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OF THE REPUBLIC OF BELARUS**

ENVIRONMENTAL PROTECTION IN THE REPUBLIC OF BELARUS

Statistical book

MINSK

2017

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The statistical book presents data on the state of the natural environment and environmental impact of economic activities for the years 2010-2016.

Intended for senior management, government agencies and financial and economic departments of organisations, research community, higher education teaching staff, postgraduates and students, and other interested users.

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Foreword

The data book provides information for the years 2010-2016 on the state of the environment, availability and use of natural resources, and environmental expenditure. It also presents climate change and green growth indicators, information on areas of radioactive contamination as a result of the Chernobyl Nuclear Power Plant catastrophe, and other information. For the main indicators international comparisons are provided.

The information is presented at the national and regional level. Some indicators are provided by districts and selected cities. A number of indicators are broken down by economic activities.

The information source is the official statistics compiled by state statistics bodies and other producers of official statistics as well as administrative data compiled by government agencies whose activities are connected with environmental management, ecological monitoring and environmental protection.

In certain cases data for 2016 are provisional and will be revised in further issues.

ABBREVIATIONS:

m	- metre	O ₂	- oxygen
m ²	- square metre	N	- nitrogen
m ³	- cubic metre	P	- phosphorus
ha	- hectare	NO ₃	- nitrates
km	- kilometre	CO ₂	- carbon dioxide
km ²	- square kilometre	BYR/BYN	- Belarusian rubles
kg	- kilogramme	thsd	- thousand
t	- tonne	mln	- million
pcs	- units, pieces	bn	- billion
Ci	- Curie	k	- coefficient

Explanation of symbols:

—	not applicable
0.0	negligible magnitude
...	data not available

Relative indicators are calculated on the basis of absolute figures with smaller units of measure than those presented in the tables.

In certain cases minor discrepancies between the total and the sum of its components can be explained by data rounding.

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1. GEOGRAPHIC CHARACTERISTICS OF THE REPUBLIC OF BELARUS

1.1. Main geographic characteristics

The **Republic of Belarus** is situated in Central and Eastern Europe.

Average annual population, 2016:
9 501.5 thsd

Capital city: Minsk.

Area: 207.6 thsd sq km

(forest land 42%; agricultural land 41%; surface water, including wetlands 6%; other land 11%).

Extension:

from North to South: 560 km,
from West to East: 650 km.

State frontier:

with Latvia and Russian Federation in the North;
with Lithuania in the North-West;
with Poland in the West;
with Ukraine in the South;
with Russian Federation in the East and North-East.

Administrative division

Belarus has 6 regions with centres in Minsk, Brest, Vitebsk, Gomel, Grodno and Mogilev.

Each region is subdivided into districts, cities and other territorial and administrative-economic units.

The highest point above sea level

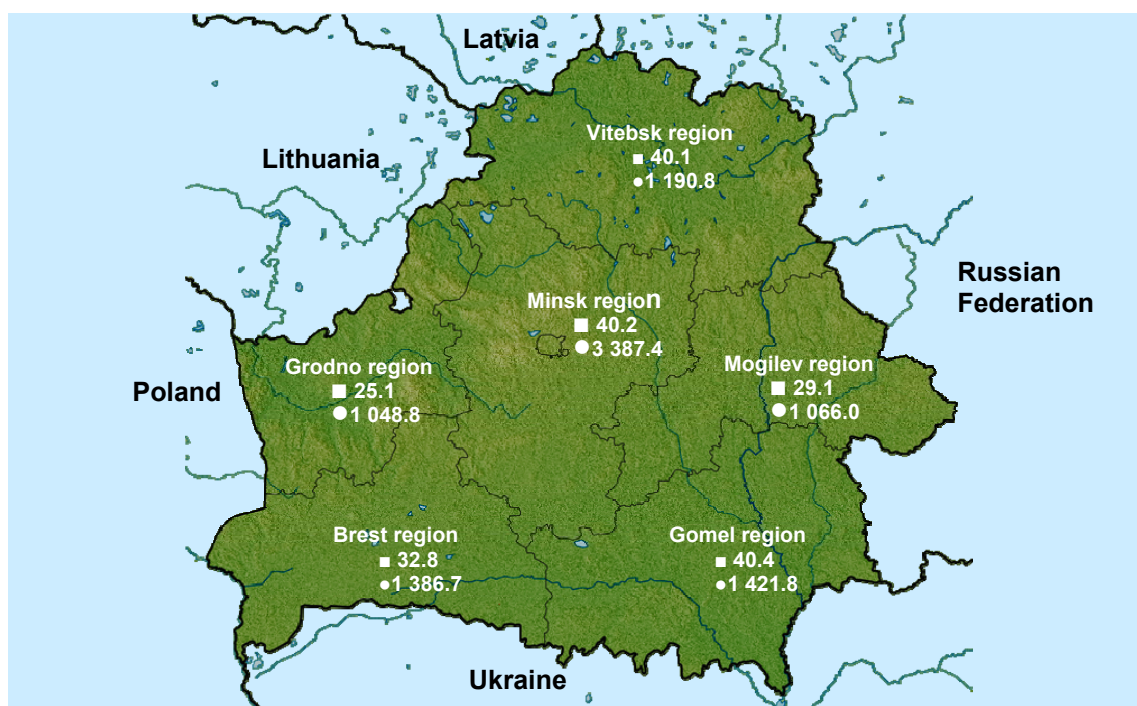
345 metres (Dzerzhinskaya mountain, Dzerzhinsk district of Minsk region).

The lowest place above sea level

80-90 metres (valley of the Neman river, Grodno region).

Climate

Belarus has moderate climate, with mild and humid winters and warm and humid summers.



- Land area, thsd sq km
- Average annual population for 2016, thsd

1.2. Main characteristics of large and medium-sized rivers¹⁾

	Length, km		Catchment area, km ²	
	total	within country's territory	total	within country's territory
Large rivers				
Berezina	561	561	24 500	24 500
Goryn'	659	82	27 700	670
Dnieper	2 145	700	504 000	118 360
Western Dvina	1 020	338	87 900	33 150
Western Bug	772	169	73 470	9 990
Neman	914	436	98 200	34 610
Pripyat	761	495	121 000	50 900
Sozh	648	493	42 140	21 700
Medium-sized rivers				
Besed'	261	185	5 600	3 880
Viliya	510	276	25 100	10 920
Drut'	266	266	5 020	5 020
Western Berezina	182	182	4 000	4 000
Iput'	437	64	10 900	1 250
Oster	274	78	3 370	640
Ptich	421	421	9 470	9 470
Svisloch	257	257	5 160	5 160
Uhort'	292	126	5 820	1 910
Shchara	300	300	6 730	6 730
Yaselda	214	214	7 790	7 790

¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

1.3. Main characteristics of largest reservoirs¹⁾

	Surface area, km ²	Type of reservoir	Main function	Put into operation	Location (region, district)
Western Dvina basin					
Khorobrovka	31.97	lake-type	fish farming, recreation	1967	Vitebsk, Miory
Yezerishchenskoye	16.90	lake-type	flow regulation	1959	Vitebsk, Gorodok

Continued

	Surface area, km ²	Type of reservoir	Main function	Put into operation	Location (region, district)
Western Bug basin					
Belovezhskaya Pushcha	3.32	in-channel	nesting of wild birds, fish raising	1964 ²⁾	Brest, Kamenets
Lukovskoye	5.40	lake-type off-channel	moistening, water supply of fish farm	1980	Brest, Malorita
Neman basin					
Vileyskoye	63.80	in-channel	water supply for Minsk City, power generation, recreation	1974	Minsk, Vileyka
Zelenskoye	11.90	in-channel	power generation, flow regulation, irrigation, recreation	1983 ²⁾	Grodno, Zelva
Dnieper basin					
Zaslavskoye	26.86	in-channel	flow regulation, recreation, water supply	1958	Minsk, Minsk
Osipovichskoye	11.87	in-channel	power generation, water supply of fish farm, irrigation	1953 ²⁾	Mogilev, Osipovichy
Svetlogorskoye	14.10	off-channel	diversion of runoff, irrigation, recreation	1986	Gomel, Svetlogorsk
Chighirinskoye	21.19	in-channel	power generation, recreation	1960	Mogilev, Kirovsk
Pripyat basin					
Krasnoslobodskoye	23.65	in-channel	watering, water supply of fish farm	1973	Minsk, Soligorsk
Lyubanskoye	22.50	in-channel	moistening, water supply of fish farm	1966	Minsk, Lyuban and Staryie Dorogi
Pogost	16.16	lake-type off-channel	moistening, water supply of fish farm	1978	Brest, Pinsk
Selets	20.70	in-channel	moistening, water supply of fish farm	1986	Brest, Bereza
Soligorskoye	23.10	in-channel	water supply, watering	1967	Minsk, Soligorsk

¹⁾ Data of the research laboratory for limnology of the Belarusian State University.

²⁾ Year when the reservoir filling began.

1.4. Main characteristics of largest lakes¹⁾

	Area, km ²	Depth, m		Location (region, district)
		maximum	average	
Naroch	79.6	24.8	8.9	Minsk, Myadel
Osveyskoye	52.8	7.5	2.0	Vitebsk, Verkhnedvinsk
Chervonoye	40.8	2.9	0.7	Gomel, Zhitkovichy
Lukomskoye	37.7	11.5	6.6	Vitebsk, Chashniki
Drivyaty	36.1	12.0	6.1	Vitebsk, Braslav
Vygonoshchanskoye	26.0	2.3	1.2	Brest, Ivatsevichy
Neshcherdo	24.6	8.1	3.4	Vitebsk, Rossony
Svir	22.3	8.7	4.7	Minsk, Myadel
Snudy	22.0	16.5	4.9	Vitebsk, Braslav
Chernoye	17.3	3.0	1.3	Brest, Bereza
Ezerishche	16.8	11.5	4.4	Vitebsk, Gorodok
Myadel	16.2	24.6	6.3	Minsk, Myadel
Lisno	15.7	6.1	2.6	Vitebsk, Verkhnedvinsk
Selyava	15.0	17.6	6.3	Minsk, Krupki
Myastro	13.1	11.3	5.4	Minsk, Myadel
Strusto	13.0	23.0	7.3	Vitebsk, Braslav
Richy	12.8	51.9	10.2	Vitebsk, Braslav
Losvido	11.4	20.2	7.2	Vitebsk, Gorodok
Lepelskoye	10.2	33.7	7.3	Vitebsk, Lepel

¹⁾ Data of the research laboratory for limnology of the Belarusian State University.

2. CONSERVATION AREAS

Conservation areas are the part of the territory of the Republic of Belarus with the unique, etalon or other valuable natural complexes and features that have special ecological, scientific and/or aesthetic value, in respect to which special protection and use regulations are established.

Nature reserve is a conservation area designated as such for the purpose of preservation of etalon and other high-value natural habitats and features, study of flora and fauna, natural ecosystems and landscapes, establishing of conditions for the natural course of processes in nature.

National park is a conservation area designated as such to restore and/ or preserve the unique, etalon and other high-value natural habitats and features, and to serve for nature protection, research, educational, tourism and recreational purposes.

The section is prepared on the basis of data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

2.1. Conservation areas in the Republic of Belarus

(as of January 1)

	2011	2014	2015	2016	2017		
					number of areas	total area, thsd ha	share of conservation areas in total country area, %
Total conservation areas	1 296	1 213	1 231	1 265	1287	1 798.7	8.7
of which:							
nature reserves, national parks	5	5	5	5	5	475.5	2.3
habitat/ species management areas	438	334	352	373	376	1 309.2	6.3
of which of:							
national significance	85	85	85	98	98	943.8	4.5
local significance	353	249	267	275	278	365.4	1.8
natural monuments	853	874	874	887	906	14.0	0.1
of which of:							
national significance	306	306	306	319	329	3.3	0.0
local significance	547	568	568	568	577	10.7	0.1

2.2. Conservation areas by regions and Minsk city as of January 1, 2017

	Nature reserves, national parks			Habitat/species management areas of national significance		
	number	thsd ha	as % of total land area	number	thsd ha	as % of total land area
Republic of Belarus	5 ¹⁾	475.5	2.3	98 ¹⁾	943.8	4.5
Regions and Minsk city:						
Brest	1	86.3	2.6	18	335.3	10.2
Vitebsk	3	131.8	3.3	25	188.9	4.7
Gomel	1	88.6	2.2	13	113.0	2.8
Grodno	2	64.0	2.5	15	130.7	5.2
Minsk city	—	—	—	2	0.5	1.4
Minsk	2	104.8	2.6	23	125.1	3.1
Mogilev	—	—	—	4	50.3	1.7

	Habitat/species management areas of local significance			Natural monuments	
	number	thsd ha	as % of total land area	of national significance	of local significance
Republic of Belarus	278	365.4	1.8	329	577
Regions and Minsk city:					
Brest	29	47.9	1.5	31	60
Vitebsk	60	57.3	1.4	86	162
Gomel	43	96.7	2.4	13	50
Grodno	29	56.5	2.2	96	125
Minsk city	—	—	—	2	—
Minsk	51	72.1	1.8	87	104
Mogilev	66	34.9	1.2	14	76

¹⁾ The total number of nature reserves, national parks and habitat/species management areas of national significance is given considering the fact that the Berezinsky Biosphere Reserve, the National Park "Belovezhskaya Pushcha", the National Park "Narochansky" and some habitat/species management areas of national significance are situated in the territory of several regions.

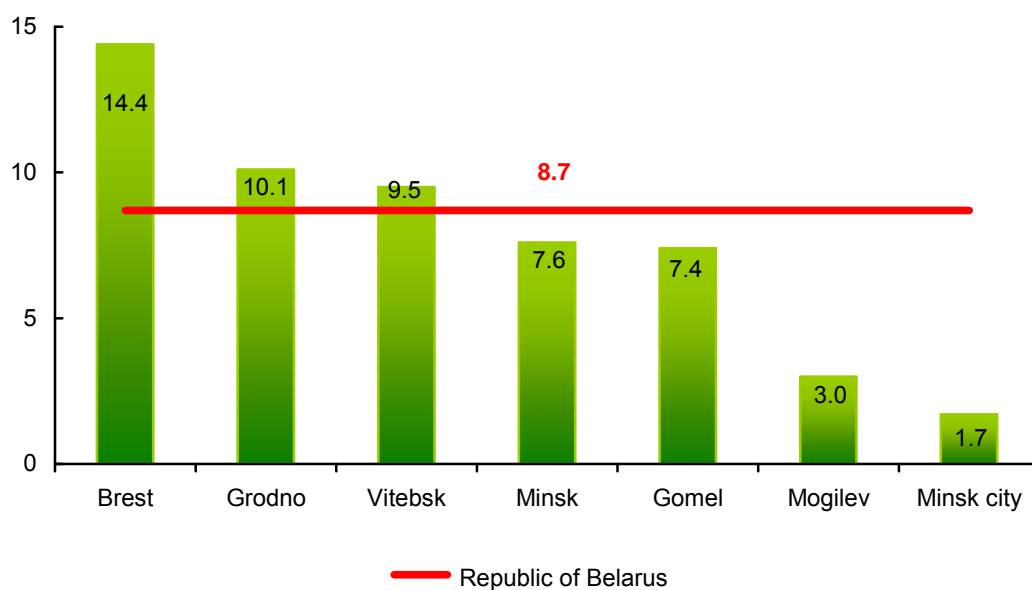
2.3. Share of conservation areas in total land area of the country, regions and Minsk city

(percent)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	7.7	7.7	7.6	7.8	8.2	8.8	8.7
Regions and Minsk city:							
Brest	13.8	13.9	13.9	14.0	14.1	14.2	14.4
Vitebsk	8.9	8.9	8.7	8.8	8.8	9.5	9.5
Gomel	4.8	4.8	5.0	5.7	6.8	7.4	7.4
Grodno	10.4	10.4	9.8	9.9	9.8	9.9	10.1
Minsk city	0.5	0.5	0.4	0.4	0.4	1.7	1.7
Minsk	6.3	6.3	6.2	6.4	6.9	7.6	7.6
Mogilev	2.7	2.4	2.3	2.3	3.8	4.4	3.0

2.4. Share of conservation areas in total land area of the country, regions and Minsk city in 2016

(percent)



2.5. Main characteristics of nature reserves and national parks

(as of January 1, 2017)

	Location (region, district), year of foundation	Total area, thsd ha	Designation
Nature reserves			
Berezinsky Biosphere Reserve	Vitebsk region, Dokshytsy and Lepel districts; Minsk region, Borisov district 1925	85.2	Preservation of the natural reference and other high-value natural complexes and features, study of flora and fauna, typical and unique ecosystems and landscapes characteristic of the Eastern European mixed forest zone, creation of conditions to ensure the conservation of natural processes. A distinctive feature of the reserve is a unique complex of forest and wetland ecosystems that almost completely preserved their natural state.
Polessky State Radiation and Ecological Reserve	Gomel region, Bragin, Narovlya and Hoyniki districts 1988	216.1	Restricting public access to the areas contaminated as a result of the disaster at the Chernobyl nuclear power plant, from which the population was evacuated and resettled; radiation protection, prevention of the spread of radionuclides, radiation monitoring, radio-ecological research, study of flora and fauna, typical and unique ecosystems and landscapes, natural processes characteristic of Pripjat Polessye. The features of the reserve are the presence of high levels of environmental pollution as a result of the disaster at the Chernobyl nuclear power plant, including transuranic isotopes, restoration of the natural state of biogeocenoses as a result of removal of anthropogenic load.

Continued

	Location (region, district), year of foundation	Total area, thsd ha	Designation
National parks			
Belovezhskaya Pushcha	Brest region, Kamenets and Pruzhany districts; Grodno region, Svisloch district 1939	150.1	Preservation in the natural state and comprehensive study of the natural standard and unique features of the Bialowieza forest, of biological and landscape diversity of the area, restoration of damaged natural complexes and objects of special ecological, historical, cultural and aesthetic value as well as their use for nature protection, scientific, educational and recreational purposes.
Braslavskie Ozera (the Braslav Lakes)	Vitebsk region, Braslav district 1995	64.5	Preservation of the natural complex of the Braslav Lakes as an etalon of natural landscapes, storage of genetic stock of the flora and fauna of the Belarusian Lake Land and its use for nature protection, scientific, educational, tourism and recreational purposes.
Pripyatsky	Gomel region, Zhitkovichi, Petrikov and Lelchitsy districts 1969	88.6	Preservation of the natural complex of the valley of the Pripyat river as an etalon of natural landscapes, storage of the genetic stock of flora and fauna of Belarusian Polesye and its use for nature protection, scientific, educational, tourism and recreational purposes.
Narochansky	Minsk region, Myadel and Vileyka districts; Vitebsk region, Postavy district; Grodno region, Smorgon district 1999	87.1	Preservation of unique natural complexes joined by Lake Narach as etalon landscapes, storage of genetic stock of the flora and fauna of the Belarusian Lake Land and their more complete and efficient use for nature protection, scientific, educational, tourism and recreational purposes.

**2.6. Rare and endangered wildlife species listed
in the Red Book of the Republic of Belarus or protected
under international treaties of the Republic of Belarus**

(number of species)

	2010	2011	2012	2013	2014	2015	2016
Plants – total	274	293	293	293	303	303	303
of which:							
angiosperms	161	166	166	166	173	173	173
gymnosperms	1	1	1	1	1	1	1
horsetails, club mosses, ferns	11	15	15	15	15	15	15
mosses	27	31	31	31	34	34	34
lichens	24	24	24	24	25	25	25
algae	21	21	21	21	21	21	21
fungi	29	35	35	35	34	34	34
Mammals	17	17	17	17	20	20	20
Birds	71	71	71	71	70	70	70
Reptiles	2	2	2	2	2	2	2
Amphibians	2	2	2	2	2	2	2
Fish and fish-shaped	10	10	10	10	10	10	10

3. GREEN GROWTH INDICATORS

The **green growth indicators (GGI)** have been produced in compliance with the Guide for the EU Eastern Partnership countries *“Measuring the Green Transformation of the Economy”* prepared by the Organisation for Economic Cooperation and Development (OECD).

GGI are divided into four basic groups:

- The environmental and resource productivity of the economy;
- Natural assets;
- The environmental quality of life;
- Economic opportunities;

as well as the group of socio-economic indicators.

The indicators of **the environmental and resource productivity of the economy** characterise environmental and economic efficiency of the use of natural resources and materials in the processes of production and consumption.

Production-based carbon productivity represents the GDP generated per unit of CO₂ emitted in production.

Waste recovery ratios are defined as the amount of waste used in production of products, energy, works and services as a percent of the amount of industrial waste generated.

The **natural assets** indicators characterise the efficiency on natural resource management and their rational use. In terms of natural assets, resource efficiency aims to ensure the required stocks of renewable and non-renewable resources for economic activity and economic growth as well as the proper management of processes related to the extraction and processing of natural resources, and non-admittance of degradation and depletion of natural resources.

The indicators characterizing **the environmental quality of life** evidence that the increase in production and growth of income not always lead to the better quality of life. Excessive concentration of economic activity may have negative impact on the state of the environment and the quality of life of the population.

The indicators reflecting **economic opportunities** characterise the support of the government and the role of business as the key stakeholders of green growth.

Ageing coefficient is a ratio of the number of population over age 64 to the number of population under age 15.

3.1. Socio-economic indicators

	2010	2011	2012	2013	2014	2015	2016
Socio-demographic dimension							
Average annual population, thsd	9 491	9 473	9 464	9 466	9 475	9 490	9 502
Population density, inhabitants per 1 km ²	46	46	46	46	46	46	46
Ageing coefficient, k	0.925	0.908	0.894	0.885	0.888	0.885	0.884
Life expectancy at birth, years	70.4	70.6	72.2	72.6	73.2	73.9	74.1
Labour force participation rate (labour force as % of the working-age population)	81.4	81.8	81.2	81.4	81.8	82.1	81.0
Average annual registered unemployment rate, % of labour force	0.8	0.7	0.6	0.5	0.5	0.9	1.0
Access to education:							
gross graduation ratio from higher education, % of population 22 years old	47.1	49.4	58.0	60.0	61.4	63.2	65.8
gross graduation ratio from secondary specialized education, % of population 18 years old	34.6	37.7	43.3	45.5	42.7	42.9	40.4
Gini coefficient, k	0.265	0.284	0.285	0.283	0.275	0.276	0.280
Economic dimension							
Gross domestic product ¹⁾							
BYR bn	170 466	307 245	547 617	670 688	805 793	899 098	94.3 ²⁾
% of previous year	107.7	105.5	101.7	101.0	101.7	96.2	97.4
Gross domestic product ³⁾ , USD bn by PPP	160.7	162.6	168.0	172.3	177.9	172.9	170.5
Labour productivity by GDP, BYR thsd	36 246	65 494	118 735	146 490	177 078	199 977	21.4 ²⁾
Consumer price index, % of previous year	107.8	153.2	159.2	118.3	118.1	113.5	111.8

¹⁾ GDP computed taking into account introduction of the main provisions of the 2008 SNA in the national statistical practice.

²⁾ BYN, in terms of the new denomination (1 BYN = 10 000 BYR).

³⁾ Belstat's estimate.

3.2. Environmental and resource efficiency of the economy

	2010	2011	2012	2013	2014	2015	2016
Production-based carbon productivity, BYR per kilogramme	2 736.2	4 971.1	8 899.5	10 800.2	13 141.5	15 767.0	...
Renewable electricity as % of total electricity generation	0.36	0.43	0.56	0.85	0.73	0.82	0.87
Waste generation intensity per unit of GDP, kilogrammes per BYR mln	257	144	75	60	65	55	0.5 ¹⁾
Waste generation intensity per capita, kilogrammes per capita	4 612	4 677	4 316	4 258	5 544	5 255	5 204
Waste recovery rate, k	0.3	0.3	0.3	0.5	0.3	0.2	0.3

¹⁾ Kilogrammes per BYN (1 BYN = 10 000 BYR).

3.3. Natural assets

3.3.1. Freshwater resources¹⁾

	2010	2011	2012	2013	2014	2015
Total						
Renewable freshwater resources						
mln m ³ per year	87 000	74 200	78 300	89 800	56 800	45 700
m ³ per inhabitant	9 167	7 833	8 273	9 487	5 995	4 816
Water abstraction from natural sources						
mln m ³ per year	1 598	1 638	1 642	1 571	1 571	1 448
m ³ per inhabitant	168	173	173	166	166	153
Intensity of freshwater resource use (water stress), %	1.8	2.2	2.1	1.7	2.8	3.2
of which:						
surface water bodies						
Renewable freshwater resources						
mln m ³ per year	71 100	58 300	62 400	73 900	40 900	29 800
m ³ per inhabitant	7 492	6 154	6 593	7 807	4 317	3 140
Water abstraction from natural sources						
mln m ³ per year	721	747	743	696	704	603
m ³ per inhabitant	76	79	79	74	74	64
Intensity of freshwater resource use (water stress), %	1.0	1.3	1.2	0.9	1.7	2.0

Continued

	2010	2011	2012	2013	2014	2015
groundwater bodies						
Renewable freshwater resources						
mln m ³ per year	15 900	15 900	15 900	15 900	15 900	15 900
m ³ per inhabitant	1 675	1 678	1 680	1 680	1 678	1 676
Water abstraction from natural sources						
mln m ³ per year	877	891	898	874	867	845
m ³ per inhabitant	92	94	95	92	92	89
Intensity of freshwater resource use (water stress), %	5.5	5.6	5.6	5.5	5.5	5.3

¹⁾ Based on data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

3.3.2. Land resources¹⁾

(at 1 January)

	2011	2012	2013	2014	2015	2016	2017
Total, thousand hectares							
Land resources	20 760	20 760	20 760	20 760	20 760	20 760	20 760
of which:							
agricultural land	8 898	8 874	8 817	8 726	8 632	8 582	8 540
forest land	8 567	8 585	8 589	8 631	8 653	8 742	8 769
wetlands and land under water bodies	1 343	1 338	1 330	1 328	1 309	1 286	1 271
other land	1 953	1 963	2 025	2 075	2 166	2 150	2 180
Percent of total							
Land resources	100	100	100	100	100	100	100
of which:							
agricultural land	42.9	42.7	42.5	42.0	41.6	41.3	41.1
forest land	41.3	41.4	41.4	41.6	41.7	42.1	42.2
wetlands and land under water bodies	6.5	6.4	6.4	6.4	6.3	6.2	6.1
other land	9.4	9.5	9.8	10.0	10.4	10.4	10.5

¹⁾ Based on data of the State Committee for Property of the Republic of Belarus.

3.3.3. Forest resources

	2010	2011	2012	2013	2014	2015	2016
Forested land:							
thsd hectares ¹⁾	8 094	8 123	8 124	8 180	8 211	8 293	8 358
hectares per capita	0.85	0.86	0.86	0.86	0.87	0.87	0.88
% of total land area of the country	39.0	39.1	39.1	39.4	39.6	39.9	40.3
Area of forest felling ²⁾ , thsd hectares	462.4	578.3	545.0	535.3	523.9	466.9	487.5

¹⁾ Based on data of the State Committee for Property of the Republic of Belarus.

²⁾ Based on data of the Ministry of Forestry of the Republic of Belarus.

3.3.4. Wildlife resources¹⁾

	2010	2011	2012	2013	2014	2015	2016
Animals							
Mammals – total species	78	78	78	78	79	81	81
of which threatened and endangered species	17	17	17	17	20	20	20
as % of total species	21.8	21.8	21.8	21.8	25.3	24.7	24.7
Birds – total species	317	318	319	322	323	325	329
of which threatened and endangered species	71	71	71	71	70	70	70
as % of total species	22.4	22.3	22.3	22.0	21.7	21.5	21.3
Reptiles – total species	7	7	7	7	7	7	7
of which threatened and endangered species	2	2	2	2	2	2	2
as % of total species	28.6	28.6	28.6	28.6	28.6	28.6	28.6
Amphibians – total species	13	13	13	13	13	13	13
of which threatened and endangered species	2	2	2	2	2	2	2
as % of total species	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Fish and fish-shaped species – total species	64	65	65	65	65	65	65
of which threatened and endangered species	10	10	10	10	10	10	10
as % of total species	15.6	15.4	15.4	15.4	15.4	15.4	15.4

Continued

	2010	2011	2012	2013	2014	2015	2016
Plants							
Vascular plants – total species	3 005	3 022	3 030	3 990	4 000	4 003	4 010
of which threatened and endangered species	173	182	182	182	189	189	189
as % of total species	5.8	6.0	6.0	4.6	4.7	4.7	4.7
Bryophytes – total species	440	435	433	433	433	433	435
of which threatened and endangered species	27	31	31	31	34	34	34
as % of total species	6.1	7.1	7.2	7.2	7.9	7.9	7.8
Lichens – total species	477	477	554	554	586	630	669
of which threatened and endangered species	24	24	24	24	25	25	25
as % of total species	5.0	5.0	4.3	4.3	4.3	4.0	3.7
Algae – total species	2 338	2 338	2 338	2 338	2 338	2 338	2 338
of which threatened and endangered species	21	21	21	21	21	21	21
as % of total species	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Fungi – total species	3 995	4 035	4 100	4 119	4 125	4 143	4 150
of which threatened and endangered species	29	35	35	35	34	34	34
as % of total species	0.7	0.9	0.9	0.8	0.8	0.8	0.8

¹⁾ Total number of animal and plant species – based on data of the National Academy of Sciences of Belarus; number of threatened and endangered animal and plant species – based on data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

3.4. Environmental quality of life

3.4.1. Average annual concentrations of selected air pollutants by cities¹⁾

(microgrammes per cubic metre of air)

	2010	2011	2012	2013	2014	2015	2016
Average annual concentration of particulate matter of PM ₁₀ fraction							
Average annual maximum permissible concentration	40	40	40	40	40	40	40
Brest	...	33	27	...	22	15	11
Vitebsk	24	20	...	17	18	16	15
Gomel	...	48	31	28	38	53	...
Grodno	...	23	24	20	21	...	20
Minsk							
residential area	24	21	22	20	20	15	12
industrial area	42	36	34	35	40	35	24
Mogilev							
residential area	23-25	19	19	18	22	14	15
industrial area	...	28	26	23	34	29	22
Novopolotsk	...	20	19	18	22	17	18
Polotsk	...	23	24	18	16	12	...
Average annual concentration of ground-level ozone							
Average annual maximum permissible concentration	90	90	90	90	90	90	90
Brest	...	50	62	65	54	...	58
Vitebsk	51	42
Gomel	52	54	44	45	45
Grodno	...	55	57	65	62	57	43
Minsk	48	40	38	49	32	44	40
Mogilev	...	45	48	...	34	49	46
Novopolotsk	...	56	55	59	48	55	47
Polotsk	...	50	50	55	47	56	48

¹⁾ Based on data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

3.4.2. Access to water supply and sewerage facilities

(based on data of sample household living standards survey;
beginning of year; % of total households)

	2011	2012	2013	2014	2015	2016	2017
Share of households living in apartments/ houses equipped with:							
piped water	86.4	86.3	88.6	89.9	90.5	92.6	93.7
hot water supply	78.3	77.8	80.8	82.7	83.6	85.1	86.1
sewerage	84.4	83.7	86.6	87.8	88.5	91.1	91.9

3.5. Economic opportunities

	2010	2011	2012	2013	2014	2015	2016
Total environmental expenditure, BYR bn	2 001.8	3 467.3	6 117.1	7 077.2	7 559.7	9 178.7	1 039.4 ¹⁾
Total environmental expenditure as % of GDP	1.2	1.2	1.2	1.1	1.0	1.0	1.1
Environmental tax – total, BYR bn	439	350	642	838	1 478	1 292	138 ¹⁾
% of GDP	0.3	0.1	0.1	0.1	0.2	0.1	0.1
% of total tax revenues	1.0	0.5	0.5	0.5	0.8	0.6	0.6

¹⁾ BYN million (1 BYN = 10 000 BYR).

4. ENVIRONMENTAL PROTECTION EXPENDITURE

Total environmental protection expenditure is the amount of environmental protection expenditure and fixed capital investment spent on environmental protection and rational use of natural resources.

Current expenditure on environmental protection is the amount of expenditure incurred on the maintenance and operation of fixed assets intended for environmental protection – for collection, transportation and treatment of wastewater; recycling and reused water supply; treatment, neutralization and detoxification of air polluting emissions; collection, segregation, disposal and/ or use of industrial waste; as well as expenditures for protection and rational use of land; fee for environmental protection services, and other environmental protection expenditures. The total environmental protection expenditure is calculated as current expenditure, excluding payments to other organisations for collection and treatment of wastewater; collection (procurement), disposal, storage, dumping and neutralization of industrial waste; land reclamation.

Fixed capital investment is total costs spent on acquisition, reproduction and creation of new fixed assets.

4.1. Total environmental protection expenditure

(at current prices; BYR billion)

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
Total environmental protection expenditure	2 001.8	3 467.3	6 117.1	7 077.2	7 559.7	9 178.7	1 039.4
of which:							
expenditure on environmental protection	1 586.9	2 719.7	5 233.8	6 113.7	6 298.3	7 020.0	748.5
of which:							
current expenditure on environmental protection	1 362.9	2 386.1	4 659.0	5 470.2	5 539.9	6 195.2	675.1
of which:							
protection and rational use of water resources	888.6	1 607.0	3 247.4	3 722.9	3 336.9	3 750.4	403.0
air protection, conservation of ozone layer and climate	219.2	377.9	691.4	789.6	983.2	1 050.0	116.0
environmental protection against industrial pollution	217.2	357.0	614.1	792.3	1 024.2	1 174.6	129.4

Continued

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
capital repairs of fixed assets intended for environmental protection	37.3	44.8	114.2	119.1	171.7	191.8	11.5
maintenance of nature reserves and national parks	87.5	130.2	241.4	257.4	302.2	280.9	27.5
reproduction and conservation of wild animal species	7.6	9.9	28.9	30.4	33.8	44.0	3.5
extinguishing forest fires caused by population and businesses and related recovery operations	0.2	0.1	0.1	0.0	0.1	2.4	0.0
research in the field of environmental protection	3.0	2.9	4.1	4.0	6.1	4.3	0.4
training of specialists in the field of environmental protection	43.5	69.5	114.5	133.8	157.0	186.6	18.5
functioning of environmental government authorities	44.9	76.2	71.6	98.8	87.5	114.9	11.9
fixed capital investment spent on environmental protection and rational use of natural resources	414.9	747.6	883.3	963.5	1 261.4	2 158.7	290.8
of which:							
protection and rational use of water resources	220.6	241.1	337.3	422.0	401.6	582.0	57.3
air protection	93.2	188.4	231.2	329.5	658.7	1 134.1	184.1
protection and rational use of land	83.0	104.3	240.7	148.1	147.0	357.8	28.3
Share of total environmental expenditure in GDP, %	1.2	1.2	1.2	1.1	1.0	1.0	1.1

¹⁾ BYN million (in terms of the new denomination, 1 BYN = 10 000 BYR).

4.2. Total environmental protection expenditure

(at constant prices; % of previous year)

	2010	2011	2012	2013	2014	2015	2016
Total environmental protection expenditure	101.6	104.5	100.0	99.7	93.9	105.1	101.7
of which:							
expenditure on environmental protection	107.6	101.0	109.2	101.8	90.7	95.9	95.0
of which:							
current expenditure on environmental protection	107.6	102.1	110.9	103.4	89.8	95.4	97.3
of which:							
protection and rational use of water resources	108.9	105.5	114.8	100.9	79.5	95.9	95.9
air protection, conservation of ozone layer and climate	109.6	100.6	104.0	100.5	110.4	91.1	98.7
environmental protection against industrial pollution	99.1	95.9	97.7	113.6	114.6	97.9	98.3
capital repairs of fixed assets intended for environmental protection	118.2	70.3	153.4	94.1	131.1	85.0	50.7
maintenance of nature reserves and national parks	130.6	92.5	99.6	82.2	93.3	99.0	84.7
reproduction and conservation of wild animal species	131.7	73.9	150.6	98.6	90.3	124.3	76.4

Continued

	2010	2011	2012	2013	2014	2015	2016
extinguishing forest fires caused by population and businesses and related recovery operations	17.8	54.0	41.0	23.7	286.4	2 001	4.9
research in the field of environmental protection	69.5	60.3	64.2	71.5	165.7	60.3	85.8
training of specialists in the field of environmental protection	109.2	104.2	103.5	98.8	99.4	104.7	88.8
functioning of environmental government authorities	77.7	114.5	51.8	99.3	71.1	109.1	91.0
fixed capital investment spent on environmental protection and rational use of natural resources	84.0	119.2	66.7	87.9	114.6	151.2	123.3
of which:							
protection and rational use of water resources	113.1	72.3	78.9	100.8	83.3	128.1	90.2
air protection	47.9	133.7	69.2	114.8	175.0	152.1	148.6
protection and rational use of land	92.9	83.2	130.1	49.6	86.9	215.0	72.4

4.3. Current expenditure on environmental protection by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
BYR billion; at current prices							
Republic of Belarus	1 700.8	2 846.3	5 573.4	6 606.8	6 819.4	7 651.8	832.1
Regions and Minsk city:							
Brest	155.5	263.6	435.6	479.1	617.2	733.6	93.1
Vitebsk	282.0	425.3	783.0	1 018.3	1 137.1	1 291.3	132.0
Gomel	401.3	802.0	1 987.2	2 151.7	1 618.7	1 845.8	189.4
Grodno	165.5	257.5	441.9	583.6	747.3	855.7	89.4
Minsk city	221.5	334.2	634.1	789.7	875.4	993.0	119.6
Minsk	213.6	353.3	607.3	744.2	880.1	1 005.9	112.2
Mogilev	261.4	410.5	684.4	840.1	943.7	926.7	96.4
As % of total							
Republic of Belarus	100	100	100	100	100	100	100
Regions and Minsk city:							
Brest	9.1	9.3	7.8	7.3	9.1	9.6	11.2
Vitebsk	16.6	14.9	14.0	15.4	16.7	16.9	15.9
Gomel	23.6	28.2	35.7	32.6	23.7	24.1	22.8
Grodno	9.7	9.0	7.9	8.8	11.0	11.2	10.7
Minsk city	13.0	11.7	11.4	12.0	12.8	13.0	14.4
Minsk	12.6	12.4	10.9	11.3	12.9	13.1	13.5
Mogilev	15.4	14.4	12.3	12.7	13.8	12.1	11.6

¹⁾ Value indicators are provided in BYN million (in terms of the new denomination, 1 BYN = 10 000 BYR).

4.4. Current expenditure on environmental protection by economic activity in 2016

(at current prices; BYN million)

	Current expenditure on environmental protection - total	Of which			
		protection and rational use of water resources	air protection, conservation of ozone layer and climate	environmental protection against industrial pollution	protection and rational use of land
Republic of Belarus	832.1	532.2	116.0	154.6	11.2
of which:					
Agriculture, forestry and fishing	20.9	9.1	0.5	10.1	0.9
Mining	10.2	2.2	1.1	1.6	5.2
Manufacturing	430.3	251.7	106.0	57.9	2.0
of which:					
Manufacture of food products, beverages and tobacco products	64.4	51.0	6.4	5.3	0.0
Manufacture of textile articles, wearing apparel, articles of leather and fur	18.1	15.4	0.9	1.6	–
Manufacture of products of wood and paper; printing and reproduction of recorded media	16.7	10.6	4.0	1.8	–
Manufacture of coke and refined petroleum products	100.8	73.0	23.2	1.7	0.0
Manufacture of chemicals and chemical products	83.0	31.8	18.1	27.6	1.3
Manufacture of basic pharmaceuticals and medicinal products	1.5	1.2	0.1	0.2	–

Continued

	Current expenditure on environmental protection - total	Of which			
		protection and rational use of water resources	air protection, conservation of ozone layer and climate	environmental protection against industrial pollution	protection and rational use of land
Manufacture of rubber and plastics products, of other non-metallic mineral products	33.0	11.3	15.3	5.4	0.4
Manufacture of basic metals; manufacture of fabricated metal products, except machinery and equipment	46.9	23.3	16.9	6.2	–
Manufacture of computer, electronic and optical products	9.7	7.3	1.9	0.4	–
Manufacture of electrical equipment	5.8	3.0	0.9	1.2	0.0
Manufacture of machinery and equipment n.e.c.	30.0	16.4	10.3	2.7	0.2
Manufacture of transport vehicles and equipment	10.9	5.6	2.5	2.2	0.0
Other manufacturing; repair and installation of machinery and equipment	9.5	1.8	5.6	1.7	–
Electricity, gas, steam, hot water and air conditioning supply	153.6	95.2	3.5	50.5	2.3
Water supply; waste management and remediation activities	181.3	152.7	1.7	26.2	0.0

Continued

	Current expenditure on environmental protection - total	Of which			
		protection and rational use of water resources	air protection, conservation of ozone layer and climate	environmental protection against industrial pollution	protection and rational use of land
Construction	2.9	1.1	0.5	0.7	0.4
Wholesale and retail trade; repair of motor vehicles and motorcycles	10.1	6.6	1.1	1.7	0.4
Transportation and storage, postal and courier activities	11.2	5.3	1.4	3.1	0.1
Accommodation and food service activities	0.0	0.0	–	0.0	–
Financial and insurance activities	0.9	0.0	–	0.9	–
Real estate activities	6.1	5.2	0.0	0.9	–
Professional, scientific and technical activities	0.4	0.3	0.0	0.0	–
Administrative and support service activities	1.8	1.1	0.0	0.7	–
Public administration	0.9	0.8	–	0.1	0.0
Education	0.0	0.0	–	0.0	–
Human health and social work activities	1.3	0.8	0.2	0.2	–
Arts, sports, entertainment and recreation	0.2	0.1	0.0	0.1	–

4.5. Fixed capital investment spent on environmental protection and rational use of natural resources by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
BYR billion (at current prices)							
Republic of Belarus	414.9	747.6	883.3	963.5	1 261.4	2 158.7	290.8
Regions and Minsk city:							
Brest	127.4	212.7	50.5	96.4	114.2	107.9	6.2
Vitebsk	104.4	165.6	181.8	279.3	681.9	1 286.8	73.3
Gomel	17.7	86.5	218.2	208.5	111.5	264.0	130.3
Grodno	49.2	86.9	39.6	80.0	83.8	3.7	13.6
Minsk city	9.7	32.3	89.9	29.5	49.3	86.4	37.2
Minsk	94.8	159.2	224.5	223.5	188.1	390.3	26.7
Mogilev	11.7	4.4	78.7	46.4	32.7	19.7	3.4
As % of total							
Republic of Belarus	100	100	100	100	100	100	100
Regions and Minsk city:							
Brest	30.7	28.5	5.7	10.0	9.1	5.0	2.1
Vitebsk	25.2	22.1	20.6	29.0	54.1	59.6	25.2
Gomel	4.3	11.6	24.7	21.6	8.8	12.2	44.8
Grodno	11.9	11.6	4.5	8.3	6.6	0.2	4.7
Minsk city	2.3	4.3	10.2	3.1	3.9	4.0	12.8
Minsk	22.8	21.3	25.4	23.2	14.9	18.1	9.2
Mogilev	2.8	0.6	8.9	4.8	2.6	0.9	1.2

¹⁾ Value indicators are provided in BYN million (in terms of the new denomination. 1 BYN = 10 000 BYR).

5. AIR PROTECTION

Air polluting emissions refer to the discharge of contaminants into the atmospheric air from sources of emission. Total air polluting emissions comprise emissions from mobile and stationary sources.

Mobile sources of emission are transport vehicles and self-propelled machines equipped with engines, the operation of which results in air polluting emissions.

Air polluting emissions from mobile sources are estimated in accordance with the Instruction on the procedure of recording of air polluting emissions from mobile sources, based on the amount of consumed fuels and data on the distribution of automotive vehicle fleet in use in the territory of the Republic of Belarus.

The volume of air polluting emissions from mobile sources is estimated by the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

Stationary sources of emission are sources of emission, the displacement of which is impossible without incommensurable detriment to their function. Stationary sources of emission are subdivided into organised and non-organised.

Organised stationary sources of emission refer to the sources equipped with the units allowing for localisation of air polluting emissions from sources of pollution.

Non-organised stationary sources of emission are sources that are not equipped with the units allowing for localisation of air polluting emissions from sources of pollution.

Beginning from 2015 the volume of air polluting emissions from stationary sources is estimated by the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

Amount of pollutants from stationary sources of emission includes both substances collected in flue systems, irrespective of whether they are directed or not to gas-treatment units, and substances emitted directly into the air. Pollutants from stationary sources do not include substances contained in technological gases and specially captured for production purposes.

Amount of captured and detoxified air pollutants includes all types of pollutants captured by and detoxified at gas-treatment plants out of the total volume of pollutants coming from stationary sources.

Amount of utilized air pollutants includes captured pollutants that are returned to production and utilized in industry.

Air polluting emissions from stationary and mobile sources are recorded by individual substances (ingredients).

