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## **Information Bulletin<sup>1</sup> № 26**

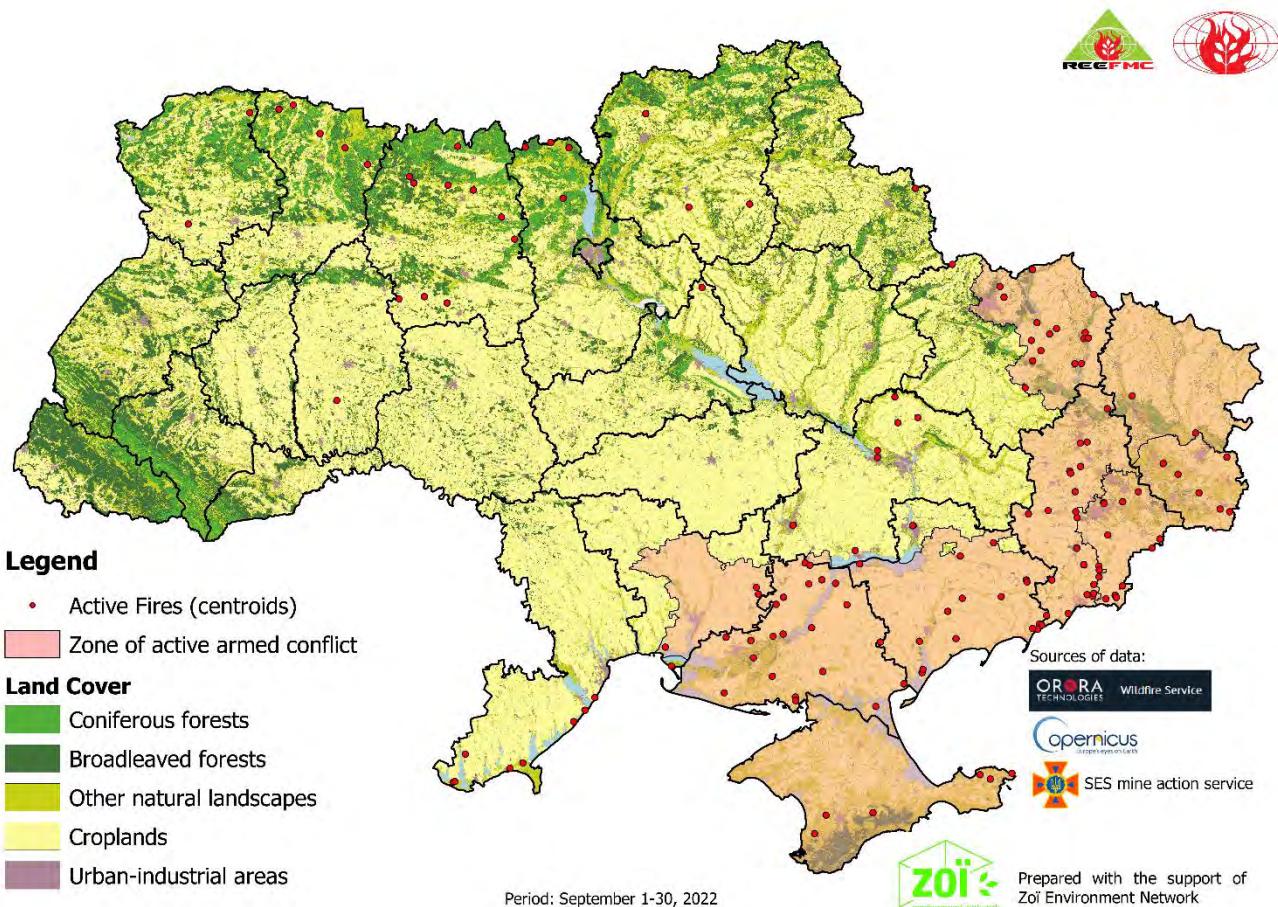
**01 October 2022**

### **FIRE ON THE TERRITORY OF UKRAINE**

**(in ecosystems, agricultural lands and in cities<sup>2</sup>)**

**For the period of 01.09.2022 to 30.09.2022**

#### **1. Map of active fires on the territory of Ukraine for the period of 01.09.2022 to 30.09.2022**



<sup>1</sup> The bulletin was prepared with the financial support of the Swiss organization «Zoi Environment Network» [www.zoinet.org](http://www.zoinet.org)

<sup>2</sup> 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 01.09.2022 to 30.09.2022**

