

STATISTICAL ACTIVITIES RELATED TO CLIMATE CHANGE ADAPTATION IN THE REPUBLIC OF BELARUS

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Country	Belarus
Short description	<p>Climate change seriously affects the socio-economic development of the state, therefore information about climate change, possible impacts and adaptation to these changes is becoming increasingly relevant and in demand.</p> <p>The issues of climate change and adaptation are reflected in the work of a wide range of ministries and agencies in the Republic of Belarus. The importance of this problem is highlighted by the inclusion of the issues related to adaptation to climate change in the State Programme "Environmental protection and sustainable use of natural resources" for 2021-2025.</p> <p>In addition, work on measuring adaptation to climate change is being carried out in the Republic of Belarus in accordance with the action plan for the implementation of the provisions of the Paris Agreement to the United Nations Framework Convention on Climate Change.</p>
Keywords	
<i>Thematic area</i>	<ul style="list-style-type: none"> • Agriculture, forestry and fishery • Water resources • Temperature and precipitation
<i>Characteristics of the reference area</i>	<ul style="list-style-type: none"> • The whole territory
<i>Type of statistical product or activity</i>	<ul style="list-style-type: none"> • Indicator(s) • Linking data from several sources • Data analysis • Providing data for risk assessments
<i>Adaptation approaches</i>	<ul style="list-style-type: none"> • Soft" adaptation – policy, legal, social, management and financial measures
<i>Concepts covered/measured</i>	<ul style="list-style-type: none"> • Vulnerability
<i>Hazard type covered</i>	<ul style="list-style-type: none"> • Multiple hazards

Description of the activity, context and relevance

Belstat annually collects, analyses and disseminates climate change-related statistics. Under the Information Exchange Agreement between Belstat and the Ministry of Environment, the information necessary for the production of climate change-related statistical data is shared between these two agencies on a regular basis, in the prescribed format and in the appropriate time frames. For example, the Ministry of Environment provides Belstat with data on average annual and average monthly air temperature; average annual and average monthly precipitation; greenhouse gas emissions, etc. In

turn, Belstat provides the Ministry of Environment with the information necessary for the preparation of the state inventory of greenhouse gases.

Statistical indicators that describe climate change are published:

- in the statistical book «Environmental Protection in the Republic of Belarus»;
- on the National Reporting Platform for SDG indicators;
- in the Shared Environmental Information System Indicators.

With this information base in place, Belstat plans to start the development and implementation of a National set of climate-change statistics based on the Global Set of Climate Change Statistics and Indicators. According to the action plan to implement the recommendations of international experts from the Global Assessment of the National Statistical System of the Republic of Belarus, this work is planned for 2021 - 2023. In addition, we would like to mention the work on measuring adaptation to climate change of other ministries and scientific institutions of the Republic of Belarus.

The Ministry of Natural Resources and Environmental Protection of the Republic of Belarus prepared the following papers and reports:

- "Compilation of carbon balance of forests of the Republic of Belarus based on values of factors of carbon dioxide emission/absorption by above-ground phytomass, preparation of forecast of increase of absorption of greenhouse gas emissions by forests until 2030 and until 2050, preparation of a list of measures to increase greenhouse gas absorption in forestry"; <https://minpriroda.gov.by/uploads/files/Pogloschenie-parnikovyx-gazov.pdf>
- "Agroclimatic zoning of the territory of Belarus taking into account climate change"; <https://minpriroda.gov.by/uploads/files/Agroklimaticheskoe-zonirovanie-Respubliki-Belarus.pdf>
- "Vulnerability and adaptation to climate change"; <https://minpriroda.gov.by/uploads/files/Otsenka-ujazvimosti-Belarusi-Rus.pdf>
- "Strategic directions for adaptation of the Neman River Basin to climate change". <https://minpriroda.gov.by/uploads/files/Adaptatsija-reki-Neman-Rus.PDF>

The Ministry of Forestry of the Republic of Belarus has adopted:

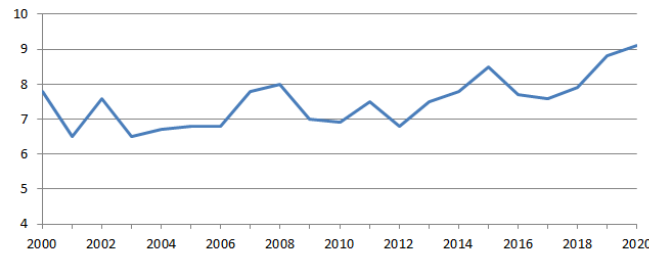
- The "2030 National Action Plan to increase carbon dioxide absorption by sinks" <https://minpriroda.gov.by/uploads/files/1-Minlesxoz-Nats.-plan-po-absorbtsii-1-2.pdf>
- The "Strategy of forestry adaptation to climate change in Belarus until 2050" <https://minpriroda.gov.by/uploads/files/2-Minlesxoz-Strategija-adaptatsii-l-x.pdf>
- The "National Action Plan on Forestry Adaptation to Climate Change in Belarus until 2030" <https://minpriroda.gov.by/uploads/files/3-Minlesxoz-Nats.-plan-po-adaptatsii.pdf>
- The Ministry of Agriculture and Food of the Republic of Belarus jointly with the National Academy of Sciences of Belarus developed and approved the 'Strategy of Adaptation of Agriculture to Climate Change until 2050' <https://minpriroda.gov.by/uploads/files/4-Minselxozprod-Strategija-adaptatsii-s-x.pdf>
- The State Scientific Institution "Institute of Nature Management" of the National Academy of Sciences of Belarus prepared the "Assessment of Climate Change Impact on Agroclimatic Resources of Belarus, Development and Implementation of Climate-Change Adaptation Measure".