5.1. Main indicators of air polluting emissions

	2010	2011	2012	2013	2014	2015	2016
Air polluting emissions – total, thsd t	1 319	1 315	1 389	1 374	1 344	1 259	1 245
of which:							
from mobile sources	942	944	956	928	881	801	792
from stationary sources	377	371	433	445	463	458	453
Air pollutants from stationary sources, thsd t	3 240	3 171	3 124	3 332	4 108	3 645	3 374
Captured and detoxified air pollutants from stationary sources, thsd t	2 863	2 800	2 691	2 887	3 646	3 187	2 921
Share of captured and detoxified air pollutants in total air polluting emissions from stationary sources, %	88	88	86	87	89	87	87
Reduction of air polluting emissions after emission-reducing activities, thsd t	3	4	3	26	14	6	19

Continued

	2010	2011	2012	2013	2014	2015	2016
As percentage of the previous year							
Air polluting emissions – total	82.7	99.7	105.6	98.9	97.8	93.7	98.9
of which:							
from mobile sources	82.8	100.2	101.3	97.1	94.9	90.9	98.9
from stationary sources	82.5	98.4	116.7	102.8	104.0	99.0	98.9
Air pollutants from stationary sources	129.7	97.9	98.5	106.7	123.3	88.7	92.6
Captured and detoxified air pollutants from stationary sources	140.3	97.8	96.1	107.3	126.3	87.4	91.7
As percentage of 2010							
Air polluting emissions – total	100	99.7	105.3	104.2	101.9	95.4	94.3
of which:							
from mobile sources	100	100.2	101.5	98.5	93.5	85.0	84.0
from stationary sources	100	98.4	114.9	118.0	122.8	121.5	120.1
Air pollutants from stationary sources	100	97.9	96.4	102.8	126.8	112.5	104.2
Captured and detoxified air pollutants from stationary sources	100	97.8	94.0	100.8	127.3	111.3	102.1

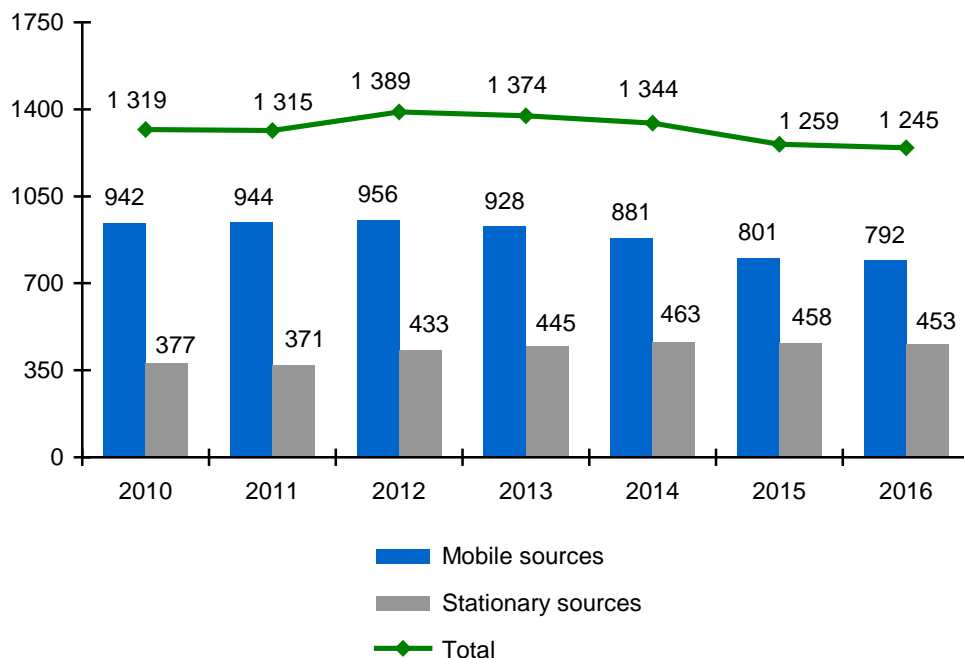
5.2. Air polluting emissions by regions and Minsk city

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Air polluting emissions – total							
Republic of Belarus	1 319.3	1 315.5	1 389.0	1 373.7	1 343.6	1 258.9	1 244.8
Regions and Minsk city:							
Brest	170.5	176.2	168.6	177.6	179.6	166.6	169.0
Vitebsk	212.3	209.5	223.8	226.1	212.5	208.4	201.4
Gomel	211.8	209.3	222.1	225.9	215.3	205.6	207.7
Grodno	175.9	167.1	161.6	170.0	166.2	154.3	148.9
Minsk city	187.8	207.9	236.5	185.6	181.2	146.4	140.0
Minsk	230.0	220.1	242.5	253.5	256.3	255.6	258.8
Mogilev	131.0	125.3	133.8	134.9	132.5	122.1	118.9
of which:							
from mobile sources							
Republic of Belarus	942.2	944.4	955.8	928.4	880.8	800.6	791.7
Regions and Minsk city:							
Brest	141.9	149.1	133.8	138.4	127.8	116.3	117.5
Vitebsk	117.9	117.3	113.4	120.3	110.0	96.4	93.5
Gomel	128.9	123.9	126.7	123.2	113.7	106.0	103.1
Grodno	131.2	123.2	113.3	116.8	107.4	97.8	95.1
Minsk city	156.9	182.2	209.9	160.5	157.7	126.1	121.9
Minsk	178.9	168.2	173.3	182.5	181.8	179.7	183.9
Mogilev	86.5	80.5	85.4	86.7	82.4	78.3	76.7
from stationary sources							
Republic of Belarus	377.1	371.1	433.2	445.3	462.8	458.3	453.1
Regions and Minsk city:							
Brest	28.6	27.1	34.8	39.2	51.8	50.3	51.5
Vitebsk	94.4	92.2	110.4	105.8	102.5	112.0	107.9
Gomel	82.9	85.4	95.4	102.7	101.6	99.6	104.6
Grodno	44.7	43.9	48.3	53.2	58.8	56.5	53.8
Minsk city	30.9	25.7	26.6	25.1	23.5	20.3	18.1
Minsk	51.1	51.9	69.2	71.0	74.5	75.9	74.9
Mogilev	44.5	44.8	48.4	48.2	50.1	43.8	42.2

5.3. Dynamics of air polluting emissions from stationary and mobile sources

(thousand tonnes)



5.4. Share of air polluting emissions from mobile sources by regions and Minsk city

(as % of total air polluting emissions)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	71.4	71.8	68.8	67.6	65.6	63.6	63.6
Regions and Minsk city:							
Brest	83.2	84.6	79.4	77.9	71.2	69.8	69.5
Vitebsk	55.5	56.0	50.7	53.2	51.8	46.3	46.4
Gomel	60.9	59.2	57.0	54.5	52.8	51.6	49.6
Grodno	74.6	73.7	70.1	68.7	64.6	63.4	63.9
Minsk city	83.5	87.6	88.8	86.5	87.0	86.1	87.1
Minsk	77.8	76.4	71.5	72.0	70.9	70.3	71.1
Mogilev	66.0	64.2	63.8	64.3	62.2	64.1	64.5

5.5. Air polluting emissions from mobile sources per inhabitant by regions and Minsk city

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	99	100	101	98	93	84	83
Regions and Minsk city:							
Brest	102	107	96	100	92	84	85
Vitebsk	96	96	94	100	92	81	79
Gomel	90	87	89	86	80	74	73
Grodno	123	116	107	111	102	93	91
Minsk city	85	97	111	84	82	65	62
Minsk	126	120	124	130	129	127	129
Mogilev	79	74	79	81	77	73	72

5.6. Air polluting emissions from mobile sources per square kilometre by regions and Minsk city

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	4 539	4 549	4 604	4 472	4 243	3 856	3 814
Regions and Minsk city:							
Brest	4 328	4 548	4 080	4 221	3 898	3 547	3 584
Vitebsk	2 944	2 928	2 832	3 004	2 747	2 407	2 335
Gomel	3 193	3 069	3 139	3 052	2 816	2 626	2 554
Grodno	5 221	4 905	4 509	4 648	4 274	3 892	3 785
Minsk city	511 075	593 446	603 135	461 207	453 161	362 356	350 287
Minsk	4 485	4 217	4 350	4 580	4 562	4 510	4 615
Mogilev	2 976	2 768	2 937	2 983	2 835	2 694	2 639

5.7. Air polluting emissions from mobile sources by selected ingredients by regions and Minsk city

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Total air polluting emissions							
Republic of Belarus	942.2	944.4	955.8	928.4	880.8	800.6	791.7
Regions and Minsk city:							
Brest	141.9	149.1	133.8	138.4	127.8	116.3	117.5
Vitebsk	117.9	117.3	113.4	120.3	110.0	96.4	93.5
Gomel	128.9	123.9	126.7	123.2	113.7	106.0	103.1
Grodno	131.2	123.2	113.3	116.8	107.4	97.8	95.1
Minsk city	156.9	182.2	209.9	160.5	157.7	126.1	121.9
Minsk	178.9	168.2	173.3	182.5	181.8	179.7	183.9
Mogilev	86.5	80.5	85.4	86.7	82.4	78.3	76.7
of which: carbon monoxide							
Republic of Belarus	619.1	612.8	618.2	604.4	576.5	526.9	521.3
Regions and Minsk city:							
Brest	91.3	95.0	84.3	88.1	81.2	74.3	74.9
Vitebsk	76.1	74.5	71.2	77.0	70.7	62.3	60.6
Gomel	83.3	79.0	80.2	78.2	71.7	67.6	65.8
Grodno	85.6	79.0	72.2	75.2	69.4	63.6	61.8
Minsk city	109.0	123.5	142.8	109.2	108.4	86.0	83.5
Minsk	117.3	110.2	113.0	120.7	121.3	121.4	124.2
Mogilev	56.5	51.7	54.6	56.0	53.8	51.7	50.5
nitrogen dioxide							
Republic of Belarus	99.9	104.9	105.7	101.7	95.1	85.1	84.0
Regions and Minsk city:							
Brest	15.9	17.3	15.7	16.0	14.8	13.3	13.5
Vitebsk	13.0	13.7	13.4	13.7	12.4	10.7	10.3
Gomel	14.3	14.4	14.7	14.3	13.4	12.1	11.8
Grodno	14.2	14.1	13.0	13.2	12.0	10.7	10.4
Minsk city	14.2	18.1	20.4	15.8	15.0	12.3	11.7
Minsk	19.0	18.2	18.7	19.1	18.6	17.7	18.2
Mogilev	9.3	9.1	9.7	9.6	8.9	8.3	8.1

Continued

	2010	2011	2012	2013	2014	2015	2016
sulphur dioxide							
Republic of Belarus	2.6	2.7	2.7	0.3	0.2	0.1	0.0
Regions and Minsk city:							
Brest	0.4	0.4	0.4	0.1	0.0	0.0	0.0
Vitebsk	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Gomel	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Grodno	0.4	0.4	0.3	0.0	0.0	0.0	0.0
Minsk city	0.4	0.5	0.6	0.1	0.1	0.0	0.0
Minsk	0.5	0.5	0.5	0.1	0.1	0.1	0.0
Mogilev	0.2	0.2	0.2	0.0	0.0	0.0	0.0
hydrocarbons							
Republic of Belarus	190.8	193.4	198.5	192.7	182.0	164.5	163.1
Regions and Minsk city:							
Brest	29.4	31.2	28.6	29.4	27.3	24.7	25.1
Vitebsk	24.3	24.5	24.2	25.4	23.1	20.1	19.5
Gomel	26.6	25.9	26.8	26.2	24.4	22.5	21.9
Grodno	26.8	25.6	23.9	24.5	22.5	20.4	19.9
Minsk city	29.6	35.4	41.4	31.8	30.9	25.0	24.1
Minsk	36.4	34.1	35.7	37.2	36.7	35.9	36.8
Mogilev	17.7	16.7	17.9	18.2	17.1	16.0	15.8
soot							
Republic of Belarus	29.8	30.5	30.8	29.3	27.0	23.9	23.3
Regions and Minsk city:							
Brest	4.9	5.2	4.9	4.8	4.5	4.0	4.0
Vitebsk	4.2	4.1	4.3	4.2	3.8	3.3	3.1
Gomel	4.3	4.3	4.7	4.5	4.2	3.8	3.6
Grodno	4.2	4.2	3.9	3.9	3.5	3.1	3.0
Minsk city	3.7	4.7	4.6	3.6	3.3	2.8	2.6
Minsk	5.7	5.3	5.5	5.4	5.1	4.6	4.7
Mogilev	2.8	2.7	2.9	2.9	2.6	2.3	2.3

5.8. Air polluting emissions from stationary sources per inhabitant by regions and Minsk city

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	40	39	46	47	49	48	48
Regions and Minsk city:							
Brest	20	19	25	28	37	36	37
Vitebsk	77	76	91	88	85	94	91
Gomel	58	60	67	72	71	70	74
Grodno	42	41	46	50	56	54	51
Minsk city	17	14	14	13	12	10	9
Minsk	36	37	49	51	53	54	53
Mogilev	41	41	45	45	47	41	40

5.9. Air polluting emissions from stationary sources per square kilometre by regions and Minsk city

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	1 817	1 788	2 087	2 145	2 229	2 208	2 182
Regions and Minsk city:							
Brest	872	828	1 061	1 196	1 580	1 533	1 571
Vitebsk	2 359	2 302	2 758	2 643	2 560	2 796	2 695
Gomel	2 052	2 116	2 363	2 543	2 517	2 467	2 591
Grodno	1 777	1 746	1 924	2 117	2 340	2 248	2 142
Minsk city	100 775	83 853	76 353	72 198	67 517	58 351	51 928
Minsk	1 281	1 302	1 738	1 781	1 870	1 905	1 879
Mogilev	1 531	1 541	1 667	1 660	1 722	1 506	1 453

5.10. Air polluting emissions from stationary sources by selected ingredients by regions and Minsk city

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	377.1	371.1	433.2	445.3	462.8	458.3	453.1
Regions and Minsk city:							
Brest	28.6	27.1	34.8	39.2	51.8	50.3	51.5
Vitebsk	94.4	92.2	110.4	105.8	102.5	112.0	107.9
Gomel	82.9	85.4	95.4	102.7	101.6	99.6	104.6
Grodno	44.7	43.9	48.3	53.2	58.8	56.5	53.8
Minsk city	30.9	25.7	26.6	25.1	23.5	20.3	18.1
Minsk	51.1	51.9	69.2	71.0	74.5	75.9	74.9
Mogilev	44.5	44.8	48.4	48.2	50.1	43.8	42.2
of which: solids							
Republic of Belarus	44.3	39.9	37.4	36.1	34.9	30.1	27.4
Regions and Minsk city:							
Brest	5.4	4.7	4.5	4.3	4.3	3.3	3.2
Vitebsk	7.1	6.1	6.0	6.0	6.2	5.6	5.1
Gomel	6.6	5.7	5.5	5.5	5.4	4.4	4.3
Grodno	7.1	6.8	5.8	5.6	5.2	5.0	4.4
Minsk city	2.6	2.5	2.4	2.2	2.0	1.6	1.4
Minsk	9.0	8.2	7.4	6.9	6.4	6.1	5.1
Mogilev	6.5	5.8	5.8	5.7	5.5	4.1	3.9
sulphur dioxide							
Republic of Belarus	51.7	44.4	63.7	48.5	50.3	56.8	53.3
Regions and Minsk city:							
Brest	2.5	1.4	2.1	1.2	1.3	1.3	1.2
Vitebsk	19.6	17.4	31.5	21.0	23.0	27.5	25.4
Gomel	18.9	18.3	19.6	19.9	19.8	21.8	20.6
Grodno	1.5	0.8	2.1	0.9	0.9	1.0	1.7
Minsk city	1.9	0.9	2.0	0.9	1.0	0.8	0.6
Minsk	5.4	4.2	4.5	3.3	2.4	3.1	2.7
Mogilev	1.9	1.3	1.9	1.3	1.9	1.3	1.3

Continued

	2010	2011	2012	2013	2014	2015	2016
carbon monoxide							
Republic of Belarus	75.1	73.9	78.6	81.9	80.9	75.4	73.1
Regions and Minsk city:							
Brest	6.6	6.7	6.6	6.3	6.2	5.5	5.5
Vitebsk	12.8	12.0	12.8	14.5	14.4	14.6	14.4
Gomel	13.6	13.7	15.6	16.8	15.9	12.9	15.1
Grodno	9.5	9.9	8.7	8.3	8.8	9.9	7.8
Minsk city	11.2	11.5	11.0	10.1	10.3	8.5	7.0
Minsk	13.6	12.5	15.5	17.9	17.1	17.4	16.5
Mogilev	7.8	7.7	8.3	7.8	8.2	6.6	6.8
nitrogen dioxide							
Republic of Belarus	57.1	52.8	52.8	55.7	54.3	49.3	50.8
Regions and Minsk city:							
Brest	4.0	3.8	3.5	3.0	3.8	4.0	3.7
Vitebsk	14.8	12.5	11.0	11.7	9.4	9.6	10.3
Gomel	10.3	9.1	9.7	10.0	9.1	8.7	9.5
Grodno	8.4	8.6	7.5	8.7	9.8	8.5	9.3
Minsk city	5.0	4.6	5.2	6.0	5.4	5.0	5.2
Minsk	5.9	5.7	6.5	5.8	6.4	5.6	5.2
Mogilev	8.7	8.5	9.5	10.4	10.5	8.0	7.6
non-methane volatile organic compounds							
Republic of Belarus	63.0	66.9	70.0	60.9	55.5	54.0	54.0
Regions and Minsk city:							
Brest	1.7	1.6	2.2	2.2	2.4	1.9	1.5
Vitebsk	31.3	32.8	34.9	27.1	25.3	25.8	25.2
Gomel	16.4	16.6	16.5	14.8	13.6	13.8	14.0
Grodno	3.6	3.5	3.7	4.1	3.5	3.0	3.2
Minsk city	4.3	4.4	4.7	4.3	3.3	2.8	2.3
Minsk	2.9	3.2	3.6	4.1	3.5	2.9	3.5
Mogilev	2.8	4.8	4.5	4.4	3.9	3.9	4.3

Continued

	2010	2011	2012	2013	2014	2015	2016
hydrocarbons							
Republic of Belarus	53.6	63.8	99.9	125.8	149.1	157.7	158.8
Regions and Minsk city:							
Brest	6.6	6.8	13.0	18.3	28.0	28.8	30.7
Vitebsk	3.4	6.3	9.4	19.2	18.7	23.2	21.5
Gomel	9.9	17.1	23.4	29.9	30.7	31.8	34.3
Grodno	8.5	8.9	14.9	19.4	23.8	22.5	21.2
Minsk city	4.5	0.9	0.5	0.6	0.5	0.6	0.5
Minsk	8.8	12.0	24.1	23.5	30.7	33.7	34.8
Mogilev	11.9	11.7	14.6	14.8	16.6	17.2	15.7
nitrogen oxide							
Republic of Belarus	6.5	5.9	6.2	6.5	6.0	5.7	5.9
Regions and Minsk city:							
Brest	0.6	0.6	0.5	0.5	0.6	0.7	0.6
Vitebsk	2.1	1.7	1.3	1.5	1.1	1.1	1.4
Gomel	0.9	0.8	0.9	0.9	0.9	0.8	0.9
Grodno	0.5	0.5	0.6	0.7	0.6	0.7	0.7
Minsk city	0.7	0.6	0.7	0.9	0.8	0.8	0.8
Minsk	0.9	1.0	1.2	1.1	1.2	1.1	1.0
Mogilev	0.8	0.7	0.8	0.9	0.8	0.5	0.4
other							
Republic of Belarus	25.8	23.6	24.7	29.9	31.7	29.2	29.7
Regions and Minsk city:							
Brest	1.2	1.6	2.3	3.5	5.3	4.8	5.1
Vitebsk	3.3	3.4	3.5	4.8	4.4	4.7	4.7
Gomel	6.3	4.2	4.2	4.8	6.1	5.5	5.9
Grodno	5.6	4.8	5.1	5.4	6.1	5.9	5.5
Minsk city	0.7	0.2	0.1	0.1	0.1	0.2	0.1
Minsk	4.6	5.3	6.4	8.4	6.9	6.0	6.1
Mogilev	4.1	4.3	3.0	2.9	2.7	2.1	2.3

**5.11. Air polluting emissions from stationary sources
from fuel combustion by selected ingredients
by regions and Minsk city**

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	112.9	91.6	96.0	90.1	83.0	83.1	89.9
Regions and Minsk city:							
Brest	12.3	10.2	10.1	8.6	9.7	9.4	8.7
Vitebsk	28.7	22.3	22.6	21.5	20.6	20.8	26.6
Gomel	16.0	13.6	13.0	12.2	11.3	9.5	12.0
Grodno	9.4	8.4	9.7	8.2	7.3	7.3	7.7
Minsk city	9.0	7.4	8.9	8.8	7.9	7.1	7.3
Minsk	22.7	18.4	20.5	21.3	16.4	20.7	19.6
Mogilev	14.8	11.3	11.2	9.5	9.9	8.4	8.2
of which: solids							
Republic of Belarus	13.6	12.2	11.8	11.5	10.9	9.6	9.2
Regions and Minsk city:							
Brest	2.1	1.8	1.7	1.8	1.7	1.3	1.2
Vitebsk	2.7	2.4	2.6	2.2	2.3	2.2	2.1
Gomel	1.7	1.5	1.5	1.7	1.7	1.0	1.0
Grodno	1.2	1.3	1.2	1.0	0.9	0.9	0.8
Minsk city	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Minsk	3.0	3.0	2.8	2.8	2.4	2.5	2.3
Mogilev	2.8	2.2	2.0	2.0	1.9	1.7	1.8
sulphur dioxide							
Republic of Belarus	19.5	11.6	16.9	7.7	8.5	8.6	12.5
Regions and Minsk city:							
Brest	2.1	1.0	1.7	0.8	0.9	1.0	0.9
Vitebsk	5.3	2.7	4.2	1.3	3.0	2.3	5.0
Gomel	3.2	2.1	2.2	1.1	0.9	0.9	2.1
Grodno	0.9	0.3	1.6	0.4	0.5	0.4	0.8
Minsk city	1.6	0.6	1.7	0.6	0.8	0.6	0.4
Minsk	4.9	3.8	4.1	2.9	1.9	2.8	2.4
Mogilev	1.5	1.0	1.4	0.6	0.6	0.6	0.9

Continued

	2010	2011	2012	2013	2014	2015	2016
carbon monoxide							
Republic of Belarus	36.2	30.5	31.7	33.8	28.8	32.3	32.9
Regions and Minsk city:							
Brest	3.7	3.4	3.2	2.9	2.9	2.6	2.7
Vitebsk	6.8	6.2	6.9	7.9	7.9	8.4	9.3
Gomel	5.2	4.8	4.8	4.6	4.3	3.6	4.2
Grodno	3.6	3.7	3.6	3.0	2.8	3.0	3.0
Minsk city	2.4	2.2	2.0	1.9	1.7	1.5	1.3
Minsk	9.4	6.3	7.5	10.1	5.8	10.3	9.6
Mogilev	5.1	3.9	3.8	3.2	3.4	2.8	2.9
nitrogen dioxide							
Republic of Belarus	36.6	30.8	29.2	29.8	27.1	25.6	26.4
Regions and Minsk city:							
Brest	3.5	3.3	2.8	2.4	3.2	3.4	3.2
Vitebsk	11.8	9.5	7.7	8.6	6.3	6.3	7.1
Gomel	5.2	4.2	3.8	3.8	3.3	3.0	3.6
Grodno	2.7	2.2	2.3	2.5	2.1	1.9	1.9
Minsk city	4.2	3.9	4.4	5.3	4.7	4.3	4.7
Minsk	4.7	4.3	5.1	4.2	4.5	4.0	3.7
Mogilev	4.5	3.4	3.2	3.0	3.0	2.6	2.2

**5.12. Air polluting emissions from stationary sources
from waste treatment and utilization, technological and other
processes by selected ingredients
by regions and Minsk city**

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	264.2	279.4	337.2	355.2	379.8	375.2	363.1
Regions and Minsk city:							
Brest	16.3	16.9	24.7	30.5	42.1	40.9	42.8
Vitebsk	65.7	69.9	87.8	84.4	82.0	91.2	81.4
Gomel	66.9	71.8	82.4	90.5	90.3	90.1	92.6
Grodno	35.3	35.4	38.6	45.0	51.5	49.2	46.2
Minsk city	21.9	18.3	17.7	16.4	15.6	13.2	10.8
Minsk	28.4	33.6	48.7	49.7	58.1	55.2	55.3
Mogilev	29.7	33.5	37.2	38.8	40.2	35.4	34.1
of which: solids							
Republic of Belarus	30.7	27.6	25.6	24.6	24.0	20.5	18.2
Regions and Minsk city:							
Brest	3.3	2.9	2.8	2.5	2.6	2.0	2.0
Vitebsk	4.4	3.8	3.5	3.7	3.9	3.4	3.0
Gomel	4.9	4.2	4.0	3.8	3.7	3.4	3.3
Grodno	5.9	5.5	4.6	4.5	4.3	4.1	3.5
Minsk city	2.5	2.5	2.3	2.2	2.0	1.6	1.4
Minsk	6.0	5.1	4.7	4.1	4.0	3.6	2.8
Mogilev	3.7	3.7	3.7	3.7	3.5	2.4	2.1
sulphur dioxide							
Republic of Belarus	32.2	32.8	46.8	40.8	41.8	48.2	40.8
Regions and Minsk city:							
Brest	0.4	0.4	0.4	0.4	0.4	0.3	0.3
Vitebsk	14.3	14.7	27.4	19.6	19.9	25.2	20.4
Gomel	15.7	16.2	17.4	18.8	18.9	20.9	18.5
Grodno	0.6	0.5	0.5	0.5	0.5	0.6	0.9
Minsk city	0.3	0.3	0.3	0.2	0.2	0.2	0.2
Minsk	0.5	0.3	0.4	0.5	0.5	0.3	0.3
Mogilev	0.4	0.4	0.4	0.7	1.4	0.7	0.4

Continued

	2010	2011	2012	2013	2014	2015	2016
carbon monoxide							
Republic of Belarus	38.9	43.4	46.9	48.1	52.1	43.1	40.2
Regions and Minsk city:							
Brest	2.9	3.3	3.4	3.4	3.2	2.9	2.8
Vitebsk	6.0	5.9	5.9	6.6	6.5	6.2	5.2
Gomel	8.4	8.8	10.8	12.2	11.6	9.2	10.9
Grodno	5.9	6.2	5.2	5.3	6.0	6.8	4.8
Minsk city	8.8	9.3	9.1	8.2	8.7	7.1	5.7
Minsk	4.2	6.2	8.0	7.8	11.3	7.1	6.9
Mogilev	2.7	3.8	4.5	4.6	4.8	3.8	3.9
nitrogen dioxide							
Republic of Belarus	20.5	22.0	23.5	25.9	27.2	23.8	24.4
Regions and Minsk city:							
Brest	0.5	0.5	0.6	0.6	0.5	0.5	0.5
Vitebsk	3.0	3.0	3.3	3.2	3.1	3.3	3.2
Gomel	5.1	4.9	6.0	6.2	5.8	5.7	5.9
Grodno	5.7	6.4	5.2	6.3	7.7	6.6	7.4
Minsk city	0.8	0.7	0.8	0.8	0.7	0.7	0.5
Minsk	1.2	1.4	1.5	1.6	1.9	1.6	1.5
Mogilev	4.2	5.1	6.3	7.4	7.5	5.5	5.4

5.13. Air polluting emissions from stationary sources by economic activity in 2010-2015¹⁾

(thousand tonnes)

	2010	2011	2012	2013	2014	2015
Total	377.1	371.1	433.2	445.3	462.8	458.3
of which:						
Agriculture, hunting and forestry	49.5	66.8	99.5	127.4	157.2	154.7
Mining	8.3	7.9	7.2	9.8	6.7	7.8
of which:						
Extraction of fossil fuels	6.1	5.9	5.3	7.9	4.9	4.6
Extraction of minerals other than fossil fuels	2.2	2.0	1.9	1.9	1.8	3.2
Manufacturing	186.9	187.6	206.5	192.7	189.7	184.4
of which:						
Manufacture of food, including beverages, and tobacco	17.4	15.5	16.4	19.4	18.2	17.3
Manufacture of textiles and textile articles	5.2	4.6	3.6	3.2	3.3	2.8
Manufacture of leather, articles of leather and footwear	0.7	0.7	0.7	0.7	0.7	0.4
Processing of wood; manufacture of products of wood	4.8	4.5	4.0	3.7	4.6	4.8
Manufacture of pulp and paper; publishing	2.7	2.5	2.4	1.8	1.7	1.4
Manufacture of coke, petroleum products and nuclear materials	71.9	73.8	88.3	84.4	82.6	90.4

Continued

	2010	2011	2012	2013	2014	2015
Manufacture of chemicals and chemical products	24.0	23.9	27.4	15.4	14.7	14.4
Manufacture of rubber and plastics products	2.2	2.8	2.1	2.3	1.8	2.0
Manufacture of other non-metallic mineral products	25.6	26.6	25.8	29.3	30.7	24.4
Manufacture of basic metals and fabricated metal products	10.0	9.5	12.1	10.6	10.9	10.4
Manufacture of machinery and equipment	11.6	12.6	13.9	12.8	11.7	9.1
Manufacture of electrical, electronic and optical equipment	1.4	1.3	1.4	1.5	1.3	1.1
Manufacture of transport vehicles and equipment	5.7	6.1	5.0	4.6	4.4	3.1
Other manufacturing	3.7	3.0	3.3	3.2	3.1	2.8
Electricity, gas and water supply	88.8	71.4	80.7	72.1	72.3	62.4
Construction	11.9	9.3	8.6	6.9	7.0	5.5
Trade; repair of motor vehicles and household and personal goods	2.9	4.2	3.4	3.4	1.9	2.1
Transport and communications	21.0	15.8	17.1	25.8	22.0	27.9
Community, social and personal services	3.2	3.2	3.2	3.5	3.0	2.6

¹⁾ In compliance with the national classification of the Republic of Belarus "Types of Economic Activities" 005-2006 (compliant with NACE 1.1).

5.14. Air polluting emissions from stationary sources by economic activity in 2016¹⁾

(thousand tonnes)

	Air pollution emissions from stationary sources - total	of which					
		solid	sulphur dioxide	carbon mon- oxide	nitrogen dioxide	hydro- carbons	non- methane volatile organic compo- unds
Republic of Belarus	453.1	27.4	53.3	73.1	50.8	158.8	54.0
of which:							
Agriculture, forestry and fishing	163.2	3.6	0.5	2.2	0.9	129.5	1.7
Mining	5.0	1.5	0.0	0.8	0.7	0.1	1.8
Manufacturing	176.8	13.0	44.0	40.8	26.6	4.7	43.0
of which:							
Manufacture of food products, beverages and tobacco products	15.8	1.4	1.5	8.3	1.4	2.2	0.5
Manufacture of textile articles, wearing apparel, articles of leather and fur	3.5	1.2	0.2	0.7	0.5	0.1	0.8
Manufacture of products of wood and paper; printing and reproduction of recorded media	7.5	1.6	0.9	2.0	0.8	0.4	1.5
Manufacture of coke and refined petroleum products	84.0	1.3	38.4	7.3	5.9	0.5	29.9
Manufacture of chemicals and chemical products	13.9	1.9	0.9	2.0	2.1	1.0	3.9
Manufacture of basic pharmaceuticals and medicinal products	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Manufacture of rubber and plastics products, of other non-metallic mineral products	26.5	2.4	1.3	6.6	13.4	0.2	1.9

Continued

	Air pollution emissions from stationary sources - total	of which					
		solid	sulphur dioxide	carbon monoxide	nitrogen dioxide	hydrocarbons	non-methane volatile organic compounds
Manufacture of basic metals; manufacture of fabricated metal products, except machinery and equipment	11.4	1.1	0.5	7.9	1.4	0.0	0.5
Manufacture of computer, electronic and optical products	0.3	0.0	0.0	0.1	0.1	0.0	0.1
Manufacture of electrical equipment	0.6	0.1	0.0	0.2	0.1	0.0	0.2
Manufacture of machinery and equipment n.e.c.	8.9	1.3	0.2	4.4	0.6	0.3	2.0
Manufacture of transport vehicles and equipment	2.1	0.4	0.1	0.7	0.2	0.0	0.8
Other manufacturing; repair and installation of machinery and equipment	2.2	0.4	0.0	0.6	0.2	0.0	0.9
Electricity, gas, steam, hot water and air conditioning supply	67.7	6.6	8.1	18.7	20.7	6.6	2.5
Water supply; waste management and remediation activities	8.6	0.1	0.0	0.2	0.0	7.3	0.4
Construction	4.3	1.7	0.2	1.7	0.2	0.0	0.4
Wholesale and retail trade; repair of motor vehicles and motorcycles	2.5	0.0	0.0	0.1	0.0	0.5	1.6
Transportation and storage, postal and courier activities	23.0	0.3	0.2	7.9	1.5	10.0	2.4
Real estate activities	0.4	0.2	0.0	0.1	0.0	0.0	0.0
Administrative and support service activities	0.5	0.2	0.0	0.2	0.0	0.0	0.0
Public administration	0.4	0.1	0.2	0.1	0.0	0.0	0.0

¹⁾ In compliance with the national classification of the Republic of Belarus "Types of Economic Activities" 005-2011 (compliant with NACE 2.0).

5.15. Air polluting emissions from stationary sources by selected cities

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Baranovichy	1.9	1.7	1.7	2.7	1.5	1.2	1.3
Bobruysk	7.6	6.7	6.5	6.0	5.3	4.3	3.6
Borisov	2.3	2.3	2.8	2.9	2.8	1.8	1.9
Brest	2.9	3.0	3.5	3.7	3.3	3.3	3.1
Vitebsk	3.7	4.9	4.8	3.8	3.6	3.5	3.1
Gomel	11.3	8.8	9.2	7.2	8.6	7.1	8.9
Grodno	11.5	10.7	11.9	10.6	10.0	9.7	9.6
Zhlobin	6.4	6.3	9.0	8.9	9.1	7.7	9.8
Zhodino	1.9	1.6	1.7	1.5	1.1	1.0	1.1
Lida	1.9	2.1	2.5	2.6	2.1	2.3	2.4
Minsk city	30.9	25.7	26.6	25.1	23.5	20.3	18.1
Mogilev	6.5	6.9	6.8	6.5	5.6	6.4	5.9
Mozyr	0.5	0.4	0.5	0.5	1.8	0.7	0.6
Molodechno	1.7	1.7	1.6	1.3	1.1	1.0	1.0
Novopolotsk	50.3	51.2	67.8	53.5	52.0	57.6	51.1
Orsha	3.6	3.2	3.6	2.0	2.0	2.1	2.2
Pinsk	2.3	1.6	1.5	1.4	1.1	1.2	1.3
Polotsk	2.0	1.7	1.7	2.0	2.3	2.1	2.2
Rechitsa	2.3	1.5	1.4	1.0	1.2	1.2	1.4
Svetlogorsk	3.3	2.6	2.8	2.4	2.7	2.6	2.0
Slutsk	3.7	3.4	3.7	3.3	2.9	2.3	2.9

5.16. Air polluting emissions from stationary sources per inhabitant by selected cities

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Baranovichy	11	10	10	15	8	7	7
Bobruysk	36	31	30	28	24	20	17
Borisov	16	15	19	20	19	13	13
Brest	9	9	11	11	10	10	9
Vitebsk	10	14	13	10	10	9	8
Gomel	23	18	18	14	16	14	17
Grodno	34	31	34	30	28	27	26
Zhlobin	85	84	119	118	121	102	129
Zhodino	30	26	28	25	18	16	17
Lida	20	22	25	26	21	23	24
Minsk City	17	14	14	13	12	10	9
Mogilev	18	19	19	18	15	17	16
Mozyr	4	4	4	5	16	6	5
Molodechno	18	18	17	14	12	11	10
Novopolotsk	480	485	636	498	481	562	472
Orsha	30	27	31	17	17	18	19
Pinsk	17	12	11	11	8	9	9
Polotsk	23	20	20	23	27	25	26
Rechitsa	35	24	22	16	19	19	21
Svetlogorsk	47	38	40	34	40	37	29
Slutsk	60	55	60	53	46	37	46

5.17. Air polluting emissions from stationary sources by regions, cities and districts

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	377.1	371.1	433.2	445.3	462.8	458.3	453.1
Brest region	28.6	27.1	34.8	39.2	51.8	50.3	51.5
Brest, city of	2.9	3.0	3.5	3.7	3.3	3.3	3.1
District:							
Baranovichy	3.1	2.9	3.5	3.4	4.8	3.0	3.5
Bereza	3.3	2.3	3.7	2.4	4.9	4.8	5.0
Brest	1.8	2.0	2.0	1.8	2.3	2.0	2.2
Gantsevichy	0.2	0.2	0.2	0.2	0.7	0.6	0.6
Drogichin	0.6	0.5	1.9	2.7	2.5	2.7	2.7
Zhabinka	2.0	2.4	2.6	2.6	3.0	3.4	3.2
Ivanovo	0.8	1.0	3.4	3.2	3.3	2.8	2.8
Ivatsevichy	1.4	1.3	2.1	2.4	3.1	2.6	2.3
Kamenets	2.1	2.4	2.5	2.9	3.9	4.0	4.3
Kobrin	1.8	1.6	2.0	1.7	3.1	3.4	2.8
Luninets	1.9	1.8	1.8	3.6	3.3	2.9	3.3
Lyakhovichy	0.8	0.8	1.1	1.4	2.2	2.7	2.2
Malorita	0.3	0.3	0.4	1.1	1.6	1.9	1.8
Pinsk	3.7	3.0	2.6	3.9	3.9	4.9	6.2
Pruzhany	1.2	1.0	0.9	1.5	4.0	3.9	3.9
Stolin	0.7	0.6	0.6	0.5	1.8	1.5	1.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	94.4	92.2	110.4	105.8	102.5	112.0	107.9
Vitebsk, city of	3.7	4.9	4.8	3.8	3.6	3.5	3.1
District:							
Beshenkovichy	0.5	0.4	0.4	0.5	0.5	0.6	0.5
Braslav	0.8	0.8	0.6	2.3	1.6	2.0	1.5
Verkhnedvinsk	0.6	0.9	1.2	1.6	2.1	2.5	2.3
Vitebsk	2.1	3.4	4.0	4.1	3.9	3.2	3.1
Glubokoye	1.1	1.4	1.4	2.4	2.1	3.3	3.4
Gorodok	0.9	0.9	1.0	1.5	1.7	1.6	1.8
Dokshitsy	0.7	0.7	0.8	1.1	1.3	1.5	0.9
Dubrovno	0.4	0.7	0.8	1.8	1.8	1.9	1.7
Lepel	0.8	0.8	0.9	1.4	1.3	1.3	1.7
Liozno	0.5	0.3	0.9	1.2	1.5	1.9	1.8
Miory	0.5	0.4	0.5	1.7	1.6	2.3	2.2
Orsha	5.7	5.8	6.6	8.0	7.5	8.7	8.2
Polotsk	53.5	54.4	71.3	57.5	56.1	61.3	55.0
Postavy	1.3	1.2	1.3	1.3	1.3	1.4	1.3
Rossony	0.5	0.3	0.4	0.5	0.5	0.7	0.7
Senno	0.7	0.6	0.8	0.9	1.0	1.0	0.9
Tolochin	1.2	0.7	0.7	1.6	1.6	1.3	1.7
Ushachy	0.4	0.4	0.4	0.8	0.8	0.8	0.8
Chashniki	16.8	11.7	10.0	9.5	8.4	9.0	13.4
Sharkovshchina	0.2	0.2	0.2	0.3	0.7	0.7	0.7
Shumilino	1.5	1.3	1.3	2.1	1.9	1.5	1.3

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	82.9	85.4	95.4	102.7	101.6	99.6	104.6
Gomel, city of	11.3	8.8	9.2	7.2	8.6	7.1	8.9
District:							
Bragin	0.1	0.4	0.7	0.8	0.9	0.1	0.2
Buda-Koshelyovo	0.5	1.0	1.9	3.3	3.6	4.0	3.2
Vetka	0.3	0.7	1.6	1.6	1.8	1.6	2.4
Gomel	6.1	4.3	5.2	7.0	5.4	5.2	5.2
Dobrush	0.7	0.6	1.5	2.0	2.1	2.1	3.2
Yelsk	0.2	0.2	0.2	0.2	0.8	0.2	1.0
Zhitkovichy	1.2	1.0	1.2	1.8	2.5	2.2	2.3
Zhlobin	8.3	10.8	13.1	12.5	11.5	10.9	13.5
Kalinkovichy	1.4	1.4	1.3	1.8	1.9	2.1	2.8
Korma	0.4	0.6	0.6	1.7	1.6	1.4	1.8
Lelchitsy	0.4	0.3	0.2	0.2	1.8	1.8	1.3
Loyev	0.6	0.5	1.0	0.9	0.9	0.7	0.1
Mozyr	34.4	37.0	38.3	38.4	38.2	40.8	38.2
Narovlya	0.2	0.2	0.2	0.5	0.4	0.3	0.3
Oktyabrsky	0.5	0.3	0.6	1.0	1.3	1.5	1.7
Petrikov	0.8	0.8	0.8	1.7	1.3	1.9	2.0
Rechitsa	6.6	6.7	7.1	8.5	6.0	5.8	6.4
Rogachev	2.6	3.3	3.5	3.6	3.7	3.4	3.8
Svetlogorsk	5.4	4.7	5.3	5.6	5.0	4.3	3.7
Khoyniki	0.6	1.0	0.9	1.3	0.8	1.1	1.5
Chechersk	0.3	0.8	1.0	1.3	1.3	1.3	1.2

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	44.7	43.9	48.3	53.2	58.8	56.5	53.8
Grodno, city of	11.5	10.7	11.9	10.6	10.0	9.7	9.6
District:							
Berestovitsa	0.6	0.7	0.8	0.8	1.2	1.7	2.0
Volkovysk	8.1	8.6	7.6	10.2	10.9	10.6	11.4
Voronovo	0.8	0.7	0.9	1.8	1.4	1.8	1.4
Grodno	5.6	3.9	4.9	5.1	6.9	6.7	5.8
Dyatlovo	0.3	0.5	0.3	0.4	0.5	1.0	1.1
Zelva	0.6	0.6	0.6	0.5	1.1	0.4	1.2
Ivye	0.6	0.6	0.7	0.6	0.6	0.6	0.7
Korelichy	1.1	1.2	1.4	1.9	2.0	2.1	2.0
Lida	5.1	5.3	5.4	5.1	5.1	3.8	3.6
Mosty	0.7	0.6	1.7	1.7	2.4	1.2	1.2
Novogrudok	1.2	1.0	0.9	1.1	1.2	1.5	1.8
Ostrovets	0.5	0.5	1.0	0.3	0.4	0.8	0.4
Oshmyany	0.7	0.8	0.6	0.8	0.9	0.4	0.4
Svisloch	0.5	0.5	1.2	1.3	1.3	1.4	1.5
Slonim	4.5	4.2	4.1	5.0	5.9	5.6	3.2
Smorgon	1.4	1.3	1.9	2.7	3.6	4.2	3.2
Shchuchin	0.9	2.4	2.4	3.4	3.5	3.1	3.3

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	30.9	25.7	26.6	25.1	23.5	20.3	18.1
Minsk region	51.1	51.9	69.2	71.0	74.5	75.9	74.9
District:							
Berezino	0.7	2.2	2.3	2.5	1.9	2.1	0.9
Borisov	4.4	4.0	4.6	4.3	4.7	4.0	4.4
Vileyka	2.3	2.7	2.7	2.6	1.5	1.4	1.1
Volozhin	1.0	0.9	1.5	0.9	1.1	1.4	1.4
Dzerzhinsk	2.0	2.2	2.3	2.3	1.6	1.6	2.3
Kletsk	1.9	1.7	2.3	2.1	3.0	3.3	3.0
Kopyl	0.9	0.9	1.1	1.3	2.0	2.4	2.4
Krupki	1.7	2.7	3.0	3.3	3.2	2.5	2.2
Logoyisk	0.8	0.6	1.3	1.9	1.6	2.0	1.9
Lyuban	1.7	1.4	1.1	2.1	4.9	4.5	4.0
Minsk	4.8	4.1	7.2	9.8	9.9	9.2	10.7
Molodechno	2.7	3.0	2.8	2.6	2.8	3.0	2.6
Myadel	1.2	1.0	0.9	0.7	0.6	0.9	1.2
Nesvizh	3.8	5.9	8.2	8.6	9.1	9.4	9.3
Pukhovichy	3.7	3.5	4.3	3.4	4.4	4.9	4.2
Slutsk	4.2	3.7	5.9	4.9	5.4	5.6	5.6
Smolevichy	3.6	3.7	4.4	3.8	3.4	3.1	4.1
Soligorsk	6.8	5.4	7.5	7.5	7.3	6.9	6.3
Staryie Dorogi	0.4	0.3	1.7	1.7	1.7	1.9	1.7
Stolbtsy	1.1	0.9	2.9	3.0	2.7	2.7	2.6
Uzda	0.8	0.6	0.6	0.7	0.8	1.7	1.7
Cherven	0.6	0.4	0.7	0.8	0.9	1.3	1.3

Continued

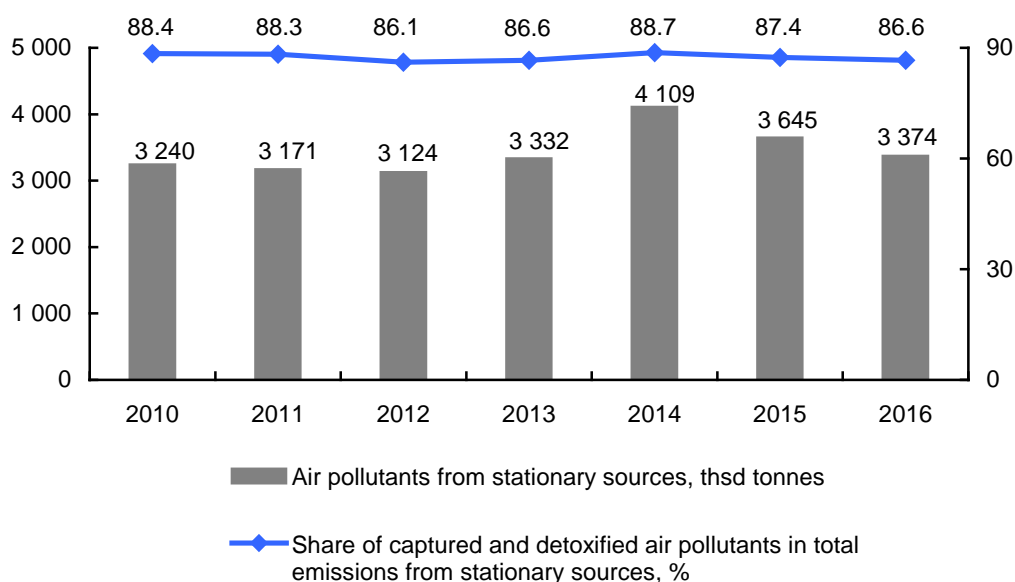
	2010	2011	2012	2013	2014	2015	2016
Mogilev region	44.5	44.8	48.4	48.2	50.1	43.8	42.2
Mogilev, city of	6.5	6.9	6.8	6.5	5.6	6.4	5.9
District:							
Belynichy	0.6	0.7	0.7	0.7	1.2	2.1	1.3
Bobruysk	8.2	7.2	7.1	6.5	5.7	4.9	4.4
Bykhov	1.3	1.1	1.2	1.2	1.1	0.8	1.2
Glusk	0.8	0.6	0.6	0.4	0.7	0.9	0.4
Gorki	0.6	0.6	1.1	0.7	1.2	1.4	1.2
Dribin	0.8	0.7	0.7	0.6	0.6	0.5	0.8
Kirovsk	1.0	1.1	1.4	1.5	1.5	0.3	2.0
Klimovichy	0.5	0.5	0.5	0.6	0.6	0.8	0.9
Klichev	0.5	0.6	1.5	1.6	1.6	1.6	1.5
Kostyukovichy	3.3	3.2	4.7	5.5	6.3	5.5	5.0
Krasnopolye	0.9	0.9	0.9	0.9	0.9	0.0	0.0
Krichev	5.0	5.5	5.7	6.8	7.6	4.6	4.3
Krugloye	0.5	0.4	0.3	0.4	0.5	0.5	0.4
Mogilev	2.6	3.0	3.0	2.6	3.1	1.7	1.4
Mstislavl	0.3	0.4	0.4	0.4	0.4	0.6	0.5
Osipovichy	8.1	6.7	5.6	5.9	5.1	4.9	5.1
Slavgorod	0.3	0.5	0.5	0.5	0.4	0.0	0.2
Khotimsk	0.2	0.5	0.1	0.2	0.2	0.0	0.1
Chausy	0.8	0.7	0.7	0.4	0.5	0.2	0.3
Cherikov	0.7	0.3	0.3	0.5	0.5	1.1	0.3
Shklov	1.0	2.7	4.7	3.9	4.7	5.1	5.3

