.1.** PSR redaction participating members

Μ	AUDIGANE	SER
Μ	BALAY	LORFLAM
Mme	BRIERE	UNICLIMA
Μ	DENANCE	INOVALP
Μ	GUATTI	MCZ GROUP
Μ	IMBS	SUPRA
Μ	LABBE	LORFLAM
Mme	LAPLAGNE	UNICLIMA
Μ	MICONI	PALAZZETTI
Μ	MONTICCIOLO	ADI - FOCUS CREATION
Μ	MORGANDO	SUPRA
Mme	ORGELET	Bureau Veritas CODDE
Μ	POSTEL	INVICTA
Μ	PRUNEL	Bureau Veritas CODDE
Μ	TRENTIN	PALAZZETTI
Μ	VALLET	MCZ GROUP

## **5.2.** Terms and definitions

LCA	Life Cycle Assessment
WEEE	Waste Electrical and Electronic Equipment
Primary data	Real data measured at the manufacturer or supplier site
Secondary data	Generic data from databases of based on sectorial convention
RLT	Reference life time
kg	Kilogram
kWh	Kilo Watt hour
LHV	Lower heating value
PEP	Product environmental profile
Wh	Watt hour

## 5.3. References

Chapter	Subject	Source		
	Limitation of dovices to a	EN 16510-1 :2016 - Residential solid fuel burning		
2. Scope	50kW nominal nower	appliances - Part 1: General requirements and test		
		methods		
	Definition of the product	EN 16510-1 :2016 - Residential solid fuel burning		
2. Scope	categories	appliances - Part 1: General requirements and test		
	categories	methods		
3.1. Functional unit and	Choice of the functional	The functional unit has been determined based on the		
reference flow	unit	PEP ecopassport <sup>®</sup> program general rules, and in relation		
description	unit	to the already published PSR.		
3.1. Functional unit and	Reference nowers and life	Values determined by the SER syndicate and all its		
reference flow	times	members by evaluating the market state in 2016		
description	times	members by evaluating the market state in 2010.		
3.5. Development of	Air emissions measure	EN 16510-1 :2016 - Residential solid fuel burning		
scenarios (default	definition	appliances - Part 1: General requirements and test		
scenarios)	deminion	methods		
		5% losses ratio for cast iron parts:		
		Value determined by the SER syndicate members based		
		on a maximizing approach of industrial processes used		
		by the profession.		
3.5.1 Wastes from the	Losses ratio default values	20% losses ratio for steel parts:		
manufacturing phase		Value determined by the SER syndicate members based		
manufacturing phase		on a maximizing approach of industrial processes used		
		by the profession.		
		30% losses ratio for other parts:		
		PSR-0008-ed1.1-Fr-2015 05 26		
		PSR-0004-ed2.1-FR-2015 05 26		
		Extracted from the Eurostats' EUROBASE DATA		
		EXPLORER database, Packaging waste, EU-27, reference		
3.5.2. Wastes from the	Packaging wastes	year 2013		
installation phase	treatment	( <u>http://ec.europa.eu/eurostat/data/database</u> ).		
		Hypothesis: the non-valorized packaging part is shared		
		between incineration without energy recovery (50%)		
		and landfill (50%).		
		Among the "Independent wood heating" profession, no		
		standard nor reference document exists that provides		
3.5.3.1. Reference use	Reference use scenario	reference use scenarios.		
scenario	definition	rife reference scenarios have been determined		
		collectively by all members of the SER syndicate		
	Devices oners:	participating to the PSK redaction (see paragraph 5.1)		
	Devices energy	Regulation (EU) 2015/1185 from the Commission on		
5.5.3.2. Energy		April, 24 <sup>th</sup> 2015		
consumption	Seasonal energy efficiency	Regulation (EU) 2015/1185 from the Commission on		
	αετιπίτιοη η	April, 24'' 2015		

		Ecoinvent database (Version 3.3 2016)		
	Wood log LHV and	"market for cleft timber, measured as dry mass, Europe		
	humidity ratio	without Switzerland, (Author: Emilia Moreno Ruiz		
		inactive)"		
		Humidity ratio defined based on the ecoinvent database		
		(Version 3.3 2016) "wood pellet production, RER,		
	Wood pellet LHV and	(Author: Christian Bauer active)" ;		
	humidity ratio	LHV completed with the ADEME study « Bilan		
		environnemental du chauffage domestique au bois » –		
		December 2005		
		Ecoinvent database (Version 3.3 2016)		
		"market for cleft timber, measured as dry mass, Europe		
		without Switzerland, (Author: Emilia Moreno Ruiz		
3.5.3.3. Wood production	Wood log or pellet	inactive)"		
accounting	production assessment	&		
		"wood pellet production, RER, (Author: Christian Bauer		
		active)"		
		Ash management scenario determined by the SER		
	Ashes management	syndicate and its members		
3.5.3.5. Wastes from the	Soil and water emissions			
use phase	extracted from the soil-	« Bilan environnemental du chauffage domestique au		
	enrichment	bols » ADEIVIE – December 2005		
3.5.4. Maintenance	Wearing parts renewal	Maintenance scenario determined by the SER syndicate		
scenario	frequency	and its members based on manufacturers data		
		The devices reaching end of life are brought to the		
		WEEE sector or to scrap metal merchants by the		
	Cast iron steel and glass	installers. The cast iron, steel and glass valorization		
	part rocyclability rates	sectors being mature enough, a material valorization		
	part recyclability rates	can be expected. However, a "100% recycling" rate is		
		utopian. A 95% recycling rate and a 5% landfill rate is		
		more realistic and educational.		
2 5 5 Wastos from the		Extracted from the Eurostats' EUROBASE DATA		
ond of life phase		EXPLORER database, WEEE, Large household appliances,		
end of me phase		Europe, reference year 2013		
	WEEE parts recyclability	(http://ec.europa.eu/eurostat/web/waste/key-waste-		
	rate	streams/weee).		
		Hypothesis: the non-valorized WEEE part is shared		
		between incineration without energy recovery (50%)		
		and landfill (50%).		
	Other parts recyclability	The landfill is considered as the most penalizing		
	rate	scenario.		

## 5.5. Inventory data

The inventory data used to assess the production of 1kg of wood log are those available in the EcoInvent database version 3.3 (2016): Name: market for cleft timber, measured as dry mass Reference product: cleft timber, measured as dry mass [kg] Location: Europe without Switzerland Period: 01.01.2014 – 31.12.2016

Table 10 provides the life cycle inventory detail. It has been adapted from a 1kg dry wood log to a 1kg wet wood log with a humidity ratio of 25.64%

The inventory data used to assess the production of 1kg of wood pellet are those available in the EcoInvent database version 3.3 (2016): Name: wood pellet production Reference product: wood pellet, measured as dry mass [kg] Location: RER Period: 01.01.2011 – 31.12.2016

Table 10 provides the life cycle inventory detail. It has been adapted from a 1kg dry wood pellet to a 1kg wet wood pellet with a humidity ratio of 9.10%

## Table 10 – 1kg 25.64% humidity ratio wood log production and 1kg 9.10% humidity ratio wood pelletproduction life cycle inventories

Compar tment	Name	Subcompartment	Unit	Wood log	Wood pellet
Air	Propene	urban air close to ground	kg	7.74126E-08	4.16528E-08
Air	Methane, dichloro-, HCC-30	urban air close to ground	kg	7.78489E-12	1.02439E-11
Air	Methanol	urban air close to ground	kg	4.45077E-09	2.82364E-08
Air	Ethanol	urban air close to ground	kg	3.27508E-09	2.25173E-08
Air	Carbon dioxide, fossil	urban air close to ground	kg	0.008471475	0.011082344
Air	Ammonia	urban air close to ground	kg	1.53519E-07	1.61538E-06
Air	Chlorine	urban air close to ground	kg	2.83536E-08	8.62367E-08
Air	Sulfur trioxide	urban air close to ground	kg	1.87283E-10	8.9088E-11
Air	Toluene	urban air close to ground	kg	2.3698E-07	1.6727E-07
Air	Methane, fossil	urban air close to ground	kg	3.45007E-06	3.78992E-05
Air	Chloroacetic acid	urban air close to ground	kg	5.81641E-11	4.91024E-10
Air	Hydrogen	urban air close to ground	kg	6.06593E-08	1.72346E-07

Air	Hydrogon chlorido	urban air close to	ka		
All	Tyurogen chionae	ground	۸g	4.58308E-07	6.27087E-07
Air	Water	unspecified	m3	0.000146604	0.000897666
Δir	Hydrogen sulfide	urban air close to	kσ		
	i i valogen sunde	ground	~5	2.31944E-09	5.1848E-09
Air	Chlorosulfonic acid	urban air close to	kg	2 444565 42	4 50005 40
		ground	_	3.11156E-12	1.5632E-12
Air	Sulfur dioxide	ground	kg	3 88518F-05	5 02312E-05
		urban air close to		5.005102 05	5.025121 05
Air	Dimethyl malonate	ground	kg	3.1955E-12	1.60537E-12
٨:٣	Dronanal	urban air close to	ka		
All	Propanol	ground	кg	2.53824E-11	2.32313E-11
Air	Benzene, dichloro	urban air close to	kg		
		ground		1.09767E-11	9.15126E-12
Air	Nitrogen oxides	urban air close to	kg	1 102755 05	C 100225 OF
		ground		1.103/5E-05	6.18823E-05
Air	Methanesulfonic acid	ground	kg	2.57507F-12	1.29367F-12
		urban air close to			1.100071111
Air	Acetic acid	ground	kg	8.75633E-09	4.9902E-08
٨٠٠	Mothylomine	urban air close to	ka		
Alf	Methylamine	ground	кg	3.30601E-12	1.62922E-12
Air	t-Butylamine	urban air close to	kg		
		ground	0	2.65874E-12	2.60353E-12
Air	Cyanoacetic acid	urban air close to	kg	2 549245 12	1 200105 12
		ground urban air close to		2.34824E-12	1.28019E-12
Air	Lactic acid	ground	kg	3 68252F-12	1 72741F-12
		urban air close to		5.002522 12	1., 2, 112 12
Air	Ethyl acetate	ground	kg	3.62613E-08	1.24553E-08
Air	Toluono 2 chloro	urban air close to	ka		
All		ground	۸g	9.10388E-12	6.11816E-12
Air	Dipropylamine	urban air close to	kg		
	F - F /	ground	0	4.70101E-12	2.20516E-12
Air	Carbon monoxide, fossil	urban air close to	kg	1 226295 05	2 776EE 0E
		urban air close to		1.22026E-05	2.7705E-05
Air	Aniline	ground	kg	1.75832E-11	8.69227E-12
		urban air close to			
Air	Acetaldenyde	ground	кg	2.04588E-09	3.0021E-08
Δir	Diethylamine	urban air close to	kσ		
7.0	Dictrylamine	ground	10	8.15473E-12	4.61962E-12
Air	Propanal	urban air close to	kg	4 004045 44	4 00 45 44
		ground	_	1.99124E-11	1.934E-11
Air	Methyl lactate	ground	kg	4 04276F-12	1 89638F-12
		urban air close to		4.042702 12	1.050502 12
Air	Ethane, 1,1-difluoro-, HFC-152a	ground	kg	2.34832E-10	1.95335E-10
۸ir	Phonol	urban air close to	ka		
All	Pilenoi	ground	кg	5.17011E-10	9.13638E-09
Air	2-Methyl-2-butene	urban air close to	kg		
		ground	0	2.32055E-15	7.90985E-15
Air	3-Methyl-1-butanol	urban air close to	kg		
		urhan air close to			
Air	2-Propanol	ground	kg	7.8128E-09	2.93883E-09
A.		urban air close to	1.		
Air	2-Methyl pentane	ground	кg	1.29666E-11	5.11316E-10
Δir	Δcetone	urban air close to	ka		
	Accione	ground	<u>~б</u>	1.10392E-08	1.42744E-08

Air	4-Methyl-2-pentanone	urban air close to	kø		
		ground	10		
Air	Butene	urban air close to	kg	2 444025 00	4 052045 00
		ground	-	3.44103E-08	1.05381E-08
Air	Hydrocarbons, aliphatic, alkanes, unspecified	urban air ciose to	kg	2 85745F-07	4 90787F-07
		urban air close to		2.037452.07	4.507072 07
Air	Particulates, < 2.5 um	ground	kg	2.50621E-06	2.24525E-05
A	Destindates > 2.5 years and +10 years	urban air close to	1		
Air	Particulates, > 2.5 um, and < 10um	ground	кg	5.43101E-07	2.22496E-06
Δir	Particulates > 10 um	urban air close to	kσ		
		ground	10	1.02319E-06	2.77247E-06
Air	Formaldehyde	urban air close to	kg	7 007005 00	7 070005 00
		ground		7.90723E-09	7.87262E-08
Air	Chloramine	ground	kg	6 31088F-12	1 08927F-11
		urban air close to		0.510001 12	1.005272 11
Air	Ethene	ground	kg	1.07419E-07	7.07812E-08
Air	Propionic acid	urban air close to	ka		
All		ground	кg	3.86512E-11	8.71332E-11
Air	2-Aminopropanol	urban air close to	kg		
		ground		8.95435E-13	1.31129E-12
Air	Propylene oxide	urban air close to	kg	1 422025 00	6 744525 00
		ground	1.	1.42303E-09	6.74452E-09
Air	Methane, fossil	unspecified	кg	2.06503E-06	1.02616E-05
Air	Acetic acid	unspecified	kg	9.41905E-09	1.18633E-08
Air	Hydrogen	unspecified	kg	1.70629E-09	2.28313E-09
Air	Methanol	unspecified	kg	4 75125F-09	6 06963F-09
Air	Carbon monoxide fossil	unspecified	kø	7 021245 05	6 227425 05
7 til A 1		unspecifical	1.0	7.93124E-05	0.23742E-05
Air	Carbon dioxide, fossii	unspecified	кg	0.011616658	0.010911002
Air	Arsenic	urban air close to	kg	7 25655 10	2 907215 00
		urban air close to		7.3303E-10	2.097212-09
Air	Dinitrogen monoxide	ground	kg	2.94156E-07	1.96783E-06
	<b>a</b> .	urban air close to	1.		1.00700100
Air	Styrene	ground	kg	1.58794E-10	6.17478E-10
Air	Carbon dioxide, non-fossil	urban air close to	kα		
All		ground	۳g	0.000818012	0.032859293
Air	Mercury	urban air close to	kg		
	,	ground		1.24697E-10	1.81051E-10
Air	Sulfate	urban air close to	kg	1 029475 07	2 51005 07
		urban air close to		1.020471-07	5.51002-07
Air	Hydrocarbons, aromatic	ground	kg	5.10637E-08	1.02415E-07
A :		urban air close to	l.e.		
Alf	Hydrocarbons, chlorinated	ground	кg	5.75916E-10	8.58426E-10
Air	Zinc	urban air close to	kø		
/	2	ground	110	5.0064E-09	9.37586E-08
Air	Benzene	urban air close to	kg	4 707565 07	2 546045 07
		ground		1.70756E-07	3.51604E-07
Air	Lead	ground	kg	3.26618F-09	1.11364F-08
		urban air close to		5.200102 05	1.110012.00
Air	Silver	ground	kg	1.74198E-12	1.30698E-12
Air	Ethono, chloro	urban air close to	ka		
All		ground	٨g	1.87727E-10	7.44785E-10
Air	Fluorine	urban air close to	kø		
		ground		3.10524E-10	1.51178E-08

Δir	Ethane 1.2-dichloro-	urban air close to	kσ		
		ground	~5	4.67013E-10	1.35081E-09
Air	Cyanide	urban air close to	kg	7 220175 40	2 20075 00
		ground		7.23017E-10	2.3097E-09
Air	Nickel	ground	kg	1 17982F-08	1 97633F-08
		urban air close to		1.175022 00	1.570552.00
Air	Benzene, ethyl-	ground	kg	4.33084E-08	2.2974E-08
٨:٣	Mathana, non faccil	urban air close to	ka		
All		ground	кg	2.2336E-07	1.02616E-06
Air	NMVOC, non-methane volatile organic	urban air close to	kg		
	compounds, unspecified origin	ground	8	8.11513E-06	1.58275E-05
Air	Carbon disulfide	urban air close to	kg	2 59/5E 12	9 12761E 12
		urban air close to		2.30431-12	8.13701L-12
Air	Carbon monoxide, non-fossil	ground	kg	1.05891E-06	5.73932E-05
A	Alde builde en un en el Card	urban air close to			
Air	Aldenydes, unspecified	ground	кg	1.38315E-10	2.35987E-10
Δir	Xvlene	urban air close to	kσ		
,	Хуспе	ground	10	1.86101E-07	6.43106E-08
Air	Antimony	urban air close to	kg	2 42025 44	2 4 2 2 2 2 5 2 2
		ground		3.4302E-11	3.12209E-09
Air	Hydrogen fluoride	urban air ciose to	kg	1 99921F-08	3 //8073F-08
		urban air close to		1.555212 00	5.40075L 00
Air	Hydrocarbons, aliphatic, alkanes, cyclic	ground	kg	1.73931E-08	6.7894E-09
٨٠٠	Codmium	urban air close to	ka		
Air	Cadmium	ground	кg	1.02951E-09	1.30543E-09
Air	Selenium	urban air close to	kσ		
		ground	110	5.42949E-10	5.22399E-10
Air	Chromium	urban air close to	kg	0 422005 10	2 200075 00
		ground urban air close to		8.43289E-10	2.30007E-09
Air	Copper	ground	kg	2 96292F-09	1 01224F-08
Δir	Ethyne	unspecified	kσ		E 60601E 10
7.11	NMVOC non-methane volatile organic	unspecificu	10	5.51557E-09	5.69601E-10
Air	compounds, unspecified origin	unspecified	kg	7.65892E-06	1.04379E-05
Air	Hydrogen chloride	unspecified	kg	E 1E694E 07	7 711225 07
A : m		unspecified	0 ka	5.15064E-07	7.71155E-07
All	Particulates, > 2.5 uni, and < 10uni	unspecifieu	ĸg	3.42806E-06	4.37865E-06
Air	Sulfur dioxide	unspecified	kg	7.09088E-06	2.14322E-05
Air	Particulates, > 10 um	unspecified	kg	7.50556E-06	7.90795E-06
Air	Ammonia	unspecified	kg	7.49241E-07	2.46499E-06
Air	Particulates < 2.5 um	unspecified	kø	E 12009E 06	E 6217EE 06
7.11		urban air close to	110	5.15096E-00	5.02175E-00
Air	Benzo(a)pyrene	ground	kg	7.35514E-12	1.60488E-10
		urban air close to	1		
Air	Magnesium	ground	кg	4.14621E-08	1.5101E-07
Δir	Cobalt	urban air close to	kσ		
		ground	110	1.26603E-09	2.16661E-09
Air	Molybdenum	urban air close to	kg	5 050425 40	C 440745 40
		ground	-	5.95843E-10	0.119/4E-10
Air	Uranium	ground	kg	2 51177F-11	2 59195F-11
		urban air close to	1.	2.911//2 11	2.00100011
Air	Thallium	ground	kg	1.65138E-11	1.73919E-11
Air	Strontium	urban air close to	ka		
	Scontium	ground	<u>^Б</u>	1.98895E-09	2.30303E-09
Air	Tin	urban air close to	kg		4 677067
		ground	Ŭ	1.35653E-11	1.65/36E-11

Air	Radon-222	urban air close to	kBq		
		ground		3.61057E-07	1.21245E-06
Air	Potassium-40	urban air ciose to	kBq	1 67739F-07	2 46844F-07
		urban air close to		1.077552-07	2.40844L-07
Air	Thorium-232	ground	kBq	4.36001E-08	6.43712E-08
٨٠٠	Scandium	urban air close to	ka		
Alf	Scandium	ground	кg	1.29523E-11	1.3813E-11
Air	Beryllium	urban air close to	kσ		
,		ground	110	1.33125E-11	1.63201E-11
Air	Manganese	urban air close to	kg	4 434455 00	F 343405 00
		ground	Ű	1.42445E-09	5.24248E-08
Air	Ethane	ground	kg	3 75279F-07	1 45102E-07
		urban air close to		5.752752 07	1.451022 07
Air	Boron	ground	kg	5.6889E-09	9.12776E-09
A :	Dedium 220	urban air close to	l D er		
Alf	Radium-228	ground	квд	6.7629E-07	7.41238E-07
Δir	Lead-210	urban air close to	kBa		
7.11		ground	КВЧ	5.95167E-07	9.09679E-07
Air	Titanium	urban air close to	kg		
		ground	0	3.94324E-09	4.24212E-09
Air	Phosphorus	urban air close to	kg	2 81275 00	0 101165 00
		ground urban air close to		2.81272-09	9.18110E-08
Air	Radium-226	ground	kBq	1 53758F-07	2 35328F-07
		urban air close to		1.557502 07	2.000202 07
Air	Vanadium	ground	kg	2.56415E-08	5.86952E-08
A :	Detersive	urban air close to	l.e.		
Alf	Potassium	ground	кg	1.58327E-07	7.0871E-06
Δir	Indine	urban air close to	kσ		
		ground	<b>~</b> 5	3.9822E-10	1.08621E-09
Air	Aluminium	urban air close to	kg		
		ground		1.10688E-07	1.17893E-07
Air	Thorium	urban air ciose to	kg	1 906095 11	1 066225 11
		urban air close to		1.890081-11	1.900221-11
Air	Radon-220	ground	kBq	6.33158E-07	2.14456E-06
		urban air close to	· .		
Air	Silicon	ground	kg	1.67045E-07	1.84646E-07
Air	Tharium 229	urban air close to	kBa		
All	1110110111-228	ground	кру	6.14765E-08	7.70393E-08
Air	Bromine	urban air close to	kσ		
7.11	Bronnine	ground	10	1.02999E-09	2.01624E-08
Air	Dioxins, measured as 2,3,7,8-	urban air close to	kg	2 250565 45	4 004065 44
	tetrachlorodibenzo-p-dioxin	ground	-	2.25956E-15	1.09106E-14
Air	Sodium	urban air ciose to	kg	1 03279F-08	1 218/0F-07
		urban air close to		4.032791-08	4.210491-07
Air	Hydrocarbons, aliphatic, unsaturated	ground	kg	6.77407E-08	9.6308E-07
		urban air close to			
Air	Barium	ground	кg	1.38466E-09	1.77658E-09
Air	Uranium 228	urban air close to	kRa		
AII	oranium-256	ground	кру	1.2807E-07	1.95893E-07
Air	Ethyne	urban air close to	kg		
	,	ground		6.05857E-09	7.41123E-09
Air	Polonium-210	urban air close to	kBq	1 000745 00	
		grouna	-	1.U88/4E-U6	1.00559E-06
Air	Iron	ground	kg	5 202985-08	5 5072F-08
		urban air close to		J.20230L-00	J.JU72L-00
Air	Propane	ground	kg	1.45854E-06	4.69736E-07

