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Information bulletin¹ № 8

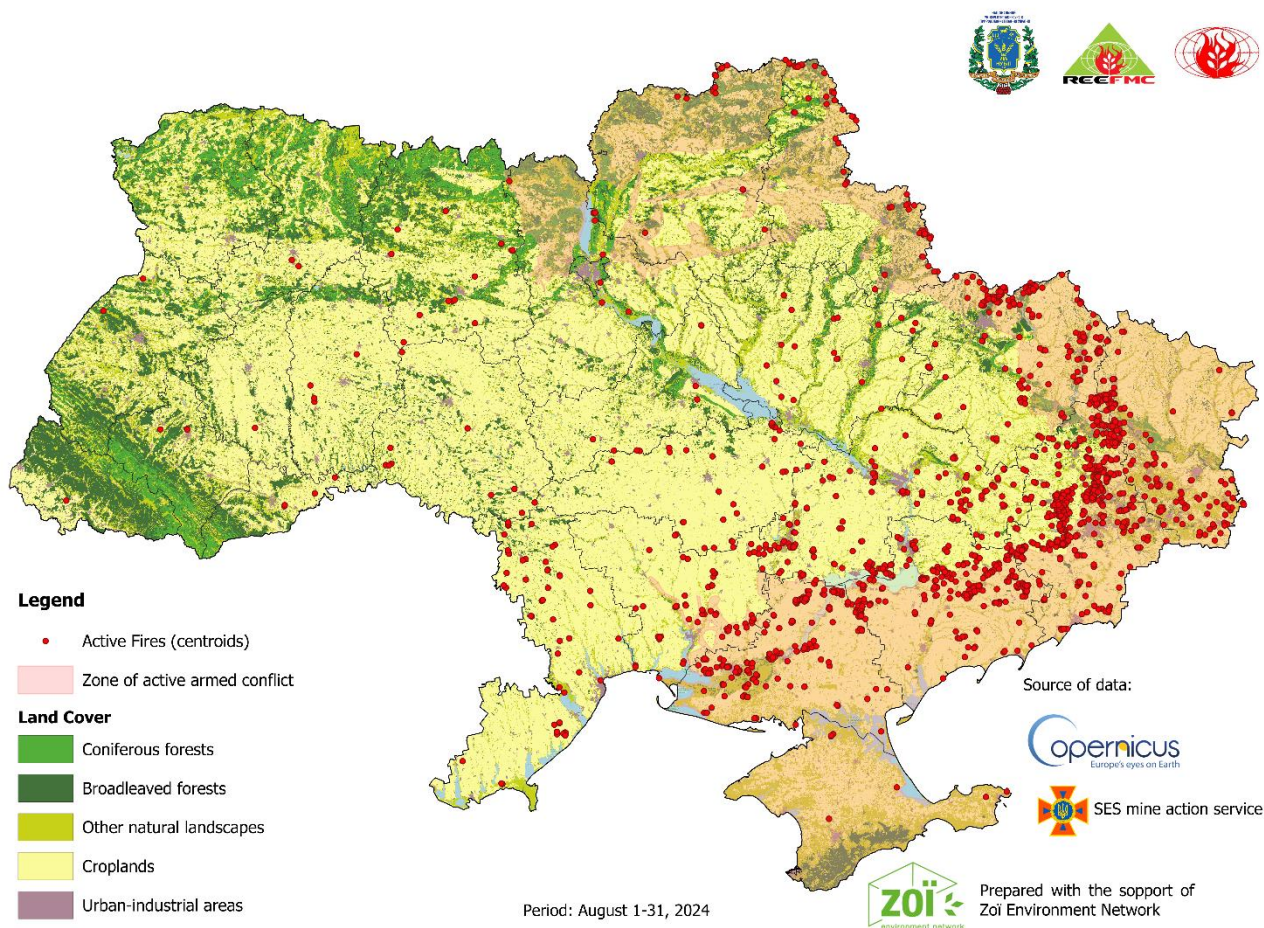
September 1, 2024

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.08.2024 to 31.08.2024

1. Map of active fires on the territory of Ukraine for the period of 01.08.2024 to 31.08.2024



¹ The bulletin was prepared with the financial support of the Swiss organization «Zoi Environment Network» www.zoinet.org