5.18. Air pollutants from stationary sources by regions and Minsk city

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	3 239.7	3 170.8	3 124.2	3 332.0	4 108.5	3 645.4	3 374.4
Regions and Minsk city:							
Brest	152.7	159.9	185.2	123.8	153.9	129.2	139.8
Vitebsk	217.4	215.8	239.6	222.2	214.5	222.3	204.5
Gomel	252.5	260.2	325.8	321.1	332.1	311.1	332.4
Grodno	351.1	349.9	340.1	708.6	831.4	631.1	608.1
Minsk city	84.2	79.7	83.7	86.5	76.2	139.7	106.2
Minsk	1 554.5	1 460.1	1 288.1	1 069.2	1 514.6	1 442.0	1 448.7
Mogilev	627.3	645.1	661.6	800.4	985.9	770.1	534.8

5.19. Air pollutants from stationary sources



5.20. Captured and detoxified air pollutants from stationary sources by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Thousand tonnes							
Republic of Belarus	2 862.6	2 799.7	2 691.0	2 886.7	3 645.7	3 187.1	2 921.4
Regions and Minsk city:							
Brest	124.1	132.8	150.4	84.6	102.1	78.9	88.3
Vitebsk	123.0	123.7	129.2	116.4	112.0	110.3	96.5
Gomel	169.6	174.8	230.4	218.4	230.5	211.4	227.8
Grodno	306.4	306.1	291.8	655.4	772.6	574.6	554.2
Minsk city	53.3	53.9	57.1	61.4	52.7	119.4	88.1
Minsk	1 503.4	1 408.2	1 218.9	998.3	1 440.1	1 366.1	1 373.8
Mogilev	582.8	600.3	613.2	752.2	935.8	726.3	492.6

As % of total air pollutants from stationary sources

Republic of Belarus	88.4	88.3	86.1	86.6	88.7	87.4	86.6
Regions and Minsk city:							
Brest	81.3	83.0	81.2	68.3	66.3	61.1	63.1
Vitebsk	56.5	57.3	53.9	52.4	52.2	49.6	47.2
Gomel	67.2	67.2	70.7	68.0	69.4	68.0	68.5
Grodno	87.3	87.5	85.8	92.5	92.9	91.0	91.2
Minsk city	63.3	67.7	68.3	71.0	69.2	85.5	83.0
Minsk	96.7	96.4	94.6	93.4	95.1	94.7	94.8
Mogilev	92.9	93.1	92.7	94.0	94.9	94.3	92.1

5.21. Captured and detoxified air pollutants from stationary sources by regions, cities and districts

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	2 862.6	2 799.7	2 691.0	2 886.7	3 645.7	3 187.1	2 921.4
Brest region	124.1	132.8	150.4	84.6	102.1	78.9	88.3
Brest, city of	2.3	2.3	2.1	1.7	1.5	2.7	3.3
District:							
Baranovichy	16.0	16.5	14.5	11.9	11.6	9.7	9.9
Bereza	1.9	3.2	3.7	1.2	10.7	4.5	2.9
Brest	0.0	0.0	0.0	0.0	0.2	0.1	0.1
Gantsevichy	0.1	0.0	0.0	0.0	0.1	0.1	0.1
Drogichin	0.4	0.4	0.5	0.6	1.0	0.6	0.6
Zhabinka	22.0	26.6	21.5	1.4	1.9	1.4	1.0
Ivanovo	3.7	3.0	2.7	2.1	1.6	1.0	1.0
Ivatsevichy	12.7	12.6	11.9	17.0	24.2	15.3	13.2
Kamenets	2.4	0.6	1.9	1.9	2.5	2.8	1.5
Kobrin	12.3	12.3	12.3	0.4	2.3	0.7	0.4
Luninets	2.6	2.2	2.0	1.9	6.3	5.6	7.5
Lyakhovichy	38.3	43.0	43.0	33.2	25.3	21.5	31.8
Malorita	1.6	2.0	1.5	1.2	1.2	1.5	1.4
Pinsk	5.7	5.4	4.3	7.8	10.5	10.4	12.7
Pruzhan'y	1.1	1.7	1.6	1.5	0.7	0.7	0.6
Stolin	1.0	1.0	26.9	0.8	0.5	0.4	0.3

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	123.0	123.7	129.2	116.4	112.0	110.3	96.5
Vitebsk, city of	53.6	53.6	53.7	54.8	54.7	56.0	53.3
District:							
Beshenkovichy	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Braslav	1.2	1.4	0.6	0.6	0.5	0.5	0.5
Verkhnedvinsk	0.3	0.8	0.8	1.2	0.7	1.7	0.2
Vitebsk	4.4	1.7	2.4	0.5	2.1	0.0	0.0
Glubokoye	4.9	4.1	6.2	7.3	7.5	5.9	0.8
Gorodok	0.5	0.3	0.2	0.2	0.4	0.1	0.1
Dokshitsy	2.4	0.4	0.3	0.2	0.3	0.3	0.3
Dubrovno	0.7	0.3	0.3	0.2	0.2	0.2	0.2
Lepel	1.3	1.1	0.8	1.0	0.8	0.6	0.3
Liozno	0.2	0.1	0.6	0.5	0.9	2.3	1.6
Miory	0.7	0.5	0.5	0.5	0.3	0.6	0.6
Orsha	10.8	13.3	12.9	10.7	10.6	7.9	8.9
Polotsk	22.1	16.2	23.6	16.8	16.8	22.1	19.8
Postavy	0.8	0.9	2.2	3.9	4.4	3.7	3.0
Rossony	0.5	0.3	0.3	0.4	0.3	0.2	0.1
Senno	0.4	0.2	0.2	0.0	0.2	0.3	0.1
Tolochin	2.5	7.9	11.4	3.7	1.1	1.6	0.7
Ushachy	0.0	0.4	0.3	0.3	0.1	0.1	0.1
Chashniki	14.3	19.4	11.1	13.1	9.7	5.8	5.6
Sharkovshchina	0.6	0.2	0.2	0.2	0.1	0.0	0.0
Shumilino	0.6	0.4	0.3	0.4	0.2	0.4	0.3

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	169.6	174.8	230.4	218.4	230.5	211.4	227.8
Gomel, city of	60.8	61.7	89.9	98.2	90.9	85.5	95.0
District:							
Bragin	–	–	–	–	0.0	0.0	0.0
Buda-Koshelyovo	1.0	0.9	1.0	1.1	1.4	1.0	1.0
Vetka	0.3	0.6	0.4	1.1	0.4	0.6	0.5
Gomel	1.4	1.4	1.5	5.5	0.1	0.2	0.2
Dobrush	0.5	0.5	0.4	0.4	0.7	0.6	0.0
Yelsk	0.0	0.1	0.1	0.2	0.1	0.1	0.1
Zhitkovichy	5.2	7.2	7.7	7.6	5.3	0.8	4.1
Zhlobin	34.7	24.8	40.4	31.9	34.2	39.6	40.8
Kalinkovichy	2.7	2.8	2.6	2.9	2.6	0.3	2.7
Korma	0.4	0.5	0.2	0.3	0.3	1.0	0.6
Lelchitsy	0.3	0.3	0.2	0.2	0.5	0.4	0.2
Loyev	0.1	0.1	0.2	0.0	0.0	0.0	–
Mozyr	32.6	43.3	52.5	49.4	64.3	64.3	63.3
Oktyabrsky	1.1	1.3	1.1	0.2	0.1	0.3	0.2
Petrikov	0.8	0.5	0.4	0.5	0.6	0.4	0.2
Rechitsa	3.7	4.3	4.9	2.8	13.3	3.7	16.0
Rogachev	0.3	0.2	1.1	1.5	0.6	1.7	1.0
Svetlogorsk	23.3	21.1	22.3	13.1	14.5	11.0	1.8
Khoyniki	0.4	3.3	3.4	1.5	0.3	0.1	0.2
Chechersk	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	306.4	306.1	291.8	655.4	772.6	574.6	554.2
Grodno, city of	64.7	66.9	72.1	66.4	70.5	60.6	38.8
District:							
Berestovitsa	0.5	0.5	0.3	0.4	0.2	0.2	0.0
Volkovysk	145.0	140.2	137.6	517.8	628.9	458.0	461.3
Voronovo	0.3	0.3	0.3	0.3	0.3	0.2	0.2
Grodno	10.5	7.1	8.8	8.9	7.6	5.2	2.0
Dyatlovo	0.9	0.9	2.2	1.7	1.6	1.6	0.1
Zelva	1.1	0.5	0.5	0.2	0.2	0.3	0.1
Ivye	0.4	0.3	0.3	0.3	0.2	0.1	0.1
Korelichy	0.3	0.3	0.3	0.4	0.4	0.4	0.3
Lida	55.6	60.4	41.6	38.6	33.8	22.9	28.3
Mosty	1.2	1.2	0.7	1.5	7.8	4.8	5.4
Novogrudok	0.0	1.6	1.3	1.2	1.1	1.2	0.2
Ostrovets	0.3	0.1	0.1	0.0	0.0	0.2	0.6
Oshmyany	19.1	19.6	19.3	11.9	10.1	8.8	6.1
Svisloch	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slonim	3.3	3.4	3.2	3.2	3.1	3.3	3.0
Smorgon	3.1	2.8	3.0	2.8	6.6	6.8	7.6
Shchuchin	0.1	0.1	0.1	0.2	0.2	0.1	0.1

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	53.3	53.9	57.1	61.4	52.7	119.4	88.1
Minsk region	1 503.4	1 408.2	1 218.9	998.3	1 440.1	1 366.1	1 373.8
District:							
Berezino	0.6	0.6	0.8	0.9	0.5	5.5	15.3
Borisov	9.1	7.8	6.4	7.6	9.5	9.6	1.7
Vileyka	2.5	3.9	2.6	2.6	2.5	2.0	1.6
Volozhin	0.6	1.0	0.7	0.6	0.8	0.8	0.1
Dzerzhinsk	1.1	1.2	3.7	3.0	5.3	2.9	2.9
Kletsk	3.2	3.3	0.8	0.9	1.2	–	–
Kopyl	0.1	0.0	0.1	0.0	0.1	0.1	0.1
Krupki	3.4	2.7	3.0	2.3	3.6	2.2	1.8
Logoysk	0.5	0.8	0.8	0.8	1.0	0.2	0.4
Lyuban	1.8	1.4	1.0	75.6	123.4	102.7	85.2
Minsk	2.1	1.5	2.9	2.5	2.8	13.2	14.8
Molodechno	2.8	6.3	11.8	11.1	10.4	8.4	8.7
Myadel	0.1	0.0	0.0	0.0	0.1	0.1	0.1
Nesvizh	1.0	0.9	1.4	1.3	1.1	0.9	1.0
Pukhovichy	10.6	10.8	9.0	3.0	4.8	15.0	4.7
Slutsk	15.6	13.3	16.1	8.0	5.5	4.1	2.5
Smolevichy	10.0	4.5	4.3	5.7	4.9	8.9	19.2
Soligorsk	1 436.0	1 345.5	1 151.4	869.5	1 260.0	1 187.3	1 209.5
Staryie Dorogi	0.3	0.2	0.1	0.2	0.4	0.3	0.2
Stolbtsy	1.0	1.3	1.2	1.7	1.0	1.0	3.2
Uzda	0.0	0.0	0.2	0.2	0.2	0.0	0.0
Cherven	1.0	0.8	0.6	0.7	1.2	1.0	0.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Mogilev region	582.8	600.3	613.2	752.2	935.8	726.3	492.6
Mogilev, city of	17.1	16.5	18.3	14.8	8.8	19.9	25.1
District:							
Belynichy	0.5	0.1	0.3	0.1	0.1	0.1	0.1
Bobruysk	6.4	5.5	4.9	4.9	3.1	3.5	2.1
Bykhov	1.8	1.6	1.5	2.0	2.0	0.4	1.7
Glusk	0.1	0.0	0.0	0.0	0.0	–	–
Gorki	0.9	0.9	1.7	0.3	0.7	0.4	0.3
Dribin	0.3	0.3	0.1	0.1	0.1	–	0.1
Kirovsk	0.1	0.3	0.2	0.2	0.3	1.5	0.3
Klimovichy	9.1	9.8	10.1	10.9	11.0	10.9	11.3
Klichev	0.3	0.0	0.0	0.0	0.0	–	0.0
Kostyukovichy	463.4	483.3	495.6	513.9	513.0	494.9	276.8
Krasnopolye	0.1	0.0	0.0	0.0	0.0	–	–
Krichev	79.4	79.1	78.2	202.4	395.1	193.2	173.2
Krugloye	0.2	0.2	0.1	0.0	0.0	–	–
Mogilev	0.0	0.0	0.1	0.8	0.2	0.1	0.7
Mstislavl	0.2	0.2	0.2	0.1	0.1	0.0	0.2
Osipovichy	1.4	1.2	1.1	1.1	1.1	0.9	0.9
Slavgorod	0.2	0.2	0.1	0.0	0.1	0.0	0.0
Khotimsk	0.2	0.1	0.0	0.0	0.0	–	0.0
Chausy	0.1	0.7	0.1	0.0	0.0	–	–
Cherikov	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Shklov	0.9	0.4	0.4	0.3	0.1	0.3	0.3

5.22. Utilization of pollutants captured by gas treatment plants by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Thousand tonnes							
Republic of Belarus	2 636.6	2 573.9	2 379.3	2 639.8	3 386.0	2 850.8	2 553.9
Regions and Minsk city:							
Brest	101.3	108.4	106.0	70.3	84.3	63.2	68.6
Vitebsk	96.0	105.4	102.9	91.9	88.1	76.3	73.6
Gomel	105.1	101.3	119.2	124.6	128.4	116.7	72.2
Grodno	284.1	280.8	259.2	628.4	744.0	547.6	531.1
Minsk city	25.2	23.5	20.5	21.1	8.8	12.2	15.3
Minsk	1 462.1	1 372.7	1 177.4	969.5	1 407.8	1 317.7	1 313.8
Mogilev	562.8	581.6	594.1	734.1	924.6	717.1	479.2
As % of total pollutants captured and detoxified							
Republic of Belarus	92.1	91.9	88.4	91.4	92.9	89.5	87.4
Regions and Minsk city:							
Brest	81.6	81.7	70.5	83.0	82.6	80.0	77.7
Vitebsk	78.0	85.2	79.7	79.0	78.7	69.2	76.2
Gomel	62.0	58.0	51.7	57.0	55.7	55.2	31.7
Grodno	92.7	91.8	88.8	95.9	96.3	95.3	95.8
Minsk city	47.3	43.6	35.8	34.4	16.6	10.2	17.4
Minsk	97.3	97.5	96.6	97.1	97.8	96.5	95.6
Mogilev	96.6	96.9	96.9	97.6	98.8	98.7	97.3

5.23. Utilization of pollutants captured by gas treatment plants by regions. cities and districts

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	2 636.6	2 573.9	2 379.3	2 639.8	3 386.0	2 850.8	2 553.9
Brest region	101.3	108.4	106.0	70.3	84.3	63.2	68.6
Brest, city of	1.4	1.4	1.2	0.9	1.0	2.5	2.3
District:							
Baranovichy	8.2	9.0	7.3	7.2	6.7	6.5	6.4
Bereza	1.4	2.4	3.2	0.8	10.3	4.3	2.5
Brest	–	–	–	0.0	0.0	0.0	0.0
Gantsevichy	0.0	0.0	0.0	0.0	0.0	–	0.0
Drogichin	0.0	0.0	0.2	0.3	0.6	0.3	0.5
Zhabinka	14.5	19.9	20.3	0.7	0.7	1.1	0.9
Ivanovo	3.1	2.6	2.2	1.7	1.2	0.9	0.9
Ivatsevichy	12.6	12.4	11.3	16.4	23.6	14.6	13.0
Kamenets	2.4	0.6	1.8	1.9	2.5	2.5	1.2
Kobrin	12.2	12.2	12.1	0.1	2.0	0.3	–
Luninets	2.0	0.9	0.7	0.9	1.1	0.0	0.8
Lyakhovichy	36.3	40.5	40.5	31.8	24.3	20.7	30.6
Malorita	1.6	1.9	1.5	1.2	1.2	0.9	0.8
Pinsk	4.7	3.6	2.8	5.7	8.3	7.9	8.0
Pruzhany	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Stolin	0.6	0.7	0.5	0.5	0.3	0.4	0.3

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	96.0	105.4	102.9	91.9	88.1	76.3	73.6
Vitebsk, city of	53.3	53.3	53.5	53.5	53.5	53.1	53.1
District:							
Beshenkovichy	0.0	0.0	0.0	0.0	0.0	0.0	–
Braslav	1.2	1.4	0.6	0.5	0.4	0.4	0.4
Verkhnedvinsk	0.0	0.7	0.7	–	–	–	–
Vitebsk	4.4	1.7	2.4	0.5	2.1	–	–
Glubokoye	4.7	4.1	5.9	7.0	7.2	0.5	0.5
Gorodok	0.5	0.3	0.2	0.2	0.4	0.1	0.1
Dokshitsy	2.3	0.4	0.3	–	–	–	0.0
Lepel	0.9	0.9	0.5	0.7	0.4	0.3	0.3
Liozno	0.1	0.1	0.6	0.2	0.5	1.0	0.6
Miory	0.2	0.0	0.4	0.3	0.3	0.5	0.5
Orsha	5.6	10.4	10.1	6.8	7.8	5.7	5.0
Polotsk	5.3	4.8	4.9	4.6	4.3	4.3	3.9
Postavy	0.7	0.4	0.6	1.3	1.2	2.6	2.7
Senno	0.2	–	–	–	–	0.3	0.1
Tolochin	1.9	7.3	10.9	3.1	0.5	1.6	1.7
Ushachy	0.0	0.4	0.3	0.3	0.1	0.1	0.1
Chashniki	14.0	19.1	10.8	12.9	9.3	5.8	5.5
Sharkovshchina	0.6	0.1	0.2	0.2	0.1	0.0	0.0
Shumilino	0.1	–	–	–	–	–	–

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	105.1	101.3	119.2	124.6	128.4	116.7	72.2
Gomel, city of	47.8	46.4	61.5	69.5	64.4	62.1	65.7
District:							
Buda-Koshelyovo	0.4	0.4	0.5	0.5	0.8	0.7	1.0
Vetka	0.3	0.6	0.4	1.1	0.4	0.6	0.5
Gomel	1.3	1.4	1.2	1.6	0.0	0.1	0.0
Dobrush	0.5	0.4	0.3	0.3	0.4	0.4	0.0
Zhitkovichy	0.6	0.6	0.3	0.3	0.1	0.1	0.2
Zhlobin	22.6	18.6	21.3	31.8	33.9	39.4	1.8
Kalinkovichy	2.7	2.7	2.6	2.7	2.5	0.2	0.1
Korma	0.0	0.5	0.2	–	0.0	0.8	0.6
Lelchitsy	0.3	0.2	0.2	0.2	0.2	0.0	–
Loyev	0.1	0.0	0.0	–	–	–	–
Mozyr	1.1	1.3	1.3	0.3	0.6	0.1	0.1
Oktyabrsky	1.1	1.3	1.1	0.1	0.1	0.3	0.1
Petrikov	0.8	0.4	0.3	0.4	0.4	0.3	0.0
Rechitsa	2.9	2.8	2.5	1.1	11.5	0.4	0.4
Rogachev	0.3	0.2	1.1	1.4	0.2	0.8	0.3
Svetlogorsk	22.0	20.1	21.2	11.9	12.8	10.4	1.2
Khoyniki	0.3	3.3	3.3	1.5	0.2	0.1	0.1
Chechersk	0.0	0.0	0.0	–	–	–	0.0

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	284.1	280.8	259.2	628.4	744.0	547.6	531.1
Grodno, city of	47.6	47.9	47.9	48.8	53.7	46.3	27.3
District:							
Berestovitsa	0.5	0.5	0.3	0.4	0.2	–	–
Volkovysk	144.9	140.1	137.6	517.7	628.7	457.8	461.3
Voronovo	0.3	0.3	0.2	0.3	0.3	0.1	0.2
Grodno	10.5	6.2	7.7	6.4	6.0	1.9	0.8
Dyatlovo	0.1	0.1	0.1	0.1	0.1	0.1	–
Zelva	1.1	0.5	0.5	0.2	0.2	0.3	0.1
Ivye	0.4	0.3	0.2	0.3	0.1	0.1	0.1
Korelichy	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Lida	53.8	58.2	39.3	36.0	31.1	20.6	25.8
Mosty	1.2	1.2	0.7	1.5	7.8	4.6	5.2
Novogrudok	0.0	1.6	1.3	1.0	1.1	1.1	0.1
Ostrovets	0.3	0.1	0.1	0.0	–	0.2	0.3
Oshmyany	19.1	19.6	19.3	11.9	10.1	8.4	5.7
Slonim	2.9	3.2	3.1	3.0	3.0	3.0	2.9
Smorgon	1.1	0.9	0.6	0.6	1.3	3.0	1.1
Shchuchin	0.0	–	–	–	–	–	–

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	25.2	23.5	20.5	21.1	8.8	12.2	15.3
Minsk region	1 462.1	1 372.7	1 177.4	969.5	1 407.8	1 317.7	1 313.8
District:							
Berezino	–	0.1	0.3	0.0	0.0	0.0	–
Borisov	5.0	3.3	1.7	2.0	1.7	1.9	1.0
Vileyka	0.7	0.6	0.2	0.3	0.3	0.3	0.1
Volozhin	0.6	1.0	0.1	0.1	0.1	0.1	0.1
Dzerzhinsk	0.8	0.9	0.9	2.7	5.0	2.1	2.9
Kletsk	3.2	3.3	0.8	0.9	1.2	–	–
Kopyl	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Krupki	0.0	0.0	0.1	0.0	0.0	0.1	0.1
Logoysk	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Lyuban	1.3	1.0	0.8	75.3	123.1	102.4	85.0
Minsk	1.1	1.0	1.3	1.1	1.4	5.5	11.4
Molodechno	2.0	5.4	11.1	10.6	10.1	8.3	8.6
Myadel	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Nesvizh	0.7	0.7	1.1	1.1	1.0	0.7	0.7
Pukhovichy	10.3	10.4	8.7	3.0	4.7	13.3	3.6
Slutsk	2.7	2.6	3.1	4.1	2.5	0.5	0.4
Smolevichy	1.0	0.3	0.1	1.7	1.0	1.0	1.1
Soligorsk	1 430.6	1 339.8	1 144.8	863.8	1 253.1	1 178.8	1 194.7
Staryie Dorogi	–	–	0.0	–	–	–	–
Stolbtsy	1.0	1.2	1.0	1.5	0.9	0.9	3.2
Uzda	–	–	0.1	0.2	0.2	–	–
Cherven	0.9	0.8	0.6	0.7	1.2	1.0	0.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Mogilev region	562.8	581.6	594.1	734.1	924.6	717.1	479.2
Mogilev, city of	3.8	5.1	5.5	3.7	1.8	13.6	15.4
District:							
Belynychy	–	0.0	0.2	–	–	–	–
Bobruysk	3.2	2.1	1.9	1.8	1.6	2.1	1.1
Bykhov	0.7	0.5	0.4	0.8	1.0	0.4	0.5
Glusk	0.1	0.0	0.0	0.0	0.0	–	–
Gorki	0.5	0.1	1.3	0.3	0.3	0.0	0.0
Dribin	0.3	0.3	0.1	0.1	0.1	–	0.1
Kirovsk	0.0	0.0	0.0	0.0	0.0	1.5	0.2
Klimovichy	9.1	9.8	10.1	10.9	10.9	10.9	11.3
Klichev	0.3	0.0	0.0	–	0.0	–	–
Kostyukovichy	463.4	483.3	495.5	513.7	513.0	494.9	276.7
Krasnopolye	0.1	0.0	0.0	0.0	0.0	–	–
Krichev	79.4	79.0	78.1	202.3	395.1	193.1	173.2
Krugloye	–	0.0	0.0	0.0	0.0	–	–
Mogilev	0.0	0.0	0.0	0.1	0.1	0.0	0.6
Mstislavl	0.2	0.2	0.2	0.1	0.1	0.0	0.2
Osipovichy	1.0	0.8	0.4	0.2	0.4	0.3	0.3
Slavgorod	0.2	0.2	0.1	0.1	0.1	0.0	0.0
Khotimsk	0.2	0.1	–	–	–	–	–
Shklov	0.3	0.0	0.0	0.0	0.0	0.1	0.1

5.24. Number of stationary sources of air polluting emissions by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	128 523	125 171	132 500	136 425	132 282	133 012	135 987
Regions and Minsk city:							
Brest	16 072	15 159	16 593	19 331	18 366	16 408	20 234
Vitebsk	13 501	12 631	13 976	15 789	15 762	16 801	16 641
Gomel	19 981	19 931	20 966	19 962	18 548	19 673	21 457
Grodno	18 306	19 454	20 223	22 148	22 408	22 180	19 471
Minsk city	14 783	14 466	14 308	13 980	13 605	13 702	14 660
Minsk	27 979	26 311	28 682	27 281	26 808	26 924	25 967
Mogilev	17 901	17 219	17 752	17 934	16 785	17 324	17 557
of which organised sources of emission							
Republic of Belarus	113 540	108 095	112 421	114 976	110 270	107 272	108 900
Regions and Minsk city:							
Brest	14 037	12 847	13 576	15 971	15 486	12 643	16 229
Vitebsk	11 221	10 219	11 399	12 931	12 748	13 184	12 435
Gomel	17 994	17 442	18 100	16 880	15 818	16 269	17 463
Grodno	15 112	15 782	16 094	17 337	17 312	16 956	14 454
Minsk city	14 421	14 049	13 903	13 494	13 071	12 599	13 458
Minsk	24 807	22 458	23 932	23 002	21 319	21 162	20 174
Mogilev	15 948	15 298	15 417	15 361	14 516	14 459	14 687

Continued

	2010	2011	2012	2013	2014	2015	2016
of which equipped with gas treatment plants							
Republic of Belarus	13 286	13 088	13 619	13 786	14 023	13 641	13 148
Regions and Minsk city:							
Brest	1 702	1 625	1 697	1 576	1 585	1 655	1 725
Vitebsk	1 310	1 329	1 396	1 557	1 584	1 518	1 408
Gomel	2 700	2 743	2 836	2 781	2 941	2 667	2 670
Grodno	1 270	1 249	1 379	1 468	1 603	1 623	1 424
Minsk city	2 410	2 243	2 228	2 201	2 139	2 101	2 145
Minsk	1 843	1 887	1 963	2 051	2 001	2 025	1 805
Mogilev	2 051	2 012	2 120	2 152	2 170	2 052	1 971

As % of total organised sources of emission

Republic of Belarus	11.7	12.1	12.1	12.0	12.7	12.7	12.1
Regions and Minsk city:							
Brest	12.1	12.6	12.5	9.9	10.2	13.1	10.6
Vitebsk	11.7	13.0	12.2	12.0	12.4	11.5	11.3
Gomel	15.0	15.7	15.7	16.5	18.6	16.4	15.3
Grodno	8.4	7.9	8.6	8.5	9.3	9.6	9.9
Minsk city	16.7	16.0	16.0	16.3	16.4	16.7	15.9
Minsk	7.4	8.4	8.2	8.9	9.4	9.6	8.9
Mogilev	12.9	13.2	13.8	14.0	14.9	14.2	13.4

5.25. Number of days with maximum single allowable concentration of pollutants exceeded by selected cities¹⁾

City, pollutant monitored	Maximum single allowable concentration, microgrammes per m ³	Number of days with prescribed maximum single allowable concentration exceeded						
		2010	2011	2012	2013	2014	2015	2016
Bobruysk								
Solid particles	300	0	0	0	0	0	0	0
Carbon monoxide	5 000	0	0	0	0	0	0	0
Nitrogen dioxide	250	1	1	0	1	1	0	0
Phenol	10	0	0	0	0	2	0	0
Brest								
Solid particles	300	0	0	0	0	1	0	1
Sulphur dioxide	500	...	0	0	0	0
Carbon monoxide	5 000	1	0	0	0	1	4	0
Nitrogen dioxide	250	3	2	0	3	14	1	2
Vitebsk								
Solid particles	300	0	0	0	0	0	0	0
Sulphur dioxide	500	...	0	0
Carbon monoxide	5 000	1	0	0	0	0	0	0
Nitrogen dioxide	250	0	0	0	0	0	0	2
Phenol	10	0	0	0	0	0	0	0
Ammonia	200	...	0	0	0	0	2	1
Gomel								
Solid particles	300	44	17	0	1	10	4	0
Carbon monoxide	5 000	35
Nitrogen dioxide	250	0	0	0	0	1	0	0
Phenol	10	0	0	0	0	0	0	0
Ammonia	200	0	0	0	0	0	0	0

Continued

City, pollutant monitored	Maximum single allowable concentration, microgrammes per m ³	Number of days with prescribed maximum single allowable concentration exceeded						
		2010	2011	2012	2013	2014	2015	2016
Grodno								
Solid particles	300	3	5	1	0	0	0	0
Sulphur dioxide	500	...	0	0	0	0	0	...
Carbon monoxide	5 000	0	0	0	0	0	0	0
Nitrogen dioxide	250	0	13	0	0	0	0	0
Ammonia	200	0	0	0	0	0	0	0
Minsk city								
Solid particles	300	7	16	0	1	3	0	9
Sulphur dioxide	500	0	0	1	0	0	0	0
Carbon monoxide	5 000	1	0	0	0	1	0	6
Nitrogen dioxide	250	4	9	9	9	2	1	5
Phenol	10	1	0	0	0	0	0	0
Ammonia	200	12	1	0	2	0	0	0
Mogilev								
Solid particles	300	2	5	2	0	0	0	0
Sulphur dioxide	500	...	0	0	0	...	0	...
Carbon monoxide	5 000	4	1	0	1	0	0	1
Nitrogen dioxide	250	37	39	25	33	2	22	3
Phenol	10	72	80	30	32	72	42	33
Hydrogen sulphide	8	0	25	8	0	0	1	0
Methyl alcohol	1 000	3	0	2	1	0	0	0
Ammonia	200	22	11	5	2	9	21	16
Orsha								
Solid particles	300	0	0	0	0	0	0	0
Carbon monoxide	5 000	0	0	0	0	0	0	1
Nitrogen dioxide	250	1	2	1	0	0	0	1

Continued

City, pollutant monitored	Maximum single allowable concentration, microgrammes per m ³	Number of days with prescribed maximum single allowable concentration exceeded						
		2010	2011	2012	2013	2014	2015	2016
Novopolotsk								
Solid particles	300	0	6	0	0	3	10	8
Sulphur dioxide	500	...	3	0	16	15	35	13
Carbon monoxide	5 000	0	0	0	0	0	0	0
Nitrogen dioxide	250	16	11	11	11	15	17	5
Phenol	10	1	6	4	2	3	5	7
Hydrogen sulphide	8	1	5	12	0	0	0	0
Ammonia	200	0	0	1	0	0	0	0
Pinsk								
Solid particles	300	0	0	0	0	12	7	2
Carbon monoxide	5 000	0	0	0	0	0	0	0
Nitrogen dioxide	250	0	0	0	0	1	0	0
Polotsk								
Solid particles	300	2	1	1	2	3	9	5
Sulphur dioxide	500	...	1	0	8	12
Carbon monoxide	5 000	0	0	0	0	0	0	1
Nitrogen dioxide	250	6	1	8	10	6	3	1
Phenol	10	3	4	3	1	1	2	1
Ammonia	200	0	0	0	1	0	0	0
Hydrogen sulphide	8	0	0	4	0	0	0	0
Svetlogorsk								
Solid particles	300	2	1	0	0	2	1	0
Carbon monoxide	5 000	0	0	0	0	0	0	0
Nitrogen dioxide	250	0	0	0	0	0	0	0

¹⁾ According to the data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus. For nitrogen dioxide and carbon monoxide data are based on surveys in points with discrete sample collection. For sulphur dioxide data are based on continuous monitoring at automatic stations.

5.26. Average annual concentrations of air pollutants by selected cities¹⁾

(microgrammes per cubic metre)

City, pollutant monitored	2010	2011	2012	2013	2014	2015	2016
Bobruysk							
Solid particles	<15	<15	<15	<15	<15	<15	<15
Carbon monoxide	712	812	738	769	879	1 129	1 263
Nitrogen dioxide	34	29	24	33	37	46	49
Phenol	1.9	0.7	1.1	1.3	3.0	3.1	3.2
Brest							
Solid particles	27	18	27	33	35	35	43
Sulphur dioxide	...	9	14	19	21
Carbon monoxide	511	613	797	913	938	924	859
Nitrogen dioxide	24	26	33	34	39	36	24
Vitebsk							
Solid particles	116	115	112	113	52	42	37
Sulphur dioxide	...	4	18
Carbon monoxide	757	675	610	517	530	519	586
Nitrogen dioxide	32	36	35	32	41	37	38
Phenol	1.2	1.1	1.2	1.4	1.6	1.2	0.4
Ammonia	23	25	23	29	28	29	13
Gomel							
Solid particles	52	45	23	29	33	37	31
Sulphur dioxide	...	8	36
Carbon monoxide	496	444	422	452	500	530	588
Nitrogen dioxide	17	20	21	17	26	27	27
Phenol	1.1	2.5	1.7	0.6	0.9	0.9	1.1
Ammonia	24	36	15	12	11	14	18

Continued

City, pollutant monitored	2010	2011	2012	2013	2014	2015	2016
Grodno							
Solid particles	37	40	37	26	31	26	<15
Sulphur dioxide	...	7	46	9	15	26	...
Carbon monoxide	583	665	720	664	509	567	417
Nitrogen dioxide	30	28	19	17	26	30	25
Ammonia	14	17	19	15	19	14	15
Minsk City							
Solid particles	<15	<15	<15	<15	21	25	<15
Sulphur dioxide	5	4	18	4	8	15	15
Carbon monoxide	414	386	434	499	470	430	401
Nitrogen dioxide	34	32	37	39	37	35	32
Phenol	0.5	0.4	0.4	0.3	0.6	0.5	0.6
Ammonia	25	13	14	14	11	8	7
Mogilev							
Solid particles	37	47	44	27	<15	<15	<15
Sulphur dioxide	...	13	30	24	...	43	...
Carbon monoxide	879	875	670	661	495	479	483
Nitrogen dioxide	52	55	49	49	51	57	41
Phenol	1.7	1.8	1.6	1.8	1.7	1.7	1.4
Carbon bisulphide	6	4	6	6	4	1.2	0.8
Methyl alcohol	102	125	87	108	68	117	68
Novopolotsk							
Solid particles	<15	<15	<15	<15	<15	<15	21
Sulphur dioxide	...	13	19	24	32	64	50
Carbon monoxide	1 509	835	330	577	916	602	604
Nitrogen dioxide	40	42	47	54	46	34	28
Phenol	0.6	0.9	1.0	1.0	1.2	1.3	2.5
Ammonia	5	8	10	8	11	15	13
Hydrogen sulphide	1.2	1.0	1.0	1.2	1.1	0.8	0.9

Continued

City, pollutant monitored	2010	2011	2012	2013	2014	2015	2016
Orsha							
Solid particles	15	15	<15	<15	<15	<15	<15
Carbon monoxide	788	762	749	781	1100	1 058	1 090
Nitrogen dioxide	25	21	25	21	23	28	29
Pinsk							
Solid particles	46	52	42	20	43	67	30
Carbon monoxide	491	369	419	515	517	584	577
Nitrogen dioxide	18	16	32	49	22	26	28
Polotsk							
Solid particles	<15	<15	<15	<15	<15	<15	27
Sulphur dioxide	...	11	43	67	46
Carbon monoxide	1 946	1 169	483	797	1 256	957	646
Nitrogen dioxide	47	55	63	59	58	42	26
Phenol	0.5	0.9	1.0	1.0	1.3	1.2	2.4
Ammonia	20	18	20	15	12	17	13
Hydrogen sulphide	1.3	1.0	1.0	1.2	1.0	0.6	0.9
Hydrogen fluoride	0.5	0.4	0.9	0.5	0.8	1.2	0.8
Svetlogorsk							
Solid particles	59	54	35	22	50	45	30
Carbon monoxide	955	878	648	705	751	637	397
Nitrogen dioxide	39	33	34	53	32	31	31

¹⁾ According to data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus. For nitrogen dioxide and carbon monoxide data are based on surveys in points with discrete sample collection. For sulphur dioxide data are based on continuous monitoring at automatic stations.

5.27. Consumption of ozone depleting substances¹⁾

	2010	2011	2012	2013	2014	2015
Total, metric tonnes	227.658	210.146	163.824	140.889	115.064	63.3
Total, metric tonnes in terms of ozone-depleting potential	10.546	9.565	8.278	7.174	5.783	2.679
Assigned for Belarus maximum amount of consumption, metric tonnes in terms of ozone-depleting potential	12.729	12.729	12.729	12.729	12.729	5.092

¹⁾ According to data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

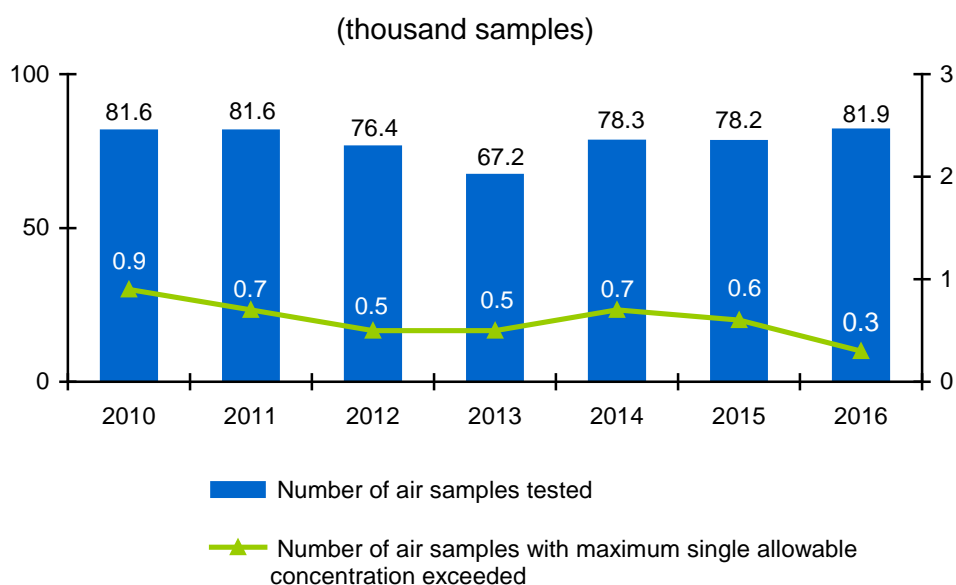
5.28. Air quality monitoring by regions and Minsk city¹⁾

	2010	2011	2012	2013	2014	2015	2016
Number of tested air samples – total, thousand							
Republic of Belarus	81.6	81.6	76.4	67.2	78.3	78.2	81.9
Regions and Minsk city:							
Brest	5.6	6.1	4.1	2.6	4.8	5.2	6.5
Vitebsk	0.4	1.4	0.3	0.6	0.6	0.5	0.5
Gomel	28.1	26.4	24.5	21.0	21.4	23.8	23.0
Grodno	4.2	4.0	4.1	3.6	4.7	5.1	6.5
Minsk city	18.3	17.4	17.4	18.5	21.1	20.4	24.5
Minsk	8.4	10.7	8.6	6.9	8.9	7.3	6.6
Mogilev	16.6	15.6	17.4	14.0	16.8	15.9	14.2

Continued

	2010	2011	2012	2013	2014	2015	2016
of which air samples with maximum single allowable concentration exceeded, thousand							
Republic of Belarus	0.9	0.7	0.5	0.5	0.7	0.6	0.3
Regions and Minsk city:							
Brest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vitebsk	–	–	–	–	–	0.0	0.0
Gomel	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Grodno	0.0	–	–	0.0	0.0	0.0	0.0
Minsk city	0.7	0.4	0.4	0.4	0.5	0.5	0.2
Minsk	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Mogilev	0.1	0.1	0.1	0.0	0.1	0.0	0.0
As % of total air samples tested							
Republic of Belarus	1.1	0.9	0.6	0.7	0.9	0.8	0.4
Regions and Minsk city:							
Brest	0.3	0.8	0.2	0.2	0.0	0.1	0.0
Vitebsk	–	–	–	–	–	0.0	0.0
Gomel	0.2	0.3	0.1	0.1	0.1	0.4	0.0
Grodno	0.1	–	–	0.0	0.0	0.0	0.0
Minsk city	4.0	2.4	2.3	2.2	2.4	2.5	0.8
Minsk	0.9	0.9	0.3	0.3	0.2	0.1	1.5
Mogilev	0.5	0.5	0.4	0.3	0.6	0.2	0.0

5.29. Number of tested air samples and number of air samples with maximum single allowable concentration exceeded¹⁾



¹⁾ According to the data of the Ministry of Health of the Republic of Belarus.

6. CLIMATE CHANGE

The main indicators measuring climate change are air temperature, atmospheric precipitation and greenhouse gas emissions.

Air temperature is directly connected with the state of the climate system of Earth. The indicator shows trends in average annual temperature fluctuations and allows for estimating the impact of temperature on global climate change, resulting both from cyclicity of natural climatic changes and from anthropogenic impact.

Atmospheric precipitation forms renewable resources of surface and groundwater which, in its turn, has an impact on the state of all the components of the environment (soils, forests, flora and fauna). The amount, quality and distribution of precipitation as well as its seasonal and annual variation of distribution influence significantly agriculture and forestry. Moreover, the amount of precipitation can affect the state of air regulating its humidity, as well preventing the distribution of solids concentration in the ground.

Greenhouse gases are gaseous components of the atmosphere, both of natural and anthropogenic origin, that absorb and reradiate infrared radiation. They include carbon dioxide, methane, dinitrogen monoxide, fluorine-containing gases. Greenhouse gas emissions are recalculated in terms of carbon dioxide (CO₂) equivalent.

Carbon dioxide (CO₂) is one of the main greenhouse gases enhancing natural greenhouse effect and underlying temperature changes and other consequences for the Earth's climate. CO₂ accounts for more than 80% of global greenhouse gas emissions.

Greenhouse gas emissions are estimated by the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus using the recommendations of the Intergovernmental Panel on Climate Change (IPCC Guidelines 2006).

The section is prepared on the basis of data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

6.1. Average annual air temperatures by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Average annual temperature, °C							
Republic of Belarus	6.9	7.5	6.8	7.5	7.8	8.5	7.7
Regions and Minsk city:							
Brest	7.4	8.1	7.6	8.2	8.5	9.3	8.5
Vitebsk	6.2	6.9	6.0	6.8	7.1	7.8	6.9
Gomel	7.8	8.0	7.4	8.3	8.4	9.2	8.3
Grodno	6.5	7.6	6.9	7.5	7.8	8.6	7.7
Minsk city	6.9	7.5	6.7	7.5	7.8	8.7	7.8
Minsk	6.7	7.4	6.6	7.3	7.7	8.4	7.4
Mogilev	6.7	7.0	6.2	7.1	7.2	8.1	7.2
Divergence from the norm, °C							
Republic of Belarus	1.1	1.7	1.0	1.7	2.0	2.7	1.9
Regions and Minsk city:							
Brest	0.7	1.4	0.9	1.5	1.8	2.6	1.8
Vitebsk	1.1	1.8	0.9	1.7	2.0	2.7	1.8
Gomel	1.5	1.7	1.1	2.0	2.1	2.9	2.0
Grodno	0.4	1.5	0.8	1.4	1.7	2.5	1.6
Minsk city	1.4	2.0	1.2	2.0	2.3	3.2	2.3
Minsk	1.0	1.7	0.9	1.6	2.0	2.7	1.7
Mogilev	1.3	1.6	0.8	1.7	1.8	2.7	1.8

6.2. Average monthly air temperatures by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
January, °C							
Republic of Belarus	-11.5	-3.7	-4.8	-7.1	-7.0	-1.1	-7.3
Regions and Minsk city:							
Brest	-10.1	-2.6	-3.3	-5.3	-5.3	0.1	-5.3
Vitebsk	-12.6	-4.5	-5.7	-8.5	-8.0	-1.8	-8.8
Gomel	-11.1	-3.4	-4.8	-6.4	-6.6	-1.0	-7.0
Grodno	-10.8	-3.2	-3.8	-6.5	-6.4	-0.7	-6.5
Minsk city	-11.1	-3.8	-5.0	-7.3	-7.4	-1.3	-7.4
Minsk	-11.4	-3.8	-4.9	-7.5	-7.3	-1.2	-7.8
Mogilev	-12.8	-4.9	-5.8	-8.3	-8.3	-2.0	-8.3
Divergence from the norm, °C							
Republic of Belarus	-4.8	3.0	1.9	-0.4	-0.3	5.6	-0.6
Regions and Minsk city:							
Brest	-4.7	2.8	2.1	0.0	0.1	5.5	0.1
Vitebsk	-5.1	3.0	1.8	-1.0	-0.5	5.7	-1.3
Gomel	-4.5	3.2	1.8	0.2	0.0	5.6	-0.4
Grodno	-5.1	2.5	1.9	-0.8	-0.7	5.0	-0.8
Minsk city	-4.2	3.1	1.9	-0.4	-0.5	5.6	-0.5
Minsk	-4.7	2.9	1.8	-0.7	-0.6	5.5	-1.1
Mogilev	-5.2	2.7	1.8	-0.8	-0.7	5.6	-0.7
July, °C							
Republic of Belarus	22.6	20.2	20.6	18.5	20.6	18.4	19.4
Regions and Minsk city:							
Brest	22.2	19.5	21.2	18.8	21.1	19.2	19.7
Vitebsk	22.6	20.5	19.8	18.1	20.1	17.4	18.8
Gomel	23.4	21.0	21.5	19.3	21.3	19.5	20.8
Grodno	21.6	19.2	20.2	18.2	20.2	17.9	18.4
Minsk city	22.6	20.2	21.0	18.6	20.8	18.7	19.5
Minsk	22.4	20.1	20.6	18.3	20.6	18.0	19.2
Mogilev	23.1	20.6	20.4	18.2	20.1	18.3	19.7
Divergence from the norm, °C							
Republic of Belarus	4.8	2.4	2.8	0.7	2.7	0.6	1.6
Regions and Minsk city:							
Brest	4.1	1.4	3.1	0.7	3.0	1.1	1.6
Vitebsk	5.2	3.1	2.4	0.7	2.7	0.0	1.4
Gomel	5.1	2.7	3.2	1.0	2.9	1.2	2.4
Grodno	4.1	1.7	2.7	0.7	2.7	0.4	0.9
Minsk city	4.9	2.5	3.3	0.9	3.1	1.0	1.8
Minsk	4.7	2.4	2.9	0.6	2.9	0.3	1.5
Mogilev	5.1	2.6	2.4	0.2	2.1	0.3	1.7

6.3. Average annual precipitation by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Average annual precipitation, mm							
Republic of Belarus	729	583	757	671	567	540	742
Regions and Minsk city:							
Brest	742	560	647	712	548	518	743
Vitebsk	768	595	785	670	622	571	741
Gomel	658	604	844	660	533	520	720
Grodno	769	583	672	675	589	569	786
Minsk city	820	631	839	677	604	563	756
Minsk	788	579	766	657	582	574	778
Mogilev	651	574	830	650	523	499	671
As % of the norm							
Republic of Belarus	111	89	115	102	86	82	113
Regions and Minsk city:							
Brest	116	88	101	111	86	81	116
Vitebsk	115	89	118	100	93	86	111
Gomel	103	95	132	104	84	82	113
Grodno	116	88	102	102	89	86	119
Minsk city	117	90	120	97	87	81	108
Minsk	117	86	114	98	87	86	116
Mogilev	100	88	127	99	80	76	103

6.4. Average monthly precipitation by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Average for January, mm							
Republic of Belarus	28	43	60	47	48	54	50
Regions and Minsk city:							
Brest	38	38	50	59	46	46	50
Vitebsk	18	62	64	37	42	59	54
Gomel	28	32	60	47	49	50	49
Grodno	30	40	61	55	53	48	42
Minsk city	39	54	78	50	51	62	55
Minsk	29	44	68	48	46	56	50
Mogilev	26	43	57	34	50	64	53
As % of the norm							
Republic of Belarus	74	113	158	124	126	142	132
Regions and Minsk city:							
Brest	105	106	139	164	128	128	140
Vitebsk	47	163	168	97	114	155	143
Gomel	78	89	167	131	136	139	137
Grodno	79	105	161	145	139	126	110
Minsk city	91	126	181	116	119	144	128
Minsk	73	110	170	120	115	140	126
Mogilev	65	108	143	85	125	160	132
Average for July, mm							
Republic of Belarus	80	129	55	77	64	75	133
Regions and Minsk city:							
Brest	84	158	59	59	50	56	125
Vitebsk	56	94	61	100	65	75	144
Gomel	84	142	69	62	81	99	89
Grodno	105	134	61	79	66	72	171
Minsk city	99	153	71	96	55	53	135
Minsk	104	130	46	74	55	76	153
Mogilev	44	114	34	85	69	72	113
As percentage of the norm							
Republic of Belarus	92	148	63	88	74	86	153
Regions and Minsk city:							
Brest	99	186	69	70	59	66	147
Vitebsk	62	104	68	111	72	83	160
Gomel	95	161	78	69	92	113	101
Grodno	127	161	73	95	80	87	207
Minsk city	110	170	79	107	61	59	150
Minsk	120	149	53	85	63	87	176
Mogilev	51	133	40	99	80	84	132

6.5. Greenhouse gas emissions

(million tonnes in terms of CO₂ per year)

	2010	2011	2012	2013	2014	2015
Total, without land use, land-use change and forestry	93.9	93.9	93.6	94.7	93.7	89.6
Total, with land use, land-use change and forestry	53.8	56.4	61.6	59.6	63.6	62.2
as % of 1990	46.4	48.7	53.2	51.5	54.9	53.7

6.6. Greenhouse gas emissions by sector

(million tonnes in terms of CO₂ per year)

	2010	2011	2012	2013	2014	2015
Energy	58.8	58.3	57.7	58.6	57.1	53.1
Industrial processes and product use	5.1	5.1	5.3	5.4	5.7	5.3
Agriculture	23.6	24.3	24.4	23.8	23.7	23.7
Waste	6.4	6.3	6.3	7.0	7.1	7.5
Total, without land use, land-use change and forestry	93.9	93.9	93.6	94.7	93.7	89.6
Land use, land-use change and forestry ¹⁾	-40.1	-37.6	-32.0	-35.1	-30.1	-27.4
Total, with land use, land-use change and forestry	53.8	56.4	61.6	59.6	63.6	62.2

¹⁾ The minus sign (-) means absorption of greenhouse gases.