Air	Calcium	urban air close to	kg		
		ground	0	5.83937E-08	1.79444E-06
Air	Chromium VI	ground	kg	3.30581E-11	5.42664E-11
Air	Dinitrogen monoxide	unspecified	kg	5.69408E-07	1.44484E-06
Air	Carbon dioxide, fossil	non-urban air or from	kg	0.064276056	0 074524226
Air	NMVOC, non-methane volatile organic compounds, unspecified origin	non-urban air or from high stacks	kg	0.000213601	5.80726E-05
Air	Nitrogen oxides	non-urban air or from	kg	0.000201406	0.000162220
Air	Carbon monoxide fossil	non-urban air or from	kσ	0.000291400	0.000105259
		high stacks non-urban air or from		0.000721478	0.000170877
Air	Dinitrogen monoxide	high stacks	кg	2.55962E-06	5.04382E-06
Air	Ammonia	high stacks	kg	1.02822E-06	1.20129E-05
Air	Water	non-urban air or from high stacks	m3	3.85643E-05	3.90186E-05
Air	2,4-DB	non-urban air or from high stacks	kg	4.41311E-20	2.659E-18
Air	Glyphosate	non-urban air or from high stacks	kg	1.56796E-08	5.71988E-09
Air	Hydrocarbons, aliphatic, alkanes, unspecified	unspecified	kg	2.63889E-07	1.42228E-07
Air	Paraffins	urban air close to	kg		
Air	Fluosilicic acid	urban air close to ground	kg	3.32777E-10	1.36089E-09
Air	Mercury	unspecified	kg	6.12294E-10	9.70265E-10
Air	Nitrogen oxides	lower stratosphere + upper troposphere	kg	8.53428E-10	3.46143E-09
Air	Dioxins, measured as 2,3,7,8- tetrachlorodibenzo-p-dioxin	unspecified	kg	1.49498E-14	1.60129E-14
Air	Methane, tetrafluoro-, R-14	unspecified	kg	9.43571E-10	3.85882E-09
Air	Ethane, hexafluoro-, HFC-116	unspecified	kg	6.90897E-11	2.82545E-10
Air	Hydrogen fluoride	unspecified	kg	6.18021E-08	1.93862E-07
Air	Nitrogen oxides	unspecified	kg	5.62688E-05	7.49714E-05
Air	Benzo(a)pyrene	unspecified	kg	3.12673F-11	5.76013F-11
Air	PAH, polycyclic aromatic hydrocarbons	unspecified	kg	3 80588F-09	5 84632F-09
Air	Sulfuric acid	non-urban air or from high stacks	kg	5.64399E-10	1.70281E-09
Air	Sulfur dioxide	non-urban air or from	kg	8 21273E-05	0 000248587
Air	PAH, polycyclic aromatic hydrocarbons	urban air close to ground	kg	1.32918E-10	3.48927E-09
Air	Pentane	urban air close to ground	kg	1.89001E-06	7.32606E-07
Air	Butane	urban air close to ground	kg	1.46937E-06	4.58559E-07
Air	Methane, non-fossil	non-urban air or from high stacks	kg	1.26626E-06	1.70064E-05
Air	Hydrogen sulfide	non-urban air or from high stacks	kg	1.75206E-08	1.49463E-07
Air	Carbon dioxide, non-fossil	non-urban air or from high stacks	kg	5.24118E-05	0.001027173
Air	Nitrobenzene	urban air close to ground	kg	2.45706E-11	1.2568E-11

Air	o-Nitrotoluene	urban air close to	kg	1 250215 12	1 220145 12
Air	2 Nitroborzois asid	urban air close to	ka	1.35831E-12	1.23914E-12
Air	2-Nitrobenzoic acid	ground	кд	1.573E-12	1.43499E-12
Air	Sodium dichromate	urban air close to ground	kg	1.16359E-12	1.19928E-12
Air	Lead	non-urban air or from	kg		_
		high stacks	0	2.01959E-08	5.01789E-08
Air	Particulates, > 10 um	high stacks	kg	2.20243E-05	7.15254E-05
Air	Antimony	non-urban air or from high stacks	kg	7 46506E-10	2 21629F-09
Air	Dioxins, measured as 2,3,7,8-	non-urban air or from	ka	7.405002 10	2.210252 05
All	tetrachlorodibenzo-p-dioxin	high stacks	кд	3.05392E-15	6.00166E-15
Air	Mercury	non-urban air or from high stacks	kg	4.14998E-10	2.15171E-09
Air	Particulates, < 2.5 um	non-urban air or from high stacks	kg	2.72239E-05	7.4121E-05
Air	Particulates, > 2.5 um, and < 10um	non-urban air or from	kg		
		nigh stacks	-	1.11771E-05	1.78608E-05
Air	Arsenic	high stacks	kg	5.77596E-09	1.76357E-08
Air	Cadmium	non-urban air or from	kg	1 712405 00	F 12402F 00
		nign stacks		1.71349E-09	5.12493E-09
Air	Nickel	high stacks	kg	1.70198E-08	3.73228E-08
Air	Copper	non-urban air or from high stacks	kg	4 78357F-08	4 95786F-08
Air	Bonzono	non-urban air or from	kα	4.705572.00	4.557662 66
All	Benzene	high stacks	ĸg	6.23318E-07	6.02926E-07
Air	PAH, polycyclic aromatic hydrocarbons	non-urban air or from high stacks	kg	9.12404E-08	1.97616E-08
Δir	Chromium	non-urban air or from	kσ		
	Chronnum	high stacks	<u>~</u> Б	1.54417E-07	1.18533E-07
Air	Selenium	high stacks	kg	1.56741E-09	8.53959E-09
Air	Benzo(a)pyrene	non-urban air or from	kg	4 91401E 00	2 662645 00
		non-urban air or from		4.814912-09	3.00204E-09
Air	Zinc	high stacks	kg	4.74595E-08	6.31463E-08
Air	Methane, fossil	non-urban air or from	kg	0 755585 05	0 000222571
		urban air close to		9.755582-05	0.000232371
Air	Boric acid	ground	кд	4.90191E-20	2.77722E-14
Air	Sodium tetrahydridoborate	urban air close to ground	kg	6.36895E-16	3.60839E-10
Air	Phosphine	urban air close to	kg	2 712045 15	1 2005 00
		urban air close to		2.71384E-15	1.269E-09
Air	Nitrogen fluoride	ground	kg	9.59317E-19	5.4351E-13
Air	Sulfur hexafluoride	urban air close to	kg	2 926676 19	2 1727E 12
		urban air close to		5.83007E-18	2.1/5/E-12
Air	Phosphoric acid	ground	kg	1.73533E-18	9.83166E-13
Air	Diethylene glycol	urban air close to ground	kg	3.46709E-18	1.96431E-12
Air	Boron trifluoride	urban air close to	kσ		
		ground	<u>"б</u>	3.28606E-16	1.86093E-10
Air	Cyclohexane	ground	kg	1.73533E-18	9.83166E-13
Air	Tetramethyl ammonium hydroxide	urban air close to	kg	2 2227/	4 000 00 = 55
1	. ,	ground	Ī	2.300/1E-14	1.30349E-08

Air	Isopropylamine	urban air close to	kg	1 37022F-12	2 39564F-10
A	Ethe Januaria a	urban air close to	L.a.	1.570222 12	2.555042 10
Air	Ethylamine	ground	кд	3.03622E-12	1.97208E-10
Air	Carbon dioxide, from soil or biomass stock	non-urban air or from high stacks	kg	0.000868588	0.000468811
Air	Diethyl ether	urban air close to ground	kg	4.09191E-18	2.31831E-12
Air	Bromoxynil	non-urban air or from high stacks	kg	7.92494E-21	1.71814E-19
Air	МСРА	non-urban air or from high stacks	kg	7.29352E-21	3.0124E-19
Air	Propiconazole	non-urban air or from high stacks	kg	7.68237E-12	2.80253E-12
Air	Acetone	unspecified	kg	1.80753E-09	8.82112E-10
Air	Phenol, pentachloro-	urban air close to ground	kg	5.64668F-14	2.46013F-12
Air	m-Xylene	urban air close to ground	kg	7.42038E-10	3.65018E-08
A :		urban air close to			0.000101 00
Alf	Benzene, nexacilioro-	ground	кg	2.67843E-14	5.50288E-14
Air	Benzal chloride	urban air close to ground	kg		
Air	Phenol, 2,4-dichloro	urban air close to ground	kg	1.1441F-11	4.9321F-12
Air	2-Methyl-1-propanol	urban air close to ground	kg	2.70043E-12	4.56868E-12
Air	Anthranilic acid	urban air close to	kg	1 22442E-12	1 11781F-12
		urban air close to		1.224431-12	1.117011-12
Air	Butanol	ground	kg	3.8227E-12	1.99591E-12
Air	Methyl acetate	urban air close to ground	kg	3.64224E-13	3.32268E-13
Air	Chloroform	urban air close to ground	kg	3.50828E-11	4.89979E-11
Air	Nitrogen	unspecified	kg	6.26244E-09	2.65584E-08
Air	Aluminium	unspecified	kg	8 72835E-07	2 /2211E-06
Air	Zinc	unspecified	ka	5.720352-07	Z.42211L-00
Air	Tin	unspecified	ka	5.57918E-08	5.48105E-08
All Alm	land	unspecified	∿g ka	1.37967E-08	1.22/13E-08
All	Talaana	unspecified	ĸg	1.97633E-08	1.55108E-08
Air	Toluene	unspecified	кg	3.56989E-08	1.56044E-07
Air	Chromium	unspecified	kg	1.09184E-09	1.19726E-09
Air	Xylene	unspecified	kg	2.22462E-08	9.49685E-08
Air	Nickel	unspecified	kg	1.19522E-09	1.29212E-09
Air	Benzene	unspecified	kg	2.51603E-08	1.06376E-07
Air	Copper	unspecified	kg	1.02452E-07	9.27008E-08
Air	Cadmium	unspecified	kg	1.31599E-10	1.19496E-10
Air	Selenium	unspecified	kg	1.22424E-10	1.2251E-10
Air	Methanol	non-urban air or from high stacks	kg	1.52435E-07	5.82929E-08
Air	Methyl ethyl ketone	urban air close to	kg	3.62533F-08	1.24519F-08
Air	Butadiene	urban air close to ground	kg	3.96235E-13	1.2803E-12
Air	Monoethanolamine	urban air close to ground	kg	1.74009E-09	3.06029E-09

Air	Hydrocarbons, aromatic	unspecified	kg	5.89824E-08	2.56269E-07
Air	Benzene, hexachloro-	unspecified	kg	4.06023E-12	7.54095E-12
Air	Polychlorinated biphenyls	unspecified	kg	1.59115E-11	1.4632E-11
Air	Water	urban air close to ground	m3	2.895E-07	7.51566E-06
Air	2-Propanol	unspecified	kg		
Air	Dimethylamine	urban air close to ground	kg	2.6147E-14	2.61816E-14
Air	Heat, waste	unspecified	MJ	3.84553E-05	0.000113489
Air	Ethane	non-urban air or from high stacks	kg	4.79747E-07	1.5463E-06
Air	Ethene	non-urban air or from high stacks	kg	1.41075E-07	5.28537E-08
Air	Carbon monoxide, non-fossil	non-urban air or from high stacks	kg	1.37732E-07	8.70106E-07
Air	Sodium chlorate	urban air close to ground	kg	3.01176E-11	3.16425E-11
Air	Methane, dichlorodifluoro-, CFC-12	urban air close to ground	kg	1.97629E-12	5.27851E-12
Air	Methane, chlorodifluoro-, HCFC-22	urban air close to ground	kg	1.0391E-11	2.08454E-11
Air	Methane, dichlorofluoro-, HCFC-21	urban air close to ground	kg	1.34703E-15	1.50405E-15
Air	Methane, trifluoro-, HFC-23	urban air close to ground	kg	4.28602E-13	4.78562E-13
Air	Methane, trichlorofluoro-, CFC-11	urban air close to ground	kg	2.17185E-15	2.3174E-15
Air	Magnesium	non-urban air or from high stacks	kg	5.23569E-09	2.34805E-08
Air	Aluminium	non-urban air or from high stacks	kg	5.32176E-10	1.1742E-09
Air	Silicon	non-urban air or from high stacks	kg	2.13282E-09	4.53564E-09
Air	Iron	non-urban air or from high stacks	kg	1.55793E-09	1.23534E-09
Air	Formaldehyde	unspecified	kg	7.45475E-08	1.97126E-07
Air	Phenol	unspecified	kg	1.49201E-11	1.17224E-10
Air	Methane, from soil or biomass stock	non-urban air or from high stacks	kg	5.3394E-07	1.86027E-07
Air	Ethyne	non-urban air or from high stacks	kg	2.87052E-09	1.01388E-09
Air	Acetaldehyde	non-urban air or from high stacks	kg	4.0825E-07	1.06842E-07
Air	Furan	non-urban air or from high stacks	kg	3.43363E-07	1.20733E-07
Air	Acetone	non-urban air or from high stacks	kg	1.4978E-07	5.56498E-08
Air	Acetic acid	non-urban air or from high stacks	kg	1.5403E-07	8.34721E-08
Air	Xylene	non-urban air or from high stacks	kg	4.10391E-08	3.88154E-07
Air	Ethanol	non-urban air or from high stacks	kg	1.25103E-08	6.63012E-07
Air	Isoprene	non-urban air or from high stacks	kg	1.14454E-09	4.02443E-10
Air	Propene	non-urban air or from high stacks	kg	3.99488E-08	2.05231E-08
Air	Formaldehyde	non-urban air or from high stacks	kg	1.85811E-05	4.68218E-06

Air	Carbon monoxide, from soil or biomass stock	non-urban air or from high stacks	kg	7.43953E-06	2.61588E-06
Air	Formic acid	non-urban air or from high stacks	kg	7.86874E-08	2.7668E-08
Air	Acetonitrile	non-urban air or from high stacks	kg	1.28761E-08	4.52749E-09
Air	Cyanide	non-urban air or from high stacks	kg	2.47477E-07	9.27938E-08
Air	Toluene	non-urban air or from high stacks	kg	1.75031E-05	4.41631E-06
Air	Phenol	non-urban air or from high stacks	kg	1.36669E-09	4.40697E-09
Air	Propane	non-urban air or from high stacks	kg	1.16494E-07	5.06661E-07
Air	Terpenes	non-urban air or from high stacks	kg	1.07301E-08	3.77291E-09
Air	Benzene, ethyl-	non-urban air or from high stacks	kg	1.74692E-09	7.72527E-10
Air	Fluorene	unspecified	kg	9.65591E-15	2.75936E-14
Air	Manganese	unspecified	kg	6.70639E-09	5.39194E-09
Air	Indeno(1,2,3-cd)pyrene	unspecified	kg	2.55023E-16	7.28776E-16
Air	Methane, dichloro-, HCC-30	unspecified	kg	1.167E-11	3.33493E-11
Air	Thallium	unspecified	kg	3.38077E-12	1.02382E-11
Air	Phenanthrene	unspecified	kg	1.48689E-13	4.24908E-13
Air	Phosphorus	unspecified	kg	6.26677E-12	2.2668E-12
Air	Pyrene	unspecified	kg	7.76027E-15	2.21765E-14
Air	Antimony	unspecified	kg	1.94971E-07	1.72163E-07
Air	Chrysene	unspecified	kg	1.27363E-16	3.63965E-16
Air	Acenaphthylene	unspecified	kg	6.04235E-14	1.72672E-13
Air	Arsenic	unspecified	kg	1.51113E-10	1.46426E-10
Air	Benzo(b)fluoranthene	unspecified	kg	1.38026E-15	3.94436E-15
Air	Benz(a)anthracene	unspecified	kg	1.167E-15	3.33493E-15
Air	Benzo(ghi)perylene	unspecified	kg	8.50076E-17	2.42925E-16
Air	Cobalt	unspecified	kg	6.08887E-11	5.78326E-11
Air	Beryllium	unspecified	kg	7.32963E-13	2.27549E-12
Air	Carbon dioxide, non-fossil	unspecified	kg	1.85398E-05	3.79274E-05
Air	Vanadium	unspecified	kg	1.37828E-09	1.19759E-09
Air	Chromium VI	unspecified	kg	4.57783E-13	1.2728E-12
Air	Benzo(k)fluoranthene	unspecified	kg	9.98173E-16	2.85247E-15
Air	Dibenz(a,h)anthracene	unspecified	kg	6.48664E-16	1.85368E-15
Air	Fluoranthene	unspecified	kg	1.06334E-14	3.03868E-14
Air	Carbon disulfide	non-urban air or from high stacks	kg	9.96969E-08	2.79566E-07
Air	Heat, waste	urban air close to ground	MJ	0.002586172	0.003472139
Air	Ammonium carbonate	urban air close to ground	kg	3.57868E-12	1.85357E-11
Air	Tin	non-urban air or from high stacks	kg	1.6328E-09	2.46747E-09
Air	Manganese	non-urban air or from high stacks	kg	3.76045E-09	1.48275E-08
Air	Vanadium	non-urban air or from high stacks	kg	1.19214E-09	4.88327E-09

Air	Formic acid	urban air close to	kg	A E007AE 11	1 652065 11
		urban air close to		4.588/4E-11	1.05296E-11
Air	Formamide	ground	kg	1.66949E-12	3.92211E-12
Air	1-Pentanol	urban air close to ground	kg	9.12835E-13	2.1445E-12
Air	1-Pentene	urban air close to ground	kg	8.4844E-13	3.50592E-11
Air	Ethylene oxide	urban air close to	kg	5.75218F-11	2.44551F-10
Air	Propylamine	urban air close to	kg	9 36665E-13	1 33375F-12
Air	Heat, waste	non-urban air or from	MJ	2 450815 06	8 24210E 07
Air	Chromium VI	non-urban air or from	kg	2.439812-00	2 266275 00
Δir	Phenol nentachloro-	unspecified	kσ	3.901222-09	3.20027E-09
Air	Sulfur beyafluoride	unspecified	ka	1.53454E-12	9.54106E-12
	Sanar nexanaonae	urban air close to	~5	1.54547E-09	1.60467E-08
Air	Ethylene diamine	ground	kg	8.96994E-13	2.72464E-12
Air	Ethane, 1,2-dichloro-	unspecified	kg		
Air	Potassium-40	non-urban air or from high stacks	kBq	8.32596E-07	5.70364E-06
Air	Cobalt	non-urban air or from high stacks	kg	2.39878E-09	3.06451E-09
Air	Protactinium-234	non-urban air or from high stacks	kBq	5.01442E-08	4.03923E-07
Air	Hydrocarbons, aliphatic, alkanes, unspecified	non-urban air or from high stacks	kg	1.13448E-08	1.26073E-07
Air	Ethene, tetrachloro-	non-urban air or from high stacks	kg	1.37471E-11	7.71291E-11
Air	Cumene	non-urban air or from high stacks	kg	1.74329E-12	9.78103E-12
Air	Radium-228	non-urban air or from high stacks	kBq	2.18213E-07	1.61845E-06
Air	Radium-226	non-urban air or from high stacks	kBq	9.27297E-07	9.4496E-06
Air	Sulfate	non-urban air or from high stacks	kg	5.08995E-10	8.83059E-09
Air	Actinides, radioactive, unspecified	non-urban air or from high stacks	kBq	6.63597E-07	3.72337E-06
Air	Hydrogen chloride	non-urban air or from high stacks	kg	1.06559E-06	8.36554E-06
Air	Thorium-234	non-urban air or from high stacks	kBq	5.01507E-08	4.04042E-07
Air	Thorium-230	non-urban air or from high stacks	kBq	8.55055E-08	7.47725E-07
Air	Hydrocarbons, aliphatic, alkanes, cyclic	non-urban air or from high stacks	kg	1.85251E-10	1.03936E-09
Air	Ethane, 1,1,1-trichloro-, HCFC-140	non-urban air or from high stacks	kg	6.40549E-12	3.59394E-11
Air	Thorium-232	non-urban air or from high stacks	kBq	1.78261E-07	1.33317E-06
Air	Acrolein	non-urban air or from high stacks	kg	2.33352E-08	6.33652E-09
Air	Polonium-210	non-urban air or from high stacks	kBq	4.29895E-06	3.18237E-05
Air	Uranium-238	non-urban air or from high stacks	kBq	6.52961E-07	5.41556E-06
Air	Lead-210	non-urban air or from high stacks	kBq	2.44608E-06	1.80415E-05

Air	Hexane	non-urban air or from high stacks	kg	1.31893E-07	2.50477E-07
Air	Hydrocarbons, chlorinated	non-urban air or from high stacks	kg	6.48706E-11	3.63954E-10
Air	Acenaphthene	non-urban air or from	kg	1.85613F-13	1.11425F-12
Air	Methane, monochloro-, R-40	non-urban air or from	kg	1 69649E-10	9 51852E-10
Air	Thorium-228	non-urban air or from	kBq	1.030491-10	9.918521-10
Air	Methane. dichloro HCC-30	non-urban air or from	kg	1.22016E-07	8.9/0//E-0/
Air	Ilranium-234	high stacks non-urban air or from	kBa	9.28115E-11	5.20726E-10
		high stacks non-urban air or from	, KDQ	1.79241E-07	1.94355E-06
Air	Aldehydes, unspecified	high stacks	kg	3.25367E-10	2.08323E-09
Air	Strontium	high stacks	kg	2.32053E-09	1.74257E-08
Air	Chloroform	non-urban air or from high stacks	kg	3.13733E-11	1.76024E-10
Air	Hydrogen fluoride	non-urban air or from high stacks	kg	1.36991E-07	1.22476E-06
Air	Radon-222	non-urban air or from high stacks	kBq	0.02439138	0.419010382
Air	Styrene	non-urban air or from high stacks	kg	3.14202E-11	6.45179E-11
Air	Radon-220	non-urban air or from	kBq	2 02157E-05	0 00016/059
Air	Beryllium	non-urban air or from	kg	1 202595 11	4 427245 11
Air	Ethane. 1.2-dichloro-	non-urban air or from	kg	1.303385-11	4.42754E-11
A :		high stacks non-urban air or from		1.27773E-11	7.16877E-11
Alr	Hydrocarbons, aliphatic, unsaturated	high stacks	кд	7.97503E-09	9.01581E-08
Air	Pentane	high stacks	kg	1.80444E-05	4.85635E-06
Air	Boron	non-urban air or from high stacks	kg	3.92221E-08	4.87734E-07
Air	Bromine	non-urban air or from high stacks	kg	1.21561E-08	1.12662E-07
Air	Barium	non-urban air or from high stacks	kg	2.33306E-09	1.76747E-08
Air	Iodine	non-urban air or from	kg	6 33473F-09	5 91858F-08
Air	Butane	non-urban air or from	kg	E 7722EE 08	2.066915.07
Air	Molybdenum	non-urban air or from	kg	5.77555L-06	2.300811-07
Air	Propionic acid	nign stacks non-urban air or from	kg	6.63256E-11	6.38408E-10
Air	Nichium OE	high stacks non-urban air or from	kP.a	4.54105E-10	4.01769E-09
All		high stacks	квү	2.33403E-06	1.93702E-05
Air	Chromium-51	high stacks	kBq	1.08675E-11	1.51545E-10
Air	Cobalt-58	non-urban air or from high stacks	kBq	2.16452E-11	3.05054E-10
Air	Xenon-133m	non-urban air or from high stacks	kBq	4.99832E-07	8.18369E-06
Air	Zirconium-95	non-urban air or from high stacks	kBq	5.01131E-11	7.10149E-10
Air	Barium-140	non-urban air or from high stacks	kBq	6.99701E-10	9.75723E-09
Air	Xenon-137	non-urban air or from high stacks	kBq	3.46271E-06	4.84666E-05
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Air	Cesium-137	non-urban air or from	kBq	1.46874F-10	2.04956F-09
Air	Cobalt-60	non-urban air or from	kBq	1.63747E-10	2 29826F-09
Air	Carbon-14	non-urban air or from	kBq	1.037471-10	0.000055000
Air	Cerium-141	nigh stacks non-urban air or from	kBa	0.000559447	0.000955923
/		high stacks	KDY	1.69593E-10	2.36493E-09
Air	Krypton-88	high stacks	kBq	3.03231E-06	4.32393E-05
Air	Krypton-85m	non-urban air or from high stacks	kBq	1.41056E-05	0.000200161
Air	Antimony-124	non-urban air or from high stacks	kBq	1.21916E-12	1.7094E-11
Air	Xenon-133	non-urban air or from high stacks	kBq	0.000684042	0.009826198
Air	Xenon-135m	non-urban air or from high stacks	kBq	0.000110866	0.001573296
Air	Zinc-65	non-urban air or from	kBq	2 77801F-11	2 8751/F-10
Air	Lanthanum-140	non-urban air or from	kBq	5.070005.44	0.007575.40
		nign stacks		5.97899E-11	8.33757E-10
Air	Xenon-135	high stacks	kBq	0.000242406	0.003466516
Air	Manganese-54	non-urban air or from high stacks	kBq	5.56535E-12	7.76076E-11
Air	lodine-131	non-urban air or from high stacks	kBq	8.5015E-07	2.2108E-05
Air	Cesium-134	non-urban air or from high stacks	kBq	8.1224E-12	1.13265E-10
Air	Krypton-87	non-urban air or from high stacks	kBq	2.31792E-06	3.33719E-05
Air	Aerosols, radioactive, unspecified	non-urban air or from	kBq	6.76113F-09	1.67199F-07
Air	Krypton-85	non-urban air or from high stacks	kBq	1.13386E-05	0.00027738
Air	Ruthenium-103	non-urban air or from	kBq	1 45155 12	2 024095 12
Air	Xenon-131m	non-urban air or from	kBa	1.4515E-15	2.02409E-12
		high stacks		1.22219E-05	0.000176528
Air	Xenon-138	high stacks	kBq	2.59087E-05	0.000364096
Air	Argon-41	non-urban air or from high stacks	kBq	3.51395E-06	8.77441E-05
Air	Krypton-89	non-urban air or from high stacks	kBq	1.26627E-06	1.77393E-05
Air	Hydrogen-3, Tritium	non-urban air or from	kBq	0 001105394	0 003827031
Air	Radioactive species, other beta emitters	non-urban air or from	kBq	1 79055E-10	2 81855E-00
Air	Noble gases, radioactive, unspecified	non-urban air or from	kBq	0.206022124	2 220007010
Air	Silver-110	non-urban air or from	kBq	0.200023134	3.22003/818
Air	Antimony-125	non-urban air or from	kBa	2.08130E-12	3.8004/E-11
		high stacks		2.00459E-11	2.84125E-10
Air	lodine-133	high stacks	kBq	1.55913E-09	2.20986E-08
Air	Ethene, tetrachloro-	ground	kg	2.58937E-14	8.2339E-09