² Methodology for fire monitoring is presented on the last page of this bulletin

Table 1. Statistics of fires on the territory of Ukraine for the period of 01.06.2024 to 30.06.2024

Oblast	Numbers of fires	Area of fires, ha	Distribution of fire area by types of landscapes ² , ha					Area of fires in nature conservation zones ¹
			Forests	Thereof coniferous	Agricultural lands	Other natural landscapes	Settlements	
A	B	C	D	E	F	G	H	I
Cherkasy	8	228	8	5	102	116	2	17
Chernihiv	15	3415	1801	1585	984	611	19	632
Chernivtsi	4	48	1	0	31	16	0	0
Crimea	7	84	0	0	16	68	0	16
Dnipropetrovsk	155	10665	162	6	7284	3033	186	1864
Donetsk	544	42708	1537	547	28571	11058	1542	2121
Ivano-Frankivsk	3	87	0	0	50	35	2	0
Kharkiv	191	19829	2575	1495	11738	5298	218	2974
Kherson	189	15425	327	140	11179	3663	256	369
Khmelnitskyi	4	117	0	0	114	3	0	0
Kirovohrad	34	1269	9	0	1163	94	3	22
Kyiv	8	430	207	151	17	205	1	273
Luhansk	156	23034	3673	2323	6683	12589	89	9800
Lviv	2	49	3	1	29	17	0	0
Mykolaiv	58	3898	13	6	3358	508	19	25
Odesa	50	7851	42	0	1475	6327	7	6205
Poltava	16	283	14	0	144	124	1	54
Rivne	2	145	0	0	145	0	0	0
Sumy	54	4217	252	58	1975	1926	64	1053
Ternopil	1	19	0	0	19	0	0	0
Vynnytsia	11	126	5	0	105	16	0	5
Zakarpattia	1	19	0	0	17	2	0	0
Zaporizhzhia	199	15400	518	116	11845	2930	107	1368
Zhytomyr	15	1740	21	0	652	1065	2	0
Total, ha	1727	151086	11168	6433	87696	49704	2518	26798
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Chernihiv	15	3415	1801	1585	984	611	19	632
Dnipropetrovsk	48	4278	124	5	2529	1526	99	378
Donetsk	501	39397	1412	547	27212	9247	1526	447
Kharkiv	177	19524	2573	1495	11477	5257	217	2974
Kherson	183	15330	327	140	11109	3638	256	369
Kyiv	6	360	160	105	17	182	1	203
Luhansk	112	9102	2940	2323	2128	3953	81	4052
Mykolaiv	46	3586	13	6	3145	416	12	0
Sumy	54	4217	252	58	1975	1926	64	1053
Zaporizhzhia	187	15245	513	116	11806	2845	81	1265
Zhytomyr	5	23	0	0	20	2	1	0
Total, ha	1334	114477	10115	6380	72402	29603	2357	11373
%	77	76	91	99	83	60	94	42

Explanatory Note:

¹ In the research, we have used the network of nature conservation areas of European importance, which was created to implement the provisions of the Berne Convention on the Protection of Wild Flora and Fauna and Natural Habitats in Europe (Emerald Network) (<http://emerald.net.ua/>).

² Monthly totals in Columns B and C include the number of fires and area burned all over Ukraine (total of columns D, F, G and H).

³ Military Combat Zone: Permanent corridor spanning 30 km on each side of the LoC. The corridor is determined at the beginning of active military combat and continues to be included in the monitoring areas even after ending of

active military combat operations. Reason: Unexploded explosive ordnance remained in this area and continues to pose a threat of ignition. Direct impact of military operations - 60 km along frontline with both sides (30+30) of most intensive shelling and concentration of troops. Daily front line coordinates were provided by ZOI Network for define fires that occurred in the zone of direct impact (ZDI).

