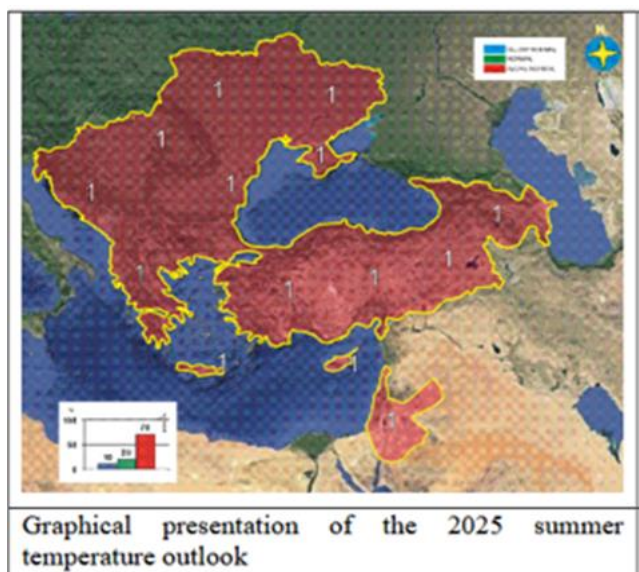


VERIFICATION OF THE SEECOF- 33 SUMMER 2025 CLIMATE OUTLOOK FOR THE TERRITORY OF UKRAINE COMPARED TO THE 1991–2020 BASE PERIOD