Air	Ethylene oxide	unspecified	kg	2.55929E-13	1.83682E-13
Air	Ethylene glycol monoethyl ether	urban air close to ground	kg		
Air	Monochloroethane	urban air close to ground	kg		
Air	Fluorine	non-urban air or from high stacks	kg	1.05093E-09	1.61816E-09
Air	Hydrocarbons, chlorinated	unspecified	kg	1.07958E-09	1.89399E-09
Air	Radioactive species, other beta emitters	urban air close to ground	kBq	1.32632E-05	1.6283E-05
Air	Methane, bromotrifluoro-, Halon 1301	urban air close to ground	kg	3.93193E-16	4.82718E-16
Air	Methyl formate	urban air close to ground	kg	6.77386E-13	1.35211E-12
Air	Fluorine	unspecified	kg	3.5843E-13	5.92427E-12
Air	Hydrogen sulfide	unspecified	kg	1.92328E-08	1.20116E-08
Air	Titanium	non-urban air or from high stacks	kg	5.78704E-12	6.97575E-12
Air	Phosphorus	non-urban air or from high stacks	kg	2.78248E-11	5.91342E-11
Air	Zirconium	non-urban air or from high stacks	kg	2.50019E-13	2.27268E-13
Air	Calcium	non-urban air or from high stacks	kg	4.34214E-10	2.6676E-09
Air	Sodium	non-urban air or from high stacks	kg	4.88906E-10	5.51175E-10
Air	Thorium	non-urban air or from high stacks	kg	3.5907E-14	4.28448E-14
Air	Scandium	non-urban air or from high stacks	kg	1.80275E-13	2.63515E-12
Air	Uranium	non-urban air or from high stacks	kg	2.31912E-14	2.57264E-14
Air	Thallium	non-urban air or from high stacks	kg	8.27887E-13	7.0962E-13
Air	Potassium	non-urban air or from high stacks	kg	4.66375E-11	9.96123E-11
Air	Ethane, 1,1,1,2-tetrafluoro-, HFC-134a	urban air close to ground	kg	6.41106E-12	5.31972E-12
Air	Acrolein	urban air close to ground	kg	4.3942E-12	1.69908E-11
Air	Benzaldehyde	urban air close to ground	kg	1.82222E-12	9.2944E-12
Air	Helium	unspecified	kg	2.06833E-11	8.61862E-11
Air	Iron	unspecified	kg	4.1825E-07	3.71124E-07
Air	Silver	non-urban air or from high stacks	kg	1.68383E-13	1.82102E-13
Air	Hexane	urban air close to ground	kg	1.33002E-06	4.21347E-07
Air	Helium	urban air close to ground	kg		
Air	Ozone	urban air close to ground	kg	4.20728E-13	1.19876E-12
Air	Phosphorus trichloride	urban air close to ground	kg	8.58139E-15	1.51106E-13
Air	Benzene, ethyl-	unspecified	kg	4.21415E-14	4.06549E-14
Air	Ethane	unspecified	kg	2.66203E-10	3.35576E-10
Air	Naphthalene	unspecified	kg		
Air	Acrolein	unspecified	kg	7.66242E-09	1.51756E-08

Air	Acetaldehyde	unspecified	kg	3.90521E-08	9.83901E-08
Air	Acenaphthene	unspecified	kg	9.10906E-13	1.0177E-12
Air	Butadiene	unspecified	kg	2.647E-14	1.89074E-14
Air	Anthracene	unspecified	kg		
Air	2,2,4-Trimethyl pentane	unspecified	kg		
Air	Propanal	unspecified	kg	3.19982E-16	1.52551E-15
Air	Styrene	unspecified	kg	2.46322E-09	4.81401E-09
Air	Hexane	unspecified	kg	5.6521E-17	2.69463E-16
Air	Sulfur hexafluoride	non-urban air or from high stacks	kg	4.87262E-11	1.21568E-11
Air	Tefluthrin	non-urban air or from high stacks	kg	6.25612E-19	3.74796E-17
Air	Atrazine	non-urban air or from high stacks	kg	3.97008E-11	1.44837E-11
Air	Metolachlor	non-urban air or from high stacks	kg	1.6409E-10	5.98571E-11
Air	Pyraclostrobin	non-urban air or from high stacks	kg	1.80955E-11	6.60125E-12
Air	Dicamba	non-urban air or from high stacks	kg	3.97212E-12	1.45135E-12
Air	Pendimethalin	non-urban air or from high stacks	kg	4.40239E-10	1.606E-10
Air	Dimethenamid	non-urban air or from high stacks	kg	2.44178E-18	1.46284E-16
Air	Carbaryl	non-urban air or from high stacks	kg	5.92503E-12	2.16149E-12
Air	Ozone	unspecified	kg	5.4606E-08	6.71764E-07
Air	Methane, dichlorodifluoro-, CFC-12	unspecified	kg	8.97043E-17	4.27663E-16
Air	Chlorine	unspecified	kg	6.21175E-09	6.16793E-09
Air	Bromine	unspecified	kg	1.74627E-10	1.97121E-10
Air	Chloroform	unspecified	kg	4.9775E-17	2.37301E-16
Air	Isoprene	unspecified	kg	9.57211E-17	4.56348E-16
Air	Benzal chloride	unspecified	kg	5.89824E-16	2.81197E-15
Air	Cyanide	unspecified	kg	2.10586E-15	1.00397E-14
Air	Furan	unspecified	kg	7.16541E-18	3.41609E-17
Air	Ethane, 1,1,1-trichloro-, HCFC-140	unspecified	kg	9.20746E-17	4.38963E-16
Air	Methane, bromo-, Halon 1001	unspecified	kg	1.34921E-16	6.43233E-16
Air	Ethene, tetrachloro-	unspecified	kg	7.29304E-14	3.47694E-13
Air	Magnesium	unspecified	kg	2.38556E-11	1.09922E-10
Air	Ethene, chloro-	unspecified	kg	3.37303E-17	1.60808E-16
Air	Aldehydes, unspecified	unspecified	kg	3.41861E-11	1.62981E-10
Air	Propene	unspecified	kg	1.14494E-11	5.17442E-11
Air	Cumene	unspecified	kg	4.46698E-18	2.12962E-17
Air	Methane, tetrachloro-, R-10	unspecified	kg	4.01117E-14	1.91232E-13
Air	Carbon disulfide	unspecified	kg	1.09396E-16	5.21541E-16
Air	t-Butvl methvl ether	urban air close to	kg		
Air	Isocyanic acid	ground urban air close to	kg	2.10832E-08	7.93405E-09
Air	Acrylic acid	urban air close to ground	kg	5.50622E-10	2.35992E-09 1.89546E-13

		urban air close to			
Air	Methyl acrylate	ground	kg	6.22173E-13	2.14193E-13
Air	Helium	non-urban air or from	kø		
/		high stacks	1.8	5.72211E-08	1.88456E-08
Air	Butyrolactone	urban air close to	kg	1 204225 12	2 442455 12
		non-urban air or from		1.20455E-15	5.44545E-15
Air	Dichlorprop	high stacks	kg	4.35557E-21	2.15549E-19
A		non-urban air or from	Lin		
Air	2,4-D ester	high stacks	кg	2.98439E-20	1.75137E-18
Air	МСРВ	non-urban air or from	kg		
7.11		high stacks	1.8	7.21924E-21	2.97209E-19
Air	2,4-D amines	non-urban air or from	kg	2 200965 21	1 507425 10
		lower stratosphere +		5.50980E-21	1.50742E-19
Air	Carbon dioxide, fossil	upper troposphere	kg	1.8907E-09	1.35051E-09
A	Usetses	urban air close to	Lin		
Air	Нертапе	ground	кg	3.45699E-07	1.05995E-07
Air	Ethane, 1,1,1,2-tetrafluoro-, HFC-134a	unspecified	kg	1.67118E-10	5.29478E-10
٨:٣	Ammonia	low population	ka		
Alf	Ammonia	density, long-term	кg	2.87256E-11	6.07271E-11
Air	Dinitrogen monoxide	low population	kg		
7.00		density, long-term	0	2.06053E-11	4.35605E-11
Air	Nitrogen oxides	low population	kg	1 227125 12	0 1/775 12
A :	Carbon diavida fram sail ar hismass staal.	uensity, iong-term	lie.	4.52712E-12	9.14776-12
Alf	Carbon dioxide, from soil of biomass stock	unspecified	кд	0.000144637	4.58991E-05
Air	m-Xylene	non-urban air or from	kg	5 622515 14	5 61971E 11
		non-urban air or from		5.022511-14	5.01074L-14
Air	Phenol, pentachloro-	high stacks	kg	1.84529E-09	1.57517E-09
Δir	Hydrocarbons aromatic	non-urban air or from	kσ		
7.11		high stacks	100	1.52317E-09	1.74435E-08
Air	Benzene, hexachloro-	non-urban air or from	kg	2 407015 21	2 202005 21
		nigh stacks		2.40701E-21	2.20396E-21
Air	Chlorine	high stacks	kg	6.64873E-12	1.11721E-10
		non-urban air or from	1.		
Air	Propanai	high stacks	кg	6.52736E-08	1.62853E-08
Air	Carbon monoxide, non-fossil	unspecified	kg	1.26767E-09	1.08661E-08
Air	Sulfur trioxide	unspecified	kg	1.10779E-11	1.00797E-10
Air	Radon-222	unspecified	kBa	1 497765 09	4 050545 09
		urban air close to		1.48770L-08	4.039341-08
Air	Trimethylamine	ground	kg	7.64446E-13	6.98617E-13
٨:٣	Mathana hromotrifluoro Ualan 1201	non-urban air or from	ka		
Alf	Methane, bromotrinuoro-, Halon 1301	high stacks	кg	1.25098E-09	4.18825E-10
Air	Cumene	urban air close to	kg		
		ground	0	4.09213E-09	1.57612E-08
Air	Methane, tetrafluoro-, R-14	urban air ciose to	kg	5 56833F-13	/ 13391F-13
		urban air close to		5.50055E 15	4.155511 15
Air	Ethane, hexafluoro-, HFC-116	ground	kg	2.0603E-12	8.15479E-13
٨:٣	Ethana 1112 totrafluara UEC 124a	non-urban air or from	ka		
All		high stacks	ĸg	1.53895E-09	8.53983E-10
Air	Ethane, 1,1-difluoro-, HFC-152a	non-urban air or from	kg		
		nigh stacks		1.53312E-09	7.47841E-10
Air	Phenol, 2,4-dichloro	unspecified	kg	9.37775E-15	9.39017E-15
Air	Sodium	unspecified	kg	1.75071E-08	1.54682E-08
Air	Benzaldehyde	non-urban air or from	kσ		
1	20112010011,000	high stacks	0	2.4267E-07	6.05441E-08

A :		urban air close to	l.e.		
Air	Hydrogen peroxide	ground	кд	5.43511E-11	1.84839E-11
Air	Sodium hydroxide	urban air close to	kg		
	· ·	ground		2.02698E-10	6.89115E-11
Air	Sulfuric acid	ground	kg	4.24252E-11	1.44308E-11
A.:	Dana an an an tach lana	urban air close to	1		
Air	Benzene, pentachioro-	ground	кg	6.72417E-14	1.33189E-13
Air	Bentazone	non-urban air or from	kσ		
/	bendzone	high stacks	118	2.17599E-11	7.93741E-12
Air	Ethane, 1,1,2-trichloro-1,2,2-trifluoro-, CFC-113	unspecified	kg	8.22031E-11	2.77025E-10
Air	Ethane, 2-chloro-1,1,1,2-tetrafluoro-, HCFC-124	unspecified	kg	8.22031E-11	2.77025E-10
Air	Ethyl cellulose	urban air close to	kσ		
		ground	8	7.33664E-11	2.4855E-11
Air	Ethane, 1,1,2-trichloro-1,2,2-trifluoro-, CFC-113	low population	kg	2 06244E 12	2 067275 12
Air	Sulfata	uensity, iong-term	ka	2.90344L-12	2.907371-12
All	Suilate	unspecified	кg	7.42244E-08	6.5548E-08
Air	Titanium	unspecified	kg	8.41986E-09	7.42586E-09
Air	Sodium formate	urban air close to	kg	2 250125 12	C 2010CE 12
A	Conditioner handwardighe	ground		2.25013E-12	6.38196E-12
Air	Sodium hydroxide	unspecified	кд		
Air	Flumiclorac-pentyl	non-urban air or from	kg	2 08534F-12	7 60733E-13
		non-urban air or from		2.085546-12	7.00755E-15
Air	Esfenvalerate	high stacks	kg	7.3965E-12	2.69824E-12
Air	Quizalofon-ethyl	non-urban air or from	kα		
All	Quizaiotop-etnyi	high stacks	∿g	2.42839E-12	8.85875E-13
Air	Flumioxazin	non-urban air or from	kg	2 400 425 44	
		nign stacks		2.10942E-11	7.09515E-12
Air	Alachlor	high stacks	kg	5.01927E-11	1.83103E-11
Air	Chlorimuron athul	non-urban air or from	ka		
All	Chlorindion-ethyl	high stacks	кg	1.1846E-11	4.32143E-12
Air	Carfentrazone-ethyl	non-urban air or from	kg		
		high stacks	-	6.51081E-13	2.37514E-13
Air	Fenoxaprop	high stacks	kg	9.68145E-12	3.53179E-12
A :	24.5	non-urban air or from	l.e.		
Air	2,4-D	high stacks	кg	4.86079E-10	1.77321E-10
Air	Cyfluthrin	non-urban air or from	kg		
	-,	high stacks	0	1.23676E-12	4.51171E-13
Air	Fomesafen	high stacks	kg	7 84286F-11	2 86107F-11
		non-urban air or from		7.012002 11	2.001072 11
Air	Azoxystrobin	high stacks	kg	2.34714E-11	8.56236E-12
Air	Paraguat	non-urban air or from	kσ		
		high stacks	8	4.17871E-11	1.52439E-11
Air	Acifluorfen	non-urban air or from	kg	7 00258E-12	2 58737F-12
		non-urban air or from		7.092581-12	2.307371-12
Air	Diflubenzuron	high stacks	kg	6.51081E-13	2.37514E-13
Δir	Imazamoy	non-urban air or from	ka		
		high stacks	118	3.11949E-12	1.13799E-12
Air	Imazethapyr	non-urban air or from	kg	2 050265 11	7 500525 12
		non-urban air or from		2.03020E-11	7.506535-12
Air	Trifluralin	high stacks	kg	7.1989E-10	2.62616E-10
Δir	Clethodim	non-urban air or from	ka		
	Cictiouini	high stacks	<u>~б</u>	3.50466E-11	1.2785E-11

Air	Trifloxystrobin	non-urban air or from	kg	A EE707E 10	1 660716 10
Air	Zoto overmethrin	non-urban air or from	ka	4.55787E-13	1.002/1E-13
	zeta-cypermetinin	high stacks	кд	3.00113E-12	1.09481E-12
Air	Metribuzin	high stacks	kg	6.49576E-11	2.36965E-11
Air	Imazaquin	non-urban air or from	kg	0.045265.12	2 62902E 12
Air	Hydrocarbons unspecified	non-urban air or from	ka	9.945201-12	3.02803L-12
		high stacks	∿g	2.01315E-08	7.34406E-09
Air	Thifensulfuron	high stacks	kg	7.12367E-13	2.59871E-13
Air	Methyl parathion	non-urban air or from	kg	8 019/F-12	2 925/7F-12
Air	Elufenacet	non-urban air or from	ka	0.01942 12	2.525471 12
	Fullehacet	high stacks	∿g	5.20885E-12	1.90019E-12
Air	Sethoxydim	high stacks	kg	5.2269E-12	1.90677E-12
Air	Thiodicarb	non-urban air or from	kg	2 53872F-12	9 26126F-13
Air	Sulfentrazone	non-urban air or from	ka	2.550721 12	5.201202 15
		high stacks	~5	4.99821E-11	1.82334E-11
Air	Fluazifop-p-butyl	high stacks	kg	1.38923E-11	5.06789E-12
Air	Flumetsulam	non-urban air or from	kg	1 210715 12	A AAEQAE 10
Air	Loctofon	non-urban air or from	ka	1.210/10-12	4.44564E-15
Air	Lactoren	high stacks	кд	1.00155E-11	3.65364E-12
Air	Acetamide	non-urban air or from high stacks	kg	1.27187E-11	4.63978E-12
Air	Permethrin	non-urban air or from	kg	6 E410E 12	2 20CAOE 12
Air	Acophoto	non-urban air or from	ka	0.34196-12	2.30040E-12
AII	Acephate	high stacks	кg	5.16672E-11	1.88482E-11
Air	Chlorpyrifos	high stacks	kg	2.36319E-10	8.62091E-11
Air	Cloransulam-methyl	non-urban air or from	kg	6 16077E 12	2 25072E 12
Air	Cubalathria gamma	non-urban air or from	ka	0.109771-12	2.250751-12
All		high stacks	ĸg	1.41932E-11	5.17767E-12
Air	Argon-40	unspecified	kg	3.85747E-07	6.56572E-07
Air	Propanol	high stacks	kg	2.53953E-18	4.47456E-18
Air	2-Propanol	non-urban air or from	kg	1 02/17E 1/	7 000425 14
A :	4 Mathul 2 northerens	non-urban air or from		4.024175-14	7.09045E-14
Air	4-Metnyi-2-pentanone	high stacks	кд	8.79456E-16	1.54957E-15
Air	Methyl ethyl ketone	non-urban air or from high stacks	kg	1.05391E-14	1.85695E-14
Air	Silicon tetrachloride	urban air close to	kg		
<b>A</b> :	1.4 Dutenedial	urban air close to			
Air	1,4-Butanedioi	ground	кд	6.73842E-12	3.38401E-12
Air	Carbonyl sulfide	unspecified	kg	2.44762E-09	3.46233E-09
Air	Uranium-238	unspecified	kBq	1.07309E-09	2.94911E-09
Air	Thorium-228	unspecified	kBq	2.09731E-10	5.84E-10
Air	Propane	unspecified	kg	4.45082E-10	9.00459E-10
Air	Polonium-210	unspecified	kBq	9.11677E-09	2.50553E-08
Air	Molybdenum	unspecified	kg	1.95066E-08	1.72248E-08

Air	lodine	unspecified	kg	1.19159E-11	3.25585E-11
Air	Potassium-40	unspecified	kBq	1.22878E-09	3.3801E-09
Air	Barium	unspecified	kg	7.55004E-08	6.66771E-08
Air	Strontium	unspecified	kg	1.06994E-09	9.53911E-10
Air	Lead-210	unspecified	kBq	4.98921E-09	1.37113E-08
Air	Thorium-232	unspecified	kBq	3.23373E-10	8.89668E-10
Air	Radium-226	unspecified	kBq	1.28766E-09	3.53873E-09
Air	Radon-220	unspecified	kBq	2.64871E-08	7.22701E-08
Air	Pentane	unspecified	kg	2.92297F-10	6.05675F-10
Air	Butane	unspecified	kg	6.65551E-10	1 3307F-09
Air	Hydrocarbons, aliphatic, unsaturated	unspecified	kg	1.64844E-11	4 21506E-11
Δir	Badium-228	unspecified	kBa	1.04844E-11	4.21300E-11
Air	Boron	unspecified	ka	4.06995E-10	1.17705E-09
Alf	вогоп		кд	3.55806E-11	1.08007E-10
Air	Carbon monoxide, fossil	upper troposphere	kg	2.22084E-12	1.58634E-12
Air	Butadiene	non-urban air or from	kσ		
All	Butaulene	high stacks	۸g	3.06671E-15	2.21244E-15
Air	Copper	lower stratosphere +	kg	1 020415 15	7 200725 16
		lower stratosphere +		1.02041E-15	7.20072E-10
Air	Selenium	upper troposphere	kg	6.00223E-18	4.28736E-18
Air	Water	lower stratosphere +	m3		
,		upper troposphere		7.44304E-13	5.31653E-13
Air	Mercury	lower stratosphere +	kg	4 20151E-20	3 00112F-20
		lower stratosphere +		4.201312 20	5.001122 20
Air	Dinitrogen monoxide	upper troposphere	кg	1.80065E-14	1.28619E-14
Air	Methane, fossil	lower stratosphere +	kg		
	·	upper troposphere		3.00108E-14	2.14366E-14
Air	Sulfur dioxide	upper troposphere	kg	6.00223E-13	4.28736E-13
Δir	Hydrogen chloride	lower stratosphere +	kσ		
	Tryatogen chionae	upper troposphere	۳g	5.16192E-16	3.68713E-16
Air	Ethylene oxide	non-urban air or from	kg	2 96111F-11	2 13866F-1/
		lower stratosphere +	_	2.304446 14	2.130001 14
Air	Ethylene oxide	upper troposphere	kg	1.09664E-13	7.83323E-14
Air	Particulates. < 2.5 um	lower stratosphere +	kg		
		upper troposphere		2.28085E-14	1.6292E-14
Air	Nickel	upper troposphere	kg	4.20151E-17	3.00112E-17
Air	Load	lower stratosphere +	ka		
All	Leau	upper troposphere	ĸg	1.20043E-17	8.57462E-18
Air	Butadiene	lower stratosphere +	kg	1 12/205 1/	9 1020E 15
		lower stratosphere +		1.134395-14	8.1029E-15
Air	Chromium	upper troposphere	kg	3.00108E-17	2.14366E-17
Air	Zinc	lower stratosphere +	kσ		
/		upper troposphere	סיי	6.00223E-16	4.28736E-16
Air	NIVIVOC, non-methane volatile organic	Iower stratosphere +	kg	4 02716F-13	2 87658F-13
Δ :		lower stratosphere +	he		2.0.0002 10
AIr	Caumium	upper troposphere	кд	6.00223E-18	4.28736E-18
Air	Benzene	lower stratosphere +	kg	1 107455 4 4	0 550045 45
		lower stratosphere +		1.19745E-14	0.00331E-15
Air	Formaldehyde	upper troposphere	kg	9.45346E-14	6.75256E-14

Air	o-Xylene	unspecified	kg	1.73057E-09	3.4245E-09
Air	m-Xylene	unspecified	kg	4.24006E-09	8.39018E-09
Air	Benzaldehyde	unspecified	kg	5.9272E-09	1.17289E-08
Air	Heptane	unspecified	kg	1.29793E-09	2.56838E-09
Air	Methane, non-fossil	unspecified	kg	3.06238E-10	3.34782E-10
Δir	Methane	urban air close to	kσ		
	Wethane	ground	~5	4.32109E-11	2.33537E-09
Air	Chromium IV	ground	kg	2.19143E-17	5.90516E-16
۸ir	o-Yvlene	urban air close to	ka		
	U-Xylene	ground	۳g	1.44702E-12	5.7216E-11
Air	Cyclohexane (for all cycloalkanes)	urban air close to ground	kg	7 98763F-13	2 53783F-11
A :	Mathema shlava difluena UCEC 22	non-urban air or from		7.567652 15	2.557652 11
Alf	Methane, chlorodifiuoro-, HCFC-22	high stacks	кg	1.81919E-09	2.3083E-09
Air	Methane, bromochlorodifluoro-, Halon 1211	non-urban air or from	kg	2 220195 11	2 442025 10
Δir	Nitrate	unspecified	ka	2.230181-11	2.443031-10
Air	Silicon	unspecified	ka	8.58908E-09	7.5842E-09
All	Detection	unspecified	Ng	1.38921E-07	1.2294E-07
Air	Potassium	unspecified	кд	2.10154E-09	1.86526E-09
Air	Calcium	unspecified	kg	1.82921E-08	1.62574E-08
Air	Lithium	ground	kg	2.13863E-15	5.52972E-14
Air	Elemental carbon	urban air close to	ka		
All		ground	ĸg	1.25212E-11	3.2373E-10
Air	Organic carbon	urban air close to ground	kg	3 11422F-11	8 05171F-10
A :	Niturata	urban air close to		0.1111222 11	0.03171210
Alf	Nitrate	ground	кg	1.71911E-13	4.44478E-12
Air	Sulfur oxides	unspecified	kg	1.22107E-09	1.70203E-09
Air	Plutonium-238	non-urban air or from	kBq	2 020455 15	4 5 6 1 1 1 5 1 4
		non-urban air or from		2.92045E-15	4.501112-14
Air	Plutonium-alpha	high stacks	kBq	6.69475E-15	1.04558E-13
Air	lodine-129	non-urban air or from	kBq	2 1 4 0 9 2 5 0 9	2 242525 07
		nign stacks		2.14083E-08	3.34352E-07
Air	Radon-222	density, long-term	kBq	0.847312274	15.00832727
Air	Silver	unspecified	kg	3.84629E-13	3.40931E-13
Air	Manganese	low population	kg		
		density, long-term	110	4.9793E-10	8.81976E-09
Air	Antimony	density, long-term	kg	1.99656E-12	3.53648E-11
۸ir	Sodium	low population	kα		
	50000	density, long-term	۳g	1.30079E-09	2.30407E-08
Air	Lead	low population	kg	1 98446F-10	3 51505F-09
A :	Calaium	low population		1.504402 10	3.513052 05
Alf	Calcium	density, long-term	кg	7.19972E-09	1.27528E-07
Air	Particulates, > 10 um	low population	kg	4 416625 09	7 000105 07
		low population		4.41003E-08	7.823122-07
Air	Phosphorus	density, long-term	kg	3.72086E-11	6.59071E-10
Air	Cadmium	low population	kg	2 025005 42	
		low population		3.02309E-12	J.3383E-11
Air	Magnesium	density, long-term	kg	2.20832E-09	3.91156E-08