2. Map of fires in the nature conservation areas (Emerald Network) for the period from 01.08.2024 to 31.08.2024.

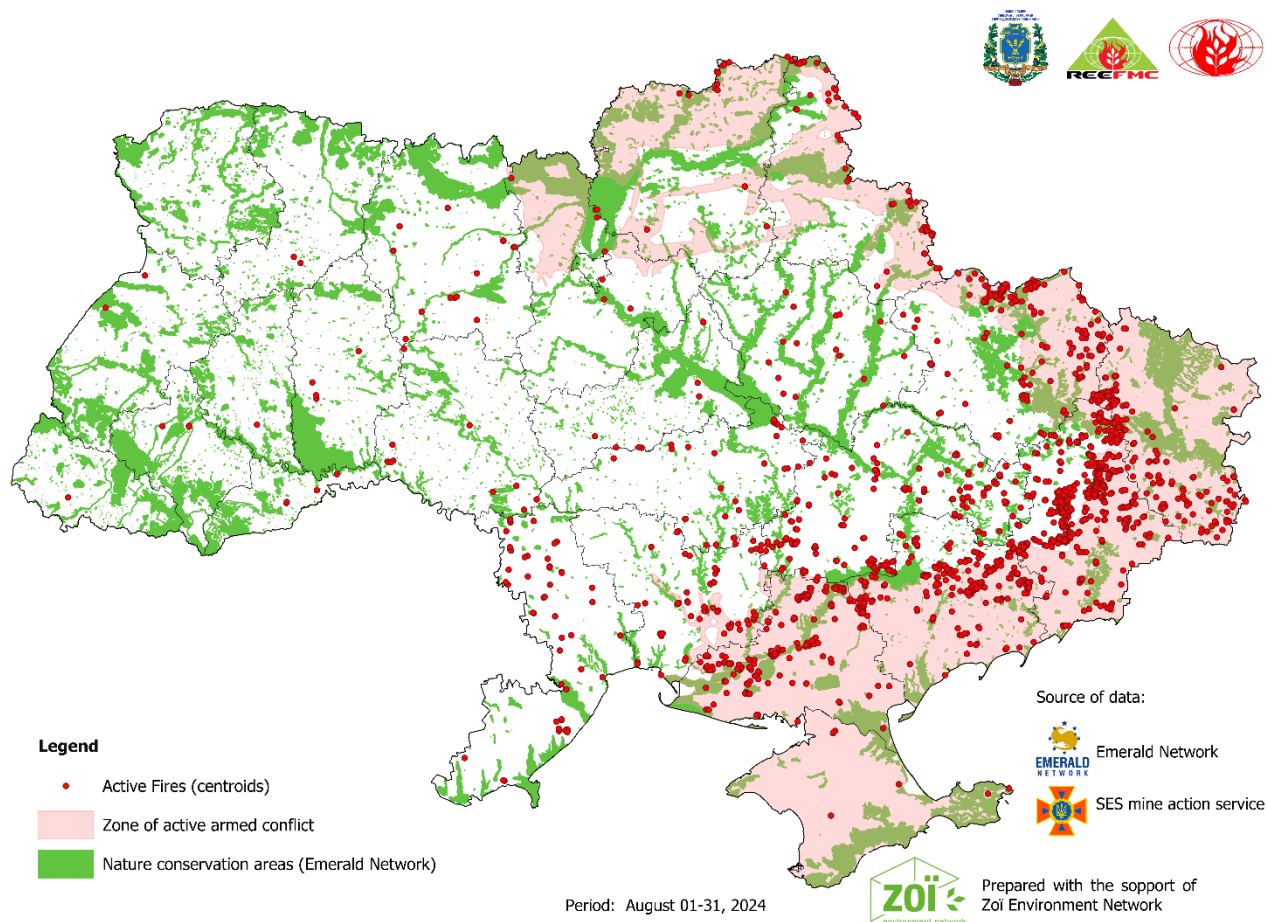


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.08.2024 to 31.08.2024

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes ² , ha				
		Forests	Thereof coniferous	Agricultural lands	Other natural landscapes	Settlements
A	B	C	D	E	F	G
Cherkasy	17	1	0	0	15	1
Chernihiv	632	356	306	125	151	0
Crimea	16	0	0	11	5	0
Dnipropetrovsk	1864	14	1	1396	454	0
Donetsk	2121	174	33	657	1290	0
Kharkiv	2974	1290	1007	527	1117	40
Kherson	369	66	30	2	296	5
Kirovohrad	22	0	0	22	0	0
Kyiv	273	191	146	0	81	1
Luhansk	9800	3066	2281	2701	4020	13
Mykolaiv	25	0	0	0	25	0
Odesa	6205	42	0	1	6162	0

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes ² , ha				
		Forests	Thereof coniferous	Agricultural lands	Other natural landscapes	Settlements
A	B	C	D	E	F	G
Poltava	54	12	0	6	36	0
Sumy	1053	116	56	118	813	6
Vinnitsia	5	5	0	0	0	0
Zaporizhzhia	1368	452	116	62	851	3
Total	26798	5785	3976	5628	15316	69
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Chernihiv	632	356	306	125	151	0
Dnipropetrovsk	378	7	0	355	16	0
Donetsk	447	60	33	244	143	0
Kharkiv	2974	1290	1007	527	1117	40
Kherson	369	66	30	2	296	5
Kyiv	203	144	100	0	58	1
Luhansk	4052	2731	2281	198	1110	13
Sumy	1053	116	56	118	813	6
Zaporizhzhia	1265	447	116	46	772	0
Total	11373	5217	3929	1615	4476	65
%	42	90	99	29	29	94

Explanatory Note:

¹ In the research, we have used the network of nature conservation areas of European importance, which was created to implement the provisions of the Berne Convention on the Protection of Wild Flora and Fauna and Natural Habitats in Europe (Emerald Network) (<http://emerald.net.ua/>).

² Monthly totals in Column B include the area burned of fires over Ukraine (total of columns C, E, F and G).