Temperature

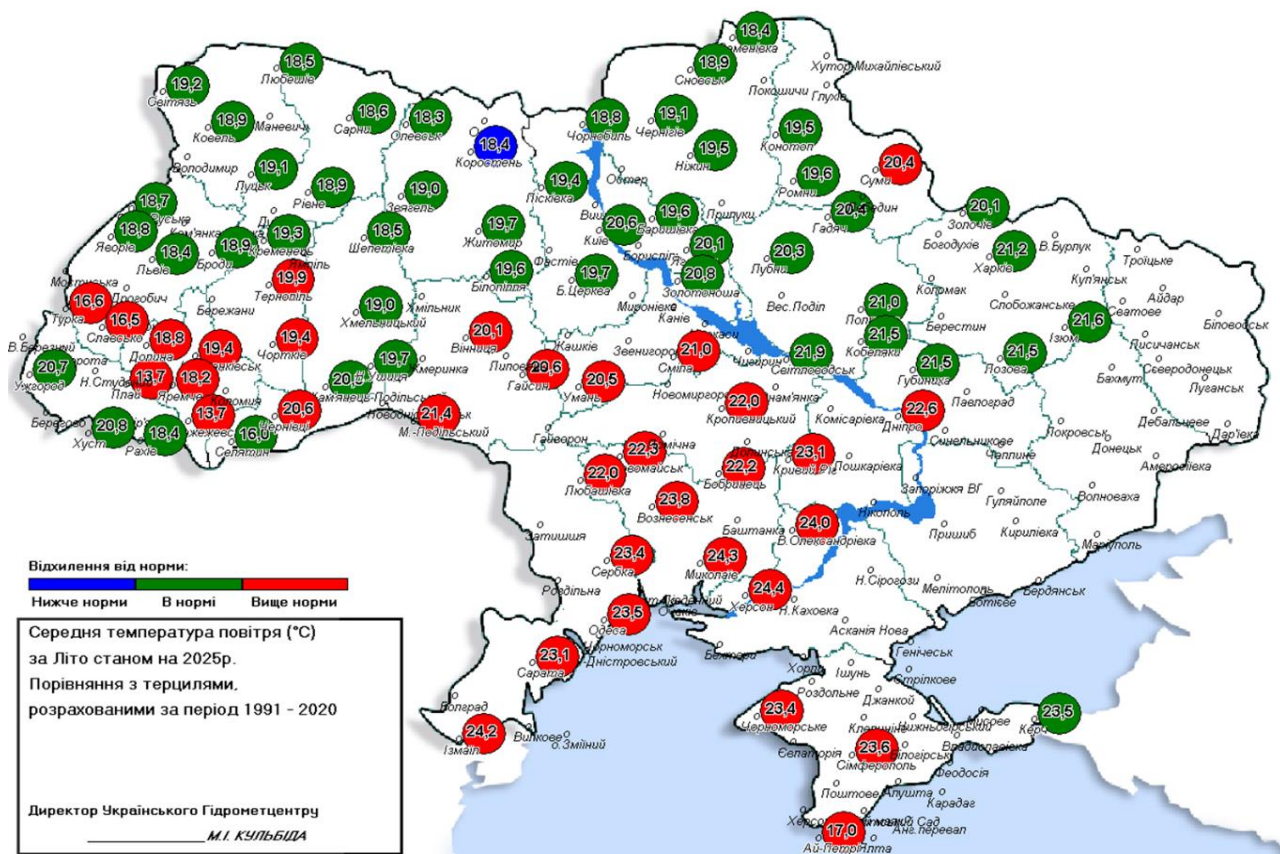


According to the SEECOF-33 outlook for the summer 2025 in Ukraine, seasonal temperature was expected warmer (upper tercile) with 70% probability in the entire territory of Ukraine compared to the 1991–2020 climatological base period.

Climatological monitoring showed that the summer 2025 was warm in southern part of Ukraine with above normal temperature based on the tercile method (Figure 1).

Verification showed that outlook was not correct in the entire territory.

Figure 1



Note: Tercile analysis of meteorological elements was performed on the basis of the data obtained from 80 meteorological stations.

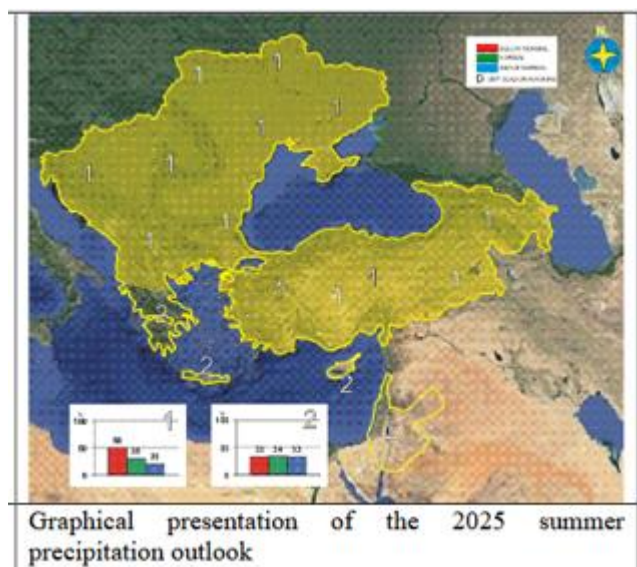
Summer 2025			Air Temperature (°C) 1991-2020 base period				
synop		Station	Rank	33	50	66	Observed
1	33526	Ivano-Frankivsk	11	18,4	18,9	19,1	19,4
2	33889	Izmail	5	22,5	22,9	23,0	24,2
3	33415	Izyum	14	20,8	21,3	21,6	21,6
4	33998	Ai-Petri	6	15,4	16,0	16,3	17,0
5	33464	Bila Cerkva	24	19,0	19,8	20,2	19,7
6	33446	Bilopilla	16	18,7	19,4	19,8	19,6
7	33354	Baryshyvka	23	19,1	19,6	20,1	19,6
8	33717	Bobryniec	8	21,0	21,5	21,7	22,2
9	33297	Brody	19	18,4	18,7	19,2	18,9
10	33862	V.Oleksandrivka	5	22,0	22,5	23,0	24,0
11	33562	Vinnytsa	11	18,6	19,2	19,7	20,1
12	33777	Voznesensk	7	22,1	22,6	22,8	23,8
13	33376	Hadyach	21	20,0	20,3	20,8	20,4
14	33577	Haisyn	15	19,4	20,2	20,4	20,6
15	34407	Hybynyha	23	21,2	21,6	21,8	21,5
16	34504	Dnipro	9	21,7	22,1	22,2	22,6
17	33524	Dolyna	10	17,8	18,1	18,5	18,8
18	33325	Zhytomyr	15	18,8	19,3	19,8	19,7
19	333312	Zviahel	23	18,4	19,1	19,6	19,0
20	33484	Zolotonosha	19	20,2	20,7	21,1	20,8
21	34208	Zolochiv	25	19,7	20,3	20,6	20,1
22	33548	Kamyanec-Podilskiy	18	19,2	19,7	20,2	20,0
23	33983	Kerch	17	22,6	23,1	23,6	23,5
24	33345	Kyiv	21	19,6	20,6	20,8	20,6
25	33621	Kobeliaky	20	21,1	21,4	21,8	21,5
26	33173	Kovel	20	18,5	18,8	19,3	18,9
27	33261	Konotop	25	19,5	19,8	20,3	19,5
28	33215	Korosten	29	18,5	19,0	19,5	18,4
29	33299	Kremenec	16	18,5	18,8	19,3	19,3
30	33791	Kryvyi Rih	7	21,0	21,8	22,0	23,1
31	33711	Kropyvnytskyi	8	20,3	20,8	21,1	22,0
32	34409	Lozova	21	20,9	21,4	21,7	21,5