Air	Nitrate	non-urban air or from	kg	6 53/2E-11	1 15730F_00
Air	Zinc	low population	ka	0.55422-11	1.13739E-09
Alf	ZITC	density, long-term	кд	1.42179E-10	2.5184E-09
Air	Tungsten	low population density, long-term	kg	8.95427E-12	1.58606E-10
Air	Silver	low population	kg		
		density, long-term	0	3.3155E-12	5.8727E-11
Air	Tin	density, long-term	kg	4.61629E-12	8.17677E-11
Air	Barium	low population	kg	4 202645 40	2 274 025 00
		low population		1.28264E-10	2.2/192E-09
Air	Chlorine	density, long-term	kg	2.74678E-10	4.86534E-09
Air	Nickel	low population	kg	4 065725 11	7 201565 10
	<u></u>	low population		4.06372E-11	7.20150E-10
Air	Silicon	density, long-term	кg	4.9309E-09	8.73403E-08
Air	Iron	low population	kg	2 40797F-08	4 26521F-07
		low population		2.407971-08	4.205211-07
Air	Sulfate	density, long-term	кg	2.03891E-08	3.6115E-07
Air	Chromium VI	low population	kg	1 /278/F-11	2 52012F-10
A in		low population	l.e.	1.427041-11	2.529121-10
Air	Mercury	density, long-term	кд	1.52465E-12	2.70058E-11
Air	Fluorine	low population	kg	1 3/010F-00	2 3808E-U8
A in	N de la la de second	low population	l.e.	1.349192-09	2.38981-08
Air	Molybdenum	density, long-term	кд	3.85397E-11	6.82648E-10
Air	Potassium	low population	kg	3 787/1F-09	6 70850F-08
		low population		3.787411-09	0.708592-08
Air	Vanadium	density, long-term	кg	1.37339E-10	2.43267E-09
Air	Strontium	low population	kg	8 04674F-11	1 /2531F-00
A :	Turceter	non-urban air or from	lie.	0.040742 11	1.425512 05
Air	Tungsten	high stacks	кg	1.96026E-14	3.47218E-13
Air	Aluminium	low population	kg	2 21437F-08	3 92228F-07
Air	Connor	low population	ka	2.214572.00	5.522202 07
Alf	Соррег	density, long-term	кд	1.87556E-10	3.32215E-09
Air	Nitrate	low population density, long-term	kg	1.89976F-10	3.36501F-09
Air	Cobalt	low population	ka		
	Cobart	density, long-term	۳g	1.77875E-11	3.15068E-10
Air	Particulates, < 2.5 um	density, long-term	kg	1.82912E-08	3.15574E-07
Air	Particulates > 2.5 um and < 10 um	low population	kσ		
		density, long-term	۳g	2.64998E-08	4.69387E-07
Air	Beryllium	density, long-term	kg	2.79518E-12	4.95107E-11
Δir	Arsenic	low population	kσ		
7.41		density, long-term	61	1.17374E-10	2.07902E-09
Air	Scandium	density, long-term	kg	7.92574E-11	1.40388E-09
Air	Boron	low population	kg		
		density, long-term	0.1	3.72086E-11	6.59071E-10
Air	Titanium	density, long-term	kg	1.44599E-09	2.56127E-08
Air	Selenium	low population	kg		
1		density, long-term	Ĭ	1.10/18E-11	1.96114E-10

Air	Polychlorinated biphenyls	urban air close to	kg		
	, , ,	ground	Ű	1.31444E-14	3.29524E-15
Air	Chlorinated solvents, unspecified	non-urban air or from	kg	1 59377F-11	1 25151F-11
	Dioxins, measured as 2.3.7.8-	low population		1.555772 11	1.251512 11
Air	tetrachlorodibenzo-p-dioxin	density, long-term	kg	1.80872E-19	3.82371E-19
Air	Methane tetrachloro- R-10	urban air close to	kα		
		ground	۳g	3.09717E-11	4.97733E-11
Air	Chlorosulfonic acid	unspecified	kg	1.91878E-15	1.92132E-15
Air	Uranium alpha	non-urban air or from	kBa		
		high stacks		4.45646E-07	7.89561E-06
Air	Uranium-235	non-urban air or from	kBq	3 87583F-00	6 8652F-08
	Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-, CFC-	non-urban air or from		5.07505E 05	0.00322 00
Air	114	high stacks	kg	1.91394E-10	3.4792E-09
Δir	Ethane 112-trichloro-122-trifluoro- CEC-113	urban air close to	kσ		
/		ground	118	2.60253E-14	8.95962E-15
Air	Arsine	urban air close to	kg	6 20104E 19	2 200525 19
		non-urban air or from		0.391946-10	2.20055E-18
Air	Methomyl	high stacks	kg	1.57929E-21	1.55069E-21
		non-urban air or from			
Air	l'ebuconazole	high stacks	кg	1.0744E-22	1.05494E-22
Air	Ethephon	non-urban air or from	kg		
,		high stacks	118	4.61664E-22	4.53302E-22
Air	Prothioconazol	non-urban air or from	kg	4 021095 22	2 059065 22
		non-urban air or from		4.03196E-23	5.95690E-25
Air	Lambda-cyhalothrin	high stacks	kg	1.46124E-23	1.43478E-23
A	Deve ffine	non-urban air or from			
Air	Parattins	high stacks	кg		
Air	Cyclohexane	non-urban air or from	kg		
	,	high stacks	Ű		
Air	Ethylene glycol monoethyl ether	non-urban air or from	kg		
		non-urban air or from			
Air	Butylcarbamate, iodopropynyl	high stacks	kg		
Δir	2-Methyl-1-propanol	non-urban air or from	kσ		
/		high stacks	110		
Air	1,4-Butanediol	non-urban air or from	kg		
		nigh stacks			
Air	Cypermethrin	high stacks	kg		
Air	Diathylana glygal	non-urban air or from	ka		
All		high stacks	кд		
Air	Monoethanolamine	non-urban air or from	kg		
		high stacks			
Air	Naphtalene	unspecified	kg	5.67262E-13	6.31944E-13
Air	Methane, dichlorodifluoro-, CFC-12	non-urban air or from	kg	4 024025 44	
		high stacks		4.83482E-14	5.93752E-13
Air	Chlorosilane, trimethyl-		kg	5.12284F-12	2.31604F-11
		urban air close to		5.1220 fL 14	2.0100 FL 11
Air	Methyl borate	ground	kg	9.77666E-13	3.49759E-12
Air	Propionic acid	unspecified	kg	4.3756E-13	1.24467E-12
Air	Ethanol	unspecified	kg	1 28107F-12	1 43211F-12
Δir	Sulfuric acid	unspecified	ka	0.000075 40	
/ 301 A !		unspecificu	∿5 L-	9.9080/E-12	2.99005E-11
Air	Ethene	unspecified	кд	1.9346E-11	8.31342E-11
Air	Scandium	unspecified	kg	8.57949E-16	4.06128E-15

Air	Thorium	unspecified	kg	2.55495E-15	1.14789E-14
Air	Uranium	unspecified	kg	4.01865E-15	1.79027E-14
Air	Platinum	non-urban air or from high stacks	kg	4.09458E-15	8.3997E-14
Air	Platinum	urban air close to ground	kg	3.84317E-17	3.94137E-16
Air	Hydrogen sulfide	low population density, long-term	kg	1.3038E-09	5.52929E-09
Air	Methane, bromo-, Halon 1001	urban air close to ground	kg	1.23526E-23	7.44317E-22
Air	Silicon tetrafluoride	non-urban air or from high stacks	kg	8.978E-12	2.22078E-11
Air	Methane, chlorodifluoro-, HCFC-22	unspecified	kg	2.45013E-23	1.47635E-21
Raw	Water, cooling, unspecified natural origin	in water	m3	0.000854672	0.009007448
Raw	Water, salt, sole	in water	m3	1.58112E-05	4.85375E-06
Raw	lodine, 0.03% in water	in water	kg	5.92483E-09	4.87354E-09
Raw	Bromine, 0.23% in water	in water	kg	2.54594E-08	3.22335E-08
Raw	Transformation, to industrial area	land	m2	1.40838E-05	1.89747E-05
Raw	Occupation, industrial area	land	m2* year	0.00012255	0.000715981
Raw	Water, unspecified natural origin	in water	m3	0.000217057	0.000118117
Raw	Transformation, from unspecified	land	m2	8.51084E-06	2.11612E-05
Raw	Gravel, in ground	in ground	kg	0.135741608	0.045410144
Raw	Chromium, 25.5% in chromite, 11.6% in crude ore, in ground	in ground	kg	4.48401E-05	3.40401E-05
Raw	Sylvite, 25 % in sylvinite, in ground	in ground	kg	1.5357E-05	6.70875E-06
Raw	Water, salt, ocean	in water	m3	5.95178E-06	7.39449E-06
Raw	Calcite, in ground	in ground	kg	0.001070258	0.002034657
Raw	Clay, unspecified, in ground	in ground	kg	0.000248871	0.00137064
Raw	Wood, unspecified, standing	biotic	m3	3.15046E-12	5.90266E-11
Raw	Zinc, 9.0% in sulfide, Zn 5.3%, Pb, Ag, Cd, In, in ground	in ground	kg	7.40701E-06	1.05797E-05
Raw	Energy, potential (in hydropower reservoir), converted	in water	MJ	0.010488047	0.1000227
Raw	Energy, gross calorific value, in biomass	biotic	MJ	13.53146091	6.896876
Raw	Oil, crude, in ground	in ground	kg	0.025788285	0.009723513
Raw	Dolomite, in ground	in ground	kg	9.77445E-06	7.47207E-06
Raw	Copper, 0.99% in sulfide, Cu 0.36% and Mo 8.2E-3% in crude ore, in ground	in ground	kg	2.17307E-06	6.93704E-06
Raw	Lead, 5.0% in sulfide, Pb 3.0%, Zn, Ag, Cd, In, in ground	in ground	kg	4.11315E-06	5.49155E-06
Raw	Gas, natural, in ground	in ground	m3	0.001981097	0.009128965
Raw	Peat, in ground	biotic	kg	2.30489E-05	0.000621002
Raw	Fluorspar, 92%, in ground	in ground	kg	1.86883E-06	2.53712E-06
Raw	Granite, in ground	in ground	kg	1.65988E-13	3.99613E-13
Raw	Nickel, 1.98% in silicates, 1.04% in crude ore, in ground	in ground	kg	2.99177E-05	2.11752E-05
Raw	Aluminium, 24% in bauxite, 11% in crude ore, in ground	in ground	kg	3.15371E-09	1.94372E-08
Raw	Cinnabar, in ground	in ground	kg	1.51682E-11	3.18184E-11
Raw	Anhydrite, in ground	in ground	kg	4.97509E-10	1.34111E-08
Raw	Sulfur, in ground	in ground	kg	2.73689E-08	1.19523E-06

Raw	Sand, unspecified, in ground	in ground	kg	3.84646E-08	5.882E-07
Raw	Olivine, in ground	in ground	kg	2.13247E-10	5.16367E-09
Raw	Water, well, in ground	in water	m3	4.72319E-05	0.000180419
Raw	Manganese, 35.7% in sedimentary deposit, 14.2% in crude ore, in ground	in ground	kg	3.29879E-06	7.0541E-06
Raw	Uranium, in ground	in ground	kg	4.52481E-08	8.15885E-07
Raw	Iron, 46% in ore, 25% in crude ore, in ground	in ground	kg	0.002273866	0.00121239
Raw	Clay, bentonite, in ground	in ground	kg	3.18317E-05	1.83056E-05
Raw	Coal, brown, in ground	in ground	kg	0.001373492	0.018691941
Raw	Coal, hard, unspecified, in ground	in ground	kg	0.003976454	0.0209792
Raw	Shale, in ground	in ground	kg	3.26806E-06	1.60282E-05
Raw	Feldspar, in ground	in ground	kg	8.25595E-12	2.82004E-11
Raw	Water, river	in water	m3	0.000112572	0.000534363
Raw	Phosphorus, 18% in apatite, 12% in crude ore, in ground	in ground	kg	9.81089E-07	6.5777E-06
Raw	Sodium chloride, in ground	in ground	kg	3.20849E-05	5.1219E-05
Raw	Barite, 15% in crude ore, in ground	in ground	kg	0.000105138	3.90983E-05
Raw	Magnesite, 60% in crude ore, in ground	in ground	kg	6.16138E-06	1.14133E-05
Raw	Talc, in ground	in ground	kg	2.12538E-08	3.06071E-08
Raw	Sodium nitrate, in ground	in ground	kg	1.00036E-13	1.99566E-11
Raw	TiO2, 95% in rutile, 0.40% in crude ore, in ground	in ground	kg	1.88297E-07	2.62644E-07
Raw	Occupation, construction site	land	m2* year	4.67903E-06	1.79544E-05
Raw	Occupation, traffic area, road network	land	m2* year	0.000525636	0.000510142
Raw	Transformation, to traffic area, road network	land	m2	1.64346E-06	1.31204E-06
Raw	Transformation, to pasture, man made, intensive	land	m2	2.88187E-09	1.54858E-09
Raw	Transformation, from pasture, man made, intensive	land	m2	2.85784E-07	5.62465E-06
Raw	Occupation, pasture, man made, intensive	land	m2* year	5.72943E-08	2.49341E-08
Raw	Carbon dioxide, in air	in air	kg	1.230720192	0.623854645
Raw	Transformation, from annual crop, non- irrigated, intensive	land	m2	0.000141979	0.012603279
Raw	Transformation, from permanent crop, irrigated	land	m2	5.25966E-07	1.70189E-07
Raw	Occupation, permanent crop, irrigated	land	m2* year	1.07128E-05	3.59686E-06
Raw	Transformation, to permanent crop, irrigated	land	m2	5.25966E-07	1.70189E-07
Raw	Transformation, from heterogeneous, agricultural	land	m2	6.30334E-10	1.2725E-08
Raw	Transformation, from pasture, man made	land	m2	9.63338E-07	5.00522E-06
Raw	Transformation, from forest, unspecified	land	m2	2.82023E-05	1.11997E-05
Raw	Chrysotile, in ground	in ground	kg	1.17975E-09	1.82856E-09
Raw	Occupation, mineral extraction site	land	m2* year	5.4706E-05	7.77969E-05
Raw	Transformation, to mineral extraction site	land	m2	3.11497E-05	1.21385E-05
Raw	Transformation, to arable land, unspecified use	land	m2	0.000232543	9.86967E-05
Raw	Occupation, annual crop	land	m2* year	0.000543149	0.000210968

Raw	Transformation, from arable land, unspecified	land	m2	0.000221442	0 407705 05
Raw	use Transformation, to annual crop, greenhouse	land	m2	0.000221442	9.48779E-05
Raw		land	m2*		
			year		
Raw	Transformation, from annual crop, greenhouse	land	m2		
Raw	irrigated, intensive	land	m2	6.01872E-22	3.62664E-20
Raw	Occupation, permanent crop, irrigated, intensive	land	m2* year	4.81877E-20	2.9036E-18
Raw	Transformation, to permanent crop, irrigated, intensive	land	m2	6.01872E-22	3.62664E-20
Raw	Transformation, to annual crop, non-irrigated, intensive	land	m2	0.000542989	0.01275895
Raw	Occupation, annual crop, non-irrigated, intensive	land	m2* year	0.000279395	0.007724215
Raw	Basalt, in ground	in ground	kg	6.2351E-06	2.8277E-05
Raw	Transformation, from mineral extraction site	land	m2	4.14986E-07	1.24912E-06
Raw	Transformation, to unspecified	land	m2	1.33182E-07	2.85654E-07
Raw	Water, lake	in water	m3	4.55573E-06	3.62537E-06
Raw	Transformation, from cropland fallow (non- use)	land	m2	3.24742E-09	1.1887E-08
Raw	Aluminium, in ground	in ground	kg	1.62078E-05	5.93275E-05
Raw	Gangue, bauxite, in ground	in ground	kg	0.000172153	0.000630154
Raw	Transformation, from forest, extensive	land	m2	0.000237536	0.001289836
Raw	Transformation, from annual crop	land	m2	0.000480858	0.000169982
Raw	Occupation, annual crop, irrigated, intensive	land	m2* year	3.52515E-09	1.60707E-08
Raw	Transformation, to annual crop, irrigated, intensive	land	m2	5.55742E-09	2.70891E-08
Raw	Transformation, from annual crop, irrigated, intensive	land	m2		
Raw	Occupation, dump site	land	m2* year	5.95032E-05	0.000241409
Raw	Transformation, to dump site	land	m2	4.2684E-07	1.893E-06
Raw	Colemanite, in ground	in ground	kg	1.66482E-07	3.97591E-05
Raw	Occupation, river, artificial	land	m2* vear	2.62959E-05	6.86383E-05
Raw	Transformation, to river, artificial	land	, m2	2.53094E-07	8.16956E-07
Raw	Transformation, from annual crop, non- irrigated	land	m2	1.65212E-06	9.17462E-06
Raw	Occupation, annual crop, non-irrigated	land	m2* year	1.4027E-09	1.32811E-08
Raw	Transformation, to annual crop, non-irrigated	land	m2	3.82075E-09	3.71808E-08
Raw	Transformation, to annual crop	land	m2	8.19386E-05	2.90973E-05
Raw	Carbon, organic, in soil or biomass stock	in ground	kg	0.000183118	6.42256E-05
Raw	Transformation, from grassland, natural (non- use)	land	m2	3.34078E-08	2.04693E-08
Raw	Transformation, to permanent crop	land	m2	1.42366E-05	4.71782E-06
Raw	Energy, gross calorific value, in biomass, primary forest	biotic	MJ	0.002924304	0.001065819
Raw	Transformation, from forest, primary (non-use)	land	m2	5.31963E-06	2.30663E-06
Raw	Transformation, from forest, secondary (non- use)	land	m2	7.75586E-06	2.6492E-06
Raw	Cobalt, in ground	in ground	kg	6.24924E-10	3.75811E-10

Raw	Water, unspecified natural origin	in ground	m3		
Raw	Transformation, from unspecified, natural (non-use)	land	m2	5.32395E-10	6.26118E-09
Raw	Transformation, to urban, discontinuously built	land	m2	1.19732E-08	3.13133E-06
Raw	Occupation, urban, discontinuously built	land	m2* year	6.0093E-07	8.25165E-05
Raw	Energy, geothermal, converted	in ground	MJ	0.000242011	0.002846142
Raw	Volume occupied, reservoir	in water	m3* year	0.000165742	0.001955401
Raw	Water, turbine use, unspecified natural origin	in water	m3	0.082124221	0.645732236
Raw	Occupation, lake, artificial	land	m2* year	4.40046E-05	0.000375851
Raw	Transformation, to lake, artificial	land	m2	1.10427E-06	3.34928E-06
Raw	Transformation, from shrub land, sclerophyllous	land	m2	5.94788E-07	1.17033E-06
Raw	Energy, solar, converted	in air	MJ	3.3159E-05	2.55838E-05
Raw	Energy, kinetic (in wind), converted	in air	MJ	0.001433368	0.026387584
Raw	Nickel, 1.13% in sulfide, Ni 0.76% and Cu 0.76% in crude ore, in ground	in ground	kg	1.80427E-07	6.06971E-07
Raw	Transformation, to annual crop, non-irrigated, extensive	land	m2	3.23668E-07	6.31402E-06
Raw	Occupation, annual crop, non-irrigated, extensive	land	m2* year	2.90813E-07	5.69133E-06
Raw	Transformation, from annual crop, non- irrigated, extensive	land	m2	2.3109E-07	4.50878E-06
Raw	Occupation, traffic area, rail/road embankment	land	m2* year	0.037835648	0.014255444
Raw	Transformation, to traffic area, rail/road embankment	land	m2	0.000308083	0.00014652
Raw	Diatomite, in ground	in ground	kg	8.26922E-12	1.0152E-11
Raw	Stibnite, in ground	in ground	kg	8.5935E-13	1.05501E-12
Raw	Gallium, 0.014% in bauxite, in ground	in ground	kg	9.00026E-16	6.68598E-14
Raw	Gold, Au 4.9E-5%, in ore, in ground	in ground	kg	2.82322E-10	9.72244E-11
Raw	Gold, Au 7.1E-4%, in ore, in ground	in ground	kg	1.39429E-10	4.80156E-11
Raw	Gold, Au 4.3E-4%, in ore, in ground	in ground	kg	5.62877E-11	1.9384E-11
Raw	Gold, Au 1.4E-4%, in ore, in ground	in ground	kg	2.88393E-10	9.93152E-11
Raw	Gold, Au 6.7E-4%, in ore, in ground	in ground	kg	3.0114E-10	1.03705E-10
Raw	Metamorphous rock, graphite containing, in ground	in ground	kg	2.64749E-08	5.92905E-08
Raw	Occupation, pasture, man made, extensive	land	m2* year	1.1184E-11	6.73905E-10
Raw	Transformation, from pasture, man made, extensive	land	m2	2.23684E-13	1.34783E-11
Raw	Transformation, to pasture, man made, extensive	land	m2	2.23684E-13	1.34783E-11
Raw	Gas, mine, off-gas, process, coal mining	in ground	m3	3.66153E-05	0.000210018
Raw	Occupation, forest, extensive	land	m2* year	0.033179755	0.015698572
Raw	Transformation, to forest, extensive	land	m2	0.000237001	0.000120758
Raw	Wood, hard, standing	biotic	m3	0.000665455	0.000255822
Raw	Transformation, from forest, intensive	land	m2	0.016205442	0.011311259
Raw	Transformation, to forest, intensive	land	m2	0.016206117	0.012421927
Raw	Occupation, forest, intensive	land	m2* year	1.868871637	1.081971727