6.7. Structure of greenhouse gas emissions

(as percentage of total)

	2010	2011	2012	2013	2014	2015
Total, without land use, land-use change and forestry	100	100	100	100	100	100
of which:						
energy	62.6	62.0	61.6	61.9	61.0	59.3
industrial processes and product use	5.4	5.4	5.6	5.7	6.1	5.9
agriculture	25.1	25.9	26.0	25.1	25.3	26.5
waste	6.8	6.7	6.7	7.4	7.6	8.4

6.8. Greenhouse gas emissions in energy sector

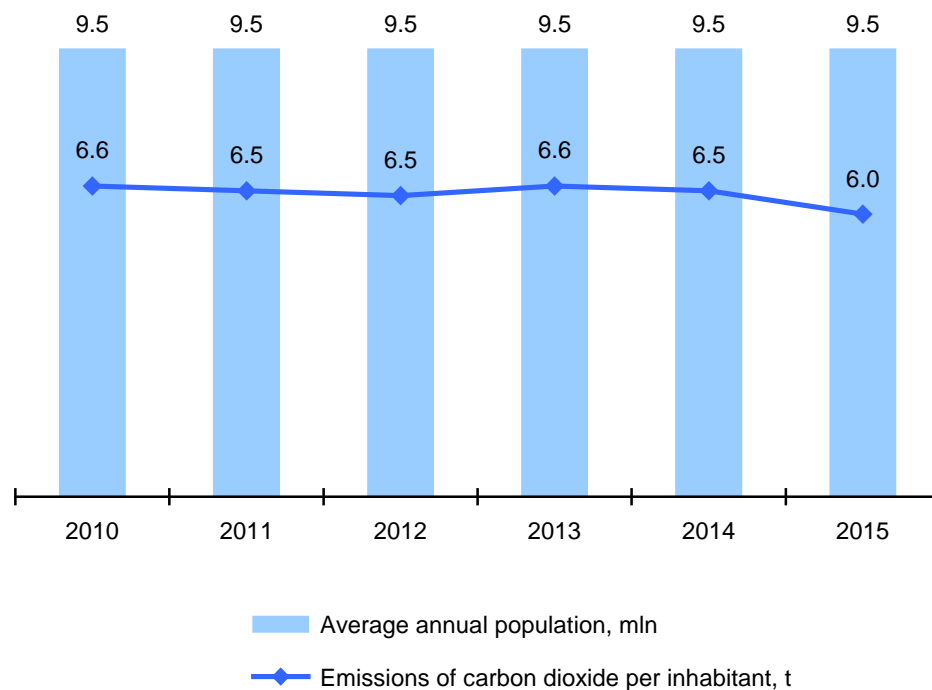
	2010	2011	2012	2013	2014	2015
Total, mln t in terms of CO ₂ per year						
Greenhouse gas emissions in energy sector	58.8	58.3	57.7	58.6	57.1	53.1
of which:						
carbon dioxide	56.4	56.0	55.4	56.3	54.9	51.1
methane	2.2	2.0	2.0	2.0	1.9	1.8
dinitrogen monoxide	0.2	0.2	0.2	0.3	0.3	0.3
As % of total						
Greenhouse gas emissions in energy sector	100	100	100	100	100	100
of which:						
carbon dioxide	95.9	96.1	96.1	96.1	96.2	96.1
methane	3.7	3.5	3.5	3.5	3.3	3.4
dinitrogen monoxide	0.4	0.4	0.4	0.5	0.5	0.5

6.9. Greenhouse gas emissions from industrial processes and product use

	2010	2011	2012	2013	2014	2015
Total, thsd t in terms of CO ₂ per year						
Greenhouse gas emissions from industrial processes and product use	5 106.9	5 095.8	5 257.4	5 360.7	5 716.6	5 252.1
of which:						
carbon dioxide	4 568.0	4 603.3	4 787.3	4 891.3	5 260.5	4 783.6
methane	75.6	78.4	80.7	68.8	74.1	73.6
dinitrogen monoxide	461.2	411.8	387.0	398.1	379.5	392.3
fluorine-containing gases	2.1	2.3	2.5	2.5	2.4	2.5
As % of total						
Greenhouse gas emissions from industrial processes and product use	100	100	100	100	100	100
of which:						
carbon dioxide	89.4	90.3	91.1	91.2	92.0	91.1
methane	1.5	1.5	1.5	1.3	1.3	1.4
dinitrogen monoxide	9.0	8.1	7.4	7.4	6.6	7.5
fluorine-containing gases	0.0	0.0	0.0	0.0	0.0	0.0

6.10. Emissions of carbon dioxide (CO₂)

	2010	2011	2012	2013	2014	2015
Total, mln t						
Emissions of carbon dioxide (CO ₂)	62.3	61.8	61.5	62.1	61.3	57.0
of which by sector:						
energy	56.4	56.0	55.4	56.3	54.9	51.1
industrial processes and product use	4.6	4.6	4.8	4.9	5.3	4.8
As percentage of total						
Emissions of carbon dioxide (CO ₂)	100	100	100	100	100	100
of which by sector:						
energy	90.6	90.6	90.1	90.6	89.6	89.6
industrial processes and product use	7.3	7.4	7.8	7.9	8.6	8.4

6.11. Emissions of carbon dioxide (CO₂) per inhabitant of the Republic of Belarus

7. PROTECTION AND USE OF WATER RESOURCES

Water abstraction from natural sources is water withdrawn from groundwater and surface water bodies to be further used for various purposes.

Water use is the water withdrawn from natural sources or received from water supply systems of other water users, to be used for various purposes. Water in circulating and recycling (successive) water supply systems, transit water as well as reusable waste and drainage water are not included.

Water use for domestic and drinking, including curative, purposes is the volume of water consumed to meet drinking and domestic needs of the population and corporate staff, as well as curative (resort, recreational) needs.

Water use for agricultural purposes (except fishery) is the volume of water used for industrial purposes of livestock units, poultry farms, repair facilities, maintenance of motor transport and machinery, field and pasture water supply and a number of other purposes, as well as the volume of water supplied to irrigated area for vegetation watering and all types of non-vegetation watering (moisture supply, flushing, presowing).

Fishery water use is the volume of water for filling fish-farming ponds.

Water use for industrial and other purposes is the total volume of water used for industrial purposes, including manufacture of alcoholic, non-alcoholic and low-alcohol drinks and beer, bottled fresh and mineral waters, as well as for energy needs and other purposes.

Water loss during transport is the volume of water lost as a result of water supply from the point of abstraction (withdrawal) to the point of use or transfer.

Water consumption in circulating water supply systems is the total volume of water which would be needed by enterprise to carry out economic activities without using such systems. Circulating water supply does not include water circulating in heat supply systems.

Volume of water in recycling (successive) water supply systems is the total volume of water reused (successively used) by an enterprise at different stages of production process.

Water discharge is the total volume of water discharged into environment, including discharge into earthen pits, absorption fields, subsurface disposal fields, filtration trenches, sand-gravel filters and water-tight cesspits.

The volume of water discharge includes wastewater in municipal sewage systems, livestock dung disposal systems, other wastewater disposal (sewage) systems, surface wastewater and water after fishing ponds, as well as technical water (abstracted subsoil mineralized industrial water, quarry (mine) water, drainage water).

The section was prepared on the basis of data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

7.1. Key indicators of protection and use of water resources

(million cubic metres)

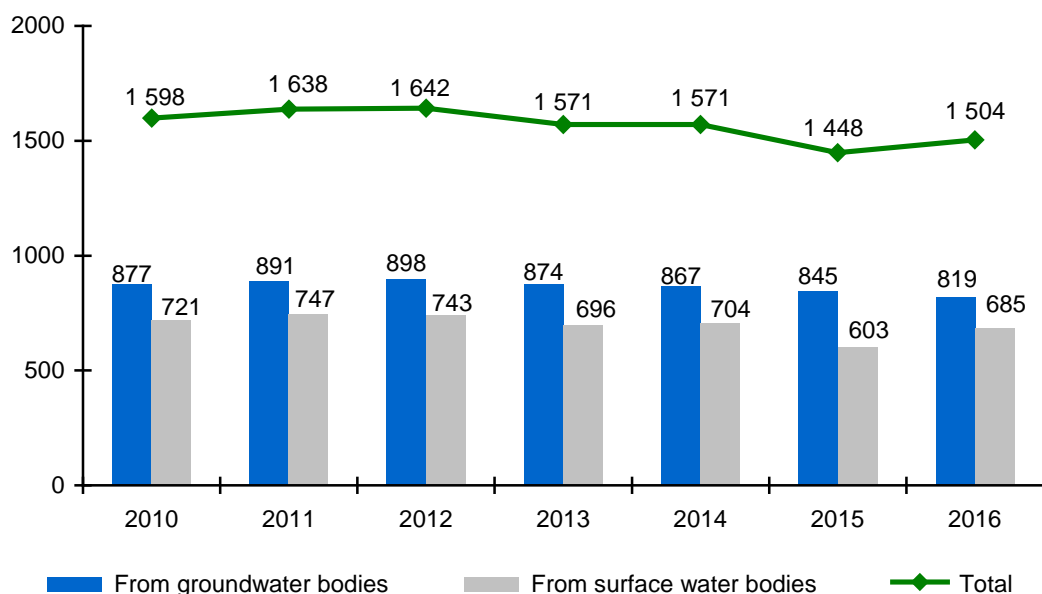
	2010	2011	2012	2013	2014	2015	2016
Water abstraction from natural sources – total	1 598	1 638	1 642	1 571	1 571	1 448	1 504
of which from groundwater bodies	877	891	898	874	867	845	819
Water use – total	1 359	1 406	1 442	1 373	1 371	1 270	1 302
of which for:							
domestic and drinking, including curative, purposes	495	486	492	477	473	474	504
agricultural purposes (except fishery)	114	114	120	117	115	114	116
fishery	357	383	401	372	378	293	344
industrial and other purposes	393	423	429	407	405	389	338
Water loss during transport	102	84	84	83	82	78	68
Circulating water supply	6 281	5 886	5 530	5 574	5 711	5 320	4 921
Recycling (successive) water supply	105	87	85	105	93	94	67
Water discharge	1 076	1 087	1 099	1 058	1 034	948	1 170
of which into surface water bodies	990	1 000	1 015	974	954	870	1 088

Continued

	2010	2011	2012	2013	2014	2015	2016
As % of the previous year							
Water abstraction from natural sources – total	106.0	102.5	100.2	95.7	100.0	92.2	103.9
of which from groundwater bodies	105.1	101.6	100.8	97.3	99.1	97.5	96.9
Water use	101.7	103.5	102.6	95.2	99.8	92.6	102.5
Water loss during transport	121.2	82.7	100.4	98.0	99.0	95.5	86.6
Circulating water supply	102.4	93.7	94.0	100.8	102.5	93.2	92.5
Recycling (successive) water supply	87.2	83.6	96.0	128.5	89.4	101.9	73.3
Water discharge	99.4	101.0	101.2	96.2	97.8	91.7	123.4
of which into surface water bodies	99.3	101.0	101.5	96.0	98.0	91.1	125.1
As % of 2010							
Water abstraction from natural sources – total	100	102.5	102.7	98.3	98.3	90.6	94.1
of which from groundwater bodies	100	101.6	102.4	99.7	98.8	96.3	93.3
Water use	100	103.5	106.1	101.0	100.8	93.4	95.8
Water loss during transport	100	82.7	83.0	81.3	80.4	76.8	66.5
Circulating water supply	100	93.7	88.1	88.7	90.9	84.7	78.3
Recycling (successive) water supply	100	83.6	80.2	103.1	92.2	94.0	69.0
Water discharge	100	101.0	102.2	98.3	96.1	88.1	108.7
of which into surface water bodies	100	101.0	102.5	98.4	96.4	87.8	109.9

7.2. Water abstraction from natural sources

(million cubic metres)



7.3. Water abstraction from natural sources per inhabitant by regions and Minsk city

(cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	168	173	173	166	166	153	158
Regions and Minsk city:							
Brest	199	216	224	202	204	192	184
Vitebsk	164	169	170	168	167	163	156
Gomel	156	166	165	148	144	136	123
Grodno	133	135	133	134	152	149	146
Minsk city	25	25	27	23	23	22	21
Minsk	386	388	390	389	381	325	386
Mogilev	147	145	139	135	133	127	136

7.4. Water abstraction from natural sources by regions and Minsk city

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	1 598	1 638	1 642	1 571	1 571	1 448	1 504
Regions and Minsk city:							
Brest	277	301	312	280	284	266	256
Vitebsk	201	206	205	203	200	195	185
Gomel	225	238	235	211	204	193	175
Grodno	142	143	141	141	160	156	153
Minsk city	46	47	51	44	45	42	42
Minsk	546	546	547	546	535	459	548
Mogilev	161	157	150	145	142	136	145
of which from groundwater bodies							
Republic of Belarus	877	891	898	874	867	845	819
Regions and Minsk city:							
Brest	138	142	143	141	141	139	134
Vitebsk	110	105	107	106	104	102	98
Gomel	126	146	140	136	134	128	114
Grodno	99	99	98	97	95	97	91
Minsk city	46	47	50	44	45	42	40
Minsk	249	246	255	249	248	239	232
Mogilev	110	107	105	102	100	98	110

7.5. Water abstraction from natural sources by river basin

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Total							
Total	1 598	1 638	1 642	1 571	1 571	1 448	1 504
Baltic Sea basin	598	608	604	596	625	600	544
of which river basin:							
Neman	353	359	352	350	376	364	313
Western Dvina	175	181	181	178	176	172	164
Western Bug	70	69	70	68	73	65	66
Black Sea basin	1 000	1 030	1 038	974	946	847	960
of which river basin							
Dnieper	558	562	561	523	516	498	536
Pripyat	442	468	477	451	430	349	424
of which:							
from groundwater bodies							
Total	877	891	898	874	867	845	819
Baltic Sea basin	318	315	324	316	315	312	299
of which river basin:							
Neman	181	182	188	181	181	178	170
Western Dvina	87	84	85	85	83	81	79
Western Bug	50	50	51	51	50	53	50
Black Sea basin	559	576	575	558	552	532	520
of which river basin							
Dnieper	420	434	437	421	417	402	389
Pripyat	139	142	138	136	135	131	131
from surface water bodies							
Total	721	747	743	696	704	603	685
Baltic Sea basin	280	293	280	280	311	288	245
of which river basin:							
Neman	172	177	165	169	195	185	143
Western Dvina	88	97	96	93	93	90	85
Western Bug	20	19	19	18	22	13	17
Black Sea basin	441	454	463	416	394	315	440
of which river basin							
Dnieper	138	127	125	101	99	97	146
Pripyat	303	327	338	315	295	218	294

**7.6. Water abstraction from natural sources
by selected cities**
(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	1 598	1 638	1 642	1 571	1 571	1 448	1 504
City:							
Baranovichy	16	15	15	14	14	14	14
Bobruysk	35	34	33	32	29	26	22
Borisov	18	18	17	17	17	16	15
Brest	30	29	29	28	29	29	28
Vitebsk	37	36	35	35	34	33	34
Gomel	60	61	55	54	51	48	46
Grodno	62	63	60	60	60	58	72
Zhodino	10	9	9	10	9	8	8
Minsk city	46	47	51	44	45	42	42
Mogilev	62	60	51	49	49	47	44
Orsha	17	15	15	15	14	14	14
Pinsk	12	10	11	11	10	11	10
Soligorsk	11	11	10	9	12	11	17
of which from groundwater bodies							
Republic of Belarus	877	891	898	874	867	845	819
City:							
Baranovichy	14	14	14	13	13	13	13
Bobruysk	23	22	21	20	18	18	16
Borisov	15	15	14	15	15	14	14
Brest	29	27	28	27	27	28	27
Vitebsk	32	31	30	31	29	29	29
Gomel	37	51	47	46	44	41	40
Grodno	33	34	32	32	31	29	28
Zhodino	7	6	6	6	6	6	5
Minsk city	46	47	50	44	45	42	40
Mogilev	40	39	39	37	37	35	34
Orsha	14	12	12	12	11	11	12
Pinsk	10	10	9	9	9	9	8
Soligorsk	4	3	3	3	3	3	9

7.7. Water abstraction from natural sources by regions, cities and districts

(million cubic metres)

	Total				Of which from groundwater bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Republic of Belarus	1 598.1	1 570.7	1 447.5	1 503.5	877.3	866.6	844.6	818.6
Brest region	277.4	283.9	266.4	255.5	138.0	141.1	139.0	134.3
Brest, city of	30.5	28.5	28.7	28.1	28.9	27.3	27.8	27.0
District:								
Baranovichy	23.4	23.2	22.8	20.3	19.3	17.8	17.5	16.8
Bereza	47.9	55.5	62.9	53.1	7.2	6.7	6.8	6.3
Brest	11.0	6.6	6.0	7.7	3.6	3.6	3.7	3.6
Gantsevichy	38.0	33.5	33.0	33.2	2.1	2.5	2.0	2.2
Drogichin	4.0	4.0	4.0	4.0	2.8	2.8	2.8	2.8
Zhabinka	7.0	7.8	6.3	6.8	2.3	2.2	2.3	2.4
Ivanovo	3.4	4.9	5.2	4.8	2.2	4.1	4.4	4.1
Ivatsevichy	5.0	6.4	6.3	6.3	4.7	4.6	4.6	4.4
Kamenets	4.7	7.3	5.7	4.0	4.3	4.1	5.6	4.0
Kobrin	6.1	6.1	6.2	6.0	6.0	5.9	5.9	5.9
Luninets	30.4	36.6	32.7	34.8	27.2	31.3	27.7	28.6
Lyakhovichy	2.3	2.5	2.4	2.5	2.3	2.5	2.4	2.5
Malorita	6.3	12.4	7.9	8.6	1.4	3.3	3.1	2.7
Pinsk	45.5	38.1	26.2	26.1	13.4	12.7	12.5	11.8
Pruzhan'y	4.7	5.6	5.5	4.9	4.7	5.6	5.5	4.9
Stolin	7.1	5.0	4.5	4.2	5.6	4.1	4.5	4.2

Continued

	Total				Of which from groundwater bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Vitebsk region	200.5	200.1	195.3	185.2	109.8	104.2	102.0	97.7
Vitebsk, city of	37.1	33.6	32.8	33.8	31.7	29.2	28.9	29.3
District:								
Beshenkovichy	0.9	1.1	1.0	1.0	0.9	1.1	1.0	1.0
Braslav	1.9	2.1	2.1	2.1	1.7	1.9	1.8	1.8
Verkhnedvinsk	2.2	2.3	2.4	2.5	2.2	2.3	2.4	2.5
Vitebsk	5.3	5.8	5.7	5.2	5.3	5.8	5.7	5.2
Glubokoye	9.4	4.2	4.0	3.5	4.2	4.2	4.0	3.5
Gorodok	1.9	2.3	2.3	2.0	1.9	2.3	2.3	2.0
Dokshitsy	1.9	2.2	1.9	1.8	1.8	2.2	1.8	1.8
Dubrovno	1.5	1.3	1.3	1.2	1.4	1.3	1.3	1.2
Lepel	2.1	2.5	2.8	3.2	1.9	2.4	2.7	3.0
Liozno	1.4	2.1	2.1	2.2	1.4	2.1	2.1	1.7
Miory	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3
Orsha	19.2	17.6	17.6	16.0	16.6	14.9	14.9	13.4
Polotsk	69.0	82.1	79.7	73.1	19.4	18.4	17.4	16.6
Postavy	16.5	15.3	15.1	14.8	4.1	3.0	2.8	2.5
Rossony	0.7	0.7	0.8	0.6	0.7	0.7	0.8	0.6
Senno	3.3	3.1	2.8	2.1	2.9	2.2	1.9	1.7
Tolochin	3.3	2.8	2.6	2.6	3.2	2.7	2.5	2.5
Ushachy	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.9
Chashniki	17.8	14.0	13.3	12.6	3.5	2.7	2.7	2.5
Sharkovshchina	1.1	1.0	0.9	1.0	1.1	1.0	0.9	1.0
Shumilino	1.9	2.0	1.9	1.7	1.8	1.9	1.8	1.7

Continued

	Total				Of which from groundwater bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Gomel region	224.6	204.5	193.1	174.7	125.7	133.6	128.1	113.6
Gomel, city of	60.4	50.7	47.6	46.2	37.2	43.9	41.2	39.9
District:								
Bragin	1.2	1.3	1.0	0.9	1.2	1.3	1.0	0.9
Buda-Koshelyovo	2.8	2.9	2.6	2.5	2.8	2.9	2.6	2.5
Vetka	2.0	1.6	1.4	1.5	2.0	1.6	1.4	1.3
Gomel	5.7	6.6	7.6	6.4	5.0	5.8	6.7	5.6
Dobrush	4.6	5.4	4.4	4.5	2.7	4.1	3.7	3.6
Yelsk	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4
Zhitkovichy	18.4	19.1	21.9	18.5	2.7	2.2	2.1	2.1
Zhlobin	12.4	11.1	11.1	9.5	10.6	9.9	9.2	7.7
Kalinkovichy	5.6	6.0	5.7	5.3	5.5	5.7	5.4	5.3
Korma	2.0	1.9	1.4	1.2	2.0	1.9	1.4	1.2
Lelchitsy	1.2	1.2	1.1	1.7	1.2	1.2	1.1	1.1
Loyev	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.1
Mozyr	26.7	25.2	23.6	23.5	16.2	11.7	11.5	10.4
Narovlya	1.2	1.3	1.0	1.5	1.2	1.3	1.0	0.9
Oktyabrsky	1.3	1.4	1.4	1.3	1.2	1.4	1.4	1.3
Petrikov	14.2	15.1	10.3	13.9	1.9	2.1	2.2	2.2
Rechitsa	10.0	16.0	16.1	9.1	9.6	15.7	15.8	9.1
Rogachev	6.7	6.7	6.3	5.3	5.8	5.5	5.5	4.8
Svetlogorsk	41.2	24.6	21.8	16.7	9.9	8.6	8.3	8.2
Khoyniki	2.8	2.9	2.7	1.9	2.8	2.9	2.7	1.9
Chechersk	1.6	1.2	1.2	1.1	1.6	1.2	1.2	1.1

Continued

	Total				Of which from groundwater bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Grodno region	141.9	159.7	156.1	153.1	98.5	95.0	96.7	90.9
Grodno, city of	61.9	60.1	57.6	71.9	33.1	30.9	29.0	28.0
District:								
Berestovitsa	2.1	2.4	2.5	2.2	2.1	2.0	2.1	2.2
Volkovysk	11.8	11.4	10.2	10.0	8.5	7.8	7.9	7.6
Voronovo	4.0	5.5	5.2	3.8	1.8	2.1	3.5	2.4
Grodno	8.7	8.1	8.6	8.0	6.8	6.0	6.3	6.0
Dyatlovo	3.5	3.2	2.9	2.9	3.1	2.7	2.6	2.5
Zelva	2.0	1.5	1.6	1.7	2.0	1.5	1.6	1.7
Ivye	1.5	1.5	1.7	1.4	1.5	1.5	1.7	1.4
Korelichy	2.3	16.1	13.4	1.9	2.0	1.9	2.0	1.8
Lida	13.1	13.9	14.7	12.4	12.5	12.5	13.5	11.9
Mosty	2.7	2.8	2.8	2.8	2.4	2.5	2.6	2.3
Novogrudok	3.5	3.6	3.5	3.5	3.5	3.6	3.5	3.5
Ostrovets	1.0	1.9	1.8	2.4	0.7	1.7	1.6	1.7
Oshmyany	2.6	2.3	2.3	2.4	2.6	2.3	2.3	2.4
Svisloch	1.7	1.4	1.6	1.7	1.7	1.4	1.5	1.6
Slonim	6.6	9.8	12.4	10.4	5.8	5.6	5.6	5.7
Smorgon	8.7	8.6	7.3	8.2	4.6	4.7	4.9	4.2
Shchuchin	4.2	5.6	6.0	5.6	3.8	4.1	4.2	4.0

Continued

	Total				Of which from groundwater bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Minsk city	46.3	45.2	42.1	42.2	45.9	44.8	41.8	40.2
Minsk region	546.4	534.9	459.0	548.1	249.0	247.5	238.9	232.3
District:								
Berezino	2.7	2.4	2.2	2.2	2.6	2.2	2.2	2.2
Borisov	21.5	20.4	20.5	21.0	18.8	18.5	18.4	17.5
Vileyka	120.6	118.6	114.2	125.2	4.1	4.1	4.0	3.8
Volozhin	3.8	3.3	2.6	3.1	3.8	3.3	2.6	3.1
Dzerzhinsk	16.1	20.6	18.6	18.4	16.0	20.5	18.6	18.3
Kletsk	4.4	4.3	4.0	4.0	4.4	4.3	4.0	4.0
Kopyl	3.3	3.5	3.3	3.4	3.3	3.5	3.3	3.4
Krupki	2.9	2.1	2.1	2.3	2.9	2.1	2.1	2.3
Logoysk	3.7	5.8	5.9	3.8	3.3	4.8	4.9	3.6
Lyuban	64.4	68.9	35.9	109.4	4.8	4.6	4.6	4.1
Minsk	76.8	76.6	71.2	69.9	76.1	75.4	70.7	69.4
Molodechno	18.2	17.0	17.8	16.8	14.4	13.3	14.0	12.8
Myadel	3.9	4.7	4.5	4.4	2.9	2.8	2.6	2.6
Nesvizh	6.8	7.3	6.9	6.7	5.2	5.8	5.5	5.2
Pukhovichy	15.6	19.2	17.1	17.0	13.7	14.3	13.8	14.0
Slutsk	18.3	17.0	17.1	9.8	18.2	16.9	17.1	9.8
Smolevichy	28.5	21.7	23.4	22.4	25.4	21.7	21.0	20.2
Soligorsk	96.3	79.2	44.1	58.6	6.8	5.5	5.5	11.7
Staryie Dorogi	2.4	2.2	2.4	2.3	2.4	2.2	2.4	2.3
Stolbtsy	6.3	6.3	6.0	6.0	4.6	4.8	4.5	4.5
Uzda	2.5	3.0	3.0	3.2	2.5	3.0	3.0	3.2
Cherven	27.4	28.3	36.0	38.3	12.8	14.0	14.0	14.3

Continued

	Total				Of which from groundwater bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Mogilev region	161.1	142.3	135.5	144.7	110.4	100.2	97.9	109.6
Mogilev, city of	61.8	49.0	46.8	44.3	40.3	36.6	34.8	34.0
District:								
Belynichy	2.0	2.0	2.4	2.3	2.0	2.0	2.4	2.3
Bobruysk	36.9	30.7	27.4	23.0	24.7	19.7	19.0	16.7
Bykhov	2.8	2.6	2.6	2.8	2.8	2.4	2.5	2.8
Glusk	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Gorki	4.3	4.0	4.1	4.1	4.3	4.0	4.1	4.1
Dribin	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Kirovsk	1.9	2.9	3.0	3.9	1.9	2.0	2.0	2.1
Klimovichy	3.0	3.3	2.4	2.1	3.0	3.2	2.4	2.1
Klichev	1.3	1.2	1.1	0.9	1.3	1.2	1.1	0.9
Kostyukovichy	2.8	2.4	2.5	19.4	2.8	2.4	2.5	19.4
Krasnopolye	0.8	0.7	0.7	0.4	0.8	0.7	0.7	0.4
Krichev	4.0	2.4	1.9	1.5	2.5	1.7	1.7	1.5
Krugloye	1.3	1.4	1.3	1.1	1.3	1.4	1.3	1.1
Mogilev	4.8	6.0	6.4	6.1	4.7	4.8	5.2	4.7
Mstislavl	2.3	2.5	2.4	2.1	2.3	2.5	2.4	2.1
Osipovichy	17.0	16.8	16.7	16.7	3.8	3.7	4.0	3.7
Slavgorod	3.1	2.8	2.8	2.4	3.1	2.8	2.8	2.4
Khotimsk	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.8
Chausy	1.8	1.9	1.8	1.8	1.8	1.9	1.8	1.8
Cherikov	1.3	1.1	1.0	1.0	1.2	1.0	0.9	1.0
Shklov	5.0	5.7	5.3	5.8	2.9	3.4	3.5	3.7

**7.8. Water abstraction from natural sources
by economic activity in 2010-2015¹⁾**
(million cubic metres)

	2010	2011	2012	2013	2014	2015
Total	1 598	1 638	1 642	1 571	1 571	1 448
of which:						
Agriculture, hunting and forestry	226	227	294	225	219	185
Fishery	270	296	255	290	298	250
Mining	36	47	43	43	38	35
Manufacturing	201	201	193	186	190	182
of which:						
Manufacture of food including beverages, and tobacco	51	50	48	47	48	50
Manufacture of textiles and textile articles	24	23	11	12	11	11
Processing of wood; manufacture of products of wood	5	4	4	4	4	4
Manufacture of pulp and paper; publishing	19	21	22	18	18	15
Manufacture of coke, petroleum products and nuclear materials	10	11	11	12	12	11
Manufacture of chemicals and chemical products	46	44	43	45	56	55
Manufacture of rubber and plastics products	12	12	13	13	12	9
Manufacture of other non-metallic mineral products	11	11	12	9	8	7
Manufacture of basic metals and fabricated metal products	4	5	6	5	5	5
Manufacture of machinery and equipment	7	7	9	9	6	6
Manufacture of transport vehicles and equipment	5	5	6	6	5	6
Electricity, gas and water supply	788	811	813	787	779	753
Construction	2	2	3	2	2	2
Trade; repair of motor vehicles and household and personal goods	2	2	0	0	1	1
Transport and communications	8	6	4	5	4	3
Community, social and personal services	33	34	26	22	31	29

¹⁾ According to the national classification of the Republic of Belarus "Types of Economic Activities" 005-2006 (compliant with NACE 1.1).

7.9. Water abstraction from natural sources by economic activity in 2016¹⁾

(million cubic metres)

	Water abstraction from natural sources – total	Of which	
		from groundwater bodies	from surface water bodies
Republic of Belarus	1 503.5	818.6	684.9
of which:			
Agriculture, forestry and fishing	480.3	134.2	346.2
Mining	25.8	25.8	0.1
Manufacturing	193.7	87.9	105.7
of which:			
Manufacture of food products, beverages and tobacco products	49.8	43.5	6.3
Manufacture of textile articles, wearing apparel, articles of leather and fur	10.8	1.7	9.1
Manufacture of products of wood and paper; printing and reproduction of recorded media	14.7	1.8	12.9
Manufacture of coke and refined petroleum products	14.3	2.1	12.1
Manufacture of chemicals and chemical products	53.8	4.3	49.6
Manufacture of basic pharmaceuticals and medicinal products	0.6	0.6	–
Manufacture of rubber and plastics products, of other non- metallic mineral products	30.8	22.3	8.5
Manufacture of basic metals; manufacture of fabricated metal products, except machinery and equipment	3.7	2.0	1.7
Manufacture of computer, electronic and optical products	2.8	2.4	0.4

Continued

	Water abstraction from natural sources – total	Of which	
		from groundwater bodies	from surface water bodies
Manufacture of electrical equipment	1.3	0.5	0.7
Manufacture of machinery and equipment n.e.c.	7.7	3.9	3.8
Manufacture of transport vehicles and equipment	2.8	2.6	0.2
Other manufacturing; repair and installation of machinery and equipment	0.6	0.2	0.4
Electricity, gas, steam, hot water and air conditioning supply	223.4	151.3	72.1
Water supply; waste management and remediation activities	530.1	406.9	123.3
Construction	15.1	1.6	13.5
Wholesale and retail trade; repair of motor vehicles and motorcycles	1.9	0.6	1.3
Transportation and storage, postal and courier activities	3.6	1.3	2.3
Accommodation and food service activities	17.8	1.0	16.8
Real estate activities	1.5	1.4	0.1
Professional, scientific and technical activities	1.8	0.3	1.5
Administrative and support service activities	0.1	0.1	0.0
Public administration	1.9	1.9	–
Education	0.2	0.2	–
Human health and social work activities	3.4	3.4	0.0
Arts, sports, entertainment and recreation	2.7	0.6	2.1
Other service activity	0.2	0.2	–

¹⁾ According to the national classification of the Republic of Belarus “Types of Economic Activities” 005-2011 (compliant with NACE 2.0).

7.10. Water use by regions and Minsk city

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	1 359	1 406	1 442	1 373	1 371	1 270	1 302
Regions and Minsk city:							
Brest	233	258	276	246	250	236	222
Vitebsk	172	184	188	187	184	181	172
Gomel	197	207	212	189	183	176	164
Grodno	128	129	129	129	148	146	143
Minsk city	186	188	184	180	180	174	169
Minsk	308	311	323	313	302	237	315
Mogilev	135	130	130	128	125	121	116
of which for:							
domestic and drinking, including curative, purposes							
Republic of Belarus	495	486	492	477	473	474	504
Regions and Minsk city:							
Brest	56	57	63	60	60	60	55
Vitebsk	55	54	55	55	53	53	54
Gomel	72	69	66	66	65	66	70
Grodno	54	54	53	50	49	50	47
Minsk city	135	132	126	126	127	126	127
Minsk	67	69	75	65	67	67	108
Mogilev	56	51	54	55	52	53	44

Continued

	2010	2011	2012	2013	2014	2015	2016
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agricultural purposes (except fishery)

Republic of Belarus	114	114	120	117	115	114	116
Regions and Minsk city:							
Brest	24	22	24	25	23	24	24
Vitebsk	15	16	16	17	16	15	15
Gomel	15	16	19	17	18	18	16
Grodno	18	15	15	14	14	16	17
Minsk	29	31	31	30	30	28	31
Mogilev	13	13	15	15	14	14	13

fishery

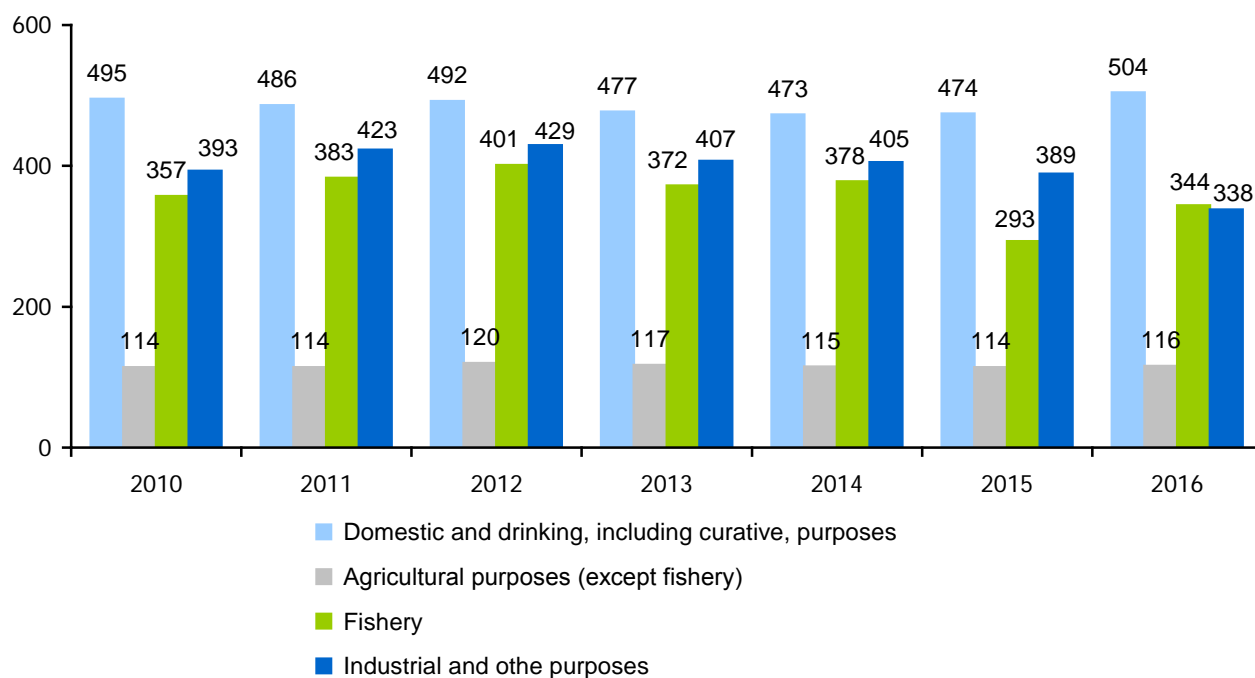
Republic of Belarus	357	383	401	372	378	293	344
Regions and Minsk city:							
Brest	127	146	158	131	137	117	116
Vitebsk	18	19	19	19	16	16	16
Gomel	28	30	31	28	27	25	29
Grodno	7	8	9	9	29	26	34
Minsk	164	167	170	171	154	94	133
Mogilev	13	13	15	14	15	15	16

Continued

	2010	2011	2012	2013	2014	2015	2016
industrial and other purposes							
Republic of Belarus	393	423	429	407	405	389	338
Regions and Minsk city:							
Brest	27	33	31	30	30	35	27
Vitebsk	84	95	98	97	99	97	88
Gomel	83	91	96	79	72	68	49
Grodno	49	52	52	56	56	54	45
Minsk city	51	56	58	54	53	48	42
Minsk	47	44	47	47	51	48	43
Mogilev	53	52	47	44	44	40	42

7.11. Dynamics of water use

(million cubic metres)



7.12. Water use by selected cities

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	1 359	1 406	1 442	1 373	1 371	1 270	1 302
City:							
Baranovichy	11	10	12	12	12	12	12
Bobruysk	31	31	30	28	27	24	20
Borisov	14	14	13	13	13	13	11
Brest	22	20	24	24	24	25	25
Vitebsk	30	29	29	29	27	27	29
Gomel	47	44	45	45	42	40	40
Grodno	54	55	53	54	55	52	67
Zhodino	9	8	8	9	8	7	7
Minsk city	186	188	184	180	180	174	169
Mogilev	47	42	39	39	38	39	39
Orsha	13	12	11	12	12	11	12
Pinsk	10	8	10	10	9	10	10
Soligorsk	15	15	15	14	17	17	16

7.13. Water use for domestic and drinking, including curative, purposes per inhabitant by regions and Minsk city

(cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	52	51	52	50	50	50	53
Regions and Minsk city:							
Brest	40	41	45	43	43	43	40
Vitebsk	45	45	45	45	44	44	45
Gomel	50	48	46	46	46	46	49
Grodno	51	51	50	48	46	47	45
Minsk city	73	71	67	66	66	64	64
Minsk	47	49	53	47	47	47	76
Mogilev	51	47	50	51	49	49	42

7.14. Water use by regions, cities and districts

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	1 359.4	1 406.3	1 442.5	1 373.1	1 370.8	1 269.5	1 301.6
Brest region	233.4	257.8	275.8	246.3	250.1	235.6	222.0
Brest, city of	22.2	20.0	24.2	24.1	24.3	24.7	25.4
District:							
Baranovichy	17.8	17.1	19.8	19.2	20.9	20.8	18.6
Bereza	47.4	57.1	71.3	55.1	55.3	62.7	52.8
Brest	10.7	11.1	8.7	9.7	7.4	6.1	7.6
Gantsevichy	37.6	40.6	40.6	33.4	33.1	32.7	33.0
Drogichin	3.6	3.5	3.6	3.9	3.8	3.9	3.8
Zhabinka	6.8	6.8	6.8	6.0	7.7	6.2	6.7
Ivanovo	4.0	4.1	5.1	6.8	4.5	4.9	4.6
Ivatsevichy	4.4	7.7	7.6	5.7	6.2	6.0	6.0
Kamenets	4.3	4.0	4.3	4.4	7.2	5.7	3.9
Kobrin	5.7	5.8	5.9	5.9	5.8	5.9	5.7
Luninets	7.1	18.7	13.6	14.3	13.7	12.7	10.2
Lyakhovichy	2.2	2.2	2.5	2.4	2.3	2.2	2.4
Malorita	6.1	7.7	9.8	8.8	11.3	7.0	7.6
Pinsk	43.9	43.9	41.8	28.2	36.8	25.1	25.1
Pruzhan'y	4.1	4.0	4.6	5.1	5.0	5.0	4.6
Stolin	5.5	3.5	5.1	3.7	4.8	4.1	4.0

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	172.0	184.0	188.5	187.3	183.9	181.1	172.2
Vitebsk, city of	29.6	29.0	28.6	29.0	27.3	27.3	28.6
District:							
Beshenkovichy	0.8	0.8	0.8	0.9	0.9	0.9	0.8
Braslav	1.8	1.9	1.7	1.8	1.9	1.9	2.0
Verkhnedvinsk	1.9	2.0	2.1	2.1	2.1	2.3	2.4
Vitebsk	4.3	3.6	4.6	4.2	4.4	4.4	4.2
Glubokoye	8.6	3.5	3.7	3.7	3.8	3.6	3.4
Gorodok	1.8	2.2	2.3	2.3	2.1	2.1	1.9
Dokshitsy	1.8	1.8	1.7	1.9	2.1	1.8	1.7
Dubrovno	1.4	1.4	1.3	1.3	1.2	1.2	1.2
Lepel	1.6	1.6	2.1	2.3	2.1	2.5	2.8
Liozno	1.4	1.6	2.1	2.1	2.1	2.1	2.0
Miory	1.2	1.2	1.2	1.3	1.3	1.3	1.2
Orsha	15.0	14.9	14.2	14.6	14.6	14.2	13.6
Polotsk	57.9	72.8	77.2	74.8	79.8	78.1	71.4
Postavy	15.7	15.6	15.5	15.1	15.0	14.7	14.6
Rossony	0.6	0.6	0.6	0.8	0.6	0.7	0.6
Senno	3.4	2.6	3.2	3.0	3.0	2.8	1.9
Tolochin	2.8	2.5	2.6	2.8	2.5	3.2	2.2
Ushachy	0.8	0.8	0.9	0.8	0.7	0.9	0.8
Chashniki	16.9	20.9	18.7	19.4	13.6	12.9	12.4
Sharkovshchina	1.0	1.0	1.1	1.0	1.0	0.9	0.9
Shumilino	1.7	1.9	2.1	2.0	1.9	1.7	1.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	197.0	207.1	212.3	189.5	183.1	175.7	163.7
Gomel, city of	46.5	43.6	44.6	44.9	41.5	39.9	40.3
District:							
Bragin	1.1	1.0	0.9	1.1	1.2	0.9	0.9
Buda-Koshelyovo	2.4	2.6	2.6	2.7	2.6	2.4	2.4
Vetka	1.7	1.6	1.5	1.5	1.3	1.3	1.4
Gomel	6.0	5.4	6.0	5.2	6.3	7.4	6.2
Dobrush	4.9	5.0	6.5	5.9	4.9	4.1	4.3
Yelsk	1.2	1.2	1.3	1.3	1.2	1.3	1.3
Zhitkovichy	18.1	19.4	18.9	15.9	15.7	18.4	18.3
Zhlobin	10.6	11.4	11.0	10.1	9.6	10.6	9.0
Kalinkovichy	5.1	5.2	5.1	5.7	5.5	5.3	4.4
Korma	1.7	2.1	1.9	1.3	1.7	1.3	1.1
Lelchitsy	1.1	1.1	1.1	1.2	1.1	1.1	1.6
Loyev	1.1	1.0	1.1	1.2	1.1	1.0	1.0
Mozyr	22.4	23.9	24.3	24.4	23.8	22.5	22.8
Narovlya	1.1	1.1	1.2	1.2	1.2	0.9	1.4
Oktyabrsky	1.2	1.5	1.4	1.2	1.3	1.4	1.2
Petrikov	14.0	15.1	16.4	16.4	15.0	10.2	13.7
Rechitsa	8.5	13.8	14.0	14.2	14.6	15.2	8.4
Rogachev	5.2	5.1	6.4	5.6	5.9	5.9	5.0
Svetlogorsk	39.4	41.7	43.2	24.9	23.7	21.2	16.1
Khoyniki	2.2	3.0	1.9	2.8	2.7	2.5	1.8
Chechersk	1.5	1.2	1.1	0.9	1.1	1.1	1.1