33	33377	Lubny	25	20,0	20,6	21,0	20,3
34	33187	Lutck	20	18,6	18,8	19,4	19,1
35	33393	Lviv	20	18,0	18,2	18,7	18,4
36	33761	Liybashivka	6	20,5	21,0	21,3	22,0
37	33075	Lubeshiv	26	18,3	18,8	19,2	18,5
38	33663	Mohyliv-Podilskyi	16	20,1	20,6	21,1	21,4
39	33846	Mykolaiv	5	22,5	22,8	23,0	24,3
40	33557	Nova Ushytsa	17	19,0	19,4	19,8	19,7
41	33246	Nizhyn	23	19,1	19,5	19,9	19,5
42	33837	Odesa	8	21,9	22,6	22,9	23,5
43	33203	Olevsk	24	18,1	18,7	19,2	18,3
44	33228	Piskivka	25	21,0	21,9	22,2	22,3
45	33699	Pervomaisk	13	18,9	19,8	20,1	19,4
46	33515	*Play	8	12,2	12,7	13,1	13,7
47	33646	Pozhezhevska	6	12,1	12,6	12,9	13,7
48	33506	Poltava	21	20,6	20,9	21,2	21,0
49	33301	Rivne	18	18,4	18,7	19,3	18,9
50	33287	Rava-Ryska	17	18,1	18,4	18,9	18,7
51	33647	Rahiv	18	17,7	18,1	18,6	18,4
52	33268	Romny	24	19,3	19,8	20,2	19,6
53	33946	Simferopol	4	21,6	22,1	22,5	23,6
54	33896	Sarata	7	22,0	22,2	22,6	23,1
55	33088	Sarny	26	18,5	19,1	19,6	18,6
56	33614	Svitlovodsk	17	21,3	21,6	22,0	21,9
57	33067	Svityaz	17	18,7	19,0	19,3	19,2
58	33657	Selyatyn	15	15,2	15,7	16,0	16,0
59	33049	Semenivka	31	18,4	18,8	19,2	18,4
60	33833	Serbka	6	21,8	22,3	22,6	23,4
61	33516	Slavsko	13	15,5	15,9	16,4	16,5
62	33593	Smila	16	20,0	20,6	20,8	21,0
63	33136	Snovsk	30	18,9	19,4	19,7	18,9
64	33275	Symy	12	19,4	19,6	20,1	20,4
65	33415	Ternopil	4	18,1	18,4	18,9	19,9
66	33511	Tyrka	14	15,8	16,1	16,5	16,6