Raw	Pyrite, in ground	in ground	kg		
Raw	Occupation, permanent crop	land	m2* year	0.000211485	6.71127E-05
Raw	Kaolinite, 24% in crude ore, in ground	in ground	kg	4.2519E-07	6.38613E-07
Raw	Transformation, to permanent crop, non- irrigated, intensive	land	m2		
Raw	Occupation, permanent crop, non-irrigated, intensive	land	m2* year		
Raw	Transformation, from permanent crop, non- irrigated, intensive	land	m2		
Raw	Transformation, from permanent crop	land	m2	1.24263E-05	3.96353E-06
Raw	Lithium, 0.15% in brine, in ground	in ground	kg	7.10597E-10	2.42215E-09
Raw	Oxygen	in air	kg	0.000417482	0.000511792
Raw	Kieserite, 25% in crude ore, in ground	in ground	kg	3.70187E-09	1.40575E-08
Raw	Transformation, to heterogeneous, agricultural	land	m2	1.03672E-06	3.55213E-07
Raw	Transformation, to traffic area, rail network	land	m2	1.6723E-08	4.31218E-08
Raw	Occupation, traffic area, rail network	land	m2* year	7.22988E-06	1.86429E-05
Raw	Transformation, from industrial area	land	m2	1.2989E-05	6.41019E-06
Raw	Rhodium, Rh 1.6E-7%, in mixed ore, in ground	in ground	kg	1.85425E-14	6.81663E-14
Raw	Palladium, Pd 1.6E-6%, in mixed ore, in ground	in ground	kg	1.88939E-13	6.94578E-13
Raw	Platinum, Pt 4.7E-7%, in mixed ore, in ground	in ground	kg	5.46516E-14	2.00911E-13
Raw	Cobalt, Co 5.0E-2%, in mixed ore, in ground	in ground	kg	5.77164E-11	2.12178E-10
Raw	Copper, Cu 6.8E-1%, in mixed ore, in ground	in ground	kg	7.8486E-10	2.88531E-09
Raw	Nickel, Ni 2.5E+0%, in mixed ore, in ground	in ground	kg	2.82742E-09	1.03942E-08
Raw	Gold, Au 1.0E-7%, in mixed ore, in ground	in ground	kg	1.19063E-14	4.37699E-14
Raw	Silver, Ag 1.8E-6%, in mixed ore, in ground	in ground	kg	2.10799E-13	7.74943E-13
Raw	Transformation, to pasture, man made	land	m2	8.80843E-09	4.80466E-08
Raw	Ulexite, in ground	in ground	kg	2.37259E-09	3.15689E-08
Raw	Borax, in ground	in ground	kg	4.51181E-09	5.28227E-08
Raw	Transformation, from seabed, unspecified	land	m2	3.18296E-06	2.43062E-06
Raw	Occupation, seabed, infrastructure	land	m2* year	3.10362E-08	2.54348E-08
Raw	Transformation, to seabed, unspecified	land	m2	1.00105E-11	1.29051E-10
Raw	Transformation, to seabed, infrastructure	land	m2	5.35822E-09	2.96683E-09
Raw	Transformation, from seabed, infrastructure	land	m2	1.00105E-11	1.29051E-10
Raw	Occupation, seabed, drilling and mining	land	m2* year	3.1776E-06	2.42765E-06
Raw	Transformation, to seabed, drilling and mining	land	m2	3.1776E-06	2.42765E-06
Raw	Transformation, from wetland, inland (non- use)	land	m2	9.39758E-10	2.98223E-10
Raw	Transformation, to grassland, natural (non-use)	land	m2	2.83172E-08	3.48219E-07
Raw	Transformation, to forest, secondary (non-use)	land	m2	2.88045E-21	1.73564E-19
Raw	Transformation, from traffic area, road network	land	m2	2.44487E-21	1.47318E-19
Raw	Transformation, to wetland, inland (non-use)	land	m2	9.12142E-21	5.4962E-19
Raw	Transformation, to permanent crop, non- irrigated	land	m2	2.88045E-21	1.73564E-19
Raw	Perlite, in ground	in ground	kg	3.46256E-10	8.13151E-10
Raw	Fluorine, 4.5% in apatite, 3% in crude ore, in ground	in ground	kg	2.45828E-07	1.65068E-06

Raw	Phosphorus, 18% in apatite, 4% in crude ore, in ground	in ground	kg	1.21573E-06	3.03329E-06
Raw	Fluorine, 4.5% in apatite, 1% in crude ore, in ground	in ground	kg	3.03932E-07	7.58322E-07
Raw	Transformation, to forest, unspecified	land	m2	7.48253E-07	9.37964E-07
Raw	Transformation, to shrub land, sclerophyllous	land	m2	5.46065E-07	7.86704E-07
Raw	Transformation, from dump site, sanitary landfill	land	m2	5.09496E-09	2.91918E-08
Raw	Occupation, shrub land, sclerophyllous	land	m2* vear	2.73109E-06	3.93497E-06
Raw	Transformation, to dump site, sanitary landfill	land	m2	5.09496E-09	2.91918E-08
Raw	Transformation, from dump site, inert material landfill	land	m2	4.44299E-07	5.68645E-07
Raw	Transformation, to dump site, inert material landfill	land	m2	4.44299E-07	5.68645E-07
Raw	Transformation, from dump site, residual material landfill	land	m2	9.55401E-08	1.81039E-07
Raw	Transformation, to dump site, residual material landfill	land	m2	9.55407E-08	1.8104E-07
Raw	Transformation, to dump site, slag compartment	land	m2	1.13103E-09	7.82861E-09
Raw	Transformation, from dump site, slag compartment	land	m2	1.13103E-09	7.82861E-09
Raw	Pumice, in ground	in ground	kg		
Raw	Gadolinium, 0.15% in bastnasite, 0.015% in crude ore, in ground	in ground	kg	7.18237E-17	1.96069E-14
Raw	Cerium, 24% in bastnasite, 2.4% in crude ore, in ground	in ground	kg	1.14869E-14	3.13575E-12
Raw	Lanthanum, 7.2% in bastnasite, 0.72% in crude ore, in ground	in ground	kg	3.4436E-15	9.40055E-13
Raw	Europium, 0.06% in bastnasite, 0.006% in crude ore, in ground	in ground	kg	2.87787E-17	7.85617E-15
Raw	Samarium, 0.3% in bastnasite, 0.03% in crude ore, in ground	in ground	kg	1.43401E-16	3.91466E-14
Raw	Neodymium, 4% in bastnasite, 0.4% in crude ore, in ground	in ground	kg	1.89398E-15	5.1703E-13
Raw	Praseodymium, 0.42% in bastnasite, 0.042% in crude ore, in ground	in ground	kg	2.00959E-16	5.48589E-14
Raw	Transformation, to cropland fallow (non-use)	land	m2	6.01224E-09	2.0079E-08
Raw	Sodium sulphate, various forms, in ground	in ground	kg	4.82149E-07	3.10365E-07
Raw	Wood, soft, standing	biotic	m3	0.000598084	0.000402236
Raw	Occupation, annual crop, irrigated	land	m2* year	3.40375E-05	1.24169E-05
Raw	Transformation, to annual crop, irrigated, extensive	land	m2		
Raw	Spodumene, in ground	in ground	kg	4.47214E-10	7.96445E-10
Raw	Steatite, in ground	in ground	kg		
Raw	Occupation, arable land, unspecified use	land	m2* year	1.56722E-22	9.44345E-21
Raw	strontium, in ground	in ground	kg	1.89478E-09	5.715E-09
Raw	Tantalum, 81.9% in tantalite, 1.6E-4% in crude ore, in ground	in ground	kg	6.26324E-09	2.32039E-09
Raw	Tin, 79% in cassiterite, 0.1% in crude ore, in ground	in ground	kg	6.86126E-08	3.5994E-08
Raw	Occupation, grassland, natural (non-use)	land	m2* year	2.12379E-06	2.61164E-05
Raw	Volume occupied, underground deposit	in ground	m3	6.0318E-10	1.2844E-09

Raw	Volume occupied, final repository for radioactive waste	in ground	m3	1.78908E-11	2.79416E-10
Raw	Volume occupied, final repository for low- active radioactive waste	in ground	m3	3.47431E-09	3.07736E-09
Raw	Vermiculite, in ground	in ground	kg		
Raw	Occupation, urban/industrial fallow (non-use)	land	m2* year	1.60535E-09	1.67804E-08
Raw	Transformation, to urban/industrial fallow (non-use)	land	m2	2.14046E-11	2.23739E-10
Raw	Gypsum, in ground	in ground	kg	1.33794E-05	4.01956E-05
Raw	Transformation, from traffic area, rail/road embankment	land	m2	0.000307803	8.77771E-05
Raw	Argon-40	in air	kg	4.21796E-06	2.88406E-06
Raw	Nitrogen	in air	kg	0.000227469	0.000155533
Raw	Xenon, in air	in air	kg	2.49767E-19	1.41508E-13
Raw	Krypton, in air	in air	kg	2.12896E-18	1.20618E-12
Raw	Copper, 1.42% in sulfide, Cu 0.81% and Mo 8.2E-3% in crude ore, in ground	in ground	kg	1.91256E-07	6.10636E-07
Raw	Molybdenum, 0.014% in sulfide, Mo 8.2E-3% and Cu 0.81% in crude ore, in ground	in ground	kg	3.92525E-09	1.25324E-08
Raw	Molybdenum, 0.016% in sulfide, Mo 8.2E-3%	in ground	kg	4 13106F-08	1 25129F-07
Raw	Copper, 0.52% in sulfide, Cu 0.27% and Mo 8.2E-3% in crude ore, in ground	in ground	kg	1.72303E-06	5.21903E-06
Raw	Copper, 2.19% in sulfide, Cu 1.83% and Mo 8.2E-3% in crude ore, in ground	in ground	kg	6.17679E-07	1.9721E-06
Raw	Molybdenum, 0.010% in sulfide, Mo 8.2E-3% and Cu 1.83% in crude ore, in ground	in ground	kg	1.79356E-08	5.72641E-08
Raw	Molybdenum, 0.025% in sulfide, Mo 8.2E-3% and Cu 0.39% in crude ore, in ground	in ground	kg	3.16829E-08	9.1782E-08
Raw	Copper, 1.18% in sulfide, Cu 0.39% and Mo 8.2E-3% in crude ore, in ground	in ground	kg	1.58819E-06	4.60081E-06
Raw	Molybdenum, 0.022% in sulfide, Mo 8.2E-3% and Cu 0.22% in crude ore, in ground	in ground	kg	2.63548E-08	7.52656E-08
Raw	Copper, 0.59% in sulfide, Cu 0.22% and Mo 8.2E-3% in crude ore, in ground	in ground	kg	1.17991E-06	3.36967E-06
Raw	Silver, 3.2ppm in sulfide, Ag 1.2ppm, Cu and Te, in crude ore, in ground	in ground	kg	4.47447E-13	1.6353E-13
Raw	Tellurium, 0.5ppm in sulfide, Te 0.2ppm, Cu and Ag, in crude ore, in ground	in ground	kg	6.71177E-14	2.45298E-14
Raw	Silver, Ag 1.5E-5%, Au 5.4E-4%, in ore, in ground	in ground	kg	4.43029E-14	1.52638E-14
Raw	Silver, Ag 1.5E-4%, Au 6.8E-4%, in ore, in ground	in ground	kg	4.83989E-13	1.6675E-13
Raw	Silver, Ag 7.6E-5%, Au 9.7E-5%, in ore, in ground	in ground	kg	6.11202E-12	2.10579E-12
Raw	Gold, Au 5.4E-4%, Ag 1.5E-5%, in ore, in ground	in ground	kg	1.58681E-12	5.46708E-13
Raw	Gold, Au 6.8E-4%, Ag 1.5E-4%, in ore, in ground	in ground	kg	2.15633E-12	7.42926E-13
Raw	Gold, Au 9.7E-5%, Ag 7.6E-5%, in ore, in ground	in ground	kg	7.80098E-12	2.68769E-12
Raw	Silver, Ag 4.6E-5%, Au 1.3E-4%, in ore, in ground	in ground	kg	3.44625E-11	1.18722E-11
Raw	Gold, Au 1.3E-4%, Ag 4.6E-5%, in ore, in ground	in ground	kg	9.64905E-11	3.32406E-11
Raw	Gold, Au 2.1E-4%, Ag 2.1E-4%, in ore, in ground	in ground	kg	2.08636E-11	7.18975E-12
Raw	Silver, Ag 2.1E-4%, Au 2.1E-4%, in ore, in ground	in ground	kg	2.12444E-11	7.32098E-12
Raw	Zinc, Zn 0.63%, in mixed ore, in ground	in ground	kg	3.54729E-07	1.01658E-06
Raw	Lead, Pb 0.014%, in mixed ore, in ground	in ground	kg	2.73647E-07	7.84217E-07

Raw	Copper, Cu 0.38%, in mixed ore, in ground	in ground	kg	2.26415E-06	6.48859E-06
Raw	Gold, Au 9.7E-4%, in mixed ore, in ground	in ground	kg	5.51664E-11	1.58096E-10
Raw	Silver, Ag 9.7E-4%, in mixed ore, in ground	in ground	kg	2.78997E-09	7.99549E-09
Raw	Gold, Au 1.8E-4%, in mixed ore, in ground	in ground	kg	1.3653E-12	3.00768E-12
Raw	Silver, Ag 5.4E-3%, in mixed ore, in ground	in ground	kg	3.11258E-11	6.85683E-11
Raw	Zinc, Zn 3.1%, in mixed ore, in ground	in ground	kg	1 76722E-08	3 89308F-08
Raw	Lead. Pb 3.6F-1%, in mixed ore, in ground	in ground	kg	2.058945.09	4 525725 00
Raw	Copper Cu 0.2% in mixed ore in ground	in ground	kø	1 142805 00	2 510025 00
Raw	Zirconium, 50% in zircon, 0.39% in crude ore, in ground	in ground	kg	1.14389E-09	2.51993E-09
Raw	TiO2, 54% in ilmenite, 2.6% in crude ore, in ground	in ground	kg	1.2233E-06	1.70698E-06
Raw	Iron, 72% in magnetite, 14% in crude ore, in ground	in ground	kg	1.23571E-07	1.70711E-07
Raw	TiO2, 54% in ilmenite, 18% in crude ore, in ground	in ground	kg	9.26783E-08	1.28033E-07
Raw	Carnallite	in water	kg	1.55919E-07	4.46657E-08
Raw	Molybdenum, 0.11% in sulfide, Mo 4.1E-2% and Cu 0.36% in crude ore, in ground	in ground	kg	4.50171E-08	9.50327E-08
Raw	Copper, 0.97% in sulfide, Cu 0.36% and Mo	in ground	kg	2 0 4 7 2 2 5 0 7	0 222025 07
	4.1E-2% in crude ore, in ground Copper, 1.13% in sulfide, Cu 0.76% and Ni		-	3.94/32E-0/	8.33292E-07
Raw	0.76% in crude ore, in ground	in ground	kg	9.27907E-08	3.12156E-07
Raw	Pt, Pt 2.5E-4%, Pd 7.3E-4%, Rh 2.0E-5%, Ni 2.3E+0%, Cu 3.2E+0% in ore, in ground	in ground	kg	8.7111E-12	2.06917E-11
Raw	Cu, Cu 3.2E+0%, Pt 2.5E-4%, Pd 7.3E-4%, Rh 2.0E-5%, Ni 2.3E+0% in ore, in ground	in ground	kg	1.11552E-07	2.64973E-07
Raw	Rh, Rh 2.0E-5%, Pt 2.5E-4%, Pd 7.3E-4%, Ni 2.3E+0%, Cu 3.2E+0% in ore, in ground	in ground	kg	6.95635E-13	1.65236E-12
Raw	Ni, Ni 2.3E+0%, Pt 2.5E-4%, Pd 7.3E-4%, Rh 2.0E-5%, Cu 3.2E+0% in ore, in ground	in ground	kg	8.05307E-08	1.91287E-07
Raw	Pd, Pd 7.3E-4%, Pt 2.5E-4%, Rh 2.0E-5%, Ni 2.3E+0%, Cu 3.2E+0% in ore, in ground	in ground	kg	2.54126E-11	6.03633E-11
Raw	Pt, Pt 4.8E-4%, Pd 2.0E-4%, Rh 2.4E-5%, Ni 3.7E-2%, Cu 5.2E-2% in ore, in ground	in ground	kg	2.74979E-11	3.09455E-11
Raw	Pd, Pd 2.0E-4%, Pt 4.8E-4%, Rh 2.4E-5%, Ni 3.7E-2%, Cu 5.2E-2% in ore, in ground	in ground	kg	1.16857E-11	1.31508E-11
Raw	Cu, Cu 5.2E-2%, Pt 4.8E-4%, Pd 2.0E-4%, Rh	in ground	kg	4 19955F-09	4 72607F-09
Raw	Rh, Rh 2.4E-5%, Pt 4.8E-4%, Pd 2.0E-4%, Ni 3.7E-2%, Cu 5.2E-2% in ore, in ground	in ground	kg	1.37672E-12	1.54933E-12
Raw	Ni, Ni 3.7E-2%, Pt 4.8E-4%, Pd 2.0E-4%, Rh 2.4E-5%, Cu 5.2E-2% in ore, in ground	in ground	kg	5.98892E-09	6.73978E-09
Raw	Occupation, inland waterbody, unspecified	land	m2* year	1.0851E-08	3.27286E-08
Raw	Transformation, to inland waterbody, unspecified	land	m2	1.0851E-10	3.27286E-10
Raw	Occupation, pasture, man made	land	m2* year		
Raw	Gold, Au 1.1E-4%, Ag 4.2E-3%, in ore, in ground	in ground	kg	5.53527E-11	1.94678E-11
Raw	Silver, Ag 4.2E-3%, Au 1.1E-4%, in ore, in ground	in ground	kg	2.07337E-09	7.29214E-10
Raw	Silver, 0.007% in sulfide, Ag 0.004%, Pb, Zn, Cd, In, in ground	in ground	kg	5.99895E-09	8.00778E-09
Raw	Cadmium, 0.30% in sulfide, Cd 0.18%, Pb, Zn, Ag, In, in ground	in ground	kg	2.4679E-07	3.29431E-07
Raw	Indium, 0.005% in sulfide, In 0.003%, Pb, Zn, Ag, Cd, in ground	in ground	kg	4.1131E-09	5.49044E-09

Raw	Molybdenum, 0.022% in sulfide, Mo 8.2E-3%	in ground	kg	2 027205 00	0 070205 00
Bow	and Cu 0.36% in crude ore, in ground	in ground	ka	2.93738E-08	9.37839E-08
RdW Cail			kg	5.17529E-12	1.59896E-12
Soli		agricultural	Kg	4.10896E-10	7.8783E-09
Soli		agricultural	кд	-5.3342E-10	8.60864E-09
Soil	Pesticides, unspecified	agricultural	Kg	3.61661E-09	1.14101E-09
Soil	2,4-DB	agricultural	kg	6.8523E-19	4.1252E-17
Soil	Chromium	agricultural	kg	5.38303E-10	2.25736E-08
Soil	Copper	agricultural	kg	-3.7618E-09	3.02356E-08
Soil	Cadmium	agricultural	kg	9.36456E-11	2.28403E-09
Soil	Zinc	agricultural	kg	-4.393E-09	1.92563E-07
Soil	Glyphosate	agricultural	kg	3.67749E-08	1.69304E-07
Soil	Asulam	agricultural	kg	2.87513E-17	1.73244E-15
Soil	Mercury	agricultural	kg	2.65286E-12	4.76195E-10
Soil	Azoxystrobin	agricultural	kg	1.08761E-11	3.50767E-12
Soil	Chlorothalonil	agricultural	kg	6.28539E-11	6.83027E-10
Soil	Cyprodinil	agricultural	kg	1.32745E-12	5.73429E-13
Soil	Glufosinate	agricultural	kg	2.52076E-11	1.68717E-09
Soil	Oxyfluorfen	agricultural	kg		
Soil	Rimsulfuron	agricultural	kg	2.61104E-15	1.56356E-13
Soil	Abamectin	agricultural	kg		
Soil	Methoxyfenozide	agricultural	kg		
Soil	Mancozeb	agricultural	kg	8.16328F-11	8.87029F-10
Soil	Myclobutanil	agricultural	kg		
Soil	Sulfur	agricultural	kg	1.59999E-08	4.58501E-07
Soil	2,4-D	agricultural	kg	3 36031E-08	1 1736F-08
Soil	Chlorpyrifos methyl	agricultural	kg	1 03773E-08	3 58329E-09
Soil	Captan	agricultural	kg	1.007702.00	5.565252 65
Soil	Iprodion	agricultural	kg	2 82529F-12	1 90861F-10
Soil	Indoxacarb	agricultural	kg	2.023232 12	1.500012 10
Soil	Metribuzin	agricultural	kg	2 00/075 10	1 651025 10
Soil	Orvzalin	agricultural	kσ	3.904071-10	1.051031-10
Soil	Acetaminrid	agricultural	ka		
Soil	Deltamethrin	agricultural	ka	1 110555 12	7 400105 10
Soil	Dimethoate	agricultural	ka	1.11055E-13	7.49818E-12
Soil		agricultural	×6 kα	3.89324E-15	7.64028E-14
Soil	Poscalid	agricultural	∿6 ka	5.85483E-12	1.94853E-11
Soil	Difenecencerele	agricultural	kg	1.02516E-21	6.1//23E-20
Soli		agricultural	Kg	1.32344E-10	6.15046E-11
5011		agricultural	кg	9.09773E-13	3.31457E-13
5011	Ciomazone	agricultural	кд	2.60369E-12	1.74747E-10
Soil	Cycloxydim	agricultural	Kg		
Soil	Fluazitop	agricultural	kg		
Soil	Rotenone	agricultural	kg		
Soil	Piperonyl butoxide	agricultural	kg		
Soil	Pyrethrin	agricultural	kg		

Soil	Pirimicarb	agricultural	kg	1.00761E-12	4.25427E-13
Soil	Folpet	agricultural	kg		
Soil	Fosetyl-aluminium	agricultural	kg		
Soil	Metalaxyl-M	agricultural	kg		
Soil	Mineral oil	agricultural	kg		
Soil	Bromoxynil	agricultural	kg	1.87003E-14	8.48729E-13
Soil	МСРА	agricultural	kg	3.95337E-14	5.04111E-14
Soil	Propiconazole	agricultural	kg	3.33871E-13	1.32176E-13
Soil	Flurtamone	agricultural	kg	1.73116E-15	2.01984E-14
Soil	Florasulam	agricultural	kg	7.69397E-18	7.71455E-18
Soil	Trinexapac-ethyl	agricultural	kg	2.4295E-15	3.45063E-14
Soil	Diflufenican	agricultural	kg	4.25719E-15	3.48914E-14
Soil	Flufenacet	agricultural	kg	2.23915E-13	8.21319E-14
Soil	Fenpropidin	agricultural	kg	1.22239E-14	3.56068E-13
Soil	Diclofop	agricultural	kg	2.47805E-15	2.38261E-15
Soil	Mefenpyr	agricultural	kg	4.29552E-16	7.30577E-16
Soil	Tribenuron-methyl	agricultural	kg	1.74036E-14	6.42665E-15
Soil	Tralkoxydim	agricultural	kg	5.02874E-17	8.40366E-17
Soil	Fenoxaprop ethyl ester	agricultural	kg	2.06503E-16	1.9855E-16
Soil	Bitertanol	agricultural	kg	2.71723E-17	2.74156E-17
Soil	Tebuconazole	agricultural	kg	4.75712E-12	3.21054E-10
Soil	Picoxystrobin	agricultural	kg	2.67489E-16	2.59806E-16
Soil	Fluroxypyr	agricultural	kg	4.89894E-15	6.76304E-15
Soil	Chlorotoluron	agricultural	kg	1.11654E-15	2.03606E-14
Soil	Fenoxaprop-P ethyl ester	agricultural	kg	8.95823E-16	5.34056E-14
Soil	Clopyralid	agricultural	kg	6.13756E-14	4.07208E-12
Soil	Cyproconazole	agricultural	kg	1.53584E-15	3.14859E-14
Soil	Mefenpyr-diethyl	agricultural	kg	3.9707E-20	2.15456E-18
Soil	Chlormequat	agricultural	kg	2.21148E-12	1.45875E-10
Soil	Isoproturon	agricultural	kg	2.51022E-14	3.76674E-13
Soil	Epoxiconazole	agricultural	kg	3.2079E-15	1.17296E-13
Soil	Metsulfuron-methyl	agricultural	kg	1.59152E-10	5.25813E-11
Soil	Bifenox	agricultural	kg	1.21711E-15	1.16275E-15
Soil	Anthraquinone	agricultural	kg	1.82498E-15	1.75224E-15
Soil	Flusilazole	agricultural	kg	3.32071E-16	6.69787E-15
Soil	Fenpropimorph	agricultural	kg	8.62247E-15	3.24543E-13
Soil	Mepiquat chloride	agricultural	kg	1.88497E-11	5.94707E-12
Soil	Ethephon	agricultural	kg	2.91026E-10	9.21608E-11
Soil	loxynil	agricultural	kg	6.77623E-15	4.42144E-14
Soil	Diclofop-methyl	agricultural	kg	2.80431E-15	2.69349E-15
Soil	Trifloxystrobin	agricultural	kg	2.08465E-14	5.47188E-14
Soil	Metaldehyde	agricultural	kg	2.79063E-11	7.77496E-10
Soil	Imidacloprid	agricultural	kg	8.17608E-10	2.57978E-10
Soil	Fludioxonil	agricultural	kg	9.84686E-14	4.13159E-14
Soil	Cypermethrin	agricultural	kg	3.07651E-09	1.10517E-09