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	127.7	128.7	128.6	129.4	147.7	145.7	143.2
Grodno, city of	54.4	54.7	53.3	54.1	54.6	52.2	67.5
District:							
Berestovitsa	2.0	1.9	1.9	1.8	2.2	2.3	2.0
Volkovysk	10.7	10.4	9.7	9.5	10.2	9.5	8.9
Voronovo	3.9	4.9	4.8	4.9	5.4	5.0	3.7
Grodno	8.1	8.1	8.0	8.3	8.1	8.6	7.7
Dyatlovo	3.4	3.2	3.1	3.4	2.9	2.7	2.8
Zelva	1.9	1.5	1.6	1.6	1.4	1.5	1.6
Ivye	1.4	1.3	2.1	1.4	1.4	1.7	1.4
Korelichy	2.2	2.1	2.2	2.1	16.1	13.3	1.9
Lida	11.5	12.5	11.7	13.0	12.3	13.7	11.3
Mosty	2.6	2.8	2.7	2.6	2.6	2.7	2.8
Novogrudok	3.3	3.1	3.2	3.1	3.2	3.5	3.2
Ostrovets	1.0	1.5	1.5	1.6	1.8	1.7	2.3
Oshmyany	2.5	2.0	2.0	2.1	2.2	2.2	2.3
Svisloch	1.5	1.2	1.6	1.6	1.3	1.4	1.6
Slonim	5.2	5.3	5.9	5.6	8.9	11.6	9.5
Smorgon	8.1	8.0	8.0	8.3	7.6	6.5	7.4
Shchuchin	4.0	4.3	5.5	4.5	5.3	5.7	5.4

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	186.0	188.4	184.5	179.9	179.5	173.8	169.3
Minsk region	307.9	310.8	322.6	312.6	301.5	236.5	315.5
District:							
Berezino	2.6	2.5	2.8	2.5	1.3	2.1	2.1
Borisov	17.2	16.4	16.0	16.8	16.4	16.8	17.1
Vileyka	4.0	3.8	3.8	4.6	3.8	3.7	3.8
Volozhin	3.7	3.5	3.3	3.6	3.2	2.8	2.9
Dzerzhinsk	6.0	4.9	5.4	5.4	6.1	5.9	5.9
Kletsk	4.1	3.9	3.9	3.9	4.3	3.8	3.7
Kopyl	3.2	3.1	3.2	3.2	3.2	3.0	3.0
Krupki	2.7	2.7	2.4	2.1	2.0	2.0	2.1
Logoyisk	3.1	3.5	7.1	3.0	5.0	5.1	3.4
Lyuban	64.0	63.4	64.2	68.7	68.6	35.4	109.1
Minsk	12.4	13.7	18.5	14.0	15.4	14.8	15.1
Molodechno	15.1	15.2	17.3	14.2	15.2	15.1	13.5
Myadel	3.6	5.6	5.6	4.3	4.5	4.3	4.2
Nesvizh	6.3	6.5	6.8	6.8	6.9	6.5	6.3
Pukhovichy	7.9	8.4	10.2	9.0	10.9	9.1	8.4
Slutsk	10.2	12.1	9.2	9.7	9.6	9.5	8.7
Smolevichy	14.5	13.0	14.7	14.1	13.6	12.5	12.1
Soligorsk	100.0	101.2	100.7	99.5	84.5	49.4	57.3
Staryie Dorogi	2.3	2.2	2.1	2.1	2.0	2.2	2.2
Stolbtsy	6.1	6.1	6.3	6.1	5.9	5.6	5.5
Uzda	2.1	2.3	2.2	2.3	2.3	2.4	2.7
Cherven	16.8	16.7	16.8	16.8	16.9	24.5	26.4

Continued

	2010	2011	2012	2013	2014	2015	2016
Mogilev region	134.9	129.6	130.2	128.1	125.0	121.1	115.7
Mogilev. city of	47.0	42.5	38.6	39.2	38.4	38.6	38.5
District:							
Belynychy	1.6	1.8	1.9	1.7	1.9	2.2	2.2
Bobruysk	32.3	32.7	31.3	29.2	28.4	24.9	20.6
Bykhov	2.5	2.6	2.4	2.2	2.2	2.3	2.5
Glusk	1.0	0.9	0.9	0.9	0.9	1.0	1.0
Gorki	3.6	3.6	3.9	4.1	3.6	3.9	3.6
Dribin	0.8	0.8	0.7	0.8	0.8	0.8	0.8
Kirovsk	1.8	2.6	2.7	2.2	2.9	2.9	3.8
Klimovichy	2.8	2.8	3.1	3.1	3.0	2.2	1.9
Klichev	1.1	1.1	1.3	1.3	1.2	1.0	0.9
Kostyukovichy	2.2	2.4	2.1	2.2	2.3	2.3	2.0
Krasnopolye	0.7	0.7	0.8	0.9	0.7	0.7	0.4
Krichev	3.3	3.1	4.8	3.5	2.1	1.6	1.2
Krugloye	1.0	1.0	1.1	1.3	1.2	1.2	1.0
Mogilev	4.2	3.7	5.6	5.7	5.8	6.2	5.8
Mstislavl	2.1	1.8	1.8	2.0	2.5	2.3	1.9
Osipovichy	16.3	16.2	16.9	16.8	16.2	16.6	16.2
Slavgorod	2.8	2.2	2.4	2.4	2.6	2.4	2.4
Khotimsk	0.6	0.5	0.7	0.8	0.7	0.8	0.7
Chausy	1.6	1.9	1.5	1.4	1.6	1.7	1.6
Cherikov	1.1	1.1	1.3	1.4	1.1	0.9	1.0
Shklov	4.5	3.8	4.8	4.9	5.2	4.7	5.5

7.15. Water use by economic activity in 2010-2015¹⁾

(million cubic metres)

	2010	2011	2012	2013	2014	2015
Total	1 359	1 406	1 442	1 373	1 371	1 270
of which:						
Agriculture, hunting and forestry	159	162	168	158	150	149
Fishery	337	363	382	360	368	286
Mining	14	27	23	22	16	16
Manufacturing	234	238	229	222	229	215
of which:						
Manufacture of food, including beverages, and tobacco	67	69	63	66	63	63
Manufacture of textiles and textile articles	26	22	13	14	14	13
Processing of wood and manufacture of products of wood	4	3	3	3	3	3
Manufacture of pulp and paper; publishing	19	20	22	18	18	15
Manufacture of coke, petroleum products and nuclear materials	16	24	28	23	27	24
Manufacture of chemicals and chemical products	49	48	44	45	56	56
Manufacture of rubber and plastics products	7	8	8	7	8	5
Manufacture of other non-metallic mineral products	13	13	14	11	11	9
Manufacture of basic metals and fabricated metal products	5	5	5	4	4	5
Manufacture of machinery and equipment	11	11	12	13	11	9
Manufacture of transport vehicles and equipment	7	7	8	8	8	8
Electricity, gas and water supply	549	567	600	575	565	564
Construction	3	2	4	3	3	3
Trade; repair of motor vehicles and household and personal goods	2	2	1	1	2	3
Transport and communications	9	5	5	7	6	5
Community, social and personal services	23	26	18	16	22	21

¹⁾ According to the national classification of the Republic of Belarus "Types of Economic Activities" 005-2006 (compliant with NACE 1.1).

7.16. Water use by economic activity in 2016¹⁾

(million cubic metres)

	Water use
Total	1 301.6
of which:	
Agriculture, forestry and fishing	480.2
Mining	1.5
Manufacturing	175.4
of which:	
Manufacture of food products, beverages and tobacco products	49.8
Manufacture of textile articles, wearing apparel, articles of leather and fur	10.8
Manufacture of products of wood and paper; printing and reproduction of recorded media	14.7
Manufacture of coke and refined petroleum products	14.3
Manufacture of chemicals and chemical products	53.8
Manufacture of basic pharmaceuticals and medicinal products	0.6
Manufacture of rubber and plastics products, of other non-metallic mineral products	12.5
Manufacture of basic metals; manufacture of fabricated metal products, except machinery and equipment	3.7
Manufacture of computer, electronic and optical products	2.8
Manufacture of electrical equipment	1.3
Manufacture of machinery and equipment n.e.c.	7.7
Manufacture of transport vehicles and equipment	2.8
Other manufacturing; repair and installation of machinery and equipment	0.6
Electricity, gas, steam, hot water and air conditioning supply	200.1
Water supply; waste management and remediation activities	394.4
Construction	15.1
Wholesale and retail trade; repair of motor vehicles and motorcycles	1.9
Transportation and storage, postal and courier activities	3.6
Accommodation and food service activities	17.8
Real estate activities	1.4
Professional, scientific and technical activities	1.8
Administrative and support service activities	0.1
Public administration	1.9
Education	0.2
Human health and social work activities	3.4
Arts, sports, entertainment and recreation	2.7
Other service activity	0.2

¹⁾ According to the national classification of the Republic of Belarus "Types of Economic Activities" 005-2011 (compliant with NACE 2.0).

7.17. Water loss during transport by regions and Minsk city

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	102	84	84	83	82	78	68
Regions and Minsk city:							
Brest	7	6	7	6	6	6	4
Vitebsk	18	11	11	8	8	8	7
Gomel	14	14	13	12	12	11	5
Grodno	7	6	6	7	7	5	4
Minsk city	27	20	20	25	25	24	31
Minsk	14	12	14	14	13	15	9
Mogilev	15	14	13	10	11	9	7

7.18. Water loss during transport by selected cities

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	102	84	84	83	82	78	68
City:							
Baranovichy	2	2	1	1	0.9	0.9	0.8
Bobruysk	3	3	3	2	2	2	1
Borisov	2	2	2	2	2	2	0.6
Brest	2	2	3	2	2	2	1
Vitebsk	3	3	3	3	3	2	2
Gomel	8	7	5	4	4	3	3
Grodno	3	3	3	3	3	2	2
Zhodino	0.7	0.4	0.4	0.4	0.4	0.4	0.3
Minsk city	27	20	20	25	25	24	31
Mogilev	9	9	8	5	6	4	4
Orsha	4	3	3	1	1	0.9	2
Pinsk	0.6	0.7	0.7	0.7	0.6	1	0.4
Soligorsk	0.7	0.8	0.4	0.5	0.4	0.3	0.5

7.19. Volume of water in recycling (successive) water supply systems by regions and Minsk city

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	105	87	85	105	93	94	67
Regions and Minsk city:							
Brest	13	13	11	33	23	28	14
Vitebsk	18	12	13	12	11	7	10
Gomel	23	13	14	14	13	13	7
Grodno	15	17	14	13	13	13	12
Minsk city	9	8	10	10	11	10	12
Minsk	20	17	18	17	17	17	10
Mogilev	6	6	5	7	5	5	3

7.20. Water consumption in circulating water supply systems by regions and Minsk city

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	6 281	5 886	5 530	5 574	5 711	5 320	4 921
Regions and Minsk city:							
Brest	561	491	374	280	552	593	536
Vitebsk	2 275	2 093	1 832	1 997	1 697	1 351	1 213
Gomel	1 081	1 054	1 121	1 079	1 113	1 154	1 044
Grodno	787	786	759	755	786	775	770
Minsk city	784	713	691	715	671	652	602
Minsk	332	343	370	397	567	504	453
Mogilev	461	407	384	351	326	292	304

7.21. Water consumption in circulating water supply systems by economic activity in 2016¹⁾

(million cubic metres)

	Water consumption in circulating water supply systems
Total	4 920.6
of which:	
Agriculture, forestry and fishing	30.2
Mining	41.8
Manufacturing	2 540.0
of which:	
Manufacture of food products, beverages and tobacco products	256.8
Manufacture of textile articles, wearing apparel, articles of leather and fur	22.7
Manufacture of products of wood and paper; printing and reproduction of recorded media	60.3
Manufacture of coke and refined petroleum products	547.8
Manufacture of chemicals and chemical products	969.9
Manufacture of basic pharmaceuticals and medicinal products	4.4
Manufacture of rubber and plastics products, of other non-metallic mineral products	96.3
Manufacture of basic metals; manufacture of fabricated metal products, except machinery and equipment	382.6
Manufacture of computer, electronic and optical products	11.7
Manufacture of electrical equipment	9.5
Manufacture of machinery and equipment n.e.c.	132.0
Manufacture of transport vehicles and equipment	41.1
Other manufacturing; repair and installation of machinery and equipment	4.8
Electricity, gas, steam, hot water and air conditioning supply	2 303.3
Water supply; waste management and remediation activities	0.3
Construction	0.3
Transportation and storage, postal and courier activities	3.0
Professional, scientific and technical activities	0.3
Public administration	0.3
Human health and social work activities	0.2
Arts, sports, entertainment and recreation	0.9

¹⁾ According to the national classification of the Republic of Belarus "Types of Economic Activities" 005-2011 (compliant with NACE 2.0).

7.22. Water discharge by regions and Minsk city

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	1 076	1 087	1 099	1 058	1 034	948	1 170
Regions and Minsk city:							
Brest	194	203	210	190	195	163	207
Vitebsk	131	139	141	138	137	139	151
Gomel	161	163	167	144	139	128	160
Grodno	107	106	101	103	115	114	135
Minsk city	172	174	179	174	168	162	215
Minsk	206	198	198	202	185	146	176
Mogilev	104	104	103	106	96	95	125
of which into:							
surface water bodies							
Republic of Belarus	990	1 000	1 015	974	954	870	1 088
Regions and Minsk city:							
Brest	180	188	196	176	181	149	189
Vitebsk	122	130	130	128	127	129	144
Gomel	144	143	147	124	119	110	147
Grodno	90	90	87	89	103	101	120
Minsk city	172	174	179	174	168	162	215
Minsk	186	178	179	183	166	128	155
Mogilev	97	97	97	99	90	90	118
subsoil, underground water and other bodies							
Republic of Belarus	86	87	85	84	80	78	82
Regions and Minsk city:							
Brest	15	15	15	14	14	14	18
Vitebsk	9	9	11	10	9	10	7
Gomel	17	20	20	20	19	18	13
Grodno	18	17	15	14	12	13	15
Minsk	20	20	19	20	19	18	21
Mogilev	7	7	6	7	6	5	7

7.23. Water discharge by selected cities

(million cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	1 076	1 087	1 099	1 058	1 034	948	1 170
City:							
Baranovichy	10	11	12	13	13	13	14
Bobruysk	27	26	24	26	21	19	29
Borisov	15	14	13	14	14	13	14
Brest	33	32	29	30	28	27	31
Vitebsk	31	31	30	31	30	30	34
Gomel	55	50	49	48	48	46	82
Grodno	50	49	46	49	43	43	71
Zhodino	8	7	7	7	7	7	7
Minsk city	172	174	179	174	168	162	215
Mogilev	45	45	46	48	43	43	44
Orsha	13	11	12	9	11	12	12
Pinsk	12	11	11	11	10	10	11
Soligorsk	9	9	9	8	8	8	9
of which into surface water bodies							
Republic of Belarus	990	1 000	1 015	974	954	870	1 088
City:							
Baranovichy	10	11	12	13	13	13	14
Bobruysk	27	26	24	26	21	19	29
Borisov	15	14	13	14	14	13	14
Brest	33	32	29	30	28	27	31
Vitebsk	31	31	30	31	30	29	34
Gomel	55	50	49	47	48	46	82
Grodno	50	48	46	49	43	42	70
Zhodino	8	7	7	7	7	7	7
Minsk city	172	174	179	174	168	162	215
Mogilev	45	45	46	47	43	43	44
Orsha	12	11	12	9	11	12	12
Pinsk	12	11	11	11	10	10	11
Soligorsk	9	9	9	8	8	8	9

7.24. Water discharge by regions, cities and districts

(million cubic metres)

	Total				Of which into surface water bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Republic of Belarus	1 075.6	1 034.0	947.7	1 169.5	989.9	954.2	869.6	1 087.9
Brest region	194.2	194.8	163.4	207.5	179.5	181.0	149.1	189.1
Brest, city of	32.7	27.7	27.1	30.9	32.6	27.7	27.1	30.8
District:								
Baranovichy	13.8	18.3	17.9	18.6	12.3	16.7	16.0	15.6
Bereza	41.9	36.9	20.4	44.7	41.5	36.5	19.9	43.9
Brest	4.2	3.5	3.2	4.0	2.7	1.9	1.6	2.4
Gantsevichy	7.0	11.3	11.3	16.5	6.9	11.1	11.2	16.3
Drogichin	1.7	1.8	2.1	2.4	1.2	1.5	1.8	1.8
Zhabinka	5.6	6.2	4.9	5.4	4.0	4.6	3.4	3.7
Ivanovo	1.7	2.6	2.9	3.2	1.1	1.8	2.1	2.3
Ivatsevichy	2.9	3.6	3.7	4.3	2.0	2.9	2.8	3.4
Kamenets	2.7	5.2	1.8	2.8	0.7	3.4	0.4	0.8
Kobrin	3.8	3.2	3.3	4.7	2.8	2.6	2.6	3.6
Luninets	25.5	32.0	28.7	31.3	24.9	31.6	28.2	30.3
Lyakhovichy	0.9	1.2	1.1	1.1	0.6	0.6	0.6	0.6
Malorita	5.1	8.7	6.3	10.4	5.1	8.6	6.2	9.6
Pinsk	37.7	27.6	24.4	21.1	37.0	26.8	23.7	20.3
Pruzhany	2.7	2.8	2.6	4.3	1.7	2.0	1.6	3.3
Stolin	4.1	2.3	1.8	1.8	2.6	0.8	0.1	0.2

Continued

	Total				Of which into surface water bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Vitebsk region	131.1	136.5	139.0	150.8	122.3	127.2	128.8	143.5
Vitebsk, city of	30.8	29.6	29.5	33.7	30.8	29.5	29.5	33.6
District:								
Beshenkovichy	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
Braslav	0.7	0.7	0.8	0.6	0.6	0.6	0.7	0.4
Verkhnedvinsk	0.8	1.1	0.9	0.9	0.3	0.3	0.3	0.3
Vitebsk	1.8	1.4	1.1	1.5	1.0	0.7	0.4	0.9
Glubokoye	2.3	2.4	2.0	1.8	1.1	1.0	0.7	0.5
Gorodok	1.2	1.2	1.3	1.5	0.7	0.8	0.8	1.1
Dokshitsy	0.9	0.7	0.6	0.4	0.3	0.3	0.2	0.2
Dubrovno	0.5	0.4	0.4	0.4	0.1	0.2	0.2	0.3
Lepel	1.4	1.4	1.5	1.7	1.1	1.1	1.1	1.5
Liozno	0.2	0.7	0.5	0.7	0.0	0.0	0.0	0.4
Miory	0.8	0.8	0.7	0.7	0.1	0.1	0.1	0.1
Orsha	14.1	12.7	13.0	13.0	12.9	11.6	12.1	12.4
Polotsk	55.3	62.0	65.0	69.2	54.8	61.3	62.6	68.7
Postavy	10.9	11.1	11.0	13.9	10.4	10.3	10.3	13.3
Rossony	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Senno	1.4	1.5	1.3	1.3	1.2	1.4	1.3	1.3
Tolochin	1.4	1.0	1.3	1.1	1.0	0.8	0.9	0.8
Ushachy	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.4
Chashniki	4.6	5.8	6.2	6.5	4.4	5.6	6.0	6.3
Sharkovshchina	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
Shumilino	0.8	0.8	0.8	0.8	0.6	0.7	0.7	0.7

Continued

	Total				Of which into surface water bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Gomel region	161.2	138.7	128.3	159.9	144.1	119.3	110.0	147.3
Gome, city of	55.2	47.9	45.9	82.2	54.9	47.9	45.9	82.2
District:								
Bragin	0.3	0.5	0.3	0.3	0.0	0.0	0.0	0.0
Buda-Koshelyovo	1.1	1.0	0.9	1.7	0.7	0.7	0.7	0.9
Vetka	0.6	0.7	0.6	0.5	0.0	0.1	0.1	0.5
Gomel	1.7	2.4	3.1	1.6	0.0	0.1	0.8	0.1
Dobrush	3.0	2.2	1.5	1.9	0.2	0.1	0.1	0.2
Yelsk	0.2	0.3	0.3	0.5	0.0	0.0	0.0	0.0
Zhitkovichy	10.1	9.4	11.0	11.2	10.0	9.2	10.9	11.0
Zhlobin	9.8	9.5	7.3	6.1	9.3	9.2	7.1	5.6
Kalinkovichy	0.7	0.7	0.7	0.8	0.0	0.0	0.0	0.0
Korma	0.6	0.6	0.4	0.4	0.0	0.0	0.0	0.0
Lelchitsy	0.5	0.4	0.4	0.8	0.0	0.0	0.0	0.4
Loyev	0.5	0.4	0.2	0.3	0.0	0.3	0.1	0.0
Mozyr	18.9	18.6	17.4	19.6	18.0	18.0	16.8	18.7
Narovlya	0.6	0.6	0.4	1.0	0.0	0.0	0.0	0.5
Oktyabrsky	0.4	0.4	0.4	0.5	0.1	0.1	0.1	0.1
Petrikov	10.6	11.1	7.2	10.5	9.9	10.9	6.9	10.0
Rechitsa	5.7	10.7	11.0	3.9	3.9	3.6	3.5	3.3
Rogachev	3.4	3.5	3.3	2.9	2.6	2.6	2.4	2.3
Svetlogorsk	35.7	16.5	14.6	12.0	33.3	15.4	13.6	10.4
Khoyniki	1.2	0.8	1.1	1.0	0.9	0.6	0.9	0.9
Chechersk	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2

Continued

	Total				Of which into surface water bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Grodno region	107.1	114.8	113.9	134.7	89.5	102.6	101.4	119.7
Grodno, city of	50.2	43.5	42.7	70.8	49.8	43.3	42.4	70.3
District:								
Berestovitsa	1.4	1.1	1.3	1.0	0.5	0.7	0.8	0.4
Volkovysk	7.7	6.6	7.4	9.2	5.5	4.4	5.2	6.9
Voronovo	2.5	3.1	2.4	2.4	1.7	2.8	2.1	1.7
Grodno	5.1	4.9	4.7	5.0	1.7	2.1	2.1	2.1
Dyatlovo	1.9	1.6	1.5	1.9	0.6	0.7	0.8	0.7
Zelva	1.1	0.6	0.7	1.1	0.2	0.3	0.3	0.7
Ivye	0.4	0.4	0.3	0.5	0.3	0.3	0.3	0.3
Korelichy	1.4	14.9	12.3	1.1	0.6	14.4	11.7	0.6
Lida	12.3	13.8	13.8	14.4	11.2	13.1	13.1	13.5
Mosty	1.6	1.2	1.0	1.3	0.9	0.7	0.7	0.8
Novogrudok	2.6	2.5	2.5	2.6	2.0	2.1	2.1	2.1
Ostrovets	0.5	0.8	1.0	1.3	0.2	0.6	0.6	1.0
Oshmyany	1.7	1.2	1.2	1.3	1.2	0.9	0.9	0.9
Svisloch	0.9	0.7	0.7	0.8	0.0	0.0	0.0	0.1
Slonim	7.6	8.9	11.5	10.9	6.7	8.5	11.1	10.2
Smorgon	5.5	5.3	4.7	5.4	5.0	4.9	4.3	4.9
Shchuchin	2.7	3.8	4.0	3.7	1.4	2.7	2.9	2.6

Continued

	Total				Of which into surface water bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Minsk city	172.0	168.0	162.4	215.0	172.0	168.0	162.4	214.7
Minsk region	206.2	184.9	145.8	176.3	185.8	165.8	128.0	155.3
District:								
Berezino	0.6	1.2	1.3	0.9	0.0	0.0	0.0	0.6
Borisov	15.6	14.3	14.6	18.4	15.3	13.6	13.3	16.4
Vileyka	1.6	1.8	1.8	1.9	1.4	1.5	1.6	1.6
Volozhin	1.4	1.4	1.3	1.5	0.3	0.9	1.0	1.2
Dzerzhinsk	2.9	3.3	3.1	3.4	2.3	2.7	2.5	2.4
Kletsk	1.6	1.5	1.4	1.5	1.0	0.4	0.5	0.4
Kopyl	1.3	0.9	0.8	0.8	0.7	0.7	0.7	0.6
Krupki	1.2	0.7	0.8	0.9	0.4	0.5	0.4	0.6
Logoysk	1.2	1.3	1.3	1.6	0.8	1.1	1.0	1.1
Lyuban	27.7	32.4	16.5	26.6	27.0	32.0	16.0	26.1
Minsk	5.0	5.7	3.6	4.5	0.2	0.2	0.1	0.3
Molodechno	13.2	12.8	12.9	14.3	12.0	11.7	11.9	13.0
Myadel	3.0	3.4	3.4	3.5	2.6	3.0	3.0	3.1
Nesvizh	3.5	3.4	3.3	3.5	1.8	2.0	1.9	1.8
Pukhovichy	4.0	4.3	4.0	4.5	3.0	3.5	3.2	3.1
Slutsk	10.0	10.8	11.1	10.3	8.3	9.7	9.9	8.9
Smolevichy	11.6	10.3	10.3	10.3	10.9	9.5	9.7	9.2
Soligorsk	81.8	63.5	36.4	45.6	81.4	62.8	35.8	44.4
Saryie Dorogi	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.5
Stolbtsy	2.8	2.9	2.9	2.9	2.1	2.3	2.3	2.3
Uzda	0.8	1.0	1.1	1.2	0.1	0.0	0.0	0.0
Cherven	14.5	7.5	13.2	17.7	13.7	7.1	12.7	17.3

Continued

	Total				Of which into surface water bodies			
	2010	2014	2015	2016	2010	2014	2015	2016
Mogilev region	103.7	96.3	95.0	125.3	96.7	90.3	89.9	118.2
Mogilev, city of	45.1	43.5	43.2	43.7	44.9	43.4	43.1	43.7
District:								
Belynychy	0.6	0.7	0.7	1.0	0.0	0.0	0.0	0.3
Bobruysk	26.8	21.2	19.3	28.7	26.7	21.1	19.2	28.7
Bykhov	1.1	0.8	0.8	0.6	0.9	0.8	0.8	0.3
Glusk	0.8	0.6	0.4	0.3	0.0	0.3	0.3	0.2
Gorki	1.7	1.7	1.9	1.5	1.6	1.6	1.9	1.5
Dribin	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.2
Kirovsk	0.3	0.8	0.9	2.8	0.3	0.7	0.8	2.1
Klimovichy	1.2	1.6	0.9	1.0	0.2	0.2	0.1	0.2
Klichev	0.2	0.2	0.3	0.7	0.0	0.0	0.0	0.0
Kostyukovichy	1.4	1.2	1.0	18.4	1.3	1.0	1.0	18.3
Krasnopolye	0.2	0.2	0.1	0.1	0.0	0.2	0.1	0.1
Krichev	2.5	1.8	1.3	1.1	2.4	1.8	1.3	1.1
Krugloye	0.3	0.3	0.3	0.2	0.0	0.0	0.0	0.0
Mogilev	0.9	1.2	1.2	1.0	0.4	0.7	0.7	0.8
Mstislavl	0.5	0.5	0.7	0.4	0.3	0.4	0.4	0.0
Osipovichy	13.7	13.7	16.0	16.2	13.4	13.5	15.8	16.0
Slavgorod	0.7	0.7	0.7	0.6	0.0	0.0	0.0	0.0
Khotimsk	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.0
Chausy	0.7	0.7	0.9	0.8	0.5	0.4	0.8	0.8
Cherikov	0.8	0.7	0.5	1.1	0.2	0.2	0.2	0.6
Shklov	3.6	3.8	3.4	4.5	3.5	3.5	3.1	3.5

7.25. Water discharge into surface water bodies by economic activity in 2010-2015¹⁾

(million cubic metres)

	2010	2011	2012	2013	2014	2015
Total	990	1 000	1 015	974	954	870
of which:						
Agriculture, hunting and forestry	12	18	31	12	10	9
Fishing	236	242	243	239	246	181
Mining	24	22	25	25	27	23
Manufacturing	107	104	102	100	92	87
of which:						
Manufacture of food products, including beverages, and tobacco	13	11	7	8	7	6
Manufacture of pulp and paper; publishing	3	3	3	2	3	3
Manufacture of coke, petroleum products and nuclear materials	30	29	32	32	29	29
Manufacture of chemicals and chemical products	56	56	55	53	51	47
Manufacture of other non- metallic mineral products	4	4	3	3	2	2
Electricity, gas and water supply	556	573	585	569	548	541
Construction	1	2	1	1	1	1
Trade; repair of motor vehicles and household and personal goods	1	1	0.0	0.0	0.0	0.0
Transport and communications	2	1	1	1	0.2	0.1
Community, social and personal services	31	33	26	26	29	27

¹⁾ According to the national classification of the Republic of Belarus "Types of Economic Activities" 005-2006 (compliant with NACE 1.1).

7.26. Water discharge by economic activity in 2016¹⁾

(million cubic metres)

	Total	Of which into surface water bodies
Total	1 169.5	1 087.9
of which:		
Agriculture, forestry and fishing	257.6	226.5
Mining	24.4	22.5
Manufacturing	123.3	110.3
of which:		
Manufacture of food products, beverages and tobacco products	17.1	7.7
Manufacture of textile articles, wearing apparel, articles of leather and fur	2.1	1.9
Manufacture of products of wood and paper; printing and reproduction of recorded media	5.1	3.7
Manufacture of coke and refined petroleum products	48.8	48.4
Manufacture of chemicals and chemical products	25.8	25.6
Manufacture of basic pharmaceuticals and medicinal products	0.5	0.0
Manufacture of rubber and plastics products, of other non-metallic mineral products	21.7	21.3
Manufacture of basic metals; manufacture of fabricated metal products, except machinery and equipment	0.1	0.1
Manufacture of computer, electronic and optical products	0.0	0.0
Manufacture of electrical equipment	0.2	0.1

Continued

	Total	Of which into surface water bodies
Manufacture of electrical equipment	1.7	1.4
Manufacture of machinery and equipment n.e.c.	0.1	0.1
Manufacture of transport vehicles and equipment	0.1	0.1
Electricity, gas, steam, hot water and air conditioning supply	149.4	125.4
Water supply; waste management and remediation activities	513.6	507.3
Construction	18.1	17.6
Wholesale and retail trade; repair of motor vehicles and motorcycles	2.2	1.4
Transportation and storage, postal and courier activities	11.7	11.5
Accommodation and food service activities	16.9	16.8
Real estate activities	2.3	2.2
Professional, scientific and technical activities	2.3	2.2
Administrative and support service activities	40.3	40.3
Public administration	1.6	0.7
Education	0.1	0.0
Human health and social work activities	3.8	1.6
Arts, sports, entertainment and recreation	1.8	1.7

¹⁾ According to the national classification of the Republic of Belarus "Types of Economic Activities" 005-2011 (compliant with NACE 2.0).

7.27. Water discharge into surface water bodies by degree of treatment by regions and Minsk city

	2010	2011	2012	2013	2014	2015	2016
Total, million cubic metres							
Republic of Belarus	990	1 000	1 015	974	954	870	1 088
Regions and Minsk city:							
Brest	180	188	196	176	181	149	189
Vitebsk	122	130	130	128	127	129	144
Gomel	144	143	147	124	119	110	147
Grodno	90	90	87	89	103	101	120
Minsk city	172	174	179	174	168	162	215
Minsk	186	178	179	183	166	128	155
Mogilev	97	97	97	99	90	90	118
of which:							
without pre-treatment							
Republic of Belarus	314	332	345	317	316	246	244
Regions and Minsk city:							
Brest	110	118	128	104	112	82	44
Vitebsk	28	40	40	41	42	43	51
Gomel	40	41	42	27	22	20	56
Grodno	6	6	7	7	26	25	14
Minsk city	0.2	0.5	0.2	9	1	0.4	1
Minsk	119	114	115	118	100	62	68
Mogilev	12	12	12	12	12	13	10
treated according to standards							
Republic of Belarus	671	662	666	654	635	618	835
Regions and Minsk city:							
Brest	69	70	67	72	68	67	144
Vitebsk	93	89	90	88	85	86	92
Gomel	105	102	104	98	97	91	88
Grodno	83	82	79	82	76	76	106
Minsk city	172	172	179	165	167	162	214
Minsk	64	61	62	62	63	61	84
Mogilev	85	85	84	87	78	76	108

Continued

	2010	2011	2012	2013	2014	2015	2016
insufficiently treated							
Republic of Belarus	5	6	3	3	3	6	9
Regions and Minsk city:							
Brest	0.0	0.0	0.1	0.1	0.3	0.3	0.2
Vitebsk	1.2	0.5	0.1	0.1	0.1	0.1	0.9
Gomel	0.1	0.1	0.2	0.1	0.0	0.0	4
Grodno	1	1	1	0.1	0.0	0.0	0.0
Minsk city	0.0	1	0.0	0.0	0.0	0.0	0.5
Minsk	3	3	2	2	3	4	3
Mogilev	0.5	0.4	0.3	0.5	0.3	1	0.0
Insufficiently treated water as % of total water discharge subject to treatment							
Republic of Belarus	0.8	0.9	0.5	0.4	0.5	0.9	1.0
Regions and Minsk city:							
Brest	0.0	0.0	0.1	0.2	0.4	0.4	0.1
Vitebsk	1.3	0.5	0.1	0.1	0.1	0.1	1.0
Gomel	0.1	0.1	0.2	0.1	0.0	0.0	4.4
Grodno	1.1	1.1	1.1	0.1	0.1	0.0	0.0
Minsk city	0.0	0.8	0.0	0.0	0.0	0.0	0.2
Minsk	3.9	3.9	2.8	3.3	4.2	6.7	3.6
Mogilev	0.5	0.5	0.4	0.6	0.4	1.1	0.0

7.28. Discharge of insufficiently treated water into surface water bodies per inhabitant by regions and Minsk city

(cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	0.6	0.6	0.4	0.3	0.4	0.6	0.9
Regions and Minsk city:							
Brest	0.0	0.0	0.1	0.1	0.2	0.2	0.1
Vitebsk	1.0	0.4	0.1	0.1	0.1	0.1	0.8
Gomel	0.1	0.1	0.1	0.1	0.0	0.0	2.8
Grodno	0.9	0.8	0.9	0.0	0.0	0.0	0.0
Minsk city	0.0	0.8	0.0	0.0	0.0	0.0	0.3
Minsk	1.8	1.8	1.3	1.5	2.0	3.1	2.2
Mogilev	0.4	0.4	0.3	0.5	0.3	0.8	0.0

7.29. Ingress of contaminants with water discharge into surface water bodies

	2010	2011	2012	2013	2014	2015	2016
Water discharge into surface water bodies, mln m ³	990	1 000	1 015	974	954	870	1 088
Contaminants discharged:							
biochemical oxygen demand (BOD ₅), thsd t	8	8	9	8	8	8	9
salinity	327	378	422	421	398	382	381
sulphate ions, thsd t	56	60	61	58	47	53	49
chloride ions, thsd t	65	71	75	72	73	66	65
ammonium ions, thsd t	5	6	6	5	5	6	5
suspended solids, thsd t	13	13	12	14	13	12	17
synthetic surface-active substances, t	135	137	125	101	106	107	98
ferrum, total, t	459	484	511	382	289	278	272
chromium, total, t	5	4	3	3	4	3	3
nickel, t	4	4	5	6	3	2	2
copper, t	5	6	7	6	5	5	5
zink, t	27	24	24	25	24	25	28
lead, t	2	1	1	2	2	1	1

7.30. Capacity of water treatment facilities by regions and Minsk city

(million cubic metres per year)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	1 750.3	1 773.3	1 830.0	1 834.0	1 871.7	1 872.9	1 769.6
Regions and Minsk city:							
Brest	252.9	253.7	302.0	305.9	313.7	318.2	259.2
Vitebsk	221.6	214.2	216.7	211.9	215.6	215.7	164.6
Gomel	238.7	236.0	237.2	238.2	240.0	239.5	383.2
Grodno	199.3	201.9	207.9	215.7	215.4	215.2	171.8
Minsk city	317.6	339.4	334.9	334.1	348.1	348.3	375.2
Minsk	270.5	278.5	278.1	271.4	273.5	271.4	177.0
Mogilev	249.7	249.6	253.4	256.8	265.4	264.6	238.6

7.31. Average annual biochemical oxygen demand in river water

(milligrammes O₂ per cubic decimeter)

	2010	2011	2012	2013	2014	2015	2016
Berezina	1.82	1.82	2.31	2.44	2.48	2.80	2.48
Viliya	2.53	1.93	2.22	2.04	2.18	2.28	2.10
Dnieper	2.15	2.28	2.17	2.08	1.97	2.00	2.07
Western Dvina	2.10	2.09	2.02	2.10	2.04	2.17	2.14
Western Bug	2.88	3.51	4.08	3.52	3.10	4.06	3.77
Mukhovets	2.43	3.06	2.45	2.08	1.75	1.84	2.18
Neman	2.36	2.11	2.11	2.05	2.16	2.13	2.27
Pripyat	2.46	2.35	2.51	2.31	2.62	2.60	2.56
Svisloch	2.90	2.56	2.29	2.47	2.45	2.28	2.38
Sozh	1.53	1.81	1.98	1.73	1.92	1.99	1.97

7.32. Concentrations of contaminants in river water

	2010	2011	2012	2013	2014	2015	2016
Concentration of ammonium ions (in terms of nitrogen), milligrammes N per cubic decimetre							
Berezina	0.86	0.55	0.49	0.55	0.50	0.50	0.47
Viliya	0.47	0.30	0.17	0.17	0.23	0.18	0.21
Dnieper	0.41	0.32	0.35	0.35	0.37	0.31	0.31
Western Dvina	0.45	0.45	0.29	0.23	0.26	0.22	0.21
Western Bug	0.35	0.47	0.54	0.36	0.60	0.43	0.42
Mukhovets	0.81	0.56	0.47	0.37	0.47	0.22	0.22
Neman	0.43	0.36	0.24	0.23	0.24	0.19	0.16
Pripyat	0.50	0.43	0.44	0.37	0.33	0.35	0.35
Svisloch	0.82	0.68	0.29	0.31	0.40	0.43	0.44
Sozh	0.33	0.33	0.30	0.34	0.34	0.29	0.27

Continued

	2010	2011	2012	2013	2014	2015	2016
Concentration of phosphate ions (in terms of phosphorus), milligrammes P per cubic decimetre							
Berezina	0.11	0.08	0.10	0.10	0.08	0.09	0.09
Viliya	0.03	0.04	0.04	0.04	0.03	0.03	0.04
Dnieper	0.10	0.09	0.10	0.10	0.09	0.09	0.08
Western Dvina	0.03	0.03	0.04	0.05	0.04	0.04	0.06
Western Bug	0.19	0.15	0.19	0.14	0.16	0.16	0.15
Mukhovets	0.09	0.08	0.10	0.08	0.10	0.10	0.08
Neman	0.05	0.04	0.04	0.05	0.05	0.05	0.05
Pripyat	0.07	0.05	0.06	0.06	0.05	0.05	0.06
Svisloch	0.11	0.12	0.06	0.04	0.06	0.07	0.07
Sozh	0.07	0.07	0.07	0.08	0.08	0.08	0.07
Concentration of nitrates (nitrate ions), milligrammes NO ₃ per cubic decimetre							
Berezina	4.91	3.72	5.54	5.22	4.56	5.27	7.18
Viliya	5.31	3.45	5.54	5.88	4.65	4.25	5.00
Dnieper	3.98	4.60	4.21	4.42	4.65	4.79	4.41
Western Dvina	0.88	1.24	2.92	2.92	2.04	2.04	2.81
Western Bug	4.78	5.45	3.90	6.37	5.54	3.86	6.46
Mukhovets	4.34	4.07	2.26	5.35	3.63	2.84	6.13
Neman	6.46	5.40	4.34	4.91	5.76	4.56	4.99
Pripyat	1.77	1.55	2.04	2.52	3.10	2.53	2.49
Svisloch	6.99	6.86	4.25	4.12	4.87	5.27	6.38
Sozh	2.65	3.59	3.28	3.72	3.85	4.39	3.93

7.33. Concentrations of phosphate ions (in terms of phosphorus) in lakes

(milligrammes P per cubic decimetre)

	2010	2011	2012	2013	2014	2015	2016
Vygonoschanskoye	0.0145	0.0170	0.027	0.025	0.016	0.019	–
Drivyaty	0.0117	0.0060	0.035	0.009	0.012	0.014	–
Ezerishche	0.0129	0.0113	0.005	0.007	0.006	0.008	–
Lepelskoye	0.0253	0.0394	0.009	0.020	0.025	–	0.027
Losvido	0.0183	0.0144	0.013	0.010	0.011	0.024	–
Lukomskoye	0.0387	0.0355	0.014	0.030	0.015	–	0.017
Myadel	0.0056	0.0061	0.005	0.016	0.008	–	0.009
Myastro	0.0084	0.0108	0.011	0.017	0.004	0.006	–
Naroch	0.0078	0.0054	0.007	0.007	0.008	0.004	0.010
Nescherdo	0.0111	0.0128	0.007	0.013	0.010	–	0.014
Osveyskoye	0.0108	0.0122	0.012	0.008	0.016	0.005	–
Richy	0.0058	0.0050	0.019	0.006	0.012	0.007	–
Svir	0.0052	0.0063	0.011	0.013	0.008	0.005	–
Selyava	0.0105	0.0115	0.012	0.006	0.007	0.014	–
Snudy	0.0047	0.0051	0.008	0.006	0.011	0.006	0.009
Strusto	0.0049	0.0052	0.007	0.004	0.009	–	0.009
Chervonoye	0.0057	0.0065	0.085	0.064	0.080	0.038	–
Chernoye	0.0177	0.0375	0.003	0.007	0.021	0.019	0.036

7.34. Drinking water sample tests for compliance with sanitary hygienic safety standards in 2016¹⁾

Water sampling point	Total samples taken	Of which samples not compliant with hygienic standard	Share of samples not compliant with hygienic standard, %
For microbiological parametres			
Centralised water supply sources (groundwater)	27 541	108	0.4
Public water supply	81 616	546	0.7
Corporate water supply	35 329	312	0.9
Decentralised water supply sources	17 830	1 937	10.9
For sanitary chemical parametres			
Centralised water supply sources (groundwater)	23 696	8 450	35.7
Public water supply	58 110	7 401	12.7
Corporate water supply	30 930	6 254	20.2
Decentralised water supply sources	17 086	4 581	26.8

¹⁾ According to the data of the Ministry of Health of the Republic of Belarus.

8. LAND RESOURCES AND LAND PROTECTION

Agricultural land is land regularly used for agricultural production. It includes arable land, fallow land, land under permanent crops, and meadow land.

Forest land is forest stock land covered with forest as well as not covered with forest but intended for its regeneration (cuttings, burned out areas, clearings, waste grounds, glades, lost timber stands, areas under nurseries, plantations and non-closed forest crops, etc.) allotted for forestry management.

Damaged land is land that has lost its natural and historical features, state and uses due to the hazardous anthropogenic impact, and is in a condition that makes its efficient initially designated use impossible.

Land withdrawn from productive turnover includes land removed for housing and industrial construction, construction of transport infrastructure, construction and maintenance of other facilities, forest management and other purposes.

The section was prepared on the basis of the data of the State Committee for Property of the Republic of Belarus.