67	33631	Uzhhorod	18	20,2	20,6	20,9	20,7
68	33587	Uman	15	19,4	20,1	20,4	20,5
69	34300	Kharkiv	23	20,6	21,3	21,5	21,2
70	33902	Kherson	4	22,3	22,8	23,4	24,4
71	33429	Khmelnitskiy	18	18,2	18,6	19,2	19,0
72	33638	Khyst	13	19,9	20,4	20,8	20,8
73	33658	Chernivci	9	19,4	19,7	20,0	20,6
74	33135	Chernihiv	28	19,0	19,5	20,0	19,1
75	33924	Chornomorske	5	22,2	22,5	22,9	23,4
76	33536	Chortkiv	15	18,7	19,0	19,3	19,4
77	33317	Shepetivka	24	18,3	18,6	19,2	18,5
78	33392	Yavoriv	18	18,4	18,7	19,1	18,8
79	33356	Yahotyn	25	19,6	20,4	20,7	20,1
80	33645	Yaremche	5	16,7	17,3	17,5	18,2

Rank – 1961-2025 (warmest season), *Play – rank 1981-2025

Precipitation

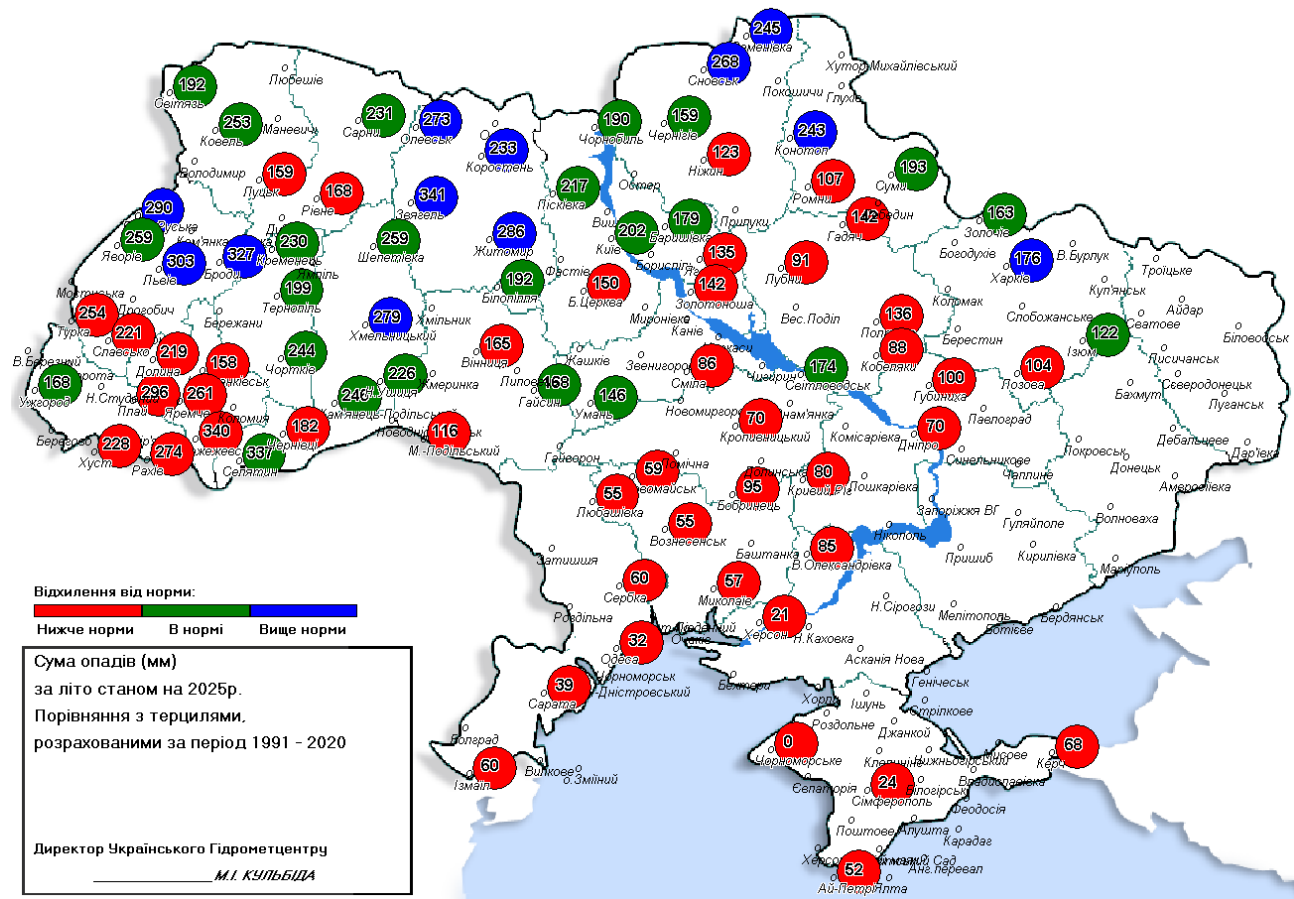


The SEECOF-33 climate outlook indicated dry conditions (50% probability) for the entire territory of Ukraine.

Monitoring of precipitation showed unequal distribution dry, normal and wet summer conditions across the country. In the western (withought Carpathians) and nothern parts were domitated nomal and wet conditions with separate dry places, in the rest of the territory were prevailed dry conditions based on the tercile method 1991–2020 climatological period (Figure 2).

Verification showed that outlook was corect for most of the country's territory (southern, central, Carpathians).

Figure 2



Note: Tercile analysis of meteorological elements was performed on the basis of the data obtained from 80 meteorological stations.

Summer 2025			Precipitation (mm) 1991-2020 base period				
synop		Station	Rank	33	50	66	Observed
1	33526	Ivano-Frankivsk	10	194	230	273	158
2	33889	Izmail	6	114	125	147	60
3	33415	Izyum	22	100	150	165	122