Soil	Kresoxim-methyl	agricultural	kg	2.61903E-15	1.18453E-13
Soil	Carfentrazone ethyl ester	agricultural	kg	2.49818E-17	2.39335E-17
Soil	Acephate	agricultural	kg	7.6347E-10	2.40978E-10
Soil	Metazachlor	agricultural	kg	1.49047E-11	1.00688E-09
Soil	Chlorfenvinphos	agricultural	kg		
Soil	Furathiocarb	agricultural	kg		
Soil	Diazinon	agricultural	kg		
Soil	Linuron	agricultural	kg	2.42972E-09	1.28112E-09
Soil	Ethofumesate	agricultural	kg	2.88511E-13	8.5625E-13
Soil	Alpha-cypermethrin	agricultural	kg		
Soil	Cymoxanil	agricultural	kg		
Soil	Carbon dioxide, to soil or biomass stock	unspecified	kg	3.52771E-06	1.58585E-06
Soil	Pirimiphos methyl	agricultural	kg		
Soil	Thiamethoxam	agricultural	kg	6.84187E-12	2.15856E-12
Soil	Terbufos	agricultural	kg	6.87623E-14	3.55797E-12
Soil	Paraquat	agricultural	kg	6.62972E-11	2.18789E-11
Soil	Hexaconazole	agricultural	kg		
Soil	Triforine	agricultural	kg		
Soil	Arsenic	unspecified	kg	4.26453E-11	3.83247E-11
Soil	Chromium VI	unspecified	kg	1.42589E-09	1.5379E-08
Soil	Copper	unspecified	kg	2.84267E-09	1.13445E-08
Soil	Hydrocarbons, unspecified	unspecified	kg	4.77407E-11	2.9683E-10
Soil	Phenol, pentachloro-	unspecified	kg	5.11512E-14	3.18038E-13
Soil	Fluoride	unspecified	kg	9.68626E-10	1.04474E-08
Soil	Boron	unspecified	kg	2.53432E-10	2.73361E-09
Soil	Copper	industrial	kg	1.22521E-10	4.00709E-11
Soil	Bentazone	agricultural	kg	1.30875E-11	4.68692E-12
Soil	Fluazifop-P-butyl	agricultural	kg	5.45594E-12	1.06434E-10
Soil	Propachlor	agricultural	kg		
Soil	Phenmedipham	agricultural	kg	9.03941E-15	5.3892E-13
Soil	Metamitron	agricultural	kg	7.54974E-14	4.50101E-12
Soil	МСРВ	agricultural	kg	2.20611E-15	1.32921E-13
Soil	Diuron	agricultural	kg	2.66443E-10	3.34861E-10
Soil	Terbacil	agricultural	kg		
Soil	Oils, non-fossil	forestry	kg	2.97682E-05	9.23574E-06
Soil	Zinc	unspecified	kg	8.36466E-08	7.45383E-08
Soil	Malathion	agricultural	kg	3.33934E-10	1.06407E-10
Soil	Flumioxazin	agricultural	kg	6.6782E-12	2.32362E-12
Soil	Tebutam	agricultural	kg	1.27746E-10	2.56528E-09
Soil	Carbetamide	agricultural	kg	4.58457E-11	9.20545E-10
Soil	Napropamide	agricultural	kg	3.73726E-11	1.09416E-09
Soil	Oils, unspecified	unspecified	kg	2.48612E-07	6.4329E-08
Soil	Metolachlor	agricultural	kg	1.71729E-08	3.76276E-07
Soil	Atrazine	agricultural	kg	1.78185E-10	4.15248E-07
Soil	Isoxaflutole	agricultural	kg	2.38754E-14	1.43E-12

Soil	Tefluthrin	agricultural	kg	1.72539E-14	1.03206E-12
Soil	Dicamba	agricultural	kg	2.15326E-13	2.3697E-12
Soil	Carbaryl	agricultural	kg	2.82944E-13	1.97625E-12
Soil	Pendimethalin	agricultural	kg	4.7468E-10	1.62551E-10
Soil	Insecticides, unspecified	agricultural	kg	1.33039E-19	7.92266E-18
Soil	Herbicides, unspecified	agricultural	kg	3.26653E-11	1.16418E-11
Soil	Fungicides, unspecified	agricultural	kg	2.84792E-14	3.267E-14
Soil	Dimethenamid	agricultural	kg	1.46541E-13	6.7538E-12
Soil	Acetochlor	agricultural	kg	1.28983E-12	7.72384E-11
Soil	Permethrin	agricultural	kg	2.82703E-13	2.42984E-13
Soil	Flumetsulam	agricultural	kg	5.95498E-14	4.56848E-13
Soil	Imazapyr	agricultural	kg	1.0444E-16	6.2541E-15
Soil	Fipronil	agricultural	kg	8.35394E-10	2.63934E-10
Soil	Primisulfuron	agricultural	kg	2.61104E-15	1.56356E-13
Soil	Prosulfuron	agricultural	kg	1.13303E-15	3.17067E-14
Soil	Imazethapyr	agricultural	kg	1.32666E-11	4.61995E-12
Soil	Chlorpyrifos	agricultural	kg	2.02384E-09	6.46355E-10
Soil	Diflufenzopyr-sodium	agricultural	kg	4.1775E-15	2.50159E-13
Soil	Cyfluthrin	agricultural	kg	6.36829E-12	2.07709E-12
Soil	Simazine	agricultural	kg	5.27416E-14	3.1583E-12
Soil	Bifenthrin	agricultural	kg	4.69979E-15	2.81435E-13
Soil	Mesotrione	agricultural	kg	3.39438E-14	2.03264E-12
Soil	Nicosulfuron	agricultural	kg	5.74417E-15	3.43975E-13
Soil	Alachlor	agricultural	kg	2.37506E-12	6.89336E-12
Soil	Foramsulfuron	agricultural	kg	7.83291E-16	4.69054E-14
Soil	Tebupirimphos	agricultural	kg	2.19334E-14	1.31342E-12
Soil	Acetamide	agricultural	kg	1.07062E-10	3.51002E-11
Soil	Triclopyr	agricultural	kg	3.52913E-12	6.5591E-11
Soil	Oils, non-fossil	industrial	kg	1.18627E-12	2.40891E-11
Soil	Trifluralin	agricultural	kg	7.28916E-10	1.72378E-09
Soil	Benfluralin	agricultural	kg		
Soil	Dichlorprop	agricultural	kg	2.78763E-19	9.04352E-18
Soil	2,4-D ester	agricultural	kg	2.64237E-19	8.16822E-18
Soil	2,4-D amines	agricultural	kg	6.34305E-19	3.00415E-17
Soil	Mecoprop-P	agricultural	kg	3.50618E-15	1.98599E-14
Soil	Dimethomorph	agricultural	kg		
Soil	Pyrimethanil	agricultural	kg		
Soil	Buprofezin	agricultural	kg		
Soil	Methiocarb	agricultural	kg		
Soil	Spinosad	agricultural	kg	2.76449E-22	1.66577E-20
Soil	Kaolin	agricultural	kg		
Soil	Carbendazim	agricultural	kg	7.29281E-11	3.13979E-10
Soil	Aldicarb	agricultural	kg	2.56134E-09	8.08085E-10
Soil	Diflubenzuron	agricultural	kg	1.75463E-08	6.05876E-09
Soil	Oxamyl	agricultural	kg		

Soil	Phosmet	agricultural	kg		
Soil	Norflurazon	agricultural	kg		
Soil	Fenbuconazole	agricultural	kg	9.50781E-17	1.9174E-15
Soil	Fosetyl	agricultural	kg		
Soil	Metalaxil	agricultural	kg	4.00964E-11	1.27242E-11
Soil	Carbofuran	agricultural	kg	1.07828E-08	3.42662E-09
Soil	Metam-sodium	agricultural	kg	1.05879E-10	3.35998E-11
Soil	Diquat	agricultural	kg	3.13253E-12	9.94077E-13
Soil	Thiram	agricultural	kg	2.28182E-10	7.24114E-11
Soil	Benomyl	agricultural	kg	1.96677E-11	6.24136E-12
Soil	Oils, unspecified	industrial	kg	1.40383E-08	5.2107E-08
Soil	Cyhalothrin	agricultural	kg		
Soil	Oils, unspecified	forestry	kg	8.83742E-05	2.69487E-05
Soil	Bromacil	agricultural	kg		
Soil	Ametryn	agricultural	kg		
Soil	Hydramethylnon	agricultural	kg		
Soil	Hexazinone	agricultural	kg		
Soil	Fenamiphos	agricultural	kg		
Soil	Quizalofop-p-ethyl	agricultural	kg		
Soil	Fenpiclonil	agricultural	kg	2.47528E-12	2.68814E-11
Soil	Orbencarb	agricultural	kg	1.55217E-11	1.68661E-10
Soil	Teflubenzuron	agricultural	kg	1.91623E-13	2.08219E-12
Soil	Mandipropamid	agricultural	kg		
Soil	Endosulfan	agricultural	kg	5.31782E-09	1.83625E-09
Soil	Esfenvalerate	agricultural	kg	3.16971E-13	1.15767E-13
Soil	Flutolanil	agricultural	kg		
Soil	ТСМТВ	agricultural	kg		
Soil	Pymetrozine	agricultural	kg		
Soil	Trichlorfon	agricultural	kg		
Soil	Fentin hydroxide	agricultural	kg		
Soil	Sethoxydim	agricultural	kg	8.78448E-13	4.42939E-11
Soil	Quintozene	agricultural	kg		
Soil	Metiram	agricultural	kg		
Soil	Propargite	agricultural	kg		
Soil	Propamocarb HCl	agricultural	kg		
Soil	Dichlorprop-P	agricultural	kg	1.65356E-15	3.33467E-14
Soil	Endothall	agricultural	kg	6.47992E-14	4.37748E-12
Soil	Sulfuric acid	agricultural	kg	7.11001E-16	2.44774E-16
Soil	Phorate	agricultural	kg		
Soil	EPTC	agricultural	kg		
Soil	Ethoprop	agricultural	kg		
Soil	Maneb	agricultural	kg		
Soil	Maleic hydrazide	agricultural	kg		
Soil	Clethodim	agricultural	kg	1.83388E-11	2.86486E-11
Soil	Azinphos-methyl	agricultural	kg		

Soil	Aclonifen	agricultural	kg	4.19261E-14	1.44771E-14
Soil	Pronamide	agricultural	kg		
Soil	Oils, non-fossil	unspecified	kg	4.734E-09	1.2207E-08
Soil	Glyphosate	industrial	kg	4.4008E-10	1.13479E-09
Soil	Spiroxamine	agricultural	kg	1.10976E-12	7.46545E-11
Soil	Prothioconazol	agricultural	kg	3.01022E-12	2.03354E-10
Soil	Metconazole	agricultural	kg	6.09968E-13	4.11913E-11
Soil	Quizalofop ethyl ester	agricultural	kg	2.33173E-13	8.76306E-12
Soil	Procymidone	agricultural	kg	1.00905E-12	6.81657E-11
Soil	Vinclozolin	agricultural	kg	3.36345E-13	2.27217E-11
Soil	Dimethachlor	agricultural	kg	6.3167E-12	4.26722E-10
Soil	Quizalofop-P	agricultural	kg	1.45153E-13	9.80573E-12
Soil	Parathion	agricultural	kg	8.50729E-14	2.86307E-12
Soil	Ethalfluralin	agricultural	kg	2.10593E-12	1.42265E-10
Soil	Molinate	agricultural	kg	9.65054E-14	9.17826E-14
Soil	Thiobencarb	agricultural	kg	5.34946E-14	5.08766E-14
Soil	Quinclorac	agricultural	kg	4.1746E-15	3.9703E-15
Soil	Bensulfuron methyl ester	agricultural	kg	1.13315E-15	1.0777E-15
Soil	Fenoxaprop	agricultural	kg	1.03107E-11	3.56844E-12
Soil	Propanil	agricultural	kg	2.49948E-13	2.37716E-13
Soil	Halosulfuron-methyl	agricultural	kg	3.22045E-16	3.06285E-16
Soil	Chloride	unspecified	kg	6.34728E-07	2.91599E-07
Soil	Sodium	unspecified	kg	4.29176E-07	2.00232E-07
Soil	Iron	unspecified	kg	3.11076E-07	7.51976E-07
Soil	Monocrotophos	agricultural	kg	2.14362E-09	7.40196E-10
Soil	Chlorimuron-ethyl	agricultural	kg	1.20559E-11	4.1728E-12
Soil	Thifensulfuron-methyl	agricultural	kg	3.0656E-14	1.14158E-14
Soil	Imazamox	agricultural	kg	5.09127E-12	1.76066E-12
Soil	Sulfentrazone	agricultural	kg	6.16328E-11	2.13237E-11
Soil	Cloransulam-methyl	agricultural	kg	5.22193E-12	1.80829E-12
Soil	Thiodicarb	agricultural	kg	1.08831E-13	3.97016E-14
Soil	Imazaquin	agricultural	kg	4.26197E-13	1.55476E-13
Soil	Acifluorfen	agricultural	kg	3.04025E-13	1.10908E-13
Soil	Carfentrazone-ethyl	agricultural	kg	2.79049E-14	1.01797E-14
Soil	Methyl parathion	agricultural	kg	3.43746E-13	1.25398E-13
Soil	Lactofen	agricultural	kg	4.29206E-13	1.56574E-13
Soil	Flumiclorac-pentyl	agricultural	kg	8.93518E-14	3.25955E-14
Soil	Zeta-cypermethrin	agricultural	kg	1.28591E-13	4.691E-14
Soil	Cyhalothrin, gamma-	agricultural	kg	6.08451E-13	2.21963E-13
Soil	Fomesafen	agricultural	kg	4.12717E-11	1.43167E-11
Soil	Lenacil	agricultural	kg	1.4512E-15	8.65154E-14
Soil	Acrinathrin	agricultural	kg	3.59959E-23	2.16897E-21
Soil	Chloropicrin	agricultural	kg	3.83957E-19	2.31357E-17
Soil	Boron	agricultural	kg	1.04988E-11	2.98465E-11
Soil	Desmedipham	agricultural	kg	2.67182E-15	1.59284E-13

Soil	Aldrin	agricultural	kg	3.89548E-10	2.15948E-09
Soil	Arsenic	agricultural	kg	3.69702E-11	4.92026E-10
Soil	Quinmerac	agricultural	kg		
Soil	tau-Fluvalinate	agricultural	kg		
Soil	Flurochloridone	agricultural	kg		
Soil	Chromium	unspecified	kg	2.67298E-10	2.37233E-10
Soil	Nickel	unspecified	kg	3.36205E-10	2.999E-10
Soil	Lead	unspecified	kg	1.97748E-09	1.75634E-09
Soil	Cadmium	unspecified	kg	5.27693E-11	4.68468E-11
Soil	Iron	industrial	kg	1.31596E-06	5.04805E-07
Soil	Lead	industrial	kg	4.32793E-10	1.17017E-10
Soil	Nickel	industrial	kg	1.44579E-10	3.90908E-11
Soil	Zinc	industrial	kg	1.08335E-08	4.04664E-09
Soil	Cadmium	industrial	kg	9.63861E-12	2.60605E-12
Soil	Chromium	industrial	kg	3.28989E-09	1.26201E-09
Soil	Aluminium	agricultural	kg	3.2316E-08	1.06025E-06
Soil	Carbon	agricultural	kg	2.85315E-06	2.87663E-06
Soil	Iron	agricultural	kg	6.91439E-08	1.6648E-06
Soil	Aluminium	industrial	kg	6.57978E-07	2.52403E-07
Soil	Strontium	industrial	kg	6.57978E-09	2.52403E-09
Soil	Arsenic	industrial	kg	2.63191E-10	1.00961E-10
Soil	Chloride	industrial	kg	2.30292E-06	8.83409E-07
Soil	Sulfur	industrial	kg	3.95268E-07	1.51572E-07
Soil	Barium	industrial	kg	3.28989E-07	1.26201E-07
Soil	Manganese	industrial	kg	2.63191E-08	1.00961E-08
Soil	Magnesium	industrial	kg	5.26382E-07	2.01922E-07
Soil	Fluoride	industrial	kg	3.28989E-08	1.26201E-08
Soil	Carbon	industrial	kg	2.05567E-06	7.79308E-07
Soil	Potassium	industrial	kg	2.30292E-07	8.83409E-08
Soil	Sodium	industrial	kg	1.31596E-06	5.04805E-07
Soil	Phosphorus	industrial	kg	3.33506E-08	1.27423E-08
Soil	Silicon	industrial	kg	6.57978E-08	2.52403E-08
Soil	Boron	industrial	kg	6.57978E-09	2.52403E-09
Soil	Calcium	industrial	kg	2.63853E-06	1.0114E-06
Soil	Strontium	agricultural	kg	1.2577E-10	3.08225E-11
Soil	Calcium	agricultural	kg	3.81718E-07	1.40573E-05
Soil	Magnesium	agricultural	kg	4.29117E-08	1.58881E-06
Soil	Barium	agricultural	kg	3.5317E-11	2.89367E-10
Soil	Manganese	agricultural	kg	2.581E-08	9.8923E-07
Soil	Mercury	industrial	kg	1.91827E-12	5.18655E-13
Soil	Cobalt	industrial	kg	1.91827E-11	5.18655E-12
Soil	Nitrogen	industrial	kg	9.63861E-10	2.60605E-10
Soil	Nitrate	unspecified	kg	1.68154E-08	1.48586E-08
Soil	Vanadium	unspecified	kg	1.12149E-11	9.90984E-12
Soil	Molybdenum	unspecified	kg	3.14073E-11	2.77524E-11

Soil	Cobalt	unspecified	kg	1.43139E-10	1.26483E-10
Soil	Potassium	unspecified	kg	3.14073E-09	2.77524E-09
Soil	Aluminium	unspecified	kg	3.62712E-09	3.20504E-09
Soil	Sulfur	unspecified	kg	6.58719E-09	5.82065E-09
Soil	PAH, polycyclic aromatic hydrocarbons	unspecified	kg	4.37756E-11	3.86814E-11
Soil	Chlorine	unspecified	kg	5.82285E-09	5.14526E-09
Soil	Manganese	unspecified	kg	5.71168E-10	5.04702E-10
Soil	Strontium	unspecified	kg	1.61205E-10	1.42446E-10
Soil	Lithium	unspecified	kg	1.45919E-11	1.28938E-11
Soil	Selenium	unspecified	kg	2.23742E-10	1.97706E-10
Soil	Antimony	unspecified	kg	2.23742E-11	1.97706E-11
Soil	Silver	unspecified	kg	1.12149E-12	9.90984E-13
Soil	Silicon	unspecified	kg	2.01507E-08	1.78058E-08
Soil	Bromine	unspecified	kg	2.23742E-10	1.97706E-10
Soil	Sulfate	unspecified	kg	2.8072E-08	2.48053E-08
Soil	Titanium	unspecified	kg	4.23859E-09	3.74536E-09
Soil	Calcium	unspecified	kg	9.99196E-09	8.82921E-09
Soil	Barium	unspecified	kg	1.4036E-09	1.24026E-09
Soil	Elemental carbon	unspecified	kg	4.28467E-11	1.10777E-09
Soil	Organic carbon	unspecified	kg	1.01336E-10	2.61997E-09
Soil	Silver	agricultural	kg	4.6078E-20	8.21056E-20
Soil	Cobalt	agricultural	kg	2.53049E-11	8.92176E-10
Soil	Tin	agricultural	kg	5.42424E-12	3.34669E-11
Soil	Antimony	agricultural	kg	5.36926E-14	1.47192E-11
Soil	Titanium	agricultural	kg	1.76879E-09	6.82467E-08
Soil	Silicon	agricultural	kg	1.13853E-07	4.09164E-06
Soil	Molybdenum	agricultural	kg	6.7457E-12	1.85605E-10
Soil	Potassium	agricultural	kg	6.98544E-08	2.69525E-06
Soil	Vanadium	agricultural	kg	5.06284E-11	1.95344E-09
Soil	Phosphorus	agricultural	kg	1.2561E-08	4.8465E-07
Soil	Chloride	agricultural	kg	4.10155E-09	1.58253E-07
Soil	Methomyl	agricultural	kg	4.97636E-21	4.88624E-21
Soil	Prochloraz	agricultural	kg	1.47295E-15	1.85596E-14
Soil	Chloridazon	agricultural	kg	7.34091E-15	6.99099E-15
Soil	Prohexadione-calcium	agricultural	kg	8.54073E-18	8.13362E-18
Soil	Triadimenol	agricultural	kg	2.9666E-16	4.12168E-15
Soil	Cloquintocet-mexyl	agricultural	kg	4.05351E-16	3.86029E-16
Soil	Flupyrsulfuron-methyl	agricultural	kg	1.10027E-17	1.04782E-17
Soil	Mecoprop	agricultural	kg	6.47395E-15	6.16536E-15
Soil	Propoxycarbazone-sodium (prop)	agricultural	kg	4.73498E-17	4.50928E-17
Soil	Mesosulfuron-methyl (prop)	agricultural	kg	3.78731E-17	3.60678E-17
Soil	Bromuconazole	agricultural	kg	8.22561E-17	7.83351E-17
Soil	Quinoxyfen	agricultural	kg	4.14072E-16	3.94334E-16
Soil	Silthiofam	agricultural	kg	6.36345E-16	6.06012E-16
Soil	Clodinafop-propargyl	agricultural	kg	1.67808E-15	1.59809E-15

Soil	Choline chloride	agricultural	kg	1.56329E-14	1.48878E-14
Soil	Metosulam	agricultural	kg	2.16935E-17	2.06594E-17
Soil	lodosulfuron-methyl-sodium	agricultural	kg	6.86567E-18	6.5384E-18
Soil	Tri-allate	agricultural	kg	3.82712E-16	3.64469E-16
Soil	Chlorsulfuron	agricultural	kg	1.13396E-16	1.07991E-16
Soil	Flucarbazone sodium salt	agricultural	kg	7.08715E-18	6.74933E-18
Soil	Picloram	agricultural	kg	1.41743E-17	1.34987E-17
Soil	Triasulfuron	agricultural	kg	1.13396E-16	1.07991E-16
Soil	Sulfosulfuron	agricultural	kg	1.7009E-16	1.61982E-16
Soil	Sulfosate	agricultural	kg	2.4496E-10	8.4585E-11
Soil	Prometryn	agricultural	kg	5.95551E-11	1.87892E-11
Soil	Dicrotophos	agricultural	kg	1.39761E-10	4.40935E-11
Soil	Tribufos	agricultural	kg	6.52939E-11	2.05998E-11
Soil	Pyrithiobac sodium salt	agricultural	kg	3.98527E-12	1.25732E-12
Soil	MSMA	agricultural	kg	7.13052E-11	2.24963E-11
Soil	Thidiazuron	agricultural	kg	6.98156E-12	2.20263E-12
Soil	Profenofos	agricultural	kg	1.10961E-10	3.50075E-11
Soil	Oils, unspecified	agricultural	kg	3.14831E-13	3.11087E-12
Soil	Fluquinconazole	agricultural	kg	8.2678E-17	1.66733E-15
Soil	Tribenuron	agricultural	kg	2.07797E-17	4.19055E-16
Soil	Oxydemeton-methyl	agricultural	kg	3.85611E-16	7.77647E-15
Soil	Cinidon-ethyl	agricultural	kg	4.40955E-17	8.89256E-16
Soil	lodosulfuron	agricultural	kg	5.51187E-18	1.11156E-16
Soil	Amidosulfuron	agricultural	kg	3.63784E-17	7.33629E-16
Soil	Dithianon	agricultural	kg	3.63784E-16	7.33629E-15
Water	Sulfur	surface water	kg	3.26392E-07	1.1572E-07
Water	Methyl amine	surface water	kg	7.93425E-12	3.91006E-12
Water	Propanol	surface water	kg	8.28032E-12	8.93935E-12
Water	Sodium, ion	surface water	kg	0.000384727	0.000130772
Water	Formate	surface water	kg	8.19476E-10	8.02461E-10
Water	Methane, dichloro-, HCC-30	surface water	kg	1.65708E-08	5.83949E-09
Water	Dimethylamine	surface water	kg	3.94211E-11	2.64311E-11
Water	Sulfate	surface water	kg	1.37852E-05	8.11545E-05
Water	Chloroacetic acid	surface water	kg	3.82658E-09	7.48618E-08
Water	Propene	surface water	kg	7.51069E-09	2.99314E-08
Water	Acetic acid	surface water	kg	2.98252E-09	3.49378E-08
Water	t-Butylamine	surface water	kg	6.38104E-12	6.24852E-12
Water	Calcium, ion	surface water	kg	4.06958E-05	2.64534E-05
Water	Ethanol	surface water	kg	1.61499E-09	2.15942E-09
Water	Water	unspecified	m3	0.083030459	0.654085427
Water	o-Dichlorobenzene	surface water	kg	1.44161E-09	2.64496E-09
Water	Chlorosulfonic acid	surface water	kg	7.7594E-12	3.89817E-12
Water	Toluene	surface water	kg	1.40763E-07	4.36561E-08
Water	Carbonate	surface water	kg	2.374E-08	1.26735E-07
Water	Methanol	surface water	kg	9.58223E-10	1.25208E-09