8.1. Land area

(as of January 1; thousand hectares)

	2011	2013	2014	2015	2016	2017	
						total	as % of total
Total land area	20 760	20 760	20 760	20 760	20 760	20 760	100
of which:							
agricultural land	8 898	8 817	8 726	8 632	8 582	8 540	41.1
forest land	8 567	8 589	8 631	8 653	8 742	8 769	42.2
land under swamps and water bodies	1 343	1 330	1 328	1 309	1 286	1 271	6.1
other land	1 953	2 025	2 075	2 166	2 150	2 180	10.5

8.2. Area of agricultural land by region

(as of January 1; thousand hectares)

	2011	2012	2013	2014	2015	2016	2017
Total							
Republic of Belarus	8 897.5	8 874.0	8 817.3	8 726.4	8 632.3	8 581.9	8 540.2
Region:							
Brest	1 429.3	1 426.9	1 422.5	1 420.1	1 414.8	1 406.4	1 388.7
Vitebsk	1 566.9	1 561.5	1 534.4	1 502.4	1 490.0	1 474.3	1 467.2
Gomel	1 383.9	1 381.7	1 361.9	1 354.2	1 346.7	1 330.4	1 323.8
Grodno	1 257.6	1 248.5	1 246.2	1 243.0	1 236.5	1 233.0	1 230.8
Minsk	1 867.8	1 863.9	1 861.5	1 851.4	1 849.0	1 845.1	1 846.1
Mogilev	1 392.0	1 391.5	1 390.8	1 355.3	1 295.3	1 292.7	1 283.6
of which arable							
Republic of Belarus	5 510.5	5 506.4	5 521.6	5 559.7	5 662.1	5 677.4	5 683.8
Region:							
Brest	818.0	817.9	816.9	820.4	828.4	832.3	834.4
Vitebsk	910.7	907.5	919.7	962.1	961.1	956.4	914.4
Gomel	812.4	814.6	818.9	820.2	863.8	881.3	914.2
Grodno	846.0	844.2	844.4	841.6	840.9	843.2	844.2
Minsk	1 263.2	1 261.4	1 261.5	1 253.6	1 316.4	1 313.0	1 316.0
Mogilev	860.2	860.8	860.2	861.8	851.5	851.2	860.6

8.3. Area of damaged land by region

(as of January 1; thousand hectares)

	2011	2012	2013	2014	2015	2016	2017
Republic of Belarus	24.0	25.5	26.3	26.6	26.4	26.9	27.3
Region:							
Brest	3.6	3.8	4.1	4.4	4.3	4.6	4.8
Vitebsk	3.2	3.5	4.0	4.2	4.5	4.6	5.3
Gomel	3.1	3.8	3.3	3.4	3.4	3.3	3.4
Grodno	4.4	4.7	4.6	4.4	4.5	4.8	4.6
Minsk	7.1	6.9	7.3	7.4	6.9	6.8	6.4
Mogilev	2.6	2.8	3.0	2.8	2.8	2.8	2.8

8.4. Area of reclaimed land

(as of January 1; thousand hectares)

	2011	2012	2013	2014	2015	2016	2017
Total land reclaimed	3 444.0	3 444.9	3 434.1	3 436.1	3 440.1	3 442.5	3 445.4
of which:							
drained	3 413.4	3 414.3	3 403.6	3 406.5	3 410.4	3 412.3	3 415.1
irrigated	30.6	30.6	30.5	29.6	29.7	30.2	30.3
of which agricultural land	2 952.9	2 952.1	2 944.9	2 940.5	2 910.1	2 908.1	2 904.7
of which:							
drained	2 922.3	2 921.5	2 914.4	2 910.9	2 880.4	2 877.9	2 874.4
irrigated	30.6	30.6	30.5	29.6	29.7	30.2	30.3
Share of reclaimed land in total land area, %	16.6	16.6	16.5	16.6	16.6	16.6	16.6
of which:							
drained	16.4	16.4	16.4	16.4	16.4	16.4	16.5
irrigated	0.2	0.2	0.1	0.2	0.1	0.1	0.1

8.5. Area of drained land by region

(as of January 1; thousand hectares)

	2011	2013	2014	2015	2016	2017	
						total	of which agricultural land
Republic of Belarus	3 413.4	3 403.6	3 406.5	3 410.4	3 412.3	3 415.1	2 874.4
Region:							
Brest	755.6	757.2	758.1	758.5	758.6	759.0	698.8
Vitebsk	625.0	625.8	626.6	627.3	628.3	628.9	514.8
Gomel	650.3	651.1	651.3	651.3	652.0	652.0	497.6
Grodno	326.2	327.5	329.8	331.4	331.5	331.6	297.9
Minsk	725.4	709.7	707.9	707.9	707.9	707.9	598.6
Mogilev	330.9	332.3	332.8	334.0	334.0	335.7	266.7

8.6. Area of irrigated agricultural land by region

(as of January 1; thousand hectares)

	2011	2012	2013	2014	2015	2016	2017
Republic of Belarus	30.6	30.6	30.5	29.6	29.7	30.2	30.3
Region:							
Brest	4.4	4.4	4.4	4.4	4.4	4.9	4.9
Vitebsk	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Gomel	5.1	5.1	5.1	4.2	4.3	4.3	4.4
Grodno	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Minsk	2.0	2.0	1.9	1.9	1.9	1.9	1.9
Mogilev	15.5	15.5	15.5	15.5	15.5	15.5	15.5

8.7. Area of land withdrawn from productive turnover

(as of January 1)

	2011	2012	2013	2014	2015	2016	2017
Land withdrawn from productive turnover:							
thsd ha	8.4	7.5	2.3	13.5	3.2	5.2	2.1
as % of total land area	0.04	0.04	0.01	0.07	0.02	0.03	0.01

9. APPLICATION OF FERTILIZERS AND PESTICIDES

Mineral fertilizers are fertilizers of industrial or fossil origin containing nutrients in the form of non-organic chemical compounds. The main nutrients of mineral fertilizers are nitrogen, phosphorus and potassium.

Excessive use of mineral and organic fertilizers as well as application of pesticides increase ecological hazards of water and soil contamination and have a negative impact on other components of the environment, disrupting the natural balance of soil microbial flora.

The analysis of time series on application of fertilizers and pesticides allows for control of their impact on the environment.

9.1. Application of mineral fertilizers in agricultural organisations per hectare of agricultural land by region

(in terms of 100% content of nutrients; kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Mineral fertilizers – total							
Republic of Belarus	196	220	197	188	162	148	112
Region:							
Brest	198	199	198	194	167	145	129
Vitebsk	185	213	173	177	131	104	59
Gomel	195	221	191	196	176	156	104
Grodno	200	232	218	215	201	187	134
Minsk	207	246	213	177	168	172	149
Mogilev	191	203	187	176	131	121	88

Continued

	2010	2011	2012	2013	2014	2015	2016
of which:							
nitrogenous							
Republic of Belarus	70	79	73	71	61	60	47
Region:							
Brest	68	65	73	66	63	61	53
Vitebsk	68	79	65	70	47	44	28
Gomel	62	75	68	73	63	66	43
Grodno	73	85	80	81	82	76	62
Minsk	75	91	79	67	63	65	58
Mogilev	69	73	73	69	48	45	34
phosphorous							
Republic of Belarus	31	38	29	27	20	18	10
Region:							
Brest	28	28	22	26	20	15	11
Vitebsk	28	42	24	26	13	14	4
Gomel	30	34	32	32	24	23	11
Grodno	26	38	31	31	27	23	10
Minsk	36	51	35	26	22	22	15
Mogilev	33	31	29	24	18	10	8
potassium							
Republic of Belarus	95	103	95	90	81	70	55
Region:							
Brest	102	106	102	101	84	69	65
Vitebsk	89	91	84	82	72	46	27
Gomel	103	112	91	91	89	67	50
Grodno	101	108	106	102	93	88	62
Minsk	96	104	99	85	84	84	75
Mogilev	89	98	85	83	64	66	46

9.2. Share of land treated with mineral fertilizers in total agricultural land by region

(percent)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	86.0	89.1	87.0	85.0	83.1	83.5	80.2
Region:							
Brest	89.9	90.9	92.2	88.9	88.2	87.4	86.5
Vitebsk	85.0	87.9	84.4	83.9	79.2	77.1	71.2
Gomel	81.8	86.1	84.7	83.5	85.0	84.8	81.7
Grodno	84.8	87.8	87.8	85.3	84.9	83.8	80.4
Minsk	90.6	94.1	89.6	85.8	85.5	88.4	86.4
Mogilev	82.7	86.1	82.9	82.0	74.8	78.3	73.4

9.3. Application of mineral fertilizers in agricultural organisations per hectare of arable land by region

(in terms of 100% content of nutrients; kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Mineral fertilizers – total							
Republic of Belarus	284	313	283	274	236	209	158
Region:							
Brest	305	306	297	301	266	230	200
Vitebsk	261	293	241	250	185	147	85
Gomel	307	350	319	321	280	237	155
Grodno	278	310	293	292	272	250	181
Minsk	279	327	286	243	232	223	192
Mogilev	277	289	269	257	192	169	126

Continued

	2010	2011	2012	2013	2014	2015	2016
of which:							
nitrogenous							
Republic of Belarus	99	111	105	101	87	83	65
Region:							
Brest	103	100	109	102	99	95	81
Vitebsk	93	103	88	93	64	60	39
Gomel	99	118	114	119	100	99	65
Grodno	102	115	109	110	108	100	82
Minsk	100	119	106	90	85	84	75
Mogilev	100	105	107	100	71	63	49
phosphorous							
Republic of Belarus	49	60	46	44	32	27	15
Region:							
Brest	50	48	39	47	35	26	19
Vitebsk	46	66	38	41	20	21	6
Gomel	53	60	56	55	40	36	17
Grodno	40	57	46	45	39	33	15
Minsk	54	74	51	38	31	31	21
Mogilev	52	50	46	39	28	15	12
potassium							
Republic of Belarus	136	142	132	129	117	99	77
Region:							
Brest	152	158	149	152	132	109	100
Vitebsk	122	124	115	115	101	66	40
Gomel	155	172	150	147	140	102	74
Grodno	136	138	138	136	125	117	84
Minsk	125	134	129	115	116	109	96
Mogilev	125	134	117	118	94	91	66

9.4. Application of organic fertilizers in agricultural organisations by region

(tonnes)

	2010	2011	2012	2013	2014	2015	2016
Per hectare of agricultural land							
Republic of Belarus	5.7	6.5	6.3	6.0	6.9	6.8	6.5
Region:							
Brest	7.8	8.3	8.3	8.7	9.3	9.4	8.6
Vitebsk	3.2	4.5	4.0	3.3	4.0	3.5	3.6
Gomel	4.8	5.5	5.0	4.8	6.7	6.0	5.9
Grodno	7.6	8.2	8.2	7.8	8.2	8.3	7.9
Minsk	6.4	7.0	6.9	6.4	7.4	7.5	7.2
Mogilev	4.2	5.6	5.3	5.6	6.2	6.4	5.9
Per hectare of arable land							
Republic of Belarus	9.1	10.3	10.0	9.6	10.7	10.3	9.7
Region:							
Brest	13.5	14.3	14.5	15.0	16.0	16.0	14.4
Vitebsk	5.3	7.1	6.3	5.2	6.1	5.3	5.4
Gomel	8.5	9.7	8.8	8.3	11.2	9.4	9.1
Grodno	11.5	12.2	12.2	11.6	12.0	12.1	11.4
Minsk	9.4	10.3	10.2	9.4	10.7	10.4	9.9
Mogilev	6.7	9.0	8.5	8.8	9.6	9.6	8.9

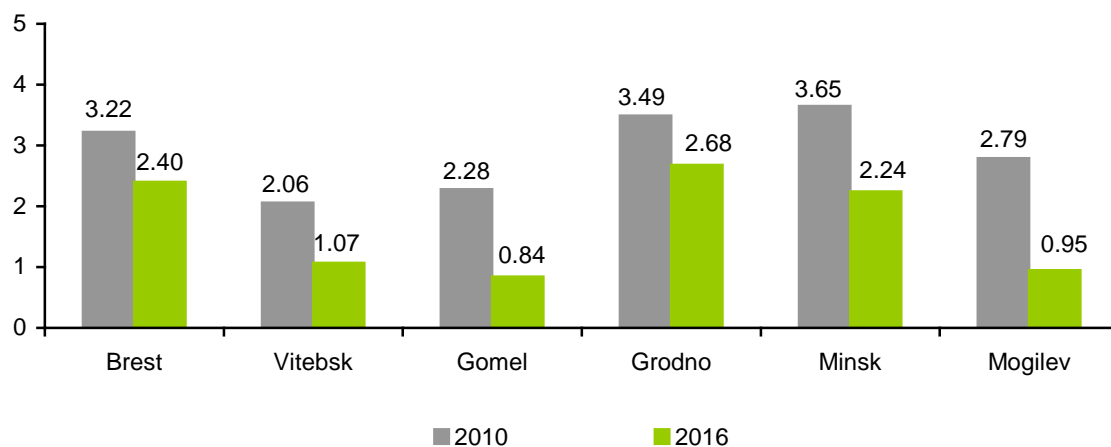
9.5. Application of pesticides per hectare of arable land by region

(kilogrammes)

	2010 ¹⁾	2011	2012	2013	2014	2015	2016
Republic of Belarus	2.92	2.67	3.08	2.98	2.63	1.82	1.72
Region:							
Brest	3.22	3.05	3.51	3.57	3.55	2.48	2.40
Vitebsk	2.06	1.65	1.90	1.81	1.63	1.15	1.07
Gomel	2.28	1.69	2.79	2.23	1.71	1.21	0.84
Grodno	3.49	3.58	4.00	4.18	3.72	2.76	2.68
Minsk	3.65	3.15	3.38	3.41	3.16	2.18	2.24
Mogilev	2.79	2.79	2.95	2.60	1.95	1.15	0.95

9.6. Dynamics of pesticide application per hectare of arable land by region¹⁾

(kilogrammes)



¹⁾ For 2010 – data of the Ministry of Agriculture and Food of the Republic of Belarus.

10. PROTECTION AND USE OF FOREST RESOURCES

Forest stock land is forest land and non-forest land within the boundaries of forest stock area allotted for forestry management.

Forest land is forest stock land covered with forest as well as not covered with forest but intended for its regeneration (cuttings, burned out areas, clearings, waste grounds, glades, lost timber stands, areas under nurseries, plantations and non-closed wood species) allotted for forestry management.

Forest-covered land is land of the forest stock covered with tree vegetation, either naturally growing or planted, and shrubs.

Percent forest cover is a ratio of the forest-covered area to the total land area of the country (region, district).

Reforestation refers to re-establishing forest plantations in areas not covered with forest, where forest was previously growing (cuttings, burnt-out areas, lost timber stands, clearings, waste grounds, glades). Reforestation includes forest planting and sowing, assistance to the natural forest regeneration, and preservation of undergrowth.

Forest planting is planting of stock of one or several wood species for the purpose of establishing forest plantations (planting of seedlings, saplings, cuttings and other planting stock in regeneration areas).

Forest seeding is sowing of seeds of one or several wood species for the purpose of establishing forest plantations (sowing of tree seeds in regeneration areas irrespective of the method of sowing (manual, mechanised or air-seeding)).

Assistance to natural forest regeneration is creation of favourable conditions for seeds growing, self-seeding and young growth under the forest canopy. Assistance to natural forest regeneration includes mechanical tillage (soil mineralisation); fencing of cutting areas allotted for felling and of cut-over patches; seeding of main wood species in the cultivated land on cut-over areas where the number of preserved undergrowth or specimens of natural regeneration is 1 000 to 4 000 plants per hectare; planting of main wood species in the quantity not exceeding 25% of the density of complete forest plantations under the relevant site conditions.

Afforestation is a set of activities designed to establish forest in the previously unforested areas.

Forest management is a system of the forest inventory and recording, planning of activities designed for the rational and multipurpose use of forest stock; enhancement of forestry management efficiency; preservation of habitat-forming, water protective, protective, sanitary-hygienic, recreational and other forest functions; efficient regeneration, preservation and protection of forest; and implementation of an integrated scientific and technological policy in forestry.

Timber cut by all felling types is timber procurement by final, intermediate and other cutting.

Final cutting refers to cutting of ripe and overripe stands for timber procurement.

Forest pest and disease control is a set of measures designed to prevent forest damage by harmful organisms and to extinguish pest and disease foci, mostly using biological and chemical methods.

Biological control of forest pests and diseases is a release of predaceous and parasitic insects (entomophages) in pest affected areas; application of fungous, bacterial and virus preparations.

Chemical control of forest pests and diseases involves application of pesticides (toxic chemicals) in pest affected areas.

Forest protection is a set of measures designed for forest fires prevention, their timely detection and extinguishing as well as for the protection of forest from unauthorised cutting, contamination with wastewater, chemical and radioactive substances, waste, from stealing and other forest damaging actions.

10.1. Forest resources by region¹⁾

(as of January 1)

	2011	2012	2013	2014	2015	2016	2017
Total area of forest stock, thsd ha							
Republic of Belarus	9 275	9 294	9 301	9 321	9 342	9 429	9 448
Region:							
Brest	1 375	1 379	1 383	1 383	1 385	1 397	1 400
Vitebsk	1 814	1 815	1 815	1 818	1 826	1 861	1 863
Gomel	2 203	2 204	2 208	2 212	2 221	2 236	2 245
Grodno	966	977	978	980	980	984	986
Minsk	1 684	1 685	1 683	1 681	1 681	1 687	1 688
Mogilev	1 233	1 234	1 234	1 247	1 249	1 263	1 265

Continued

	2011	2012	2013	2014	2015	2016	2017
of which forest area, thsd ha							
Republic of Belarus	8 567	8 585	8 589	8 631	8 653	8 742	8 769
Region:							
Brest	1 224	1 231	1 234	1 234	1 236	1 244	1 249
Vitebsk	1 667	1 669	1 668	1 671	1 680	1 720	1 724
Gomel	2 015	2 016	2 019	2 023	2 030	2 054	2 069
Grodno	915	919	920	923	923	922	924
Minsk	1 607	1 610	1 609	1 607	1 606	1 611	1 611
Mogilev	1 139	1 140	1 139	1 173	1 179	1 191	1 193
of which forested area, thsd ha							
Republic of Belarus	8 094	8 123	8 124	8 180	8 211	8 293	8 358
Region:							
Brest	1 163	1 177	1 180	1 181	1 193	1 195	1 197
Vitebsk	1 592	1 596	1 598	1 600	1 612	1 653	1 658
Gomel	1 843	1 846	1 848	1 851	1 856	1 884	1 940
Grodno	872	874	873	875	877	877	877
Minsk	1 544	1 549	1 548	1 544	1 542	1 542	1 543
Mogilev	1 080	1 081	1 077	1 129	1 131	1 142	1 143
Percent forest cover							
Republic of Belarus	39.0	39.1	39.1	39.4	39.6	39.9	40.3
Region:							
Brest	35.5	35.9	36.0	36.0	36.4	36.4	36.5
Vitebsk	39.7	39.8	39.9	40.0	40.2	41.3	41.4
Gomel	45.6	45.7	45.8	45.8	46.0	46.7	48.1
Grodno	34.7	34.8	34.8	34.8	34.9	34.9	34.9
Minsk	38.4	38.5	38.5	38.4	38.4	38.4	38.4
Mogilev	37.1	37.2	37.1	38.8	38.9	39.3	39.3

¹⁾ According to the data of the State Committee for Property of the Republic of Belarus.

10.2. Forest cover of the territory by regions and districts¹⁾

(as of January 1; percent)

	2011	2012	2013	2014	2015	2016	2017
Republic of Belarus	39.0	39.1	39.1	39.4	39.6	39.9	40.3
Brest region	35.5	35.9	36.0	36.0	36.4	36.4	36.5
District:							
Baranovichy	29.8	29.9	29.9	30.7	30.7	31.1	31.6
Bereza	26.4	26.3	26.3	26.3	26.3	25.6	25.6
Brest	34.8	34.8	35.7	35.5	35.9	36.0	35.6
Gantsevichy	49.6	54.7	54.7	54.7	53.4	53.3	53.3
Drogichin	24.4	24.4	24.4	24.4	26.0	26.2	26.2
Zhabinka	17.1	17.1	17.1	17.1	18.9	18.9	18.7
Ivanovo	26.8	26.8	26.7	27.5	27.6	27.6	28.1
Ivatsevichy	49.6	49.7	49.9	49.2	49.2	48.9	48.7
Kamenets	28.5	28.2	28.3	28.5	28.7	28.8	29.0
Kobrin	26.0	25.4	25.8	25.8	26.8	26.9	27.1
Luninets	43.3	43.4	43.4	43.3	43.3	43.7	43.7
Lyakhovichy	33.8	38.2	38.2	38.0	37.4	37.8	37.4
Malorita	45.2	45.2	45.4	45.4	46.8	47.3	47.4
Pinsk	30.6	30.5	30.5	30.5	30.5	30.5	30.7
Pruzhan'y	43.3	43.4	43.5	43.5	43.8	43.8	44.1
Stolin	35.4	35.4	35.4	35.4	37.0	36.9	36.9

Continued

	2011	2012	2013	2014	2015	2016	2017
Vitebsk region	39.7	39.8	39.9	40.0	40.2	41.3	41.4
District:							
Beshenkovichy	28.0	28.0	28.0	28.0	28.0	29.1	29.2
Braslav	35.1	35.0	35.0	35.0	35.0	35.0	35.3
Verkhnedvinsk	39.3	40.8	40.8	40.7	40.7	41.1	41.1
Vitebsk	36.7	36.7	36.7	36.6	36.6	37.1	37.1
Glubokoye	25.4	25.4	25.4	25.4	25.4	30.9	30.9
Gorodok	52.5	52.5	52.5	52.5	54.9	57.6	57.6
Dokshitsy	48.8	48.8	48.8	48.8	48.8	53.7	53.7
Dubrovno	26.6	26.6	26.6	26.6	26.6	26.7	26.7
Lepel	54.2	54.5	54.5	54.5	54.5	54.5	54.5
Liozno	43.9	43.6	43.9	45.5	45.6	46.3	46.4
Miory	23.8	23.8	23.8	23.8	23.8	24.0	24.2
Orsha	24.8	24.9	25.0	25.0	25.0	25.8	27.8
Polotsk	53.7	53.6	53.6	53.6	53.6	54.0	54.0
Postavy	34.6	34.6	34.6	34.6	34.6	34.6	34.6
Rossony	67.0	67.0	67.0	67.0	69.0	69.0	69.0
Senno	39.7	39.8	39.8	39.8	39.8	40.1	40.3
Tolochin	29.5	29.5	29.5	29.5	29.5	30.1	30.1
Ushachy	40.2	40.2	41.4	41.4	41.9	42.5	42.5
Chashniki	29.8	29.8	29.8	29.8	29.8	29.8	29.8
Sharkovshchina	24.3	24.3	24.3	24.3	24.3	25.0	25.0
Shumilino	40.1	40.6	40.5	40.9	40.7	41.4	41.4

Continued

	2011	2012	2013	2014	2015	2016	2017
Gomel region	45.6	45.7	45.8	45.8	46.0	46.7	48.1
District:							
Bragin	34.1	34.1	34.1	34.1	34.1	34.1	35.4
Buda-Koshelyovo	23.8	23.8	23.8	23.8	23.8	23.8	23.8
Vetka	38.7	38.7	39.5	39.7	39.7	40.5	47.3
Gomel	34.6	34.7	34.6	34.6	34.6	34.6	35.9
Dobrush	24.5	25.6	25.6	25.6	25.6	25.8	25.7
Yelsk	56.1	56.1	56.1	56.1	56.1	56.1	56.2
Zhitkovichy	54.9	54.9	54.9	54.9	54.9	54.9	55.0
Zhlobin	32.5	32.6	32.6	32.9	33.2	33.6	33.5
Kalinkovichy	48.6	48.4	48.4	48.5	48.8	48.9	51.2
Korma	33.2	33.2	33.2	33.2	33.2	33.3	33.4
Lelchitsy	66.5	66.5	66.5	66.5	66.5	66.5	69.8
Loyev	34.1	35.4	35.7	36.1	36.5	36.9	37.1
Mozyr	54.3	54.3	54.3	54.3	54.3	54.5	54.5
Narovlya	58.8	58.8	58.8	58.8	59.4	67.7	78.7
Oktyabrsky	57.5	57.5	57.5	57.8	57.8	57.8	58.4
Petrikov	55.5	55.5	55.5	55.5	56.0	56.7	56.6
Rechitsa	42.4	42.4	42.4	42.4	42.7	42.8	42.7
Rogachev	33.0	33.0	33.0	33.0	33.0	33.1	34.6
Svetlogorsk	51.6	51.6	51.5	52.2	52.1	52.1	52.2
Khoyniki	46.9	47.0	47.0	47.0	47.0	47.1	47.8
Chechersk	45.3	45.3	45.3	45.3	45.3	52.8	52.8

Continued

	2011	2012	2013	2014	2015	2016	2017
Grodno region	34.7	34.8	34.8	34.8	34.9	34.9	34.9
District:							
Berestovitsa	16.4	16.4	16.4	16.4	16.4	16.3	16.3
Volkovysk	22.9	22.8	22.8	22.8	22.8	22.7	22.6
Voronovo	27.4	27.5	27.5	27.5	27.5	27.5	27.5
Grodno	38.1	38.1	38.1	38.1	38.1	37.9	37.9
Dyatlovo	44.0	44.3	44.4	44.5	44.6	44.8	44.9
Zelva	15.6	15.6	15.6	15.6	15.6	15.7	15.7
Ivye	42.4	42.4	42.4	42.4	42.4	42.4	43.4
Korelichy	19.6	19.6	19.6	19.6	19.6	19.6	19.6
Lida	25.9	26.0	25.9	26.2	26.2	26.2	26.1
Mosty	34.4	34.5	34.5	34.6	34.6	34.7	34.7
Novogrudok	39.8	40.0	40.2	40.4	40.7	40.9	40.1
Ostrovets	48.0	48.0	48.1	48.1	48.7	48.7	48.6
Oshmyany	33.2	33.3	33.2	33.7	33.8	33.9	34.0
Svisloch	47.4	47.4	47.4	47.4	47.4	47.4	47.4
Slonim	35.8	35.8	35.8	35.8	35.8	35.8	35.8
Smorgon	36.7	36.7	36.7	36.8	36.8	36.8	36.7
Shchuchin	33.2	33.2	32.9	32.9	32.9	33.0	33.0

Continued

	2011	2012	2013	2014	2015	2016	2017
Minsk region	38.4	38.5	38.5	38.4	38.4	38.4	38.4
District:							
Berezino	50.4	50.4	50.3	50.3	50.3	50.3	50.2
Borisov	51.2	51.2	51.1	51.1	51.2	51.2	51.1
Vileyka	39.9	40.3	40.3	40.3	40.3	40.3	40.3
Volozhin	36.1	36.6	36.6	36.6	36.6	36.6	36.5
Dzerzhinsk	28.6	28.6	28.6	28.6	28.6	28.6	28.6
Kletsk	25.2	25.7	25.7	25.7	25.9	26.1	26.1
Kopyl	18.2	18.2	18.2	18.2	18.2	18.2	18.2
Krupki	50.1	50.1	50.1	50.1	50.1	50.1	50.1
Logoysk	52.8	52.8	52.8	51.7	50.7	50.7	51.0
Lyuban	38.2	38.2	38.2	38.1	38.1	38.1	38.1
Minsk	26.9	26.8	26.6	26.6	26.6	26.6	26.5
Molodechno	31.3	31.6	31.6	31.6	31.6	31.6	31.6
Myadel	39.5	39.5	39.5	39.5	39.5	39.5	39.5
Nesvizh	11.4	11.4	11.4	11.4	11.4	11.5	11.5
Pukhovichy	38.8	39.6	39.5	39.5	39.5	39.7	39.7
Slutsk	21.8	21.8	21.7	21.7	21.7	21.7	21.7
Smolevichy	32.3	32.3	32.3	32.3	32.3	31.8	31.7
Soligorsk	35.6	35.6	35.5	35.5	35.5	35.5	35.5
Staryie Dorogi	52.3	52.3	52.3	52.3	52.3	52.3	52.2
Stolbtsy	45.7	45.7	45.7	45.7	45.7	45.7	45.7
Uzda	40.3	40.3	40.3	40.2	40.2	40.2	40.4
Cherven	41.4	41.4	41.3	41.3	41.3	41.3	41.7

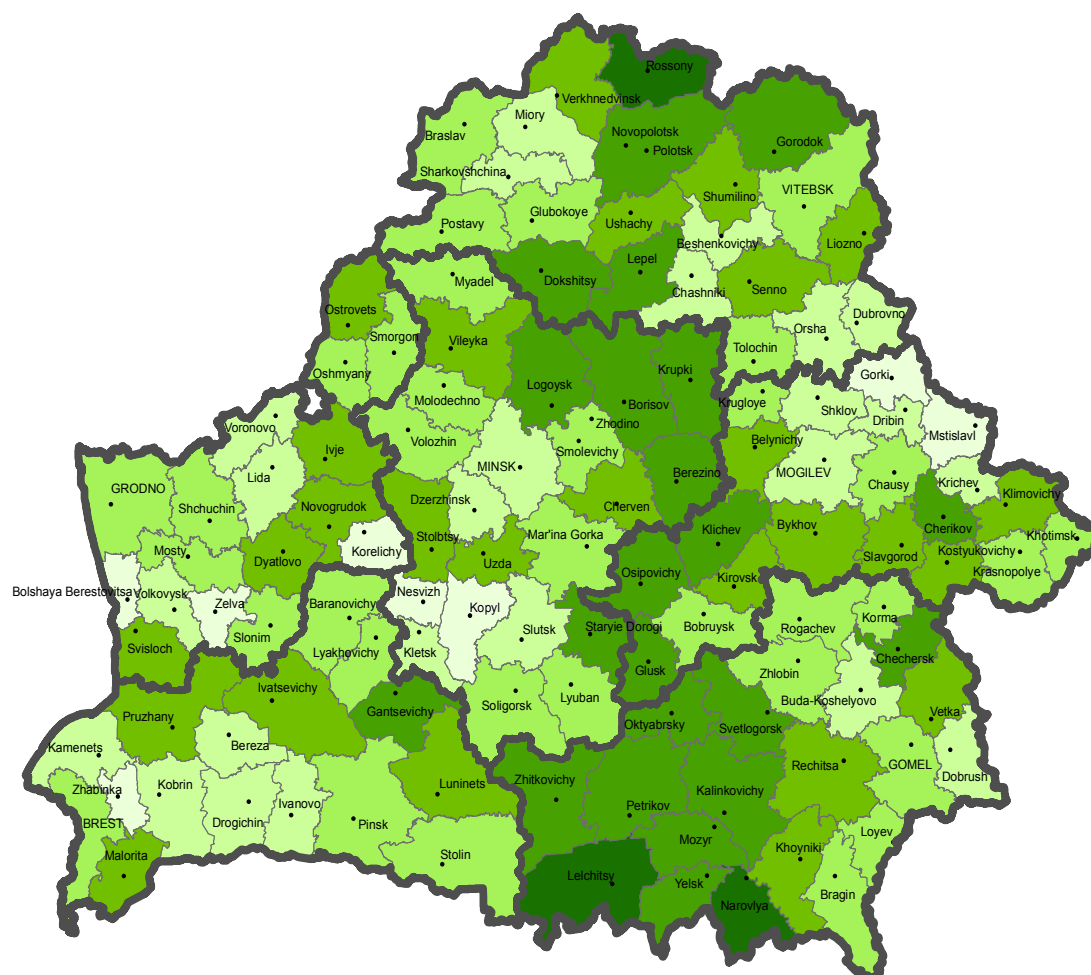
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	2011	2012	2013	2014	2015	2016	2017
Mogilev region	37.1	37.2	37.1	38.8	38.9	39.3	39.3
District:							
Belynychy	42.9	42.8	42.8	46.5	47.2	47.3	47.3
Bobruysk	36.9	37.3	37.3	37.3	37.3	37.7	37.7
Bykhov	42.3	42.3	42.3	45.7	46.0	46.0	46.0
Glusk	52.2	52.2	52.2	54.0	54.0	54.0	54.0
Gorki	17.7	17.7	17.7	17.4	17.4	17.4	17.4
Dribin	27.7	27.6	27.6	26.6	26.6	26.9	27.7
Kirovsk	41.1	41.1	41.1	41.5	41.5	41.4	41.4
Klimovichy	39.0	39.0	39.0	41.9	42.0	42.4	42.4
Klichev	56.5	56.6	56.5	59.0	59.4	59.9	60.0
Kostyukovichy	28.2	28.2	28.2	34.0	34.0	35.8	35.8
Krasnopolye	42.5	42.5	42.5	46.0	46.0	46.0	46.4
Krichev	23.6	23.4	23.6	23.5	24.1	27.0	27.0
Krugloye	30.3	30.3	30.3	30.6	30.1	31.4	31.4
Mogilev	27.8	27.8	25.7	25.7	24.2	24.1	24.1
Mstislavl	15.4	15.4	15.4	15.8	15.8	16.1	16.0
Osipovichy	56.7	56.7	56.7	58.1	57.9	57.9	57.9
Slavgorod	44.5	44.5	44.5	46.0	48.7	48.8	48.7
Khotimsk	31.8	31.8	31.8	34.1	34.0	34.5	34.5
Chausy	32.1	32.1	32.1	32.9	32.9	33.2	33.3
Cherikov	45.0	45.9	46.1	52.8	52.8	52.8	52.8
Shklov	20.2	20.2	20.1	20.1	20.1	20.2	20.2

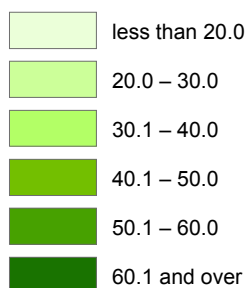
¹⁾ According to the data of the State Committee for Property of the Republic of Belarus.

10.3. Forest cover of the territory by districts as of January 1, 2017¹⁾

(percent)



Percent forest cover of the territory



¹⁾ According to the data of the State Committee for Property of the Republic of Belarus.

10.4. Main activities in forestry

	2010	2011	2012	2013	2014	2015	2016
Reforestation and afforestation, ha	32 983	30 555	31 172	30 284	32 374	33 094	37 179
Introduction of young growth into valuable tree plantation category, ha	43 700	51 655	52 284	58 369	59 237	54 040	44 575
Seed harvesting of wood and shrub species, t	231.0	67.5	184.9	174.5	86.1	162.1	27.6
Forest management, thsd ha	1 250	1 144	1 442	915	919	965	1 151
Forest felling area ¹⁾ , thsd ha	462.4	578.3	545.0	535.3	523.9	466.9	487.5
Marketable timber harvested ¹⁾ , thsd m ³	15 473	17 670	18 059	18 521	19 550	18 473	21 071
Forest pest and disease control, ha:							
biological	22 731	22 765	23 673	35 103	23 904	22 458	21 640
chemical	292	1 693	664	556	356	357	1 367
Forest fire control with the aid of aviation, thsd ha	9 367	9 364	9 375	9 410	9 420	9 461	9 526

¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

Continued

	2010	2011	2012	2013	2014	2015	2016
As % of previous year							
Reforestation and afforestation	80.9	92.6	102.0	97.2	106.9	102.2	112.3
Introduction of young growth into valuable tree plantation category	101.7	118.2	101.2	111.6	101.5	91.2	82.5
Seed harvesting of wood and bush species	240.9	29.2	273.9	94.4	49.3	188.3	17.0
Forest management	106.0	91.5	126.0	63.5	100.4	105.0	119.3
Forest felling area	114.8	125.1	94.2	98.2	97.9	89.1	104.4
Marketable timber harvested	117.1	114.2	102.2	102.6	105.6	94.5	114.1
Forest pest and disease control							
biological	100.4	100.1	104.0	148.3	68.1	94.0	96.4
chemical	41.5	579	39.2	83.7	64.0	100.3	383
As % of 2010							
Reforestation and afforestation	100	92.6	94.5	91.8	98.2	100.3	112.7
Introduction of young growth into valuable tree plantation category	100	118.2	119.6	133.6	135.6	123.7	102.0
Seed harvesting of wood and bush species	100	29.2	80.0	75.5	37.3	70.2	11.9
Forest management	100	91.5	115.4	73.2	73.5	77.2	92.1
Forest felling area	100	125.1	117.9	115.8	113.3	101.0	105.4
Marketable timber harvested	100	114.2	116.7	119.7	126.3	119.4	136.2
Forest pest and disease control							
biological	100	100.1	104.1	154.4	105.2	98.8	95.2
chemical	100	579	227.4	190.4	121.9	122.3	468

10.5. Reforestation and afforestation by region (hectares)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	32 983	30 555	31 172	30 284	32 374	33 094	37 179
Region:							
Brest	2 954	3 212	4 066	3 963	3 574	3 383	3 762
Vitebsk	6 259	6 210	6 029	5 825	6 144	6 048	6 122
Gomel	7 689	7 210	7 190	6 985	7 329	7 509	8 896
Grodno	3 603	3 936	3 917	3 775	4 214	3 810	3 476
Minsk	6 558	5 549	5 655	5 424	5 668	5 471	8 570
Mogilev	5 920	4 438	4 315	4 312	5 445	6 873	6 353
of which: forest planting and seeding							
Republic of Belarus	27 695	25 327	24 742	23 750	26 247	26 486	31 576
Region:							
Brest	2 652	2 604	3 077	2 836	2 740	2 721	3 120
Vitebsk	4 891	4 675	4 165	3 758	4 210	4 156	4 430
Gomel	6 546	6 440	5 980	5 892	6 358	6 392	7 717
Grodno	3 157	3 451	3 447	3 116	3 712	3 288	3 087
Minsk	5 372	4 637	4 681	4 771	4 732	4 368	7 806
Mogilev	5 077	3 520	3 392	3 377	4 495	5 561	5 416
assistance to natural forest regeneration and preservation of undergrowth							
Republic of Belarus	5 288	5 228	6 430	6 534	6 127	6 608	5 603
Region:							
Brest	302	608	989	1 127	834	662	642
Vitebsk	1 368	1 535	1 864	2 067	1 934	1 892	1 692
Gomel	1 143	770	1 210	1 093	971	1 117	1 179
Grodno	446	485	470	659	502	522	389
Minsk	1 186	912	974	653	936	1 103	764
Mogilev	843	918	923	935	950	1 312	937

10.6. Introduction of young growth into valuable tree plantation category by region

(hectares)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	43 700	51 655	52 284	58 369	59 237	54 040	44 575
Region:							
Brest	5 323	6 252	6 113	6 429	7 246	5 715	3 748
Vitebsk	6 960	8 752	9 341	10 509	10 461	10 860	9 749
Gomel	12 601	12 904	13 639	15 122	14 644	13 111	11 377
Grodno	4 365	4 443	5 050	6 745	5 353	4 561	2 913
Minsk	9 012	12 553	9 975	8 283	8 720	8 687	7 878
Mogilev	5 439	6 751	8 166	11 281	12 813	11 106	8 910

10.7. Forest management by region

(thousand hectares)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	1 250	1 144	1 442	915	919	965	1 151
Region:							
Brest	1	1	152	419	163	77	1
Vitebsk	110	129	52	52	523	454	530
Gomel	357	831	216	412	220	88	–
Grodno	–	–	6	2	–	113	128
Minsk	764	1	–	18	–	221	479
Mogilev	18	181	1 016	12	13	12	12

10.8. Seed harvesting of wood and shrub species by region

(tonnes)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	231.0	67.5	184.9	174.5	86.1	162.1	27.6
Region:							
Brest	17.0	19.5	29.9	9.4	8.1	11.2	3.3
Vitebsk	5.8	3.4	5.8	5.7	7.0	13.2	3.9
Gomel	141.8	22.4	90.2	80.4	27.6	87.0	3.4
Grodno	3.9	5.4	10.0	11.7	6.2	6.5	4.4
Minsk	21.6	13.7	27.4	25.0	14.3	19.1	8.5
Mogilev	40.9	3.1	21.6	42.3	22.9	25.1	4.1
of which: coniferous species							
Republic of Belarus	5.4	7.5	17.6	3.6	11.4	31.5	7.0
Region:							
Brest	0.5	1.0	2.4	0.9	1.5	1.5	0.6
Vitebsk	0.8	1.0	3.4	0.1	1.3	11.6	0.8
Gomel	1.8	2.2	2.1	1.1	2.7	2.9	1.9
Grodno	0.3	0.3	2.0	0.5	1.0	2.9	0.3
Minsk	1.3	1.5	4.0	0.6	2.5	7.3	1.5
Mogilev	0.7	1.4	3.7	0.4	2.3	5.3	2.0
of which: pine tree							
Republic of Belarus	5.2	7.0	5.1	3.3	10.9	7.2	6.2
Region:							
Brest	0.5	1.0	1.0	0.9	1.5	0.8	0.5
Vitebsk	0.8	0.7	0.3	0.1	1.3	0.4	0.4
Gomel	1.8	2.2	1.9	1.0	2.7	2.8	1.9
Grodno	0.2	0.3	0.2	0.4	1.0	0.4	0.3
Minsk	1.3	1.5	0.6	0.5	2.5	0.9	1.1
Mogilev	0.6	1.4	1.1	0.3	1.9	2.0	1.9

Continued

	2010	2011	2012	2013	2014	2015	2016
spruce							
Republic of Belarus	0.11	0.43	12.4	0.3	0.5	24.3	0.8
Region:							
Brest	0.02	0.0	1.3	–	–	0.6	0.1
Vitebsk	0.03	0.35	3.1	0.0	0.0	11.2	0.3
Gomel	0.01	0.02	0.2	0.0	0.0	0.1	0.0
Grodno	–	–	1.8	0.0	–	2.5	0.0
Minsk	0.02	0.03	3.4	0.1	0.0	6.5	0.4
Mogilev	0.03	0.03	2.6	0.1	0.5	3.3	0.0
deciduous and shrub species (including industrial)							
Republic of Belarus	225.6	60.0	167.4	170.9	74.7	130.6	20.6
Region:							
Brest	16.5	18.5	27.5	8.5	6.6	9.8	2.8
Vitebsk	5.0	2.4	2.4	5.6	5.7	1.6	3.1
Gomel	140.0	20.2	88.2	79.4	24.9	84.1	1.5
Grodno	3.6	5.1	8.0	11.2	5.2	3.6	4.1
Minsk	20.3	12.2	23.4	24.3	11.9	11.8	7.0
Mogilev	40.2	1.7	17.9	41.8	20.5	19.8	2.2
of which oak							
Republic of Belarus	218.0	49.6	159.9	163.1	66.0	122.1	12.7
Region:							
Brest	15.0	16.3	25.6	7.1	5.2	8.2	1.2
Vitebsk	4.8	1.4	1.9	5.1	4.7	0.7	2.4
Gomel	138.9	18.5	87.2	78.1	23.4	83.1	0.6
Grodno	3.0	4.3	7.2	10.3	3.7	2.4	2.8
Minsk	16.7	8.3	20.8	21.1	9.0	8.6	4.4
Mogilev	39.6	0.8	17.2	41.4	19.9	19.0	1.3

10.9. Forest felling area by region¹⁾

(thousand hectares)

	2010	2011	2012	2013	2014	2015	2016
All cutting types							
Republic of Belarus	462.4	578.3	545.0	535.3	523.9	466.9	487.5
Region:							
Brest	86.7	114.1	111.5	107.8	99.8	91.0	91.9
Vitebsk	62.4	68.2	66.9	63.6	65.2	58.9	60.0
Gomel	97.9	125.8	112.1	117.5	100.4	86.3	87.5
Grodno	36.2	56.5	56.3	56.0	57.9	48.6	44.5
Minsk	111.3	131.6	123.2	119.4	125.0	112.3	128.7
Mogilev	67.9	82.2	75.1	70.9	75.5	69.9	74.9
of which final cutting							
Republic of Belarus	25.4	28.9	28.1	30.5	37.5	31.3	25.1
Region:							
Brest	3.0	4.3	4.3	4.2	6.7	4.2	3.3
Vitebsk	5.5	5.7	5.4	6.1	7.4	6.3	4.9
Gomel	6.3	7.1	6.6	7.8	8.3	6.8	6.9
Grodno	2.3	2.6	2.7	2.4	2.5	2.3	1.7
Minsk	5.0	5.7	6.3	6.4	6.9	5.8	3.8
Mogilev	3.2	3.3	2.9	3.5	5.7	6.0	4.5

¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

10.10. Marketable timber harvest by region¹⁾

(thousand cubic metres)

	2010	2011	2012	2013	2014	2015	2016
All cutting types							
Republic of Belarus	15 473	17 670	18 059	18 521	19 550	18 473	21 071
Region:							
Brest	1 638	2 162	2 220	2 204	2 298	2 357	2 414
Vitebsk	2 675	3 089	3 210	3 336	3 406	3 339	2 987
Gomel	3 185	3 633	3 637	3 983	4 149	3 790	3 940
Grodno	1 679	2 003	1 965	1 989	2 184	1 976	1 953
Minsk	3 853	3 818	3 852	3 735	3 846	3 600	6 350
Mogilev	2 443	2 965	3 175	3 273	3 669	3 412	3 427
of which final cutting							
Republic of Belarus	5 863	6 523	6 522	7 143	7 786	7 480	6 062
Region:							
Brest	602	838	856	839	842	849	716
Vitebsk	1 269	1 357	1 238	1 415	1 489	1 495	1 130
Gomel	1 454	1 582	1 551	1 853	1 868	1 634	1 638
Grodno	593	627	653	637	666	603	492
Minsk	1 152	1 273	1 459	1 481	1 557	1 462	936
Mogilev	794	846	765	918	1 364	1 437	1 150

¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

10.11. Forest pest and disease control by region

(hectares)

	2010	2011	2012	2013	2014	2015	2016
Biological control							
Republic of Belarus	22 731	22 765	23 673	35 103	23 904	22 458	21 640
Region:							
Brest	3 164	3 258	3 567	13 962	2 876	3 024	2 670
Vitebsk	3 037	3 043	3 032	3 017	3 161	2 767	2 584
Gomel	6 804	6 790	7 565	8 416	7 329	7 400	6 807
Grodno	3 112	3 082	2 722	2 937	3 730	2 719	2 712
Minsk	4 195	4 229	4 317	4 354	4 315	4 133	4 414
Mogilev	2 419	2 365	2 469	2 417	2 492	2 416	2 453
Chemical control							
Republic of Belarus	292	1 693	664	556	356	357	1 367
Region:							
Brest	27	38	49	40	34	31	479
Vitebsk	57	82	108	59	87	78	86
Gomel	54	1 370	26	249	27	28	505
Grodno	26	35	38	33	32	39	58
Minsk	69	104	140	109	112	99	131
Mogilev	59	64	303	66	64	83	108

10.12. Pest-affected forest area

(end of year; hectares)

	2010	2011	2012	2013	2014	2015	2016
Total pest-affected area	168 605	247 857	209 495	193 881	191 905	176 753	178 938
of which with:							
needle-eating pests	100	74 244	553	575	335	691	975
leaf-eating pests	477	8 426	23 047	11 007	8 526	2 668	1 377
other pests	2 155	1 900	1 872	1 883	2 511	2 383	4 060
forest diseases	165 873	163 287	184 023	180 416	180 533	171 011	172 526

10.13. Area of forest loss by region

(hectares)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	13 502	10 569	9 848	8 222	8 594	13 660	27 206
Region:							
Brest	260	1 459	736	686	764	1 978	2 913
Vitebsk	2 425	895	1 819	1 775	1 319	1 250	1 341
Gomel	1 825	1 623	1 212	704	1 578	6 369	4 012
Grodno	1 714	1 516	800	875	1 215	1 039	1 350
Minsk	5 311	2 318	1 542	972	1 145	983	14 440
Mogilev	1 967	2 758	3 739	3 210	2 572	2 041	3 150

10.14. Area of forest loss by cause

(hectares)

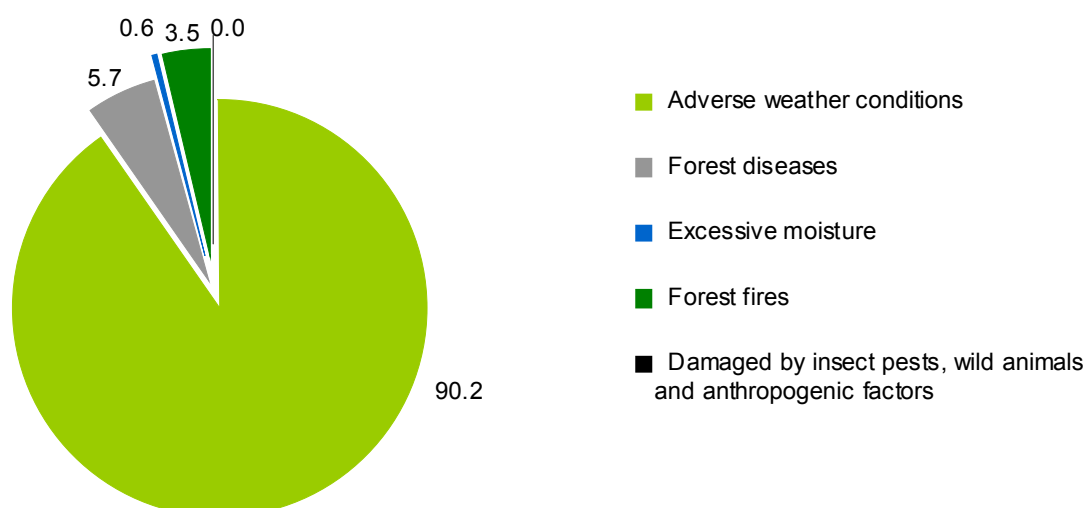
	2010	2011	2012	2013	2014	2015	2016
Total							
Total forest loss	13 502	10 569	9 848	8 222	8 594	13 660	27 206
of which by cause:							
damaged by insect pests	–	–	–	2	24	8	–
damaged by wild animals	323	–	2	–	2	–	5
forest diseases	526	708	760	541	697	985	1 554
anthropogenic factors	3	3	–	–	1	–	–
adverse weather conditions	11 562	9 345	8 274	7 145	7 455	6 446	24 540
excessive moisture	745	243	652	454	310	253	150
forest fires	343	269	160	79	105	5 968	957
of which: coniferous species							
Total forest loss	10 671	8 667	8 808	7 689	7 746	12 206	24 457
of which by cause:							
damaged by insect pests	–	–	–	2	24	8	–
damaged by wild animals	320	–	2	–	2	–	–
forest diseases	350	493	641	487	634	962	1 533
anthropogenic factors	3	3	–	–	1	–	–
adverse weather conditions	9 098	7 769	7 607	6 806	6 781	5 974	21 900
excessive moisture	566	162	405	315	199	201	103
forest fires	334	239	153	78	104	5 061	921