4	33998	Ai-Petri	1	134	154	211	52
5	33464	Bila Cerkva	16	155	189	218	150
6	33446	Bilopilla	20	175	198	222	192
7	33354	Baryshyvka	27	152	190	224	179
8	33717	Bobrynec	7	141	176	190	95
9	33297	Brody	52	201	232	288	327
10	33862	V.Oleksandrivka	4	124	142	170	85
11	33562	Vinnytsa	13	169	205	227	165
12	33777	Voznesensk	2	135	157	182	55
13	33376	Hadyach	13	148	171	174	142

14	33577	Haisyn	16	161	183	211	168
15	34407	Hybynyha	10	136	160	172	100
16	34504	Dnipro	3	130	143	162	70
17	33524	Dolyna	6	286	350	382	219
19	33325	Zhytomyr	50	170	224	251	286
20	333312	Zviahel	59	184	226	244	341
21	33484	Zolotonosha	11	165	178	195	142
22	34208	Zolochiv	29	141	167	195	163
23	33548	Kamyanec-Podilskiy	38	221	236	273	246
24	33983	Kerch	10	85	100	124	68
25	33345	Kyiv	28	172	201	221	202
26	33621	Kobeliaky	5	113	145	166	88
27	33173	Kovel	43	188	222	268	253
28	33261	Konotop	52	159	169	189	243
29	33215	Korosten	40	165	200	216	233
30	33299	Kremenec	27	213	233	280	230
31	33791	Kryvyi Rih	5	122	139	151	80
32	33711	Kropyvnytskyi	4	130	150	178	70
33	34409	Lozova	12	114	138	177	104
34	33377	Lubny	4	164	184	206	91
35	33187	Lutck	12	178	211	245	159
36	33393	Lviv	50	211	246	281	303
37	33761	Liybashivka	1	136	159	192	55
38	33075	Lubeshiv	10	176	226	274	219
39	33663	Mohyliv-Podilskyi	6	160	198	237	116
40	33846	Mykolaiv	3	99	108	118	57
41	33557	Nova Ushytsa	31	180	220	280	226
42	33246	Nizhyn	3	157	201	222	123
43	33837	Odesa	1	103	133	143	32
44	33203	Olevsk	42	195	217	259	273
45	33699	Pervomaisk	35	179	197	221	217
46	33515	*Play	1	142	169	201	59
47	33646	Pozhezhevska	12	301	393	442	296
48	33506	Poltava	7	391	448	466	340