Water	Ammonium, ion	surface water	kg	1.86074E-07	9.28578E-07
Water	Nitrate	surface water	kg	7.79498E-07	4.45559E-06
Water	Acetonitrile	surface water	kg	2.1338E-12	1.07198E-12
Water	Fluoride	surface water	kg	7.45425E-08	1.38815E-07
Water	Chloride	surface water	kg	0.000639832	0.000233836
Water	Dipropylamine	surface water	kg	1.12825E-11	5.29245E-12
Water	Aniline	surface water	kg	4.22139E-11	2.08667E-11
Water	Toluene, 2-chloro	surface water	kg	1.71544E-11	1.12867E-11
Water	Phosphate	surface water	kg	7.00549E-08	9.06974E-07
Water	Lactic acid	surface water	kg	8.83809E-12	4.1458E-12
Water	Diethylamine	surface water	kg	1.95716E-11	1.10872E-11
Water	Iodide	surface water	kg	1.2687E-07	4.58133E-08
Water	Acetaldehyde	surface water	kg	1.09768E-09	3.80183E-09
Water	Ethyl acetate	surface water	kg	1.9135E-11	1.09915E-11
Water	Sulfide	surface water	kg	7.10851E-09	5.29938E-09
Water	Bromide	surface water	kg	2.35951E-08	2.77065E-08
Water	TOC, Total Organic Carbon	surface water	kg	7.31827E-05	2.45425E-05
Water	BOD5, Biological Oxygen Demand	surface water	kg	0.000231222	7.43094E-05
Water	Phenol	surface water	kg	1.01034E-07	4.23631E-08
Water	DOC, Dissolved Organic Carbon	surface water	kg	7.35801E-05	2.45591E-05
Water	COD, Chemical Oxygen Demand	surface water	kg	0.000240658	8.04725E-05
Water	2-Methyl-2-butene	surface water	kg	5.56941E-15	1.89839E-14
Water	3-Methyl-1-butanol	surface water	kg		
Water	Methyl pentane	surface water	kg		
Water	4-Methyl-2-pentanone	surface water	kg		
Water	Diisobutyl ketone	surface water	kg		
Water	4-Methyl-2-pentanol	surface water	kg	1.22682E-19	2.16161E-19
Water	Acetone	surface water	kg	2.19505E-11	3.69154E-10
Water	2-Propanol	surface water	kg	7.58654E-12	1.32641E-09
Water	Butene	surface water	kg	3.61053E-10	1.3007E-10
Water	Chromium, ion	surface water	kg	1.98119E-09	3.90385E-09
Water	Hydrocarbons, unspecified	surface water	kg	1.03047E-08	5.38161E-08
Water	Suspended solids, unspecified	surface water	kg	8.75825E-06	3.76286E-06
Water	Dissolved solids	surface water	kg	9.31591E-07	2.07071E-06
Water	Ethylene oxide	surface water	kg	3.0759E-11	2.30285E-10
Water	Propylene oxide	surface water	kg	3.4153E-09	1.60169E-08
Water	Formaldehyde	surface water	kg	1.50087E-10	1.52867E-09
Water	2-Aminopropanol	surface water	kg	2.15092E-12	3.14777E-12
Water	Chloramine	surface water	kg	5.63325E-11	9.72054E-11
Water	Chloroacetyl chloride	surface water	kg	2.86861E-12	4.19813E-12
Water	Propionic acid	surface water	kg	3.20865E-11	1.87844E-11
Water	Cadmium, ion	surface water	kg	2.2977E-10	3.54607E-10
Water	Potassium, ion	surface water	kg	6.43893E-06	8.64465E-06
Water	Strontium	surface water	kg	2.24489E-06	6.8669E-07
Water	Ethene, chloro-	surface water	kg	5.68743E-12	1.33339E-11

Water	Arsenic, ion	surface water	kg	1.46902E-08	6.11877E-08
Water	Chlorine	surface water	kg	2.43784E-11	1.50712E-10
Water	Bromate	surface water	kg	3.36657E-09	5.49506E-09
Water	Aluminium	surface water	kg	6.61022E-08	2.73211E-07
Water	Cyanide	surface water	kg	7.61804E-09	1.31105E-08
Water	Ethane, 1,2-dichloro-	surface water	kg	1.07912E-10	3.13516E-10
Water	Silicon	surface water	kg	5.00132E-07	9.57604E-07
Water	AOX, Adsorbable Organic Halogen as Cl	surface water	kg	2.72972E-09	6.51168E-09
Water	Benzene	surface water	kg	8.63042E-08	5.52382E-08
Water	Mercury	surface water	kg	3.98929E-11	1.19342E-10
Water	Oils, unspecified	surface water	kg	7.14612E-05	2.18665E-05
Water	Lead	surface water	kg	3.83866E-09	9.91275E-09
Water	Chlorate	surface water	kg	2.70782E-08	4.41617E-08
Water	Tin, ion	surface water	kg	4.96165E-11	3.78146E-10
Water	Zinc, ion	surface water	kg	1.02057E-07	4.04728E-08
Water	Acidity, unspecified	surface water	kg	4.61354E-10	1.09368E-08
Water	Iron, ion	surface water	kg	1.55226E-07	1.54245E-07
Water	Magnesium	surface water	kg	6.63924E-06	3.144E-06
Water	Chlorinated solvents, unspecified	surface water	kg	5.48177E-10	8.24991E-10
Water	Manganese	surface water	kg	5.40474E-08	5.16373E-08
Water	Nickel, ion	surface water	kg	3.22308E-09	5.78158E-09
Water	Copper, ion	surface water	kg	4.3182E-09	5.90835E-09
Water	Phosphorus	surface water	kg	5.27582E-08	1.91295E-07
Water	Nitrogen	surface water	kg	1.10578E-07	4.37878E-07
Water	Molybdenum	surface water	kg	4.86464E-09	3.53927E-08
Water	COD, Chemical Oxygen Demand	unspecified	kg	7.93925E-07	1.18323E-06
Water	TOC, Total Organic Carbon	unspecified	kg	8.55472E-07	5.85119E-07
Water	DOC, Dissolved Organic Carbon	unspecified	kg	9.48778E-08	3.45157E-07
Water	BOD5, Biological Oxygen Demand	unspecified	kg	6.75228E-07	7.93819E-07
Water	Water	ground-	m3	1.40746E-05	0.000156003
Water	2,4-DB	ground-	kg	1.82297E-20	1.09729E-18
Water	2,4-DB	surface water	kg	7.51613E-23	4.52418E-21
Water	Glyphosate	ground-	kg	1.08797E-11	3.87565E-12
Water	Glyphosate	surface water	kg	7.09766E-14	2.52734E-14
Water	Water	surface water	m3	1.41511E-05	0.000139
Water	Nitrate	ground-	kg	1.71742E-05	0.00023712
Water	Copper, ion	ground-	kg	2.47232E-09	5.65441E-09
Water	Cadmium, ion	ground-	kg	1.32062E-10	3.141E-10
Water	Nickel, ion	ground-	kg	1.98614E-09	1.21397E-08
Water	Lead	ground-	kg	2.15188E-09	2.01839E-09
Water	Chromium, ion	ground-	kg	6.51752E-10	1.28351E-08
Water	Phosphate	ground-	kg	4.23114E-06	2.31181E-05
Water	Zinc, ion	ground-	kg	8.74167E-08	1.05618E-07
Water	Mercury	ground-	kg	6.28496E-12	3.81922E-11
Water	Paraffins	surface water	kg		

Water	Fluosilicic acid	surface water	kg	5.98999E-10	2.44961E-09
Water	Sodium, ion	unspecified	kg	5.59162E-06	2.9189E-05
Water	Mercury	unspecified	kg	3.75046E-11	4.01169E-11
Water	Suspended solids, unspecified	unspecified	kg	0.000282207	0.000103127
Water	Water	ocean	m3	3.19061E-07	7.16324E-07
Water	Oils, unspecified	unspecified	kg	5.55008E-08	1.43563E-07
Water	PAH, polycyclic aromatic hydrocarbons	unspecified	kg	5.31633E-12	2.17379E-11
Water	Fluoride	unspecified	kg	2.02302E-09	3.58029E-09
Water	Ammonium, ion	unspecified	kg	6.89425E-09	3.54807E-08
Water	Chloride	unspecified	kg	1.9754E-05	0.000103191
Water	Nitrobenzene	surface water	kg	9.84664E-11	5.03661E-11
Water	Zinc, ion	unspecified	kg	4.24451E-09	4.70669E-09
Water	Sulfate	unspecified	kg	2.54619E-07	5.00444E-07
Water	Iron, ion	unspecified	kg	1.11597E-07	2.45636E-07
Water	Lead	unspecified	kg	1.07656E-09	1.90444E-09
Water	Cadmium, ion	unspecified	kg	2.82012E-10	3.29352E-10
Water	Manganese	unspecified	kg	1.00641E-09	3.58656E-09
Water	Aluminium	unspecified	kg	1.02587E-08	5.28862E-08
Water	Nickel, ion	unspecified	kg	1.8597E-09	2.30237E-09
Water	Tin, ion	unspecified	kg	5.95569E-11	3.12797E-10
Water	Copper, ion	unspecified	kg	1.4483E-09	1.64967E-09
Water	Antimony	surface water	kg	1.54373E-09	1.75514E-08
Water	Hydrocarbons, aromatic	surface water	kg	6.51167E-07	1.98811E-07
Water	Ethane, 1,1,1-trichloro-, HCFC-140	surface water	kg	8.19372E-22	4.64223E-16
Water	Boron	surface water	kg	9.96571E-09	5.34496E-08
Water	Chromium VI	surface water	kg	3.77312E-08	6.20203E-08
Water	Solids, inorganic	surface water	kg	8.54584E-07	8.28338E-07
Water	Ethylamine	surface water	kg	7.28698E-12	4.73303E-10
Water	Isopropylamine	surface water	kg	3.28855E-12	5.74943E-10
Water	МСРА	ground-	kg	2.91267E-22	1.49034E-20
Water	МСРА	surface water	kg	1.62084E-20	6.84466E-19
Water	Propiconazole	surface water	kg	1.02486E-25	1.51154E-25
Water	Propiconazole	ground-	kg	1.07235E-21	1.58152E-21
Water	Bromoxynil	surface water	kg	7.0916E-23	4.26097E-21
Water	Bromoxynil	ground-	kg	1.85798E-20	1.04141E-18
Water	Benzal chloride	surface water	kg		
Water	Benzene, chloro-	surface water	kg	2.33364E-09	4.14419E-09
Water	Chloroform	surface water	kg	1.89792E-12	1.71401E-12
Water	Butanol	surface water	kg	2.18728E-10	2.48943E-10
Water	Borate	surface water	kg	2.54745E-10	4.71491E-10
Water	Methyl acetate	surface water	kg	8.7414E-13	7.97447E-13
Water	2-Methyl-1-propanol	surface water	kg	6.48095E-12	1.09646E-11
Water	Benzyl alcohol	surface water	kg		
Water	m-Xylene	surface water	kg	2.19962E-12	7.12952E-12
Water	Dichromate	surface water	kg	1.57101E-12	2.33604E-12

Water	Arsenic, ion	unspecified	kg	2.76531E-10	7.10829E-10
Water	Chromium, ion	unspecified	kg	1.04436E-09	2.53312E-09
Water	Phosphorus	unspecified	kg	3.27747E-10	3.59941E-10
Water	Cobalt	surface water	kg	9.38397E-10	1.60584E-09
Water	BOD5, Biological Oxygen Demand	ground-	kg	3.15753E-10	1.61025E-09
Water	TOC, Total Organic Carbon	ground-	kg	1.16946E-10	5.96387E-10
Water	DOC, Dissolved Organic Carbon	ground-	kg	1.16946E-10	5.96387E-10
Water	COD, Chemical Oxygen Demand	ground-	kg	3.15753E-10	1.61025E-09
Water	Chlorides, unspecified	unspecified	kg	1.69013E-07	2.43116E-07
Water	Chromium VI	unspecified	kg	1.7916E-10	1.1474E-10
Water	Sulfur	unspecified	kg	1.44578E-09	7.57277E-09
Water	Propanal	surface water	kg	2.64004E-12	7.16922E-12
Water	Formic acid	surface water	kg	1.16315E-12	2.73254E-12
Water	Acetyl chloride	surface water	kg	1.72104E-12	4.04318E-12
Water	Lithium, ion	surface water	kg	1.07166E-10	2.77449E-10
Water	1-Pentanol	surface water	kg	2.19083E-12	5.14683E-12
Water	1-Pentene	surface water	kg	1.65558E-12	3.88936E-12
Water	Formamide	surface water	kg	4.00682E-12	9.41328E-12
Water	Cyclohexane	surface water	kg		
Water	Barium	surface water	kg	1.08252E-06	3.31453E-07
Water	Selenium	surface water	kg	1.00736E-09	6.47498E-09
Water	Uranium-238	surface water	kBq	6.43624E-07	9.96927E-06
Water	Lead-210	surface water	kBq	4.21535E-07	4.54207E-06
Water	Radium-226	surface water	kBq	0.000161506	0.001129994
Water	Sulfite	surface water	kg	1.04691E-08	8.52508E-08
Water	Thorium-232	surface water	kBq	9.86571E-08	1.06304E-06
Water	Polonium-210	surface water	kBq	4.21535E-07	4.54207E-06
Water	Vanadium, ion	surface water	kg	8.51082E-10	5.44768E-09
Water	Potassium-40	surface water	kBq	5.29161E-07	5.70175E-06
Water	Propylamine	surface water	kg	2.24796E-12	3.20097E-12
Water	Ethene	surface water	kg	3.70464E-09	3.91896E-09
Water	Sodium, ion	ground-, long-term	kg	6.67898E-05	0.000516569
Water	Hydrocarbons, aliphatic, unsaturated	surface water	kg	1.49081E-08	4.5511E-09
Water	Hydrogen sulfide	surface water	kg	1.57854E-09	1.3845E-09
Water	Nitrite	surface water	kg	7.15656E-09	4.58088E-08
Water	Diethylene glycol	surface water	kg		
Water	Ethylene diamine	surface water	kg	2.15448E-12	6.54395E-12
Water	Carbon disulfide	surface water	kg	5.02829E-12	1.53544E-11
Water	Triethylene glycol	ocean	kg	1.6291E-10	2.12504E-09
Water	Sulfur	ocean	kg	7.3395E-10	1.04159E-09
Water	Nitrogen	ocean	kg	2.52718E-10	3.31423E-10
Water	Oils, unspecified	ocean	kg	9.43663E-06	3.50943E-06
Water	AOX, Adsorbable Organic Halogen as Cl	ocean	kg	1.83093E-10	5.61175E-11
Water	Methanol	ocean	kg	1.76884E-10	2.45623E-09
Water	DOC, Dissolved Organic Carbon	ocean	kg	8.51086E-06	3.14837E-06

Water	Ammonium, ion	ocean	kg	7.4091E-08	1.98527E-08
Water	TOC, Total Organic Carbon	ocean	kg	8.81796E-06	3.23048E-06
Water	BOD5, Biological Oxygen Demand	ocean	kg	2.94811E-05	1.09898E-05
Water	COD, Chemical Oxygen Demand	ocean	kg	3.02194E-05	1.11804E-05
Water	Phenol	ocean	kg	2.27916E-08	7.0258E-09
Water	Radioactive species, alpha emitters	surface water	kBq	1.19526E-08	4.47798E-08
Water	Cerium-141	surface water	kBq	7.97557E-10	1.11563E-08
Water	Manganese-54	surface water	kBq	4.03652E-08	5.84649E-07
Water	Cesium-137	surface water	kBq	2.73222E-07	3.87506E-06
Water	Barium-140	surface water	kBq	1.82002E-09	2.53798E-08
Water	Zinc-65	surface water	kBq	2.18202E-07	2.19857E-06
Water	Molybdenum-99	surface water	kBq	6.70726E-10	9.3543E-09
Water	Iron-59	surface water	kBq	1.90393E-06	1.58035E-05
Water	Cobalt-60	surface water	kBq	7.01658E-07	9.95489E-06
Water	Silver-110	surface water	kBq	5.08993E-07	7.36358E-06
Water	Lanthanum-140	surface water	kBq	2.13502E-09	2.98694E-08
Water	Ruthenium-103	surface water	kBq	2.54189E-10	3.6005E-09
Water	lodine-131	surface water	kBq	4.16864E-07	3.52546E-06
Water	Chromium-51	surface water	kBq	1.37694E-07	1.93813E-06
Water	lodine-133	surface water	kBq	1.30775E-09	1.83178E-08
Water	Zirconium-95	surface water	kBq	9.53008E-07	7.91717E-06
Water	Niobium-95	surface water	kBq	3.61451E-09	5.11378E-08
Water	Cobalt-58	surface water	kBq	1.03651E-06	1.5015E-05
Water	Strontium-90	surface water	kBq	2.24342E-05	0.000592143
Water	Antimony-125	surface water	kBq	4.04861E-08	6.20189E-07
Water	Technetium-99m	surface water	kBq	1.64736E-08	2.30304E-07
Water	Hydrogen-3, Tritium	surface water	kBq	0.013407709	0.138627591
Water	Sodium-24	surface water	kBq	9.01955E-09	1.27733E-07
Water	Strontium-89	surface water	kBq	1.27261E-08	1.78306E-07
Water	Cesium-134	surface water	kBq	2.1473E-08	2.81566E-07
Water	Antimony-124	surface water	kBq	2.13232E-06	1.80086E-05
Water	Radioactive species, Nuclides, unspecified	surface water	kBq	4.1165E-07	2.86118E-06
Water	Tellurium-123m	surface water	kBq	1.97766E-09	3.49041E-08
Water	Tellurium-132	surface water	kBq	7.21311E-11	1.02236E-09
Water	Cesium-136	surface water	kBq	2.40723E-10	3.41192E-09
Water	Cerium-144	surface water	kBq	4.12912E-10	5.85248E-09
Water	Cobalt-57	surface water	kBq	7.64144E-09	1.08307E-07
Water	Carbon-14	surface water	kBq	2.33403E-07	1.93702E-06
Water	Antimony-122	surface water	kBq	7.74424E-10	1.09764E-08
Water	Hypochlorite	ocean	kg	1.83063E-09	1.48134E-08
Water	Hypochlorite	surface water	kg	1.94613E-09	1.54165E-08
Water	Thallium	surface water	kg	2.07876E-11	1.61382E-10
Water	Carboxylic acids, unspecified	surface water	kg	4.56875E-06	1.39416E-06
Water	Ethylene glycol monoethyl ether	surface water	kg		
Water	Monochloroethane	surface water	kg		

Water	Dimethyl ether	surface water	kg		
Water	PAH, polycyclic aromatic hydrocarbons	surface water	kg	6.08054E-09	2.13803E-09
Water	Nitrogen, organic bound	surface water	kg	1.39627E-07	1.13111E-07
Water	Methyl formate	surface water	kg	2.70441E-13	5.39822E-13
Water	Phosphate	unspecified	kg	3.52607E-14	9.20667E-13
Water	Arsenic, ion	ocean	kg	2.18833E-10	1.41377E-10
Water	Cyanide	ocean	kg	2.90295E-09	9.07162E-10
Water	Nickel, ion	ocean	kg	3.09633E-10	1.24756E-10
Water	Mercury	ocean	kg	5.95217E-12	6.64069E-12
Water	Cadmium, ion	ocean	kg	1.35298E-10	5.35684E-11
Water	Copper, ion	ocean	kg	8.399E-10	3.5834E-10
Water	Lead	ocean	kg	3.74096E-09	1.18849E-09
Water	Zinc, ion	ocean	kg	1.07199E-07	7.64792E-08
Water	AOX, Adsorbable Organic Halogen as Cl	unspecified	kg	3.83737E-11	4.24859E-11
Water	Nitrogen	unspecified	kg	1.67168E-09	2.08182E-09
Water	Ammonium, ion	ground-	kg	3.15753E-09	1.61025E-08
Water	Strontium	ground-	kg	3.36303E-08	2.26324E-07
Water	Fluoride	ground-	kg	2.01656E-08	1.03962E-07
Water	Iron, ion	ground-	kg	2.2702E-06	3.10773E-05
Water	Chloride	ground-	kg	4.29424E-05	0.000228391
Water	Solids, inorganic	ground-	kg	4.97952E-06	6.80014E-05
Water	Dissolved solids	ground-	kg	3.63116E-07	1.85178E-06
Water	Manganese	ground-	kg	3.92624E-08	2.94116E-07
Water	Aluminium	ground-	kg	2.02397E-08	1.1452E-07
Water	Sulfate	ground-	kg	3.90749E-05	0.000239242
Water	Hydrocarbons, unspecified	unspecified	kg	1.36106E-09	1.96826E-09
Water	Hydrogen peroxide	surface water	kg	4.87823E-10	2.5125E-10
Water	Cyanide	unspecified	kg	1.56814E-09	8.21422E-10
Water	Hexane	surface water	kg		
Water	Carbaryl	ground-	kg	9.79797E-21	5.86371E-19
Water	Metolachlor	surface water	kg	8.68832E-16	3.11914E-16
Water	Carbaryl	surface water	kg	1.22014E-22	7.30204E-21
Water	Dimethenamid	surface water	kg	1.07725E-20	6.45366E-19
Water	Metolachlor	ground-	kg	6.47364E-14	2.3238E-14
Water	Dicamba	ground-	kg	8.92114E-18	5.34454E-16
Water	Dicamba	surface water	kg	3.56849E-20	2.13784E-18
Water	Pendimethalin	ground-	kg	1.18601E-18	7.10522E-17
Water	Pendimethalin	surface water	kg	1.98827E-21	1.19115E-19
Water	Dimethenamid	ground-	kg	8.61799E-19	5.16293E-17
Water	Pyraclostrobin	ground-	kg	6.47341E-18	2.31014E-18
Water	Pyraclostrobin	surface water	kg	1.02811E-19	3.89193E-20
Water	Tefluthrin	ground-	kg	3.06418E-24	1.83571E-22
Water	Atrazine	ground-	kg	8.41832E-17	5.04331E-15
Water	Tefluthrin	surface water	kg	5.08743E-26	3.04775E-24
Water	Atrazine	surface water	kg	3.25589E-19	1.95056E-17