Continued

	2010	2011	2012	2013	2014	2015	2016
deciduous species							
Total forest loss	2 831	1 902	1 040	533	848	1 454	2 749
of which by cause:							
damaged by wild animals	3	—	—	—	—	—	5
forest diseases	176	215	119	54	63	23	21
adverse weather conditions	2 464	1 576	667	339	674	472	2 640
excessive moisture	179	81	247	139	111	52	47
forest fires	9	30	7	1	1	907	36

10.15. Structure of area of forest loss by cause in 2016

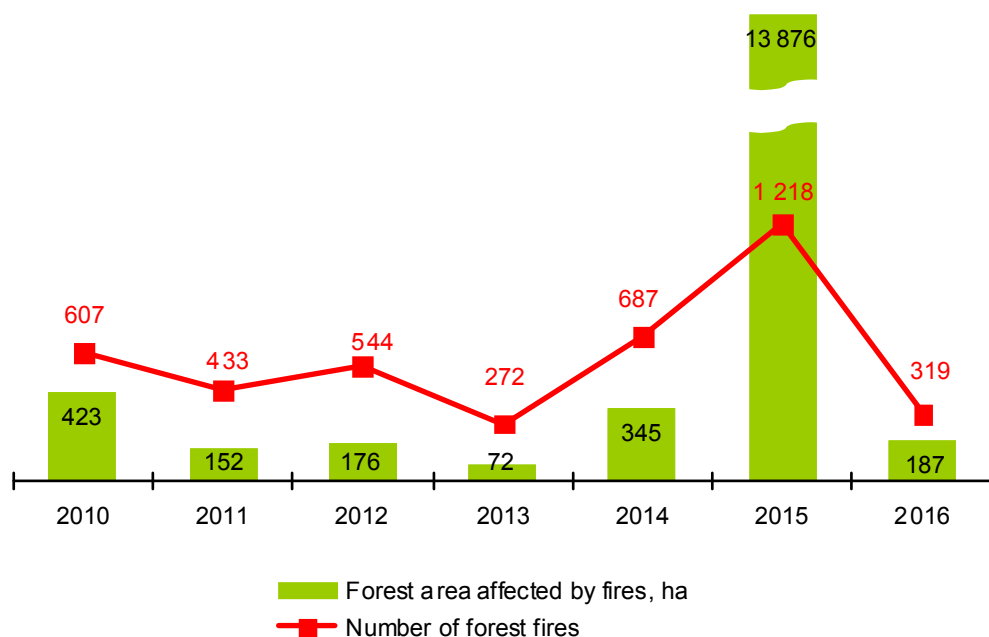
(percent)



10.16. Forest fires by region

	2010	2011	2012	2013	2014	2015	2016
Number of forest fires							
Republic of Belarus	607	433	544	272	687	1 218	319
Region:							
Brest	86	102	148	35	92	240	57
Vitebsk	50	35	26	32	30	60	29
Gomel	249	113	142	97	285	451	117
Grodno	46	65	61	36	47	63	22
Minsk	58	69	136	48	163	233	58
Mogilev	118	49	31	24	70	171	36
Forest area affected by fires, hectares							
Republic of Belarus	423	152	176	72	345	13 876	187
Region:							
Brest	56	27	53	6	30	1 360	52
Vitebsk	46	15	7	8	24	75	46
Gomel	132	41	54	21	157	11 990	51
Grodno	20	18	15	6	15	28	5
Minsk	20	22	29	9	75	75	11
Mogilev	149	30	18	22	45	349	23
Standing timber burnt and damaged, cubic metres							
Republic of Belarus	2 165	4 197	7 675	1 572	13 735	398 496	4 052
Region:							
Brest	1 826	1 023	2 092	75	2 411	81 409	3 327
Vitebsk	52	250	248	83	—	—	68
Gomel	275	1 132	4 653	1 341	6 774	296 686	—
Grodno	12	1 214	574	30	133	3 967	80
Minsk	—	578	80	43	3 500	1 239	338
Mogilev	—	—	28	—	917	15 196	240

10.17. Number of forest fires and forest area affected by fires



10.18. Forest fire control with the aid of aviation by region

(thousand hectares)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	9 367	9 364	9 375	9 410	9 420	9 461	9 526
Region:							
Brest	1 497	1 493	1 495	1 494	1 500	1 500	1 473
Vitebsk	1 868	1 871	1 854	1 873	1 873	1 883	1 903
Gomel	2 201	2 204	2 217	2 224	2 225	2 239	2 274
Grodno	912	903	910	922	924	924	927
Minsk	1 654	1 657	1 662	1 660	1 660	1 660	1 685
Mogilev	1 235	1 238	1 238	1 237	1 239	1 254	1 265

**10.19. Procurement of wild-growing foods
by region¹⁾**
(tonnes)

	2010	2011	2012	2013	2014	2015	2016
Fruits and berries							
Republic of Belarus	12 448	18 171	23 253	16 614	5 614	4 313	18 066
Region:							
Brest	3 200	3 916	5 301	2 078	1 159	852	5 069
Vitebsk	1 753	1 773	1 848	1 889	558	242	766
Gomel	1 441	2 308	3 032	1 806	712	330	2 329
Grodno	1 910	2 818	2 756	2 939	956	598	3 403
Minsk	3 340	6 046	8 566	7 090	2 037	1 888	5 687
Mogilev	804	1 310	1 749	813	192	404	811
of which cranberry							
Republic of Belarus	1 568	2 694	2 128	1 394	391	327	725
Region:							
Brest	552	794	669	515	113	47	113
Vitebsk	166	389	271	167	68	59	195
Gomel	97	395	535	289	67	28	70
Grodno	93	114	138	188	13	66	76
Minsk	432	805	378	115	58	71	225
Mogilev	228	198	137	121	72	57	46
Mushrooms, fresh, dried or salted (in fresh equivalent)							
Republic of Belarus	6 857	7 597	9 906	6 454	4 854	1 338	5 304
Region:							
Brest	529	585	447	324	549	36	217
Vitebsk	352	312	241	387	193	84	222
Gomel	1 292	1 310	1 486	1 456	1 057	193	807
Grodno	1 921	2 621	2 269	2 117	1 685	172	2 438
Minsk	2 153	2 170	4 759	1 787	1 051	648	1 328
Mogilev	610	598	704	383	318	207	292

¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus. Excluding procurements abroad.

11. GAME HUSBANDRY

Hunting area is the area serving as habitat for game animals and used for hunting purposes and game husbandry management.

Game husbandry expenditure comprises amounts of money spent on the reproduction and protection of wild animals; organisation of hunting of game animals; wages of employees engaged in game husbandry management; renting of service premises; maintenance costs of hunter's houses, hunting centres, service premises and production buildings (heating, lighting, current repairs), access roads, transport; rent for hunting area use; depreciation allowances for restoration of fixed assets; costs of hunting management, maintenance of hunting dogs, decoy and hunting birds, horses; repairs of hunting guns; purchase of low value implements; clerical and other expenditures on game husbandry activities irrespective of the source of financing.

Expenditure on biotechnical measures comprises amounts of money spent on the reproduction and protection of wild animals to enhance the productivity of hunting areas. These measures include purchase, procurement and laying out of fodder for complementary feeding of wild animals; establishing of feeding sites, feeding water, artificial nests, construction of biotechnical facilities (fodder storehouses, saline and pebble stone sites, feedboxes, etc.); implementation of measures to control diseases of wild animals; transport and other expenses related to biotechnical measures.

Earnings from game husbandry management are amounts of money from shooting and capture of wild animals, sales of hunt products (meat, hides, horns, fangs), provision of services to hunters (transport, accommodation, special clothing, etc.), operation of hunting centres and boat stations.

Wild animal population is the number of animals of wild hoofed, fur-bearing and bird species on hunting areas estimated on the basis of inventories carried out in the reporting year.

The section was prepared on the basis of data of the Ministry of Forestry of the Republic of Belarus, excluding biological (hunting) reserves and hunting-free zones.

11.1. Area of hunting grounds by region

(end of year; million hectares)

	2010	2011	2012	2013	2014	2015	2016
Total							
Republic of Belarus	16.7	16.7	16.8	16.7	16.6	16.7	16.5
Region:							
Brest	2.7	2.7	2.7	2.7	2.7	2.5	2.6
Vitebsk	3.5	3.5	3.4	3.5	3.5	3.5	3.4
Gomel	3.0	3.0	3.1	3.0	3.0	3.1	3.0
Grodno	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Minsk	3.2	3.2	3.2	3.2	3.2	3.3	3.2
Mogilev	2.4	2.4	2.5	2.5	2.4	2.4	2.4
of which under game husbandry management							
Republic of Belarus	10.3	9.9	12.9	14.8	15.1	16.1	15.6
Region:							
Brest	1.6	2.2	2.3	2.7	2.7	2.5	2.2
Vitebsk	2.9	1.5	2.6	3.0	3.5	3.5	3.4
Gomel	0.6	0.9	1.7	1.7	1.6	2.8	2.7
Grodno	0.9	0.9	1.2	1.9	1.8	1.8	1.7
Minsk	2.3	2.3	2.8	3.2	3.1	3.1	3.2
Mogilev	2.0	2.0	2.3	2.5	2.4	2.4	2.4

11.2. Expenditures on biotechnical activities designed for wildlife reproduction and protection by region

(BYR million; at current prices)

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
Republic of Belarus	7 624	9 894	28 859	30 445	33 776	43 958	3 529
Region:							
Brest	3 345	2 780	4 022	8 107	9 234	14 316	1 015
Vitebsk	840	1 198	12 721	9 610	13 048	13 768	1 060
Gomel	2 416	4 110	8 893	7 542	7 055	10 133	513
Grodno	307	451	948	1 771	1 041	1 600	308
Minsk	504	1 013	1 645	2 458	2 393	3 541	488
Mogilev	212	342	630	957	1 006	601	144

¹⁾ BYN thousand (in terms of the new denomination; 1 BYN = 10 000 BYR).

11.3. Game husbandry earnings and expenditures

(BYR million; at current prices)

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
Earnings from game husbandry maintenance	32 395	67 827	122 466	168 677	173 536	198 971	22 102
Expenditures on game husbandry maintenance	31 005	51 195	112 880	160 265	185 424	207 830	20 891
of which on biotechnical activities designed for wildlife reproduction and protection	7 624	9 894	28 859	30 445	33 776	43 958	3 529
of which:							
distribution (settlement) of game animals	21	49	9 233	4 830	7 194	9 802	571
purchase of supplementary feeds for wild animals	5 985	8 808	14 331	21 036	22 823	25 523	1 551

¹⁾ BYN thousand (in terms of the new denomination; 1 BYN = 10 000 BYR).

11.4. Populations of major game species

(thousand animal units)

	2010	2011	2012	2013	2014	2015	2016
Elk	22.8	24.3	26.9	27.9	30.1	32.0	33.7
Red deer	9.4	10.0	11.3	12.2	13.6	15.2	16.7
Boar	69.7	74.0	77.8	80.4	8.6	8.0	2.6
Roe deer	69.1	69.5	73.3	74.0	71.5	74.7	82.1
Squirrel	118.3	113.7	126.7	111.1	102.4	118.4	110.3
Hare	161.3	169.4	161.3	154.1	152.8	159.1	157.7
Fox	40.3	42.7	37.0	33.8	29.7	27.5	25.5
Muskrat	36.9	32.3	35.1	27.6	24.4	29.9	27.4
American mink	21.4	21.6	23.7	22.3	22.5	23.0	23.3
Beaver	63.3	60.5	64.4	62.0	63.4	58.3	51.3
Wood grouse	8.9	9.3	8.9	9.1	8.2	8.4	9.0
Black grouse	37.4	37.9	36.1	34.6	39.9	37.3	38.5

11.5. Hunting of major game species

(thousand animal units)

	2010	2011	2012	2013	2014	2015	2016
Elk	1.6	1.9	2.4	2.5	3.3	3.8	4.2
Red deer	0.7	0.7	0.8	0.9	1.1	1.2	1.5
Boar	25.9	28.4	29.7	48.1	30.6	17.2	10.7
Roe deer	5.9	6.1	6.6	6.2	6.6	7.9	9.3
Squirrel	2.3	2.6	4.1	3.5	2.5	2.5	2.2
Hare	47.5	42.0	44.1	40.5	40.1	43.4	49.4
Fox	22.6	18.2	16.9	16.4	15.2	15.4	13.3
Muskrat	3.0	2.8	2.2	2.2	1.8	1.3	0.8
American mink	2.5	2.4	3.0	3.7	4.0	3.3	2.4
Beaver	2.3	14.3	6.0	6.3	6.0	8.9	7.9
Wood grouse	0.2	0.1	0.1	0.1	0.1	0.1	0.4
Black grouse	0.3	0.2	0.2	0.2	0.2	0.2	0.4

11.6. Population of mammals included in the Red Book of the Republic of Belarus in their habitats taken under protection by users of hunting reserves

(animal units)

	2014	2015	2016
European bison (main gene pool)	1 092
Badger	1 416	728	695
Bear	119	20	76
European mink	351	225	260
Lynx	771	421	532

12. TRANSPORT

Passenger turnover is the volume of passenger transportation. The unit of measure is passenger-kilometre, or conveying of one passenger over a distance of 1 kilometre. It is measured as a sum of number of passengers for each transportation multiplied by the distance in kilometers separately for each mode of transport and type.

Freight turnover is the volume of freight transportation. The unit of measure is tonne-kilometre, or carrying of 1 tonne of freight over a distance of 1 kilometre. It is measured as a sum of weights of each freight consignment in tonnes multiplied by the distance in kilometres.

12.1. Fleet of transport vehicles

(at year-end; units)

	2010	2011	2012	2013	2014	2015	2016
Corporate transport vehicles							
motor road transport vehicles ¹⁾	411 213	412 945	421 700	426 579	436 588	434 430	424 731
of which:							
freight	277 204	275 328	279 841	285 388	285 556	282 437	275 976
passenger cars	100 215	104 048	107 775	107 318	115 403	117 013	116 100
buses	33 794	33 569	34 084	33 873	35 629	34 980	32 655
trolleybuses	1 772	1 775	1 741	1 752	1 749	1 699	1 610
tramway cars	280	276	273	283	284	322	313
metro cars	302	302	337	336	361	361	361
Privately owned vehicles ¹⁾							
freight motor road vehicles	119 402	121 133	123 274	128 805	135 632	135 569	138 388
buses	10 863	9 509	10 799	10 876	11 400	11 782	10 947
passenger cars, thsd units	2 501.2	2 646.5	2 640.8	2 670.6	2 827.2	2 920.2	2 951.4
Inland water transport							
general use vessels (including tugboats and pushboats)	257	245	242	237	245	231	232
auxiliary vessels	218	211	224	220	210	221	209
general use passenger vessels	11	12	12	14	12	14	12

¹⁾ Data of the Ministry of Internal Affairs of the Republic of Belarus.

**12.2. Privately owned transport vehicles
by regions and Minsk city¹⁾**
(at year-end; units)

	2010	2011	2012	2013	2014	2015	2016
Freight motor road vehicles							
Republic of Belarus	119 402	121 133	123 274	128 805	135 632	135 569	138 388
Regions and Minsk city:							
Brest	18 798	19 155	19 203	19 683	20 273	20 632	20 951
Vitebsk	18 233	18 644	18 398	18 044	17 705	16 454	16 624
Gomel	16 448	17 326	17 285	18 081	18 472	18 932	19 165
Grodno	12 997	13 250	13 452	13 765	14 078	14 463	14 568
Minsk city	18 683	17 718	20 405	21 073	22 122	21 042	22 415
Minsk	18 895	19 437	19 890	18 038	22 253	22 960	23 383
Mogilev	15 348	15 603	14 641	20 121	20 729	21 086	21 282
Buses							
Republic of Belarus	10 863	9 509	10 799	10 876	11 400	11 782	10 947
Regions and Minsk city:							
Brest	1 304	1 282	1 235	1 257	1 305	1 340	1 374
Vitebsk	2 043	1 894	1 785	1 770	1 854	1 772	1 778
Gomel	1 612	1 690	1 577	1 660	1 696	1 765	1 784
Grodno	1 099	1 096	1 070	1 105	1 162	1 157	1 157
Minsk city	2 039	2 019	1 954	1 898	2 171	2 414	2 210
Minsk	1 077	1 091	1 313	1 398	1 298	1 364	1 385
Mogilev	1 689	437	1 865	1 788	1 914	1 970	1 259
Passenger cars, thousand units							
Republic of Belarus	2 501.2	2 646.5	2 640.8	2 670.6	2 827.2	2 920.2	2 951.4
Regions and Minsk city:							
Brest	375.7	402.0	400.9	406.7	428.6	438.9	444.7
Vitebsk	298.4	313.6	316.0	304.5	343.2	353.4	356.3
Gomel	310.2	330.7	332.9	342.2	360.8	374.9	379.5
Grodno	314.6	336.2	334.1	338.6	352.7	364.6	368.6
Minsk city	561.0	598.5	587.2	595.3	619.4	634.5	636.3
Minsk	384.2	404.7	408.9	415.0	438.7	459.0	467.0
Mogilev	257.1	260.8	260.8	268.3	283.7	294.9	299.0

¹⁾ Data of the Ministry of Internal Affairs of the Republic of Belarus.

12.3. Passenger turnover by mode of transport

	2010	2011	2012	2013	2014	2015	2016
Million passenger-kilometres							
All modes of transport	23 498	23 671	25 295	26 618	25 092	24 051	24 018
of which:							
railway	7 578	7 941	8 977	8 998	7 796	7 117	6 428
bus	10 194	9 923	10 016	10 546	9 946	9 490	10 055
city electric and metro transport	4 025	4 032	4 130	4 373	4 088	4 093	4 107
inland water	3	4	4	3	3	2	2
air	1 571	1 643	2 036	2 490	3 070	3 164	3 247
taxicab	127	128	133	208	189	185	180
as % of total passenger turnover							
All modes of transport	100	100	100	100	100	100	100
of which:							
railway	32.3	33.6	35.5	33.8	31.1	29.6	26.8
bus	43.4	41.9	39.6	39.6	39.6	39.5	41.9
city electric and metro transport	17.1	17.1	16.4	16.4	16.3	17.0	17.1
inland water	0.01	0.02	0.01	0.01	0.01	0.01	0.01
air	6.7	6.9	8.0	9.4	12.2	13.1	13.5
taxicab	0.5	0.5	0.5	0.8	0.8	0.8	0.7

12.4. Freight turnover by mode of transport

	2010	2011	2012	2013	2014	2015	2016
Million tonne-kilometres							
All modes of transport	128 144	134 269	131 684	130 752	131 402	125 957	125 820
of which:							
pipeline	65 743	65 258	61 134	61 220	59 704	60 552	59 345
railway	46 224	49 406	48 351	43 818	44 997	40 785	41 107
motor road	16 023	19 436	22 031	25 603	26 587	24 523	25 239
inland water	110	143	134	84	49	21	21
air	44	27	34	27	65	77	108
as % of total freight turnover							
All modes of transport	100	100	100	100	100	100	100
of which:							
pipeline	51.3	48.6	46.4	46.8	45.4	48.1	47.2
railway	36.1	36.8	36.7	33.5	34.3	32.4	32.7
motor road	12.5	14.5	16.8	19.6	20.2	19.4	20.0
inland water	0.1	0.1	0.1	0.1	0.04	0.02	0.02
air	0.03	0.02	0.03	0.02	0.05	0.06	0.1

13. WASTE

Waste refers to substances or objects generated in the process of economic and vital activities of humans and having no definite function at the place of generation or having fully or partially lost their consumption properties.

Industrial waste is waste generated in the process of economic activity of businesses and individual entrepreneurs (manufacture of goods, electricity generation, performing of work, provision of services), by- and associated products of extraction and processing of minerals.

Waste utilization is the use of waste for manufacturing products, electricity generation, performing works and provision of services.

Waste disposal comprises activities of temporary waste storage and transportation of waste to storage, burial, detoxification and / or utilization facilities.

Utilized and disposed industrial waste is reflected taking into account partial utilization or disposal of previously accumulated waste.

Hazardous waste is waste containing substances with a hazardous property or properties, in such amounts and state, that this waste itself or when entering in contact with other substances, may pose a direct or potential danger to the environment, human health, or property due to its detrimental effect.

Hazardous waste is classified by hazard category: category 1 (extremely hazardous), category 2 (high-hazard), category 3 (hazardous), category 4 (low-hazard).

Municipal waste is consumption waste and industrial waste included in the *List of waste referred to municipal waste the disposal of which is organized by local executive and administrative bodies*. The List is approved by the Ministry of Housing and Utilities of the Republic of Belarus.

According to the List of municipal waste, such waste includes waste from human vital activities, sweepings; waste from research, education, sporting, cultural and religious activities; waste from trade, social service and transport activities; waste from administrative managerial and economic activities; waste of health care facilities.

The section was prepared on the basis of data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus as relates to industrial waste, and the Ministry of Housing and Utilities of the Republic of Belarus as relates to municipal waste.

13.1. Generation, utilization and disposal of industrial waste in organisations by regions and Minsk city

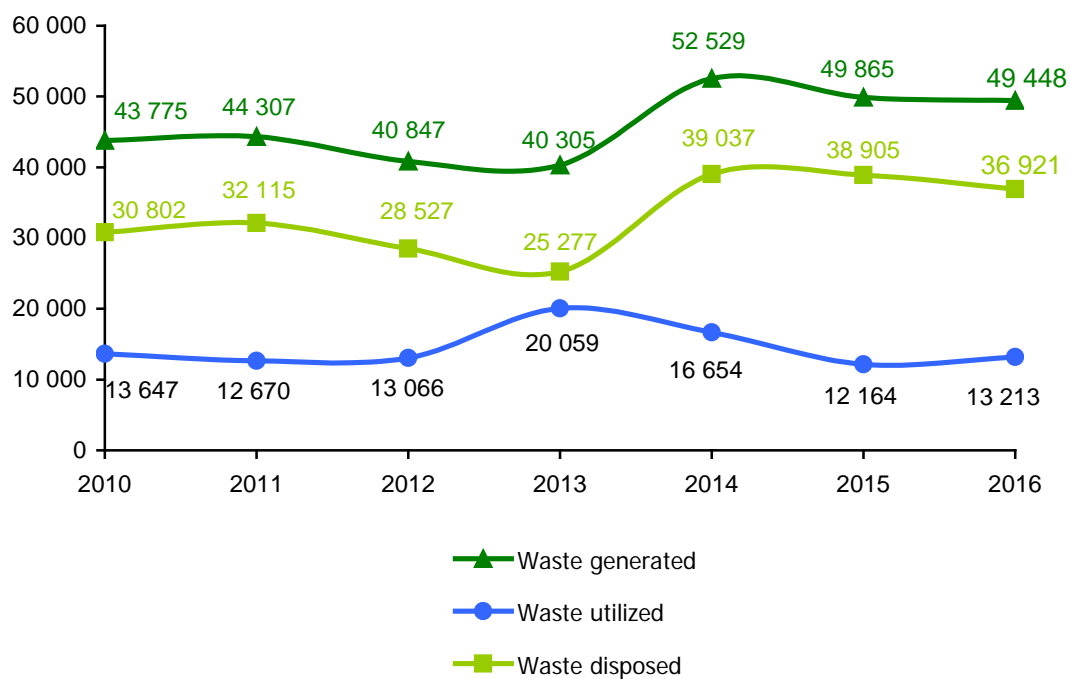
	2010	2011	2012	2013	2014	2015	2016
Waste generated, thousand tonnes							
Republic of Belarus	43 775	44 307	40 847	40 305	52 529	49 865	49 448
Regions and Minsk city:							
Brest	1 617	1 040	1 053	1 412	1 449	1 244	1 579
Vitebsk	718	885	862	843	836	552	510
Gomel	2 600	2 973	3 120	2 993	3 702	3 097	2 867
Grodno	1 954	1 704	1 781	2 196	1 864	1 786	2 072
Minsk city	1 574	1 858	1 617	2 397	2 072	1 980	2 858
Minsk	31 710	32 765	29 665	27 355	38 210	36 601	36 565
Mogilev	3 603	3 082	2 749	3 109	4 396	4 605	2 996
Waste utilized, thousand tonnes							
Republic of Belarus	13 647	12 670	13 066	20 059	16 654	12 164	13 213
Regions and Minsk city:							
Brest	1 435	934	902	1 221	1 244	1 039	1 450
Vitebsk	452	548	518	553	631	388	397
Gomel	1 225	1 633	2 244	7 020	5 032	2 632	1 730
Grodno	1 691	1 371	1 396	1 404	1 131	1 008	1 425
Minsk city	539	848	671	1 162	996	1 177	2 068
Minsk	4 579	4 388	4 652	5 871	5 772	3 362	4 016
Mogilev	3 726	2 948	2 683	2 828	1 848	2 557	2 128
As percentage of waste generated							
Republic of Belarus	31.2	28.6	32.0	49.8	31.7	24.4	26.7
Regions and Minsk city:							
Brest	88.7	89.8	85.7	86.5	85.9	83.5	91.8
Vitebsk	62.9	61.9	60.1	65.6	75.5	70.3	77.9
Gomel	47.1	54.9	71.9	234.5	135.9	85.0	60.3
Grodno	86.5	80.5	78.4	63.9	60.7	56.4	68.8
Minsk city	34.3	45.6	41.5	48.5	48.1	59.4	72.3
Minsk	14.4	13.4	15.7	21.5	15.1	9.2	11.0
Mogilev	103.4	95.7	97.6	91.0	42.0	55.5	71.0

Continued

	2010	2011	2012	2013	2014	2015	2016
Waste disposed, thousand tonnes							
Republic of Belarus	30 802	32 115	28 527	25 277	39 037	38 905	36 921
Regions and Minsk city:							
Brest	258	164	165	209	248	241	223
Vitebsk	283	352	348	301	224	173	148
Gomel	1 428	1 405	1 305	648	1 431	1 306	1 322
Grodno	396	435	475	856	824	827	694
Minsk city	1 046	1 030	949	1 240	1 091	820	887
Minsk	27 197	28 399	25 049	21 526	32 522	33 274	32 667
Mogilev	194	330	236	497	2 698	2 264	979

13.2. Dynamics of generation, utilization and disposal of industrial waste

(thousand tonnes)



13.3. Generation of industrial waste in organisations per inhabitant by regions and Minsk city

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	4 612	4 677	4 316	4 258	5 544	5 255	5 204
Regions and Minsk city:							
Brest	1 158	747	757	1 016	1 043	896	1 139
Vitebsk	586	727	712	700	696	461	428
Gomel	1 809	2 076	2 184	2 098	2 598	2 176	2 017
Grodno	1 828	1 602	1 680	2 078	1 769	1 699	1 976
Minsk city	849	991	854	1 254	1 074	1 016	1 453
Minsk	22 399	23 279	21 149	19 508	27 190	25 910	25 748
Mogilev	3 296	2 843	2 549	2 893	4 102	4 307	2 811

13.4. Utilization of industrial waste in organisations per inhabitant by regions and Minsk city

(kilogrammes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	1 438	1 338	1 381	2 119	1 758	1 282	1 391
Regions and Minsk city:							
Brest	1 027	670	648	879	896	749	1 046
Vitebsk	369	450	428	459	526	325	334
Gomel	852	1 140	1 571	4 921	3 532	1 849	1 217
Grodno	1 582	1 289	1 317	1 329	1 073	959	1 359
Minsk city	291	452	354	608	516	604	1 051
Minsk	3 234	3 118	3 317	4 187	4 107	2 380	2 828
Mogilev	3 410	2 719	2 488	2 632	1 724	2 392	1 996

13.5. Generation of industrial waste in organisations by regions, cities and districts

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	43 775.4	44 307.5	40 847.1	40 305.0	52 529.3	49 865.3	49 448.2
Brest region	1 616.8	1 040.3	1 053.0	1 411.9	1 449.1	1 244.0	1 579.4
Brest city of	193.0	314.0	265.0	764.9	762.7	497.5	889.9
District:							
Baranovichy	51.8	48.0	47.4	52.1	72.3	77.4	109.7
Bereza	114.0	98.5	91.3	96.8	87.4	84.2	108.9
Brest	2.6	3.2	2.2	4.1	1.7	54.6	7.2
Gantsevichy	7.3	9.2	7.2	38.2	35.0	77.0	13.5
Drogichin	100.0	12.1	11.9	13.2	14.4	17.1	16.3
Zhabinka	778.8	99.1	126.6	77.2	79.0	93.2	96.7
Ivanovo	83.0	97.7	72.6	69.1	90.1	25.9	20.5
Ivatsevichy	42.8	145.6	160.3	51.4	84.0	45.5	61.1
Kamenets	14.4	16.1	29.4	2.4	10.0	5.1	3.3
Kobrin	12.1	7.6	0.7	15.0	13.6	11.7	11.7
Luninets	37.8	33.4	33.4	45.3	43.9	14.4	12.8
Lyakhovichy	31.6	7.4	7.3	32.2	5.5	7.6	8.5
Malorita	9.3	4.4	4.3	4.5	7.2	6.5	7.7
Pinsk	116.2	120.9	171.3	129.0	91.7	209.4	198.4
Pruzhany	10.3	15.4	15.2	10.7	14.4	14.4	11.2
Stolin	11.8	6.8	8.1	6.1	38.6	2.3	2.2

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	717.7	885.4	862.3	843.0	835.8	551.6	509.9
Vitebsk city of	181.0	240.9	218.1	235.8	201.5	115.4	101.5
District:							
Beshenkovichy	1.2	1.2	1.2	1.2	0.9	0.5	0.4
Braslav	9.5	9.4	9.4	9.4	12.2	8.0	12.5
Verkhnedvinsk	7.8	7.9	7.4	7.4	13.8	14.2	11.1
Vitebsk	7.9	6.0	10.7	5.3	0.2	8.7	6.8
Glubokoye	9.9	11.8	11.8	16.6	13.6	11.9	11.7
Gorodok	2.5	2.4	2.4	2.4	4.1	1.8	7.2
Dokshitsy	3.2	3.2	3.2	3.2	1.6	1.6	1.8
Dubrovno	2.1	2.1	2.0	2.0	1.3	2.2	2.8
Lepel	12.5	12.4	6.8	6.7	9.6	16.0	12.1
Liozno	4.5	4.4	5.3	5.3	2.8	4.3	18.6
Miory	35.0	34.6	34.9	35.2	79.6	67.1	46.6
Orsha	106.0	106.7	104.9	104.5	93.8	70.5	63.2
Polotsk	9.3	9.3	7.3	7.3	4.9	4.2	4.4
Postavy	121.9	120.9	137.2	137.2	218.3	43.2	34.3
Rossony	7.9	9.3	4.6	4.6	3.8	3.6	3.8
Senno	88.4	172.8	162.2	162.2	80.3	58.0	71.5
Tolochin	10.8	17.0	16.7	16.7	10.9	51.6	28.4
Ushachy	3.5	4.0	4.8	5.7	5.2	6.2	6.5
Chashniki	87.3	103.3	108.9	68.9	70.8	58.8	57.8
Sharkovshchina	1.7	2.0	1.3	1.5	2.5	1.7	4.3
Shumilino	3.8	3.5	3.8	3.7	4.2	2.4	2.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	2 600.4	2 973.0	3 120.0	2 993.5	3 702.1	3 097.4	2 867.1
Gomel city of	1 027.0	977.1	1 128.4	1 011.8	983.1	1 016.2	1 047.7
District:							
Bragin	0.0	1.2	0.1	1.5	0.0	0.2	0.1
Buda-Koshelyovo	14.1	14.0	12.3	15.6	11.0	9.1	12.5
Vetka	3.7	4.4	8.7	8.1	3.0	4.7	4.4
Gomel	64.7	51.5	41.7	89.9	80.5	12.5	47.2
Dobrush	99.4	177.7	135.2	95.9	81.1	53.0	34.7
Yelsk	7.7	8.9	8.6	0.6	2.6	4.5	3.8
Zhitkovichy	29.7	25.1	23.8	22.2	12.3	29.4	25.8
Zhlobin	833.2	1 058.7	1 157.6	968.3	1 907.6	1 385.1	1 221.5
Kalinkovichy	16.0	23.4	12.9	18.6	14.7	21.6	23.2
Korma	4.2	2.4	5.6	2.9	1.4	4.0	6.0
Lelchitsy	8.9	4.3	3.9	9.4	3.6	10.6	7.3
Loyev	2.5	2.9	1.7	1.5	1.8	1.5	2.1
Mozyr	77.9	78.7	177.3	236.5	124.4	87.7	121.9
Narovlya	5.2	1.1	2.1	4.1	3.1	2.5	3.0
Oktyabrsky	7.6	5.8	6.4	5.6	5.7	12.1	5.0
Petrikov	65.0	92.1	79.9	68.2	69.3	37.8	82.1
Rechitsa	179.0	196.5	84.7	247.5	222.3	260.1	107.9
Rogachev	23.4	52.1	45.9	7.3	7.8	14.4	15.3
Svetlogorsk	81.4	185.4	170.1	151.8	140.5	108.4	67.5
Khoyniki	46.9	7.2	12.3	18.1	11.5	12.8	17.8
Chechersk	2.9	2.7	4.9	8.1	14.8	9.3	10.5

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	1 954.1	1 703.7	1 780.9	2 196.1	1 863.7	1 785.8	2 072.4
Grodno city of	747.1	564.2	627.0	751.5	823.5	821.3	1 040.3
District:							
Berestovitsa	3.6	3.5	5.0	2.4	3.2	2.8	17.0
Volkovysk	446.8	327.2	335.1	274.2	330.8	275.8	224.6
Voronovo	2.7	1.6	2.7	7.0	3.3	3.3	5.0
Grodno	444.3	457.8	465.4	585.2	172.0	100.4	100.4
Dyatlovo	10.0	9.2	7.7	4.2	4.2	6.8	3.3
Zelva	3.8	4.4	7.9	2.8	3.0	1.7	2.2
Ivye	24.4	16.6	11.5	21.5	7.5	2.6	5.6
Korelichy	4.8	5.2	4.9	5.0	5.2	6.9	6.5
Lida	93.1	99.3	136.9	97.0	81.5	72.3	84.5
Mosty	7.6	6.2	10.6	3.8	5.5	6.2	5.0
Novogrudok	5.9	5.2	6.4	8.9	8.0	13.2	4.5
Ostrovets	10.4	8.1	11.0	10.0	9.7	6.6	12.6
Oshmyany	10.7	26.9	10.5	8.7	26.0	21.4	39.6
Svisloch	3.9	5.3	3.9	8.0	7.4	4.6	5.3
Slonim	101.9	109.8	100.3	202.7	200.3	184.5	198.7
Smorgon	18.5	26.5	4.1	182.2	152.1	247.3	310.2
Shchuchin	14.6	26.6	30.0	21.3	20.8	8.2	7.5

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	1 574.1	1 858.1	1 616.6	2 397.0	2 072.3	1 980.4	2 857.9
Minsk region	31 709.7	32 764.9	29 665.1	27 355.0	38 210.1	36 600.9	36 565.3
District:							
Berezino	23.3	103.0	117.5	52.9	33.5	42.6	31.9
Borisov	121.5	121.1	114.6	201.4	230.6	212.8	174.3
Vileyka	51.0	37.7	70.7	67.9	39.7	42.9	28.7
Volozhin	14.1	20.0	19.4	5.7	8.8	8.2	6.3
Dzerzhinsk	19.9	3.9	12.5	16.8	14.4	11.4	12.5
Kletsk	10.7	11.3	14.1	15.4	19.7	13.9	16.5
Kopyl	64.8	64.6	60.2	40.9	48.1	15.8	12.0
Krupki	19.4	25.8	25.0	44.3	54.1	55.0	60.8
Logoyisk	507.3	782.8	1 222.9	1 615.8	1 334.2	420.0	1 046.2
Lyuban	151.9	48.3	39.2	31.5	73.1	41.2	73.1
Minsk	513.3	393.2	341.7	791.3	707.9	171.1	126.1
Molodechno	158.7	281.6	240.3	194.3	221.5	167.3	171.0
Myadel	28.1	27.3	13.4	29.2	1 164.2	5.3	34.0
Nesvizh	725.0	769.8	773.1	821.8	649.9	865.8	649.0
Pukhovichy	426.5	523.9	501.3	533.6	254.5	381.7	334.7
Slutsk	719.0	418.6	249.0	430.4	190.5	196.7	186.9
Smolevichy	36.7	35.4	47.0	43.1	50.4	50.8	63.5
Soligorsk	27 884.5	29 038.6	25 613.3	22 260.1	32 970.9	33 804.7	33 439.4
Staryie Dorogi	34.9	10.4	36.3	15.5	19.0	14.1	16.8
Stolbtsy	143.5	3.7	106.5	112.2	89.3	51.5	56.4
Uzda	45.9	29.1	31.1	17.0	21.8	15.7	14.9
Cherven	9.7	14.7	16.8	13.9	13.7	12.3	10.4

Continued

	2010	2011	2012	2013	2014	2015	2016
Mogilev region	3 602.6	3 082.3	2 749.3	3 108.5	4 396.5	4 605.3	2 996.2
Mogilev city of	139.4	240.6	153.3	316.7	327.2	398.8	400.5
District:							
Belynychy	4.1	5.6	6.7	9.7	10.0	8.1	7.3
Bobruysk	260.8	227.8	291.3	551.6	416.8	401.9	455.5
Bykhov	6.3	13.6	8.1	5.5	8.5	12.7	8.4
Glusk	12.5	16.4	11.2	11.7	21.1	18.8	19.9
Gorki	16.4	22.4	19.4	15.4	29.5	1.3	12.9
Dribin	1.5	1.4	1.2	1.4	0.6	1.0	0.9
Kirovsk	14.1	4.3	3.5	5.9	6.0	6.3	6.7
Klimovichy	11.5	8.2	34.2	33.8	15.2	9.0	6.8
Klichev	5.5	6.1	4.2	7.4	5.0	1.8	2.8
Kostyukovichy	2 976.5	2 334.6	2 045.3	1 968.7	3 371.7	3 612.3	1 913.5
Krasnopolye	1.3	7.1	9.7	0.1	0.0	0.0	0.2
Krichev	3.3	3.1	2.7	3.0	2.1	2.9	2.1
Krugloye	15.0	14.2	7.8	4.7	9.9	10.3	14.3
Mogilev	4.6	28.7	1.8	8.6	0.8	1.9	33.1
Mstislavl	1.0	1.1	3.1	3.5	4.9	2.9	3.4
Osipovichy	50.9	60.0	56.8	59.3	57.7	53.2	54.1
Slavgorod	1.5	1.7	1.7	1.9	1.7	1.3	0.5
Khotimsk	6.7	3.0	3.0	9.2	42.6	2.5	0.3
Chausy	2.5	1.7	5.5	5.3	1.2	7.1	6.6
Cherikov	4.9	10.0	11.1	12.7	3.9	3.3	1.7
Shklov	62.3	70.8	69.0	72.5	60.0	48.2	44.6

13.6. Utilization of industrial waste in organisations by regions, cities and districts

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	13 646.8	12 670.2	13 066.4	20 058.7	16 653.9	12 163.8	13 213.0
Brest region	1 434.5	933.9	901.9	1 221.3	1 244.2	1 039.0	1 449.8
Brest city of	131.4	295.3	228.0	692.5	705.0	466.0	909.7
District:							
Baranovichy	17.2	25.8	27.5	27.0	50.7	69.7	77.3
Bereza	111.0	89.4	54.1	57.8	40.6	27.5	53.2
Brest	1.9	1.4	1.6	3.6	1.6	27.7	6.1
Gantsevichy	6.5	7.8	5.9	37.4	34.7	75.9	12.9
Drogichin	6.0	9.5	10.2	11.2	12.2	14.9	15.2
Zhabinka	842.7	96.6	113.1	75.0	82.5	86.9	101.4
Ivanovo	76.2	89.6	69.2	65.3	87.9	21.6	17.5
Ivatsevichy	38.0	141.3	157.0	46.0	79.9	42.7	58.4
Kamenets	10.9	12.8	28.9	0.2	8.3	1.5	1.7
Kobrin	6.7	3.7	0.5	8.4	7.3	7.7	11.1
Luninets	31.0	28.7	28.5	36.9	38.8	9.9	10.6
Lyakhovichy	30.7	1.9	5.0	27.0	5.4	3.4	4.2
Malorita	2.2	1.9	1.8	2.0	4.4	4.2	6.4
Pinsk	107.5	116.3	158.9	119.3	72.3	169.9	156.2
Pruzhany	5.8	5.9	6.6	7.3	8.3	8.9	7.5
Stolin	8.8	5.0	5.7	4.6	4.4	1.0	0.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	451.6	547.7	518.5	552.9	631.1	388.3	397.2
Vitebsk city of	131.0	146.6	119.0	150.2	129.4	76.1	75.8
District:							
Beshenkovichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Braslav	7.2	7.2	7.1	7.1	10.0	6.1	9.9
Verkhnedvinsk	3.9	3.9	3.8	3.8	12.3	13.2	9.8
Vitebsk	1.9	2.5	6.5	3.4	0.0	4.5	2.2
Glubokoye	3.4	3.3	3.3	5.7	6.9	5.8	7.0
Gorodok	0.4	0.3	0.3	0.3	2.1	0.6	5.7
Dokshitsy	0.0	0.1	0.1	0.1	0.6	0.1	0.2
Dubrovno	0.6	0.6	0.5	0.5	0.3	1.0	0.5
Lepel	9.4	9.4	3.3	3.3	6.9	11.3	12.1
Liozno	2.5	2.5	3.7	3.7	1.7	2.8	17.1
Miory	2.7	2.7	2.5	2.5	2.2	2.0	2.3
Orsha	17.6	17.6	16.8	16.9	58.5	38.9	32.4
Polotsk	38.9	39.5	37.5	37.4	37.3	28.7	26.9
Postavy	116.6	116.7	130.8	130.8	215.9	37.1	28.9
Rossony	15.5	7.8	3.0	3.0	2.3	2.1	3.0
Senno	84.1	162.3	158.6	158.6	79.7	61.5	68.6
Tolochin	8.6	13.5	15.9	15.9	7.4	43.5	32.2
Ushachy	2.8	3.1	3.8	4.0	4.6	5.2	5.3
Chashniki	2.4	6.2	2.0	3.1	51.4	47.2	53.8
Sharkovshchina	0.0	0.1	0.0	0.1	0.2	0.1	2.7
Shumilino	2.1	1.8	2.5	2.5	1.7	0.5	0.8

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	1 225.3	1 633.4	2 244.4	7 019.6	5 032.0	2 632.3	1 729.7
Gomel city of	244.3	243.9	243.9	4 746.1	268.7	317.9	354.9
District:							
Bragin	0.0	0.5	0.0	0.2	0.0	0.1	0.0
Buda-Koshelyovo	9.5	10.6	9.4	9.1	9.1	6.6	7.8
Vetka	1.7	3.9	4.4	5.0	2.6	4.0	2.9
Gomel	57.4	48.8	29.3	92.5	74.8	6.0	38.8
Dobrush	29.9	37.7	42.5	25.3	23.1	23.9	26.9
Yelsk	6.1	7.1	6.8	0.3	2.9	3.8	3.9
Zhitkovichy	19.3	14.0	14.7	14.3	6.4	18.8	21.3
Zhlobin	441.9	723.9	1 171.0	1 209.9	3 941.2	1 514.9	775.0
Kalinkovichy	10.8	18.3	7.3	12.4	9.5	15.9	18.1
Korma	0.1	0.1	0.2	0.5	0.1	2.4	4.2
Lelchitsy	8.4	3.0	2.0	7.9	1.8	7.9	6.1
Loyev	1.9	2.1	0.9	0.7	1.0	0.6	1.1
Mozyr	57.5	67.1	150.7	200.0	89.9	104.6	141.9
Narovlya	1.2	0.6	1.2	1.3	0.2	1.9	2.7
Oktyabrsky	4.6	3.1	4.9	4.0	3.5	10.0	4.3
Petrikov	57.7	86.5	79.0	64.7	60.6	42.0	76.8
Rechitsa	158.7	154.7	270.8	477.8	384.8	427.9	162.7
Rogachev	18.9	47.5	42.8	3.9	5.1	8.2	5.3
Svetlogorsk	51.4	152.7	155.1	130.6	125.4	101.2	52.4
Khoyniki	42.2	6.0	6.8	6.7	9.8	5.7	13.7
Chechersk	1.8	1.3	3.5	6.6	11.7	8.2	8.9

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	1 690.8	1 370.6	1 396.3	1 404.0	1 130.9	1 008.2	1 425.2
Grodno city of	526.7	362.7	409.3	169.0	262.4	280.9	595.0
District:							
Berestovitsa	1.3	1.3	3.0	0.7	1.1	0.8	14.6
Volkovysk	434.9	367.2	276.8	267.1	305.6	268.2	212.1
Voronovo	0.5	0.4	0.2	3.9	1.3	2.0	2.1
Grodno	519.1	384.7	435.7	576.5	233.6	48.7	93.2
Dyatlovo	5.6	6.4	3.9	0.3	0.3	2.5	0.6
Zelva	1.0	0.7	0.8	0.7	0.8	0.8	0.6
Ivye	20.8	16.8	9.5	18.0	6.5	1.4	4.5
Korelichy	3.1	3.4	3.1	2.9	3.2	2.7	4.4
Lida	55.6	66.6	109.2	67.4	52.9	51.0	59.6
Mosty	2.6	3.8	6.4	0.4	0.7	1.2	2.3
Novogrudok	1.7	2.3	2.3	3.2	2.2	4.6	2.0
Ostrovets	7.4	6.4	9.7	8.1	7.9	3.4	8.0
Oshmyany	5.0	3.3	2.6	2.7	9.0	20.4	35.6
Svisloch	1.0	3.1	2.3	4.7	5.5	3.2	3.0
Slonim	79.7	98.7	90.5	95.8	86.7	79.7	80.9
Smorgon	14.3	21.0	12.5	171.3	139.3	234.0	303.6
Shchuchin	10.5	21.9	22.7	11.4	12.2	2.9	3.3