Stakeholders

Ministry of Natural Resources and Environmental Protection of the Republic of Belarus

Example of the statistical output

**Annual average air temperatures in the Republic of Belarus for 2000 – 2020
(°C)**



Atmospheric precipitation in the Republic of Belarus, 1990-2020

		Time series data on the indicators for 1990-2020 r.r., Table B-2: Atmospheric precipitation: Belarus																				May 24, 2021				
		unit	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
		Belarus																								
1	Average precipitation for 1961 - 1990	mm	629																							
2	Annual precipitation	mm	732	613	655	679	553	658	703	647	640	635	689	811	729	583	757	671	567	540	742	761	581	574	589	
3	Annual deviation from the average precipitation	%	116%	97%	104%	107%	88%	98%	112%	103%	102%	101%	110%	129%	116%	93%	120%	107%	90%	86%	118%	121%	92%	91%	94%	
4	Maximum monthly precipitation	mm	145	88	161	108	130	108	92	116	191	145	97	137	88	129	120	78	101	78	133	113	147	80	103	
5	Minimum monthly precipitation	mm	31	28	6	34	19	20	38	18	8	21	31	11	27	12	40	28	14	11	24	31	21	7	15	
		Capital city: Minsk																								
6	Average precipitation for 1961 - 1990	mm	677																							
7	Annual precipitation	mm	769	656	588	714	588	616	809	784	728	589	684	892	830	651	833	677	609	565	756	787	649	656	614	
8	Annual deviation from the average precipitation	%	114%	97%	87%	105%	87%	91%	119%	113%	108%	87%	101%	127%	123%	96%	124%	100%	89%	83%	112%	116%	96%	97%	91%	
9	Maximum monthly precipitation	mm	136	89	82	135	143	154	130	170	250	122	103	185	147	133	132	109	174	101	135	150	169	120	135	
10	Minimum monthly precipitation	mm	29	22	2	23	14	12	38	26	7	15	23	5	21	8	32	20	10	7	34	25	29	4	10	
		Second major city: Gomel																								
11	Average precipitation for 1961 - 1990	mm	589																							
12	Annual precipitation	mm	724	551	718	687	506	605	602	806	752	616	577	903	669	503	834	677	636	505	627	610	616	473	588	
13	Annual deviation from the average precipitation	%	123%	94%	122%	117%	86%	103%	102%	135%	128%	105%	98%	153%	114%	85%	142%	115%	108%	86%	106%	104%	105%	81%	99%	
14	Maximum monthly precipitation	mm	118	103	237	117	105	136	68	101	172	124	75	231	125	98	115	123	148	76	106	116	186	119	139	
15	Minimum monthly precipitation	mm	28	14	6	27	12	13	27	3	9	10	24	5	11	5	39	29	2	6	18	17	15	8	8	
		Area or region with the maximum average precipitation: Vitebsk region																								
16	Average precipitation for 1961 - 1990	mm	657																							
17	Annual precipitation	mm	827	716	704	758	527	680	716	656	700	654	708	829	783	595	783	670	624	571	763	823	588	687	664	
18	Annual deviation from the average precipitation	%	126%	109%	107%	115%	80%	104%	109%	100%	107%	100%	107%	126%	116%	91%	119%	102%	95%	87%	113%	125%	89%	105%	101%	
19	Maximum monthly precipitation	mm	150	106	177	117	119	106	92	147	217	111	100	142	115	98	110	100	121	94	144	122	140	128	129	
20	Minimum monthly precipitation	mm	14	35	14	34	10	17	19	22	7	21	26	15	19	11	37	35	11	11	35	28	25	4	17	
		Area or region with the minimum average precipitation: Gomel region																								
21	Average precipitation for 1961 - 1990	mm	612																							
22	Annual precipitation	mm	742	557	667	653	550	623	724	629	646	640	698	835	656	600	843	680	533	520	719	712	599	522	563	
23	Annual deviation from the average precipitation	%	121%	91%	109%	107%	90%	102%	118%	102%	106%	105%	114%	136%	107%	98%	138%	108%	87%	83%	117%	116%	98%	83%	92%	
24	Maximum monthly precipitation	mm	175	90	157	94	125	119	102	85	133	171	109	168	102	142	128	84	118	99	161	109	132	84	93	

More details

Data sources used	Regular activity
Frequency	Regular
Coverage (national/subnational)	National
Links with results and more information	<p>https://www.belstat.gov.by/en/ofitsialnaya-statistika/macro-economy-and-environment/okruzhayuschaya-sreda/publications_2/index_40954/</p> <p>http://sdgplatform.belstat.gov.by/en/sites/belstatfront/home.html</p> <p>https://www.belstat.gov.by/en/ofitsialnaya-statistika/macro-economy-and-environment/okruzhayuschaya-sreda/the-shared-environmental-information-system/b-sclimate-change/</p>