49	33301	Rivne	17	146	166	186	136
50	33287	Rava-Ryska	16	186	230	252	168
51	33647	Rahiv	50	215	228	266	290
52	33268	Romny	14	278	307	338	274
53	33946	Simferopol	4	158	181	199	107
54	33896	Sarata	1	99	122	137	24
55	33088	Sarny	1	124	146	166	39
56	33614	Svitlovodsk	40	202	218	275	231
57	33067	Svityaz	36	143	164	203	174
58	33657	Selyatyn	27	181	206	231	192
59	33049	Semenivka	28	289	320	415	337
60	33833	Serbka	43	167	182	221	245
61	33516	Slavske	3	126	142	165	60
62	33593	Smila	5	282	366	419	221
63	33136	Snovsk	6	154	163	195	86
64	33275	Symy	51	150	177	214	268
65	33415	Ternopil	40	150	169	193	193
66	33228	Teteriv	25	167	211	254	199
67	33511	Tyrka	10	315	351	396	254
68	33631	Uzhhorod	13	168	204	228	168
69	33587	Uman	19	142	180	221	146
70	34300	Kharkiv	39	123	144	174	176
71	33902	Kherson	1	97	109	127	21
72	33429	Khmelnitskiy	42	220	240	254	279
73	33638	Khyst	18	230	254	310	228
74	33658	Chernivci	15	207	242	271	182
75	33135	Chernihiv	18	155	176	196	159
76	33924	Chornomorske	1	53	67	79	0
77	33536	Chortkiv	34	205	233	264	244
78	33317	Shepetivka	36	211	231	266	259
79	33392	Yavoriv	35	229	245	279	259
80	33356	Yahotyn	15	154	179	213	135
81	33645	Yaremche	9	358	400	485	261

Rank – 1961-2025 (driest season), *Play – rank 1981-2025

Assessment of the SEECOF-33 Climate outlook for summer 2025

Country	Seasonal Temperature (JJA)		Seasonal Precipitation (JJA)		High impact Events
	Observed	SEECOF-33 climate outlook	Observed	SEECOF-33 climate outlook	
Ukraine	above normal (40% stations) normal (59% stations) below normal (1% stations)	above normal	above normal (17 % stations) normal (29 % stations) below normal (54 % stations)	below normal	During summer meteorological extraordinary phenomenas were observed in many regions of the country. In June heavy rains 30-59 mm/2-5h were recorded in Ternopil, Khmelnytskyi, Sumy regions 06-08/06/2025 In July were three periods with heavy rains: 30-143 mm/12-24h were recorded in Zakarpattia, Lviv, Ternopil, Khmelnytskyi regions 08-10/07; 30-104 mm/12-24h were recorded in Zakarpattia, Chernivtsi, Ivano-Frankivsk, Ternopil, Khmelnytskyi regions 17-19/07; 30-55 mm/7-12h were recorded in Chernivtsi, Zhytomyr, Kyiv regions 27-29/07. Storm squalls (with speed 26 m/c) were fixed in Rivne region 24/07 and large hail (diameter 22 mm) in Chernihiv region 10/07. In August heavy rains 33-42 mm/4-8h were recorded in Zakarpattia, Chernivtsi, Lviv regions 17, 22/08. Locally caused loss power, telecommunications, utilities and transport. The summer was dry in most regions, except for the north-west of the country. June and August were the driest months in southern and central parts, when the amount of precipitation was from 2 to 19% of the norm.