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	539.5	848.5	670.6	1 162.1	995.8	1 177.0	2 067.5
Minsk region	4 579.0	4 387.6	4 652.2	5 871.2	5 772.1	3 361.9	4 015.5
District:							
Berezino	36.9	101.0	114.7	50.4	33.0	40.8	30.9
Borisov	85.0	90.0	78.6	174.8	198.9	184.9	150.2
Vileyka	45.0	31.9	63.7	60.5	33.5	37.2	24.1
Volozhin	11.0	17.9	17.2	3.7	7.3	5.9	3.4
Dzerzhinsk	14.7	0.4	7.7	11.0	7.2	5.0	4.5
Kletsk	6.7	7.2	9.7	12.3	15.7	10.0	13.8
Kopyl	62.5	59.1	56.6	37.4	43.3	11.9	8.9
Krupki	16.7	22.7	22.2	40.3	45.8	50.4	60.6
Logoyisk	503.2	780.3	1 219.8	1 613.2	1 330.8	416.8	1 043.1
Lyuban	148.0	44.3	34.1	27.1	67.8	37.8	71.4
Minsk	477.7	358.0	288.7	745.0	659.5	117.1	84.3
Molodechno	140.6	252.9	203.7	185.0	210.5	158.0	161.0
Myadel	21.6	21.5	8.8	23.3	1 151.9	1.5	30.2
Nesvizh	730.4	730.6	783.4	825.2	652.1	871.6	630.0
Pukhovichy	419.6	510.4	477.7	505.0	240.2	363.9	320.6
Slutsk	714.0	414.2	233.5	421.1	166.0	176.4	167.8
Smolevichy	16.0	20.5	28.3	23.0	29.4	26.7	40.1
Soligorsk	932.7	882.5	828.8	967.8	718.4	763.0	1 080.3
Staryie Dorogi	32.2	6.4	34.3	13.2	15.1	12.7	14.2
Stolbtsy	121.9	2.1	101.9	107.8	86.2	47.6	55.7
Uzda	38.9	24.9	29.4	15.1	19.5	13.6	12.3
Cherven	3.7	8.8	11.2	9.3	40.1	9.2	8.2

Continued

	2010	2011	2012	2013	2014	2015	2016
Mogilev region	3 726.1	2 948.4	2 682.5	2 827.7	1 847.7	2 557.1	2 128.1
Mogilev city of	74.5	88.0	113.3	223.2	224.3	411.4	296.8
District:							
Belynichy	2.2	3.0	4.4	7.0	6.6	5.8	5.5
Bobruysk	362.4	311.9	368.4	357.8	291.8	235.7	305.8
Bykhov	4.8	10.9	2.7	2.4	3.5	10.6	4.8
Glusk	11.0	14.4	10.8	9.9	14.3	9.2	17.6
Gorki	11.7	14.1	15.1	10.4	20.2	11.8	7.8
Dribin	0.1	0.2	0.2	0.4	0.2	0.3	0.5
Kirovsk	11.9	2.1	1.5	4.0	5.3	1.3	1.5
Klimovichy	9.5	5.1	32.3	25.1	13.6	6.0	7.0
Klichev	3.7	3.2	3.0	6.3	4.3	1.3	2.2
Kostyukovichy	3 109.8	2 321.2	1 993.5	2 039.0	1 111.1	1 756.6	1 351.8
Krasnopolye	0.9	5.7	6.9	0.0	0.0	0.0	0.1
Krichev	1.2	2.4	1.9	1.8	1.3	1.0	1.1
Krugloye	14.2	13.0	3.5	4.7	15.5	9.8	13.2
Mogilev	0.5	11.6	0.9	6.7	0.1	0.4	27.3
Mstislavl	0.4	0.3	2.5	2.9	3.4	2.4	2.4
Osipovichy	47.6	56.0	51.6	53.3	53.6	48.9	50.7
Slavgorod	0.1	0.1	0.5	0.6	0.5	0.1	0.0
Khotimsk	1.9	2.3	2.2	3.4	37.8	2.2	0.1
Chausy	1.4	0.6	4.1	4.2	0.1	6.4	6.2
Cherikov	4.0	9.6	9.1	8.4	2.0	0.7	1.3
Shklov	52.3	72.8	56.0	56.5	38.2	35.6	24.4

13.7. Disposal of industrial waste in organisations by regions, cities and districts

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	30 802.3	32 115.0	28 527.4	25 276.7	39 037.4	38 905.3	36 920.9
Brest region	257.9	164.3	165.4	208.9	248.1	241.3	223.2
Brest city of	62.3	45.8	42.0	74.2	77.2	46.2	36.8
District:							
Baranovichy	35.0	25.7	21.6	27.5	26.0	24.3	36.4
Bereza	7.0	10.5	39.3	39.2	49.6	56.8	56.9
Brest	0.6	1.8	0.7	0.6	0.1	27.0	1.2
Gantsevichy	0.9	1.4	1.4	0.9	0.4	1.2	0.8
Drogichin	94.3	2.7	1.8	2.0	2.2	2.3	1.7
Zhabinka	1.6	12.5	14.9	3.9	2.8	6.4	4.1
Ivanovo	6.9	8.6	3.7	3.9	2.8	4.6	3.9
Ivatsevichy	4.9	4.5	3.7	5.8	4.5	4.3	5.3
Kamenets	3.5	3.8	0.4	2.2	1.7	3.8	1.9
Kobrin	6.0	5.4	0.2	7.3	7.3	4.1	2.7
Luninets	6.9	5.2	5.4	8.9	6.0	4.8	3.5
Lyakhovichy	1.2	5.6	2.5	5.2	2.1	4.4	4.4
Malorita	8.0	2.7	2.7	2.7	2.8	2.4	2.0
Pinsk	11.2	16.7	14.2	19.7	24.3	41.5	56.1
Pruzhan'y	4.6	9.7	8.7	3.5	6.2	5.7	4.0
Stolin	3.0	1.9	2.4	1.5	34.3	1.8	1.7

Continued

	2010	2011	2012	2013	2014	2015	2016
Vitebsk region	283.3	352.1	347.8	300.5	223.6	173.0	148.3
Vitebsk city of	51.1	100.6	99.5	91.9	75.0	40.3	40.0
District:							
Beshenkovichy	1.2	1.2	1.2	1.2	0.9	0.4	0.4
Braslav	2.3	2.3	2.3	2.3	2.4	2.0	2.7
Verkhnedvinsk	4.1	4.1	3.7	3.7	1.6	1.2	1.3
Vitebsk	6.2	3.6	4.4	2.3	0.1	4.2	4.8
Glubokoye	6.6	8.6	8.5	11.1	6.9	6.1	4.8
Gorodok	2.1	2.1	2.1	2.1	2.1	1.2	1.7
Dokshitsy	3.1	3.2	3.1	3.1	1.0	1.5	1.7
Dubrovno	1.5	1.6	1.6	1.6	1.1	1.2	2.2
Lepel	3.4	3.5	3.5	3.4	3.0	4.7	2.5
Liozno	2.0	2.0	1.7	1.7	1.4	1.5	1.7
Miory	6.7	6.7	4.8	4.8	2.8	2.2	2.3
Orsha	18.3	17.9	18.3	18.5	24.4	28.7	17.0
Polotsk	69.8	70.3	70.2	70.1	63.9	42.3	44.9
Postavy	5.3	4.4	6.5	6.5	5.2	6.6	6.3
Rossony	1.0	1.5	1.6	1.6	1.5	1.4	0.9
Senno	4.4	10.6	3.6	3.6	1.4	1.5	2.9
Tolochin	2.2	3.4	0.8	0.8	4.0	8.4	1.5
Ushachy	0.8	1.0	1.1	1.8	0.6	0.9	1.1
Chashniki	87.8	100.0	107.0	65.9	19.4	13.2	4.0
Sharkovshchina	1.7	2.0	1.3	1.5	2.4	1.6	1.7
Shumilino	1.7	1.7	1.3	1.3	2.5	1.9	1.8

Continued

	2010	2011	2012	2013	2014	2015	2016
Gomel region	1 428.1	1 404.5	1 304.8	648.4	1 431.2	1 306.0	1 322.2
Gomel city of	823.8	766.2	897.6	160.0	764.1	731.0	713.0
District:							
Bragin	0.0	0.7	0.1	1.3	0.0	0.1	0.1
Buda-Koshelyovo	4.8	4.1	3.8	6.6	3.4	2.8	4.9
Vetka	2.0	0.5	4.3	3.2	0.4	0.7	1.5
Gomel	7.4	4.4	12.9	7.7	5.8	7.2	8.8
Dobrush	69.7	140.9	95.4	71.0	58.0	33.0	8.2
Yelsk	1.7	1.8	1.9	0.4	0.3	0.6	0.8
Zhitkovichy	10.6	12.1	9.3	8.2	7.3	10.6	6.4
Zhlobin	392.2	343.9	164.4	235.5	442.0	392.5	454.0
Kalinkovichy	5.3	5.2	5.8	6.3	5.3	6.1	5.8
Korma	4.0	2.3	5.5	2.4	1.3	1.6	1.7
Lelchitsy	1.3	1.8	1.9	1.9	1.8	2.7	1.2
Loyev	0.6	0.8	0.9	0.9	0.9	0.9	1.1
Mozyr	27.4	22.4	28.9	39.2	37.6	19.8	26.8
Narovlya	4.1	0.5	1.0	2.8	2.9	0.6	0.4
Oktyabrsky	3.0	2.7	1.8	2.2	2.9	2.3	1.0
Petrikov	7.3	8.4	6.0	4.6	8.7	6.5	5.9
Rechitsa	21.0	44.0	25.6	47.2	52.3	48.4	47.9
Rogachev	4.7	4.9	3.5	3.5	2.8	6.6	10.3
Svetlogorsk	30.6	32.6	29.5	30.0	26.2	22.4	16.2
Khoyniki	5.4	1.9	6.0	12.0	3.7	7.8	4.7
Chechersk	1.2	1.5	1.5	1.5	3.3	1.8	1.6

Continued

	2010	2011	2012	2013	2014	2015	2016
Grodno region	396.0	435.1	475.0	855.9	823.5	827.2	694.1
Grodno city of	223.0	204.4	221.4	583.5	563.8	543.5	449.3
District:							
Berestovitsa	2.3	2.2	2.1	1.9	2.2	2.1	2.5
Volkovysk	42.4	33.3	63.4	31.0	35.7	35.7	29.1
Voronovo	2.2	1.3	2.6	3.1	2.1	1.5	3.1
Grodno	18.8	95.1	100.4	40.8	11.9	52.6	23.3
Dyatlovo	5.0	3.7	3.7	3.9	4.0	4.3	4.9
Zelva	3.2	3.8	7.1	2.1	2.2	1.0	1.6
Ivye	3.6	1.7	2.1	3.8	1.1	1.7	1.3
Korelichy	2.1	1.8	1.8	2.1	2.0	4.2	2.1
Lida	38.5	32.5	31.3	32.5	29.7	27.1	25.8
Mosty	5.2	2.6	4.3	3.4	4.9	5.1	2.7
Novogrudok	4.2	3.0	4.2	5.7	5.9	8.6	2.6
Ostrovets	3.1	1.8	1.5	1.9	2.3	3.3	4.7
Oshmyany	6.7	23.7	8.0	6.0	17.2	5.8	4.9
Svisloch	2.8	2.3	1.7	3.3	2.1	1.5	2.3
Slonim	23.6	11.4	11.2	108.6	113.9	107.9	118.3
Smorgon	5.1	5.7	0.1	12.0	14.1	16.0	11.3
Shchuchin	4.2	4.9	7.3	10.2	8.8	5.4	4.3

WASTE

Continued

	2010	2011	2012	2013	2014	2015	2016
Minsk city	1 046.2	1 029.9	949.2	1 239.6	1 090.8	820.5	886.6
Minsk region	27 196.6	28 398.9	25 048.9	21 526.3	32 521.6	33 273.8	32 667.3
District:							
Berezino	3.8	2.3	2.8	2.7	2.0	2.2	1.7
Borisov	37.1	32.2	36.6	33.1	32.1	29.0	94.7
Vileyka	6.1	6.1	7.7	8.5	6.8	6.4	5.7
Volozhin	3.4	2.1	2.2	2.0	1.5	2.3	4.3
Dzerzhinsk	5.7	3.5	4.8	6.0	7.4	6.7	8.2
Kletsk	4.4	4.1	4.5	3.6	4.1	3.9	3.6
Kopyl	3.6	5.7	3.7	3.9	5.0	4.3	3.5
Krupki	2.7	3.1	2.9	4.1	8.3	4.9	2.8
Logoyisk	4.1	2.6	3.3	3.1	3.6	3.4	3.4
Lyuban	4.0	4.2	5.2	4.7	5.5	3.9	1.8
Minsk	36.4	36.8	53.0	49.1	52.4	58.1	45.3
Molodechno	20.4	33.5	39.4	23.6	19.4	15.8	20.3
Myadel	6.6	5.9	4.8	5.9	18.5	4.0	3.9
Nesvizh	13.8	40.8	10.2	7.5	15.5	8.6	22.6
Pukhovichy	8.4	16.6	25.2	10.5	15.4	18.4	14.9
Slutsk	12.6	10.0	18.0	20.3	26.4	23.1	21.4
Smolevichy	20.9	15.9	18.7	31.1	21.4	25.4	23.9
Soligorsk	26 960.8	28 156.9	24 790.3	21 292.9	32 261.9	33 042.0	32 374.5
Staryie Dorogi	2.9	4.0	3.0	2.4	3.9	2.0	3.3
Stolbtsy	25.8	1.7	4.7	4.5	3.9	4.0	2.6
Uzda	7.1	4.7	2.3	2.0	2.4	2.1	2.6
Cherven	6.0	6.1	5.9	5.1	4.3	3.4	2.4

Continued

	2010	2011	2012	2013	2014	2015	2016
Mogilev region	194.2	330.2	236.3	497.1	2 698.5	2 263.5	979.2
Mogilev city of	66.5	155.3	49.7	97.7	110.8	85.6	110.0
District:							
Belynichy	1.9	2.6	2.7	2.8	3.5	2.3	1.9
Bobruysk	68.7	91.9	71.9	326.2	244.1	259.3	245.0
Bykhov	1.5	3.4	5.4	3.2	6.2	3.0	4.4
Glusk	2.0	2.1	0.8	1.8	7.0	9.6	2.3
Gorki	4.7	8.4	4.3	6.3	18.1	0.7	5.3
Dribin	1.4	1.2	1.0	1.1	0.4	0.7	0.4
Kirovsk	2.2	2.2	2.0	2.0	0.7	5.0	5.2
Klimovichy	2.0	3.1	1.9	8.7	1.6	3.0	1.5
Klichev	1.8	2.9	1.2	1.2	0.9	0.5	0.6
Kostyukovichy	8.1	16.0	57.4	2.8	2 260.9	1 862.1	565.5
Krasnopolye	0.4	1.4	2.8	0.1	0.0	0.0	0.1
Krichev	2.2	1.1	0.8	1.3	0.8	1.8	1.0
Krugloye	0.9	1.4	4.3	0.3	2.3	2.8	1.1
Mogilev	4.9	17.4	1.6	2.0	0.7	1.5	6.7
Mstislavl	0.6	0.8	0.7	0.6	1.6	0.5	1.0
Osipovichy	3.4	4.3	5.4	6.4	4.6	5.1	4.4
Slavgorod	1.4	1.5	1.2	1.3	1.2	1.2	0.5
Khotimsk	4.8	0.7	0.9	5.9	4.9	0.4	0.2
Chausy	1.4	1.1	1.4	1.1	1.1	0.9	0.5
Cherikov	1.0	0.5	2.3	4.3	2.2	2.6	0.4
Shklov	12.4	10.8	17.0	20.2	25.1	14.9	21.3

13.8. Generation, utilization and disposal of industrial waste hazard category 1-3

(thousand tonnes)

	2010	2011	2012	2013	2014	2015	2016
Generation waste hazard category 1-3	918.2	943.2	1 322.8	1 415.4	1 724.0	1 207.8	1 626.6
Utilization waste hazard category 1-3	774.9	827.6	1 324.3	1 091.7	1 242.2	889.8	1 201.6
Disposal waste hazard category 1-3 – total	349.7	283.0	379.8	757.0	851.4	668.1	701.0
of which:							
storage facilities	105.2	102.2	89.0	563.0	581.0	496.5	472.5
burial sites	136.6	83.7	123.7	124.7	153.6	99.3	116.0
onsite storage	61.9	39.9	138.0	48.0	57.5	47.8	78.8
neutralisation	46.0	57.1	29.1	21.3	59.3	24.5	33.8

13.9. Dynamics of generation, utilization and disposal of industrial waste hazard category 1-3

(thousand tonnes)



13.10. Industrial waste by hazard category in 2016

	Genera- tion	Utiliza- tion	Disposal	Of which			
				storage facilities	burial sites	onsite storage	neutrali- sation
Thousand tonnes							
Total	49 448.2	13 213.0	36 920.9	34 912.1	1 437.0	389.6	182.2
of which:							
Non-hazardous	7 803.6	6 387.7	1 576.8	561.6	886.6	122.1	6.6
Category 1 (extremely hazardous)	28.1	24.6	3.8	0.4	0.0	2.7	0.7
Category 2 (high-hazard)	19.3	16.2	4.7	0.1	0.0	0.1	4.6
Category 3 (hazardous)	1 579.2	1 160.9	692.5	472.0	116.0	76.0	28.5
Category 4 (low-hazard)	40 018.0	5 623.7	34 643.0	33 878.1	434.4	188.8	141.8
As % of total							
Total	100	100	100	100	100	100	100
of which:							
Non-hazardous	15.8	48.3	4.3	1.6	61.7	31.3	3.6
Category 1 (extremely hazardous)	0.1	0.2	0.0	0.0	0.0	0.7	0.4
Category 2 (high-hazard)	0.0	0.1	0.0	0.0	0.0	0.0	2.5
Category 3 (hazardous)	3.2	8.8	1.9	1.4	8.1	19.5	15.6
Category 4 (low-hazard)	80.9	42.6	93.8	97.0	30.2	48.5	77.8

13.11. Removal of solid and liquid municipal waste from settlements by special purpose motor road vehicles by regions and Minsk city

(thousand cubic metres)

	2010	2011	2012	2013	2014	2015	2016
Solid municipal waste							
Republic of Belarus	17 139	18 380	18 299	19 434	19 967	21 402	21 574
Regions and Minsk city:							
Brest	2 380	2 540	2 558	2 509	2 550	2 885	2 980
Vitebsk	2 023	1 984	1 930	2 085	2 294	2 432	2 305
Gomel	2 404	2 560	2 604	2 679	2 588	2 814	2 739
Grodno	1 604	1 782	1 825	1 898	1 994	2 083	2 202
Minsk city	4 335	4 887	4 622	5 078	5 338	5 597	5 757
Minsk	2 543	2 717	2 717	3 103	3 057	3 277	3 273
Mogilev	1 850	1 910	2 044	2 082	2 146	2 315	2 318
Liquid municipal waste							
Republic of Belarus	1 986	1 579	1 426	1 640	1 422	1 301	1 317
Regions and Minsk city:							
Brest	313	316	272	236	262	247	231
Vitebsk	113	115	128	191	64	81	106
Gomel	324	341	252	279	260	224	179
Grodno	267	267	244	240	216	200	193
Minsk city	62	62	49	53	47	37	16
Minsk	729	440	440	434	470	403	465
Mogilev	178	38	41	206	103	110	125

14. SELECTED DATA ON THE CHERNOBYL CATASTROPHE CONSEQUENCES

The catastrophe at the Chernobyl Nuclear Power Plant occurred on 26 April 1986. Radioactive contamination covered an area of more than 125 thsd sq. km, affecting the territory of Belarus, Russia and Ukraine.

The most widely spread radionuclide is caesium-137 (radioactive caesium) with half-life period of 30 years. However, before the radionuclide becomes non-hazardous for human or animal live, 6-10 half-life periods must pass.

Radioactive contamination with caesium-137, with its content in soil over 1 Ku/km², affected the territory of Belarus, covering an area of 46 thsd km² (22% of the total area), of which 19 thsd km² of agricultural land, 20 thsd km² of forest stock land.

14.1. Area of agricultural land contaminated with Caesium-137 in use of agricultural organisations by region¹⁾

(as of January 1; thousand hectares)

	2011	2012	2013	2014	2015	2016	2017
Republic of Belarus	998.7	988.9	981.9	970.7	941.3	927.7	903.1
Region:							
Brest	64.1	63.7	62.0	57.7	52.6	52.1	50.7
Vitebsk	0.3	0.3	0.3	0.3	0.3	0.2	0.2
Gomel	575.5	572.6	570.2	567.6	561.7	552.0	533.3
Grodno	26.8	25.3	22.9	22.9	20.8	19.8	18.3
Minsk	57.4	53.1	51.9	51.2	50.0	48.7	46.9
Mogilev	274.6	273.9	274.6	271.0	255.9	254.9	253.7

¹⁾ Data of the Ministry of Agriculture and Food of the Republic of Belarus.

14.2. Area of agricultural land contaminated with Caesium-137 in use of agricultural organisations by region as of January 1, 2017¹⁾

	Total agricultural land contaminated		Of which by soil contamination density, thsd ha			
	thsd ha	% of total agricultural land	1-5 Ci/km ²	5-15 Ci/km ²	15-40 Ci/km ²	40 Ci/km ²
Republic of Belarus	903.1	10.6	714.8	168.2	20.1	0.1
Region:						
Brest	50.7	3.7	49.1	1.6	0.0	—
Vitebsk	0.2	0.0	0.2	—	—	—
Gomel	533.3	40.3	398.5	119.1	15.6	0.1
Grodno	18.3	1.5	17.9	0.3	—	—
Minsk	46.9	2.5	46.4	0.5	—	—
Mogilev	253.7	19.8	202.6	46.6	4.5	—

¹⁾ Data of the Ministry of Agriculture and Food of the Republic of Belarus.

14.3. Area of forest stock of the Ministry of Forestry of the Republic of Belarus contaminated with Caesium-137 by region¹⁾

(as of January 1; thousand hectares)

	2011	2012	2013	2014	2015	2016	2017
Republic of Belarus	1 569.4	1 544.0	1 504.6	1 457.4	1 424.8	1 395.4	1 375.9
Region:							
Brest	107.4	110.0	105.4	100.2	94.2	89.7	85.7
Vitebsk	0.3	0.3	0.3	0.1	0.1	0.1	0.1
Gomel	918.0	901.2	884.7	863.5	846.5	831.4	824.8
Grodno	46.4	41.4	40.3	33.8	31.4	30.0	26.0
Minsk	48.3	46.2	41.3	33.9	32.9	31.7	31.4
Mogilev	448.8	444.9	432.6	425.9	419.7	412.5	407.9

¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

14.4. Area of forest stock contaminated with Caesium-137, by region as of January 1, 2017¹⁾

	Total area of forest fund contaminated		Of which by soil contamination density, thsd ha			
	thsd ha	% of total forest stock	1-5 Ci/km ²	5-15 Ci/km ²	15-40 Ci/km ²	40 Ci/km ²
Total						
Republic of Belarus	1 652.4	17.4	1 063.0	390.8	171.4	27.2
Region:						
Brest	85.7	6.1	83.0	2.7	—	—
Vitebsk	0.1	0.0	0.1	—	—	—
Gomel	1 098.1	48.3	651.5	294.9	125.1	26.6
Grodno	26.0	2.6	25.9	0.1	—	—
Minsk	34.6	2.0	34.3	0.3	—	—
Mogilev	407.9	32.6	268.2	92.8	46.3	0.6
of which area of forest stock of the Ministry of Forestry of the Republic of Belarus						
Republic of Belarus	1 375.9	14.5	959.4	295.8	119.5	1.2
Region:						
Brest	85.7	6.1	83.0	2.7	—	—
Vitebsk	0.1	0.0	0.1	—	—	—
Gomel	824.8	36.3	551.1	199.9	73.2	0.6
Grodno	26.0	2.6	25.9	0.1	—	—
Minsk	31.4	1.8	31.1	0.3	—	—
Mogilev	407.9	32.6	268.2	92.8	46.3	0.6

¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

14.5. Forest seeding and planting on areas contaminated with Caesium-137, by region

(hectares)

	2010	2011	2012	2013	2014	2015	2016
Republic of Belarus	6 617	5 491	4 924	4 818	5 767	5 541	6 037
Region:							
Brest	192	77	149	154	118	188	290
Gomel	3 504	3 596	3 397	3 232	3 702	3 403	4 052
Grodno	85	162	131	96	102	104	38
Minsk	186	19	16	108	83	87	73
Mogilev	2 650	1 637	1 231	1 228	1 762	1 759	1 584

14.6. Forest seeding and planting on areas contaminated with Caesium-137, by region in 2016

(hectares)

	Forest seeding and planting – total	Of which by soil contamination density			
		1-5 Ci/km ²	5-15 Ci/km ²	15-40 Ci/km ²	40 Ci/km ²
Total					
Republic of Belarus	6 037	3 669	1 367	993	8
Region:					
Brest	290	283	7	–	–
Gomel	4 052	2 426	975	651	–
Grodno	38	38	–	–	–
Minsk	73	72	1	–	–
Mogilev	1 584	850	384	342	8
of which on land excluded from agricultural use					
Republic of Belarus	752	65	129	550	8
Region:					
Gomel	351	39	14	298	–
Mogilev	401	26	115	252	8

**14.7. Fixed capital investment in post-catastrophe remedial actions
by regions and Minsk city**
(at current prices)

	2010	2011	2012	2013	2014	2015	2016 ¹⁾
BYR billion							
Republic of Belarus	208.6	292.5	619.7	1 029.1	607.3	789.9	72.6
Regions and Minsk city:							
Brest	36.9	41.0	56.2	133.4	73.8	75.2	9.8
Vitebsk	1.4	0.1	5.9	0.8	2.3	3.0	1.5
Gomel	126.7	179.1	443.1	770.8	435.8	535.1	33.1
Grodno	1.7	3.0	4.3	14.9	3.3	–	–
Minsk city	0.7	0.7	1.2	–	–	2.0	0.3
Minsk	8.9	5.7	5.1	8.7	3.9	2.7	–
Mogilev	32.3	62.9	103.9	100.6	88.1	171.9	27.9
As % of total investment							
Republic of Belarus	0.4	0.3	0.4	0.5	0.3	0.4	0.4
Regions and Minsk city:							
Brest	0.4	0.3	0.3	0.6	0.3	0.4	0.5
Vitebsk	0.03	0.0	0.04	0.0	0.01	0.02	0.09
Gomel	1.5	1.3	2.1	2.3	1.1	1.3	1.3
Grodno	0.03	0.03	0.02	0.1	0.01	–	–
Minsk city	0.01	0.0	0.0	–	–	0.0	0.0
Minsk	0.1	0.03	0.02	0.02	0.01	0.01	–
Mogilev	0.6	0.6	0.6	0.6	0.5	0.9	2.0

¹⁾ Value indicators are shown in BYN million (in terms of the new denomination; 1 BYN = 10 000 BYR).

15. PROFESSIONAL TRAINING IN THE FIELD OF ENVIRONMENTAL PROTECTION AND USE OF NATURAL RESOURCES¹⁾

15.1. Graduates in the field of environmental protection and use of natural resources by specialty

(persons)

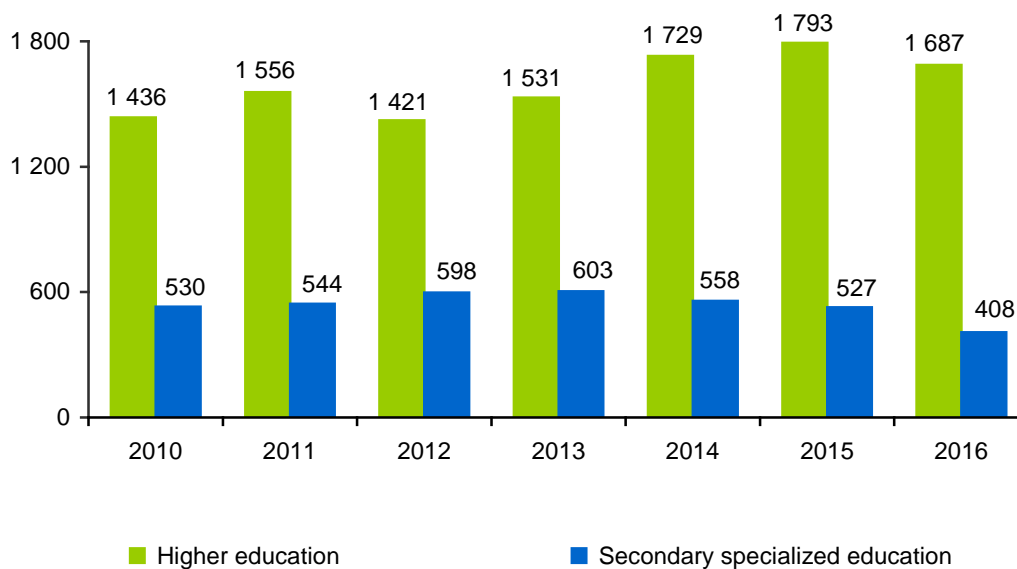
	2010	2011	2012	2013	2014	2015	2016
Higher education graduates							
Bioecology (biologist-ecologist, teacher of biology and ecology)	175	250	246	277	293	321	307
Geoecology	95	63	64	76	88	83	104
Radioecology	25	18	19	–	–	–	10
Ecological monitoring, management and audit	50	56	39	21	22	–	–
Medical ecology	73	73	61	107	114	96	86
Agricultural ecology	39	95	75	82	138	82	72
Nature conservation activities	–	–	–	–	–	44	42
Geology and mineral exploration	51	48	48	45	98	107	65
Environmental protection and rational use of natural resources	79	89	76	78	78	71	51
Ecological management and audit in industry	49	40	37	47	44	41	39
Bioecology (ecological engineer)	25	22	22	17	13	16	10
Heat and gas supply, ventilation and air protection	222	256	263	284	351	356	345
Water supply, water disposal and protection of water resources	264	254	241	275	267	297	312
Forestry	289	292	230	222	223	279	244

Continued

	2010	2011	2012	2013	2014	2015	2016
Secondary specialized education graduates							
Heat and gas supply, ventilation and air protection	–	–	51	61	88	81	55
Water supply, water disposal and protection of water resources	73	129	134	133	117	108	67
Forestry	457	415	413	409	353	338	286

15.2. Higher and secondary specialized education graduates in the field of environmental protection and use of natural resources

(persons)



¹⁾ Data of the Ministry of Education of the Republic of Belarus.

16. INTERNATIONAL COMPARISONS

16.1. Belarus and CIS countries¹⁾

16.1.1. Water abstraction from natural sources for use (excluding transit water)

(million cubic metres)

	2010	2011	2012	2013	2014	2015
Azerbaijan	11 566	11 779	12 484	12 509	12 123	12 285
Armenia	2 126	2 438	2 941	2 955	2 860	3 272
Belarus	1 548	1 592	1 593	1 514	1 510	1 396
Kazakhstan	23 812	21 948	21 389	22 530	23 266	22 852
Kyrgyzstan	7 562	8 634	9 942	8 327	7 658	...
Moldova	851	847	850	839	837	840
Russia	72 572	68 376	64 037	60 988	63 164	60 774
Ukraine ²⁾	14 846	14 651	14 651	13 625

¹⁾ Source: CISSTAT. In tables 16.1.1-16.1.3 data for Moldova include the territory of the left bank of the Dniester River and the city of Bendery, in tables 16.1.4-16.1.8 data do not include the territory of the left bank of the Dniester River and the city of Bendery.

²⁾ Total water abstraction.

16.1.2. Water use

(million cubic metres)

	2010	2011	2012	2013	2014	2015
Total						
Azerbaijan	7 715	8 012	8 249	8 229	8 115	8 567
Armenia	1 341	1 738	2 187	2 089	2 113	2 533
Belarus	1 359	1 406	1 442	1 373	1 371	1 270
Kazakhstan	20 856	19 232	18 403	20 063	20 411	20 352
Kyrgyzstan	4 478	4 865	4 863	4 400	4 768	...
Moldova	785	785	786	782	777	777
Russia	59 453	59 542	56 864	53 551	55 973	54 576
Ukraine	9 817	10 086	10 507	10 092

Continued

	2010	2011	2012	2013	2014	2015
of which:						
industrial water use						
Azerbaijan	1 742	1 760	2 098	2 056	2 144	2 117
Armenia	121	166	180	160	181	153
Belarus	393	423	429	407	405	389
Kazakhstan	5 357	5 173	5 240	5 477	5 592	5 385
Kyrgyzstan	91	78	82	40	81	...
Moldova	581	580	580	580	579	579
Russia	36 429	35 856	33 915	31 478	32 389	31 421
Ukraine	5 511	5 514	5 681
irrigation and agricultural water supply						
Azerbaijan	5 497	5 746	5 771	5 746	5 572	6 057
Armenia	1 153	1 445	1 932	1 846	1 810	2 283
Belarus	114	114	120	117	115	114
Kazakhstan	11 703	9 373	10 671	9 774	9 985	10 446
Kyrgyzstan	4 163	4 634	4 483	4 544	4 531	...
Moldova	83	83	84	80	80	82
Russia	8 002	8 140	7 735	6 956	7 480	7 113
Ukraine	1 566	1 818	1 920
domestic and drinking purposes						
Azerbaijan	405	397	279	311	313	323
Armenia	67	69	75	84	122	97
Belarus	495	486	492	477	473	474
Kazakhstan	751	790	724	711	731	730
Kyrgyzstan	206	106	233	207	143	...
Moldova	118	119	118	118	113	114
Russia	9 588	9 421	9 037	8 675	8 516	8 237
Ukraine	1 917	1 860	1 848

16.1.3. Contaminated waste water discharge into surface water bodies

(million cubic metres)

	2010	2011	2012	2013	2014	2015
Azerbaijan	164	223	220	248	265	306
Armenia	139	362	407	139	235	251
Belarus	5	6	3	3	3	6
Kazakhstan	271	215	190	174	153	197
Kyrgyzstan	7	4	4	3	3	...
Moldova	11	8	9	9	10	8
Russia	16 516	15 966	15 678	15 189	14 768	14 418
Ukraine	1 744	1 612	1 521	1 717

16.1.4. Air polluting emissions from stationary sources

(thousand tonnes)

	2010	2011	2012	2013	2014	2015
Total						
Azerbaijan	215	224	227	197	189	178
Armenia	98	115	117	120	128	129
Belarus	377	371	433	445	463	458
Kazakhstan	2 227	2 346	2 384	2 283	2 257	2 180
Kyrgyzstan	31	36	37	39	61	...
Moldova	15	15	15	16	15	16
Russia	19 116	19 197	19 630	18 447	17 452	17 296
Tajikistan	36	41	39
Ukraine	4 132	4 375	4 335

Continued

	2010	2011	2012	2013	2014	2015
of which: solid						
Azerbaijan	19	18	10	12	9	7
Armenia	4	3	4	4	4	5
Belarus	44	40	37	36	35	30
Kazakhstan	639	631	694	551	494	466
Kyrgyzstan	15	18	18	16	23	...
Moldova	4	4	4	3	3	3
Russia	2 381	2 283	2 249	2 009	1 922	1 820
Tajikistan	11	13	13
Ukraine	562	607	574
gaseous and liquid						
Azerbaijan	196	206	217	186	180	171
Armenia	94	112	113	116	124	124
Belarus	333	331	396	409	428	428
Kazakhstan	1 588	1 715	1 790	1 732	1 763	1 714
Kyrgyzstan	16	18	19	23	38	...
Moldova	11	11	11	12	12	13
Russia	16 735	16 914	17 381	16 438	15 530	15 476
Tajikistan	25	28	26
Ukraine
of which: sulphur dioxide						
Azerbaijan	2	3	3	6	2	4
Armenia	27	29	29	32	32	34
Belarus	52	44	64	49	50	57
Kazakhstan	724	774	770	730	729	711
Kyrgyzstan	8	8	4	12	18	...
Moldova	1	1	1	1	1	1
Russia	4 385	4 343	4 341	4 173	4 036	4 099
Tajikistan	1	2	2
Ukraine	1 206	1 333	1 399

Continued

	2010	2011	2012	2013	2014	2015
nitrogen dioxide						
Azerbaijan	20	21	24	34	20	19
Armenia	1	1	1	2	2	1
Belarus	57	53	53	56	54	49
Kazakhstan	216	233	249	250	257	243
Kyrgyzstan	3	3	3	3	4	...
Moldova	2	2	2	2	2	2
Russia	1 855	1 881	1 938	1 874	1 805	1 787
Tajikistan	1	1	1
Ukraine	317	355	345
carbon monoxide						
Azerbaijan	27	34	35	35	32	28
Armenia	2	2	3	3	3	3
Belarus	75	74	79	82	81	75
Kazakhstan	401	445	446	458	479	451
Kyrgyzstan	3	5	5	6	12	...
Moldova	4	5	4	5	5	5
Russia	5 565	5 781	6 002	5 351	4 938	4 800
Tajikistan	20	22	22
Ukraine	1 064	1 066	1 005

16.1.5. Air polluting emissions from stationary sources per inhabitant

(kilogrammes)

	2010	2011	2012	2013	2014	2015
Azerbaijan	24	24	24	21	20	18
Armenia	33	39	39	40	43	43
Belarus	40	39	46	47	49	48
Kazakhstan	136	142	142	134	131	124
Kyrgyzstan	6	7	7	7	10	...
Moldova	4	4	4	4	4	5
Russia	134	134	137	129	121	120
Tajikistan	5	5	5
Ukraine	90	96	95

16.1.6. Air polluting emissions from stationary sources per area unit

(kilogrammes / square kilometre)

	2010	2011	2012	2013	2014	2015
Azerbaijan	2 483	2 587	2 621	2 275	2 182	2 055
Armenia	3 295	3 867	3 934	4 035	4 304	4 338
Belarus	1 817	1 788	2 087	2 145	2 229	2 206
Kazakhstan	817	861	875	838	828	800
Kyrgyzstan	155	180	185	195	305	...
Moldova	443	443	443	473	443	473
Russia	1 118	1 123	1 148	1 079	1 021	1 012
Tajikistan	253	288	274
Ukraine	6 846	7 249	7 183

16.1.7. Captured and detoxified air pollutants from stationary sources

	2010	2011	2012	2013	2014	2015
Thousand tonnes						
Azerbaijan	277	255	90	84	83	307
Armenia	162	115	152	195	118	97
Belarus	2 863	2 800	2 691	2 887	3 646	3 187
Kazakhstan	25 859	28 036	31 012	33 379	29 674	27 950
Kyrgyzstan	277	288	271	369	451	...
Moldova	120	117	115	195	133	140
Russia	59 518	59 224	56 834	54 384	54 099	51 993
Tajikistan	174	48	130

Continued

	2010	2011	2012	2013	2014	2015
As % of total pollutants						
Azerbaijan	56	53	28	30	31	63
Armenia	62	53	56	62	48	43
Belarus	88	88	86	87	89	87
Kazakhstan	92	92	93	94	93	93
Kyrgyzstan	93	89	88	90	94	...
Moldova	89	97	89	93	90	90
Russia	76	76	74	75	76	75
Tajikistan	81	54	92

16.1.8. Air polluting emissions from motor road transport

(thousand tonnes)

	2010	2011	2012	2013	2014	2015
Azerbaijan	742	779	849	922	966	978
Armenia	166	155	142	142	143	140
Belarus¹⁾	942	944	956	928	881	801
Moldova	147	175	140	213	179	179
Russia	13 188	13 325	12 679	13 424	13 622	13 819
Tajikistan	257	...	260
Ukraine	2 314	2 255	2 249

¹⁾ From mobile sources.

16.2. Belarus and countries of the world¹⁾

16.2.1. Area of forest land

	Km ²		As % of total area	
	2010	2015	2010	2015
Austria	38 600	38 690	46.8	46.9
Belarus	80 941	82 926	39.0	39.9
Belgium	6 812	6 834	22.5	22.6
Canada	3 473 020	3 470 690	38.2	38.2
Czech Republic	26 570	26 670	34.4	34.5
Estonia	22 340	22 320	52.7	52.7
Finland	222 180	222 180	73.1	73.1
France	164 240	169 890	30.0	31.0
Japan	249 660	249 580	68.5	68.5
Germany	114 090	114 190	32.7	32.8
Greece	39 030	40 540	30.3	31.5
Denmark	5 871	6 122	13.8	14.4
Hungary	20 460	20 690	22.6	22.9
Ireland	7 256	7 540	10.5	10.9
Italy	90 280	92 970	30.7	31.6
Netherlands	3 730	3 760	11.1	11.2
Norway	121 020	121 120	33.1	33.2
Poland	93 290	94 350	30.5	30.8
Portugal	32 390	31 820	35.4	34.7
Slovakia	19 390	19 400	40.3	40.3
Slovenia	12 470	12 480	61.9	62.0
Spain	182 472	184 178	36.5	36.8
Sweden	280 730	280 730	68.4	68.9
Switzerland	12 350	12 540	31.3	31.7
Turkey	112 030	117 150	14.6	15.2
United Kingdom	30 590	31 440	12.6	13.0
United States	3 087 200	3 100 950	33.7	33.9

¹⁾ Data of the OECD and Eurostat.

16.2.2. Biodiversity conservation areas

(as percentage of total country's area)

	2010	2015
Austria	11	15
Belarus	8	9
Belgium	10	13
Bulgaria	30	34
Cyprus	13	29
Czech Republic	10	14
Denmark	7	8
Estonia	17	18
Finland	13	14
France	9	13
Germany	10	15
Greece	16	27
Hungary	15	21
Ireland	11	13
Italy	14	19
Latvia	11	12
Lithuania	14	12
Luxembourg	15	27
Malta	13	13
Netherlands	8	13
Poland	11	20
Portugal	17	21
Romania	13	23
Slovakia	12	30
Slovenia	31	38
Spain	24	27
Sweden	14	13
United Kingdom	7	9

16.2.3. Air polluting emissions from stationary and mobile sources by selected ingredients

(thousand tonnes)

	2010	2011	2012	2013	2014
Sulphur oxides					
Austria	17.9	16.8	16.1	15.9	16.0
Belarus¹⁾	54.3	47.1	66.4	48.8	50.5
Belgium	60.6	53.0	47.3	44.7	42.3
Bulgaria	388.8	516.2	330.0	195.8	188.9
Croatia	34.7	28.8	24.8	16.5	15.6
Cyprus	21.9	20.9	16.2	13.8	16.8
Czech Republic	160.3	160.4	154.7	137.9	127.0
Denmark	15.6	14.4	12.6	13.0	11.4
Estonia	83.3	72.8	40.6	36.5	40.8
Finland	67.0	61.1	51.4	47.4	43.6
France	286.2	249.7	235.3	217.2	169.4
Germany	432.2	428.0	412.7	410.4	388.0
Greece	265.4	262.2	244.9	226.5	138.1
Hungary	31.4	34.2	31.2	30.5	27.2
Iceland	73.9	72.8	83.9	70.7	65.1
Ireland	28.3	26.6	25.2	25.4	19.3
Italy	217.0	194.9	176.4	145.1	130.5
Latvia	4.5	4.3	4.3	3.9	3.8
Lithuania	21.1	24.3	21.0	19.8	17.8
Luxembourg	1.8	1.3	1.5	1.6	1.6
Malta	8.1	7.9	7.7	5.0	4.7
Netherlands	33.8	33.5	33.8	29.6	29.1
Norway	19.7	18.8	17.3	16.7	16.6
Poland	969.5	917.1	892.0	853.4	800.1
Portugal	53.3	48.1	43.0	38.7	34.8
Romania	349.5	320.1	257.7	202.8	175.8
Slovakia	71.6	68.7	57.5	53.5	45.3
Slovenia	10.1	11.9	10.8	11.6	8.8
Spain	421.1	457.3	404.2	258.7	254.6
Sweden	32.1	29.2	28.3	26.8	24.0
Switzerland	10.6	8.7	9.0	8.7	8.0
Turkey	2 561.0	2 640.5	2 715.9	1 939.1	2 147.5
United Kingdom	423.0	392.8	439.1	386.0	307.6

¹⁾ Sulphur dioxide.

Continued

	2010	2011	2012	2013	2014
Nitrogen oxides					
Austria	179.0	169.2	162.8	162.1	151.0
Belarus¹⁾	157.0	157.7	158.5	157.4	149.4
Belgium	250.6	232.7	213.7	206.4	197.0
Bulgaria	140.5	156.8	142.1	127.3	133.3
Croatia	64.7	61.2	56.1	54.7	55.2
Cyprus	18.5	21.3	21.3	16.2	17.2
Czech Republic	220.2	206.9	193.5	181.3	170.4
Denmark	146.8	138.7	127.9	123.0	113.4
Estonia	41.7	39.9	36.6	33.9	33.3
Finland	174.1	160.1	152.5	144.8	137.5
France	1 087.3	1 024.4	986.8	965.9	885.6
Germany	1 336.7	1 315.9	1 275.0	1 272.4	1 224.3
Greece	319.4	296.0	258.6	249.7	247.5
Hungary	138.6	130.2	121.4	120.8	120.0
Iceland	22.7	21.2	20.9	20.8	20.1
Ireland	85.8	77.1	79.1	77.9	77.0
Italy	978.0	949.9	867.1	815.6	790.4
Latvia	40.6	34.6	34.9	34.7	34.6
Lithuania	54.5	51.5	53.2	51.8	51.4
Luxembourg	39.2	38.8	35.0	31.9	28.1
Malta	8.1	7.9	8.7	4.9	6.5
Netherlands	299.5	286.3	271.9	259.6	234.8
Norway	177.2	170.0	162.6	151.1	139.8
Poland	874.0	855.1	832.2	774.1	723.1
Portugal	179.5	171.5	160.3	160.4	159.6
Romania	235.4	244.1	242.4	220.2	218.0
Slovakia	92.2	88.1	83.8	83.0	84.7
Slovenia	47.9	47.7	46.6	44.0	39.5
Spain	959.8	954.5	923.3	818.8	801.7
Sweden	157.2	148.7	140.9	138.2	135.0
Switzerland	78.1	73.4	73.4	72.7	68.5
Turkey	945.0	1 120.0	1 090.0	1 047.0	1 055.4
United Kingdom	1 145.0	1 062.8	1 084.6	1 035.7	949.2

¹⁾ Nitrogen dioxide.