Water	Arsenic, ion	ground-	kg	2.71001E-09	3.40896E-08
Water	Selenium	ground-	kg	6.48355E-10	4.9033E-09
Water	Tin, ion	ground-	kg	4.18725E-11	9.70714E-11
Water	Methanol	unspecified	kg	3.89783E-10	5.6442E-10
Water	Phenol	unspecified	kg	3.68188E-10	1.38131E-09
Water	Formaldehyde	unspecified	kg	1.25858E-09	1.08607E-09
Water	Acrylate, ion	surface water	kg	1.30319E-12	4.48609E-13
Water	Methyl acrylate	surface water	kg	1.21543E-11	4.18432E-12
Water	VOC, volatile organic compounds, unspecified origin	surface water	kg	4.34942E-07	1.40294E-07
Water	Silver, ion	surface water	kg	1.07598E-09	3.34833E-10
Water	Thallium	unspecified	kg	1.2867E-12	6.75784E-12
Water	Calcium, ion	unspecified	kg	1.74063E-06	9.1419E-06
Water	Beryllium	unspecified	kg	5.43554E-12	2.85471E-11
Water	Molybdenum	unspecified	kg	1.24404E-11	6.53377E-11
Water	Radium-228	unspecified	kBq	1.00854E-06	5.29693E-06
Water	Strontium	unspecified	kg	2.95224E-08	1.55054E-07
Water	Xylene	unspecified	kg	4.3345E-10	2.27651E-09
Water	Lead-210	unspecified	kBq	1.56656E-07	8.22771E-07
Water	Benzene	unspecified	kg	9.07856E-10	4.76813E-09
Water	Barium	unspecified	kg	1.54097E-07	8.0933E-07
Water	m-Xylene	unspecified	kg	1.63994E-11	8.61311E-11
Water	Antimony	unspecified	kg	6.10176E-12	3.20461E-11
Water	Toluene	unspecified	kg	8.58368E-10	4.50821E-09
Water	Dissolved solids	unspecified	kg	2.40616E-05	0.000126373
Water	Magnesium	unspecified	kg	3.39593E-07	1.78357E-06
Water	Vanadium, ion	unspecified	kg	1.471E-11	7.72581E-11
Water	o-Xylene	unspecified	kg	1.19455E-11	6.27386E-11
Water	Selenium	unspecified	kg	1.46791E-12	7.68735E-12
Water	Cobalt	unspecified	kg	1.19967E-11	6.30074E-11
Water	Radium-226	unspecified	kBq	7.16729E-07	3.76431E-06
Water	4-Methyl-2-pentanone	unspecified	kg	2.26964E-12	1.19203E-11
Water	Acidity, unspecified	unspecified	kg	1.13823E-10	5.97809E-10
Water	Bromine	unspecified	kg	1.16042E-07	6.0946E-07
Water	Acetone	unspecified	kg	5.4096E-12	2.84116E-11
Water	Benzene, ethyl-	unspecified	kg	5.10243E-11	2.67983E-10
Water	Silver, ion	unspecified	kg	1.13482E-09	5.96017E-09
Water	Titanium, ion	unspecified	kg	1.94742E-09	3.04483E-09
Water	Lithium, ion	unspecified	kg	5.81915E-07	3.05626E-06
Water	Boron	unspecified	kg	1.69967E-09	8.9268E-09
Water	Butyrolactone	surface water	kg	3.08246E-13	8.26443E-13
Water	Dichlorprop	ground-	kg	7.77218E-21	2.27674E-19
Water	Dichlorprop	surface water	kg	3.22727E-23	9.56503E-22
Water	2,4-D ester	ground-	kg	7.46283E-21	2.09033E-19
Water	2,4-D ester	surface water	kg	2.96902E-23	8.00895E-22

Water	МСРВ	ground-	kg	7.49202E-23	3.16412E-21
Water	МСРВ	surface water	kg	1.62074E-20	6.84412E-19
Water	2,4-D amines	ground-	kg	1.97591E-20	9.36244E-19
Water	2,4-D amines	surface water	kg	8.08439E-23	3.82648E-21
Water	Iron, ion	ocean	kg	8.78978E-09	2.64307E-09
Water	Aluminium	ocean	kg	7.16669E-08	4.27886E-08
Water	Silicon	ocean	kg	1.13091E-10	6.71272E-11
Water	Titanium, ion	ocean	kg	1.85377E-11	1.0829E-11
Water	Barite	ocean	kg	1.97989E-06	1.51261E-06
Water	Hydrocarbons, aromatic	ocean	kg	4.83429E-08	1.59464E-08
Water	Chromium, ion	ocean	kg	2.52639E-09	7.64958E-10
Water	Sulfate	ocean	kg	3.57379E-06	2.58148E-06
Water	Potassium, ion	ocean	kg	5.25049E-07	2.45398E-07
Water	Glutaraldehyde	ocean	kg	2.44431E-10	1.86742E-10
Water	Suspended solids, unspecified	ocean	kg	7.14316E-06	5.37483E-06
Water	Chloride	ocean	kg	4.3058E-05	1.74072E-05
Water	Carboxylic acids, unspecified	ocean	kg	9.55754E-07	3.02206E-07
Water	Hydrocarbons, unspecified	ocean	kg	4.0173E-08	2.89162E-08
Water	Carbonate	unspecified	kg	9.68365E-14	7.14564E-13
Water	Phosphorus	ground-	kg	4.28323E-09	1.49784E-09
Water	Solids, inorganic	unspecified	kg	1.13387E-13	4.57106E-13
Water	Trimethylamine	surface water	kg	1.83467E-12	1.67668E-12
Water	Urea	surface water	kg	3.42426E-12	8.81748E-12
Water	Cumene	surface water	kg	9.83333E-09	3.78739E-08
Water	Hydroxide	surface water	kg	1.67851E-09	2.17895E-09
Water	Perchlorate, ion	surface water	kg		
Water	Bentazone	surface water	kg	2.7818E-16	9.89657E-17
Water	Bentazone	ground-	kg	4.48881E-13	1.59695E-13
Water	Suspended solids, unspecified	ground-	kg	1.89398E-17	5.1703E-15
Water	Uranium-238	ground-	kBq	1.47139E-09	3.63962E-09
Water	Radium-226	ground-	kBq	3.21712E-09	7.95781E-09
Water	Thorium-232	ground-	kBq	4.79177E-17	1.30809E-14
Water	Sodium formate	surface water	kg	5.4058E-12	1.53323E-11
Water	Hydroxide	unspecified	kg	6.7414E-12	1.31661E-10
Water	Boron	ocean	kg	5.80396E-09	2.63214E-09
Water	Carbonate	ocean	kg	3.46232E-10	3.46691E-10
Water	Sodium, ion	ocean	kg	2.78696E-05	1.08451E-05
Water	Strontium	ocean	kg	1.41613E-07	4.59874E-08
Water	Calcium, ion	ocean	kg	3.06527E-06	1.48509E-06
Water	Hydrogen carbonate	ocean	kg	4.16125E-08	4.16677E-08
Water	Magnesium	ocean	kg	1.05266E-06	6.05064E-07
Water	Fluoride	ocean	kg	5.34846E-08	2.07707E-08
Water	Silicon dioxide	surface water	kg		
Water	1,4-Butanediol	surface water	kg	1.54984E-11	7.48898E-12
Water	Hydrochloric acid	unspecified	kg	1.63857E-08	2.31788E-08

Water	Tributyltin compounds	ocean	kg	1.25646E-09	6.15074E-10
Water	Chloride	ground-, long-term	kg	2.74778E-05	0.000126124
Water	Aluminium	ground-, long-term	kg	3.48777E-05	0.000147871
Water	Calcium, ion	ground-, long-term	kg	0.00016039	0.001214718
Water	Iron, ion	ground-, long-term	kg	2.34342E-05	0.000128992
Water	Silicon	ground-, long-term	kg	0.000274237	0.001076579
Water	Thallium	ground-, long-term	kg	3.59029E-09	1.27549E-08
Water	Heat, waste	surface water	MJ	0.000608926	0.000867661
Water	Zinc, ion	ground-, long-term	kg	2.69184E-06	8.41618E-06
Water	Vanadium, ion	ground-, long-term	kg	1.38533E-07	6.83526E-07
Water	Cobalt	ground-, long-term	kg	3.52454E-07	1.30918E-06
Water	Tin, ion	ground-, long-term	kg	3.07609E-08	8.07852E-08
Water	Cadmium, ion	ground-, long-term	kg	3.16553E-08	9.2735E-08
Water	Antimony	ground-, long-term	kg	1.89671E-08	8.7239E-08
Water	Lead	ground-, long-term	kg	4.33105E-08	1.97743E-07
Water	Nickel, ion	ground-, long-term	kg	1.19585E-06	5.15368E-06
Water	Manganese	ground-, long-term	kg	7.19909E-06	4.62529E-05
Water	Mercury	ground-, long-term	kg	1.61892E-09	1.41411E-08
Water	Copper, ion	ground-, long-term	kg	5.35795E-06	5.00891E-06
Water	Chromium VI	ground-, long-term	kg	1.6544E-07	5.56868E-07
Water	Sulfate	ground-, long-term	kg	0.000567736	0.004355227
Water	Phosphate	ground-, long-term	kg	2.08302E-05	0.000159612
Water	BOD5, Biological Oxygen Demand	ground-, long-term	kg	1.18565E-05	9.98634E-06
Water	COD, Chemical Oxygen Demand	ground-, long-term	kg	2.58118E-05	3.14672E-05
Water	TOC, Total Organic Carbon	ground-, long-term	kg	1.42214E-05	1.96079E-05
Water	DOC, Dissolved Organic Carbon	ground-, long-term	kg	1.42214E-05	1.96079E-05
Water	Potassium, ion	ground-, long-term	kg	5.01337E-05	0.000343477
Water	Molybdenum	ground-, long-term	kg	4.82719E-08	2.62394E-07
Water	Arsenic, ion	ground-, long-term	kg	6.14596E-08	2.7076E-07
Water	Magnesium	ground-, long-term	kg	8.07924E-05	0.000565097
Water	Nitrate	ground-, long-term	kg	6.28815E-06	5.66092E-05
Water	Fluoride	ground-, long-term	kg	2.36119E-06	6.02848E-06
Water	Iodide	ground-, long-term	kg	7.10147E-11	7.00246E-10
Water	Bromine	ground-, long-term	kg	5.97584E-09	3.59513E-08
Water	Selenium	ground-, long-term	kg	3.73705E-08	2.01901E-07
Water	Boron	ground-, long-term	kg	1.19773E-06	3.58145E-06
Water	Barium	ground-, long-term	kg	2.24922E-07	2.01006E-06
Water	Silver, ion	ground-, long-term	kg	1.61051E-09	4.57638E-09
Water	Bromine	surface water	kg	9.00054E-07	4.34305E-07
Water	Scandium	ground-, long-term	kg	2.65462E-08	1.63268E-07
Water	Tungsten	ground-, long-term	kg	3.91635E-08	1.00723E-07
Water	Molybdenum	ground-	kg	3.78951E-09	4.33114E-08
Water	Silver, ion	ground-	kg	1.79634E-11	1.31979E-10
Water	Cobalt	ground-	kg	4.81175E-10	2.23764E-09
Water	Antimony	ground-	kg	6.00294E-10	7.2591E-09
Water	Chromium VI	ground-	kg	1.20304E-09	1.50775E-08
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Water	Titanium, ion	ground-	kg	4.41399E-09	5.39109E-09
Water	Beryllium	ground-	kg	3.69796E-11	1.98252E-10
Water	Magnesium	ground-	kg	7.55259E-07	5.72286E-06
Water	Thallium	ground-	kg	4.89653E-12	1.531E-11
Water	Beryllium	ground-, long-term	kg	1.55188E-08	9.3445E-08
Water	Vanadium, ion	ground-	kg	1.61263E-10	1.68015E-09
Water	Silicon	ground-	kg	2.55703E-07	2.72376E-06
Water	Tungsten	ground-	kg	7.50359E-10	4.01779E-09
Water	Calcium, ion	ground-	kg	2.06234E-06	1.4671E-05
Water	Barium	ground-	kg	1.63663E-09	3.0493E-09
Water	Scandium	ground-	kg	1.56383E-10	1.64228E-09
Water	Titanium, ion	ground-, long-term	kg	1.10108E-06	6.20811E-06
Water	Potassium, ion	ground-	kg	3.04963E-07	3.29131E-06
Water	Sodium, ion	ground-	kg	6.95696E-07	7.46779E-06
Water	Strontium	ground-, long-term	kg	2.31181E-06	1.8748E-05
Water	Titanium, ion	surface water	kg	1.48662E-09	8.24181E-09
Water	Scandium	surface water	kg	1.19005E-09	7.71264E-09
Water	Beryllium	surface water	kg	3.21258E-12	2.20246E-11
Water	Tungsten	surface water	kg	1.18001E-09	7.65985E-09
Water	Hydrogen sulfide	ground-, long-term	kg	1.45889E-07	1.82097E-06
Water	Boron	ground-	kg	1.0286E-07	2.25183E-07
Water	Iodide	ground-	kg	1.16678E-10	1.50175E-09
Water	Bromine	ground-	kg	1.16343E-09	1.22742E-08
Water	Ammonium, ion	ground-, long-term	kg	2.8237E-08	1.42241E-07
Water	Nitrite	ground-, long-term	kg	1.53703E-09	7.73476E-09
Water	Nitrogen, organic bound	ground-, long-term	kg	4.61637E-08	2.32427E-07
Water	Polychlorinated biphenyls	unspecified	kg	1.02513E-15	5.29811E-15
Water	Radioactive species, Nuclides, unspecified	ocean	kBq	2.07896E-05	0.000324689
Water	Phosphorus	ocean	kg	4.34248E-09	1.29102E-09
Water	Cesium-137	ocean	kBq	3.98468E-06	6.2232E-05
Water	Barium	ocean	kg	6.37652E-08	1.9433E-08
Water	Hydrogen-3, Tritium	ocean	kBq	0.00827872	0.129295782
Water	Cobalt	ocean	kg	1.20035E-13	1.87469E-12
Water	Strontium-90	ocean	kBq	4.43017E-07	6.91897E-06
Water	Nitrite	ocean	kg	5.3954E-11	8.42645E-10
Water	Actinides, radioactive, unspecified	ocean	kBq	3.47731E-08	5.43081E-07
Water	Sulfide	ocean	kg	1.12519E-09	3.99249E-10
Water	Nitrate	ocean	kg	9.47283E-08	6.76399E-08
Water	Uranium-235	surface water	kBq	2.4225E-07	4.29095E-06
Water	Uranium-234	surface water	kBq	2.17114E-07	3.84571E-06
Water	Thorium-230	surface water	kBq	1.58821E-05	0.000281317
Water	Chlorine	ground-	kg	5.82285E-09	5.14526E-09
Water	Iron	ground-	kg	1.91779E-08	1.69462E-08
Water	Sodium	ground-	kg	7.22645E-09	6.38552E-09

Water	Sulfur	ground-	kg	2.45977E-08	2.17354E-08
Water	Sulfate, ion	ground-	kg	2.8072E-08	2.48053E-08
Water	Potassium	ground-	kg	3.14073E-09	2.77524E-09
Water	Lithium	ground-	kg	1.45919E-11	1.28938E-11
Water	PAH, polycyclic aromatic hydrocarbons	ground-	kg	4.37756E-11	3.86814E-11
Water	Organic carbon	ground-	kg	1.01336E-10	2.61997E-09
Water	Elemental carbon	ground-	kg	4.28467E-11	1.10777E-09
Water	Nitrate	unspecified	kg	4.01088E-15	4.01619E-15
Water	Benzene, ethyl-	ocean	kg	1.73035E-09	5.27635E-10
Water	Bromine	ocean	kg	5.04036E-08	1.537E-08
Water	Cesium	ocean	kg	7.20051E-11	2.19571E-11
Water	Radium-228	ocean	kBq	7.20051E-06	2.19571E-06
Water	Thorium-228	ocean	kBq	1.44079E-05	4.40842E-06
Water	Hydrocarbons, aliphatic, alkanes, unspecified	ocean	kg	9.36066E-09	2.85443E-09
Water	PAH, polycyclic aromatic hydrocarbons	ocean	kg	1.58288E-09	4.81757E-10
Water	Hydrocarbons, aliphatic, unsaturated	ocean	kg	8.64061E-10	2.63486E-10
Water	Acenaphthylene	ocean	kg	2.801E-14	8.54133E-15
Water	Manganese	ocean	kg	5.13194E-09	1.55655E-09
Water	Toluene	ocean	kg	2.70358E-08	8.13242E-09
Water	Acenaphthene	ocean	kg	4.47872E-13	1.36573E-13
Water	Silver, ion	ocean	kg	4.3203E-11	1.31743E-11
Water	Radium-224	ocean	kBq	3.60025E-06	1.09786E-06
Water	Rubidium	ocean	kg	7.20051E-10	2.19571E-10
Water	Xylene	ocean	kg	1.59414E-08	4.86318E-09
Water	Iodide	ocean	kg	7.20051E-09	2.19571E-09
Water	VOC, volatile organic compounds, unspecified origin	ocean	kg	2.52018E-08	7.685E-09
Water	Benzene	ocean	kg	1.26272E-08	3.86117E-09
Water	Radium-226	ocean	kBq	6.39119E-06	3.31687E-06
Water	Thorium-228	surface water	kBq	0.000248301	7.57672E-05
Water	Radium-224	surface water	kBq	6.20752E-05	1.89418E-05
Water	Hydrocarbons, aliphatic, alkanes, unspecified	surface water	kg	1.61395E-07	4.92487E-08
Water	Xylene	surface water	kg	1.17363E-07	3.5821E-08
Water	Cesium	surface water	kg	1.2415E-09	3.78836E-10
Water	Acenaphthylene	surface water	kg	4.84954E-13	1.49605E-13
Water	Rubidium	surface water	kg	1.2415E-08	3.78836E-09
Water	Radium-228	surface water	kBq	0.00012415	3.78836E-05
Water	Benzene, ethyl-	surface water	kg	2.97974E-08	9.09249E-09
Water	Acenaphthene	surface water	kg	8.45024E-12	3.16746E-12
Water	Uranium alpha	surface water	kBq	7.32428E-06	0.000129739
Water	Protactinium-234	surface water	kBq	1.87587E-07	3.3227E-06
Water	Thorium-234	surface water	kBq	1.87656E-07	3.32396E-06
Water	Methomyl	surface water	kg	2.73106E-25	2.68159E-25
Water	Methomyl	ground-	kg	2.43514E-23	2.39104E-23
Water	Tebuconazole	surface water	kg	7.9842E-26	7.83959E-26

Water	Tebuconazole	ground-	kg	3.31572E-23	3.25566E-23
Water	Ethephon	surface water	kg	1.8465E-25	1.81305E-25
Water	Ethephon	ground-	kg	3.04692E-23	2.99173E-23
Water	Trifloxystrobin	surface water	kg	1.99725E-26	1.96107E-26
Water	Trifloxystrobin	ground-	kg	1.22515E-24	1.20296E-24
Water	Prothioconazol	surface water	kg	6.48467E-26	6.36722E-26
Water	Prothioconazol	ground-	kg	4.14125E-24	4.06625E-24
Water	Lambda-cyhalothrin	surface water	kg	1.85048E-29	1.81697E-29
Water	Lambda-cyhalothrin	ground-	kg	7.37481E-27	7.24125E-27
Water	Permethrin	unspecified	kg		
Water	Butylcarbamate, iodopropynyl	surface water	kg		
Water	Methyl ethyl ketone	surface water	kg		
Water	Monoethanolamine	unspecified	kg	8.18531E-13	6.04001E-12
Water	Benzo(ghi)perylene	surface water	kg	9.75164E-18	1.08636E-17
Water	VOC, volatile organic compounds, unspecified	unspecified	kg	4 000005 44	
Wator	Origin	surface water	ka	1.88892E-11	2.10431E-11
Water	Renze (b) flueranthene	surface water	∿g ka	1.54974E-13	1./2644E-13
Water		surface water	Kg ka	6.92995E-17	7.72014E-17
water	Benzo(a)pyrene	surface water	кд	7.10539E-17	7.91558E-17
Water	Pyrene	surface water	кg	2.31291E-12	2.57664E-12
Water	Benz(a)anthracene	surface water	кg	5.84806E-16	6.51488E-16
Water	Phenanthrene	surface water	kg	2.54683E-12	2.83723E-12
Water	Fluorene	surface water	kg	1.1316E-12	1.26063E-12
Water	Chrysene	surface water	kg	3.772E-16	4.2021E-16
Water	Indeno(1,2,3-cd)pyrene	surface water	kg	1.07166E-16	1.19385E-16
Water	Naphtalene	surface water	kg	2.26905E-13	2.52777E-13
Water	Fluoranthene	surface water	kg	3.07023E-12	3.42031E-12
Water	Dibenz(a,h)anthracene	surface water	kg	6.82761E-18	7.60613E-18
Water	Benzo(k)fluoranthene	surface water	kg	3.26029E-17	3.63205E-17
Water	Nitrite	unspecified	kg	4.68203E-12	4.98104E-11
Water	Borate	unspecified	kg	4.54033E-11	4.82624E-10
Water	Dichromate	unspecified	kg	4.28525E-11	4.55892E-10
Water	Carboxylic acids, unspecified	unspecified	kg	1.09138E-13	8.05334E-13
Water	Cu-HDO	unspecified	kg	2.2737E-16	1.67778E-15
Water	Potassium, ion	unspecified	kg	1.37693E-14	1.01605E-13
Water	Nitrogen, organic bound	ground-	kg	4.87265E-08	1.53729E-08
Water	Sodium chlorate	ground-	kg	1.6377E-11	5.16684E-12
Water	Fluosilicic acid	unspecified	kg	6.17337E-11	1.94898E-10
Water	Ethanol	unspecified	kg	2.13766E-15	2.92706E-14
Water	Triethylene glycol	unspecified	kg	3.16058E-12	1.34024E-11
Water	Triethylene glycol	surface water	kg	3.15979E-12	1.34004E-11
Water	Butyl acetate	surface water	kg	2.72694E-10	3.17536E-10
Water	Phosphate	ocean	kg	9.44957E-09	2.33743E-08
Water	Uranium-238	ocean	kBq	2.87384E-07	7.10868E-07
Water	Potassium-40	ocean	kBq	6.77057E-08	1.67476E-07

Water	Polonium-210	ocean	kBq	8.54846E-07	2.11453E-06
Water	Lead-210	ocean	kBq	5.60155E-07	1.38559E-06
Water	Lead-210	ground-	kBq	2.86797E-09	7.09417E-09
Water	Polonium-210	ground-	kBq	4.36431E-09	1.07955E-08
Water	Potassium-40	ground-	kBq	3.46651E-10	8.57469E-10
Water	Thorium-228	ground-	kBq	3.51638E-11	8.69806E-11
Water	Hydrocarbons, aliphatic, unsaturated	unspecified	kg	5.87453E-21	1.13912E-19
Water	Oils, non-fossil	surface water	kg	3.78149E-08	1.31135E-08
Water	Dissolved solids	ocean	kg	7.24867E-16	1.28905E-12
Water	Allyl chloride	unspecified	kg	4.82006E-13	8.61515E-13
Water	Chlorine	unspecified	kg	2.98159E-13	5.32915E-13
Water	t-Butyl methyl ether	surface water	kg	3.16642E-10	1.00553E-10
Water	Vanadium, ion	ocean	kg	3.32948E-10	9.91115E-11
Water	Nitrogen, organic bound	ocean	kg	1.69093E-07	4.36117E-08
Water	Molybdenum	ocean	kg	1.12322E-10	3.29834E-11
Water	Selenium	ocean	kg	1.68357E-10	4.94381E-11
Water	t-Butyl methyl ether	ocean	kg	5.49384E-10	1.74302E-10

# **5.6.** Declaration of conformity



Direction Energie Environnement Division Environnement

## Programme PEP ecopassport\*

Attestation de revue critique des « Règles Spécifiques aux APPAREILS INDEPENDANTS DE CHAUFFAGE AU BOIS DANS L'HABITAT INDIVIDUEL »

Chargé de revue critique : M. Pierre RAVEL et Mme Charlène FERIAU. CSTB Direction Energie-Environnement.

Document revu : Règles spécifiques aux appareils indépendants de chauffage au bois dans l'habitat individuel

Version et date : PSR-0015-ed1-FR-2017 01 10 du 10 janvier 2017

Période de revue : Novembre à décembre 2016

Etabli par : SER, Syndicat des énergies renouvelables et UNICLIMA, Syndicat des industries thermiques, aérauliques et frigorifiques.

## Référentiels :

L'objectif de la revue critique est de vérifier la conformité de ce document avec les référentiels suivant :

- Les Règles de définition Des Catégories de Produits du PROGRAMME PEP ecopassport<sup>®</sup> Profils Environnementaux de Produits Electriques, Electroniques et du Génie Climatique dans leur version PEP-PCR ed.3-FR-2015 04 02.
- La norme NF EN ISO 14025 :2010
- Les normes NF EN ISO 14 040 :2006 et NF EN ISO 14 044 :2006

La revue critique a été conduite selon les principes de la norme ISO 14 071 : 2014 et a suivi la procédure de développement et adoption des PSR – Règles Spécifiques aux Produits (document PEP ecopassport® PEP - AP0017-ed2-FR-2015 02 13).

#### Conclusion :

Le document revu ne comporte pas de non-conformité par rapport aux référentiels. Par conséquent, ce document - Règles Spécifiques aux APPAREILS INDEPENDANTS DE CHAUFFAGE AU BOIS DANS L'HABITAT INDIVIDUEL - PSR-0015-ed1-FR-2017 01 10 est conforme aux exigences des référentiels.

Pierre RAVEL, Ingénieur de recherche et d'étude Division Environnement Charlène FERIAU, Assistante Ingénieur Division Environnement

Leions

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