³ Military Combat Zone: Permanent corridor spanning 30 km on each side of the LoC. The corridor is determined at the beginning of active military combat and continues to be included in the monitoring areas even after ending of active military combat operations. Reason: Unexploded explosive ordnance remained in this area and continues to pose a threat of ignition. Direct impact of military operations - 60 km along frontline with both sides (30+30) of most intensive shelling and concentration of troops. Daily front line coordinates were provided by ZOI Network for define fires that occurred in the zone of direct impact (ZDI).

3. Methodology for fire monitoring

Daily front line coordinates were provided by ZOI Network for define fires that occurred in the zone of direct impact (ZDI). Distribution of burned land cover types within fire perimeters were mapped using the Copernicus Dynamic Land Cover map at 100 m resolution for 2019 ([Copernicus Global Land Operations "Vegetation and Energy"](https://land.copernicus.eu/global/sites/cgls.vito.be/files/products/CGLOPS1_ATBD_LC100m-V2.0_I2.00.pdf)), which provides a detailed description of land cover as of 2019 with a resolution of 100 m. Detailed information about the product - https://land.copernicus.eu/global/sites/cgls.vito.be/files/products/CGLOPS1_ATBD_LC100m-V2.0_I2.00.pdf.

The network of nature conservation areas of European importance, which was created to implement the provisions of the Berne Convention on the Protection of Wild Flora and Fauna and Natural Habitats in Europe (Emerald Network) (<http://emerald.net.ua/>), was used for the analysis of areas of nature conservation value that were affected by fires.

The analysis was performed using a free geographic information system. QGIS (3.2.1), which is one of the most functional and convenient desktop geographic information systems.