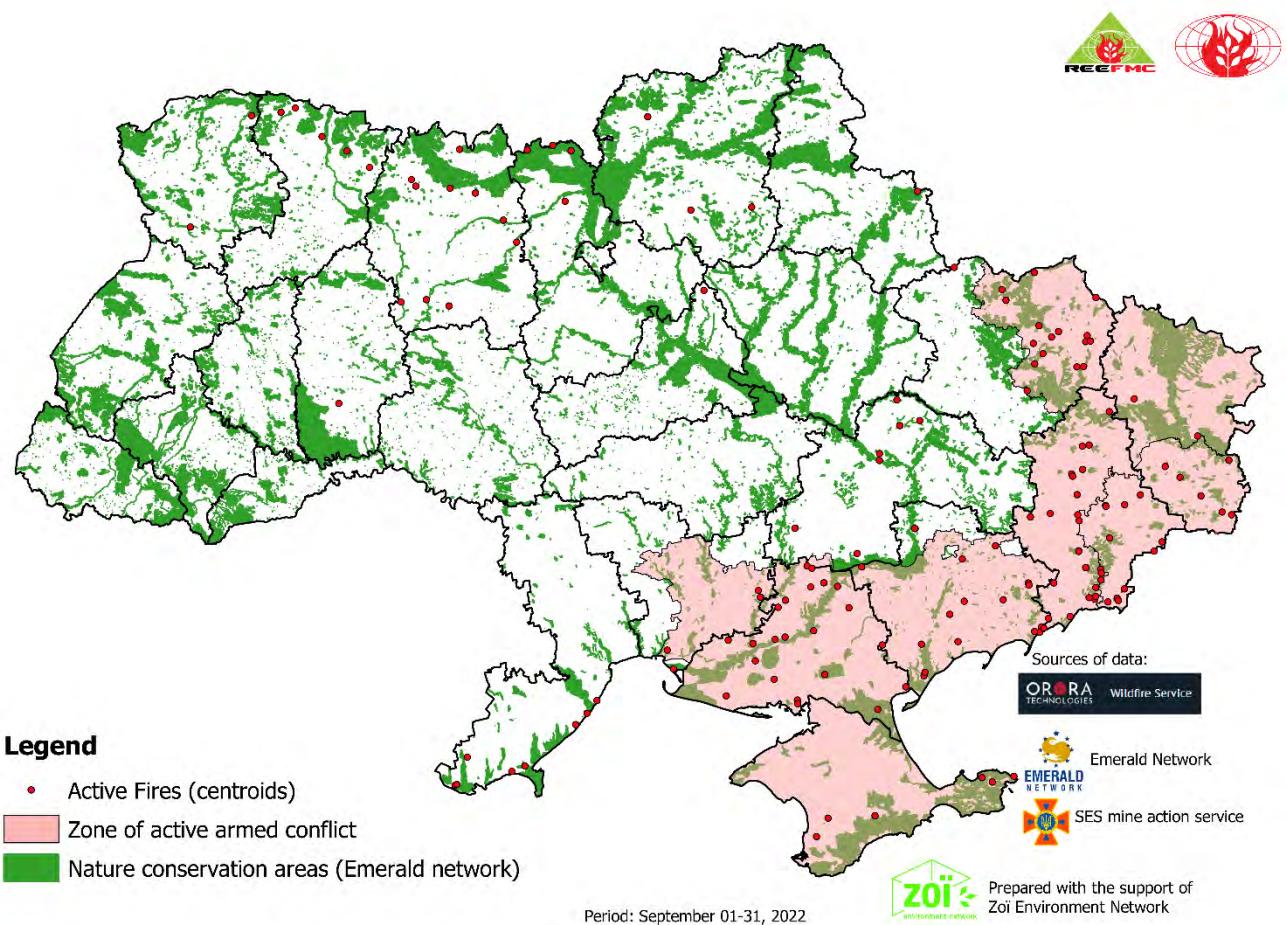
Oblast	Numbers of fires	Area of fires, ha	Distribution of fire area by types of landscapes, ha					Area of fires in nature conservation zones <sup>1</sup>
			forests	including coniferous	agriculture lands	other natural landscapes	settlements	
Crimea	9	4682	0	0	1950	2731	1	791
Volyn	4	750	0	0	484	254	12	166
Dnipropetrovsk	14	4182	32	0	1842	528	1780	43
Donetsk	61	22389	390	9	15341	5774	884	2746
Zhytomyr	13	3160	239	134	2200	647	74	445
Zaporizhzhia	27	9876	132	37	6933	1506	1305	216
Kyiv	9	28814	23678	15682	282	4850	4	14087
Luhansk	12	6751	202	0	3200	1543	1806	2
Mykolaiv	6	2001	352	40	1059	590	0	516
Odesa	10	9770	0	0	1754	7979	37	3287
Rivne	6	2920	683	392	448	1789	0	673
Sumy	4	330	17	0	118	195	0	135
Kharkiv	27	10878	1985	1098	4953	3107	833	713
Kherson	29	9210	151	2	6207	2602	250	974
Khmelnytskyi	1	306	2	0	297	1	6	0
Cherkasy	1	316	5	0	145	137	29	0
Chernihiv	3	760	7	0	648	102	3	0
<b>Total, ha</b>	<b>236</b>	<b>117095</b>	<b>27875</b>	<b>17394</b>	<b>47861</b>	<b>34335</b>	<b>7024</b>	<b>24794</b>
<i>Including on dangerous and occupied territories</i>								
Crimea <sup>2</sup>	3	643	0	0	86	551	6	10
Dnipropetrovsk <sup>2</sup>	2	98	5	0	56	37	0	21
Donetsk <sup>2</sup>	191	127439	4298	962	90028	26847	6266	6345
Zaporizhzhia <sup>2</sup>	100	66668	613	70	56684	8635	736	2409
Luhansk <sup>2</sup>	51	35540	2107	425	17208	14125	2100	3449
Mykolaiv <sup>2</sup>	27	11481	400	349	9746	1236	99	1259
Kharkiv <sup>2</sup>	41	22716	4476	2516	12620	4825	795	6163
Kherson <sup>2</sup>	81	49399	3348	1709	34019	11544	488	10384
<b>Total, ha</b>	<b>496</b>	<b>313984</b>	<b>15247</b>	<b>6031</b>	<b>220447</b>	<b>67800</b>	<b>10490</b>	<b>30040</b>
<b>%</b>	<b>81,8</b>	<b>84,5</b>	<b>55,2</b>	<b>50,9</b>	<b>88,8</b>	<b>82,2</b>	<b>78,4</b>	<b>61,0</b>

*Note:*

<sup>1</sup> 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/>).

<sup>2</sup> The zone of military operations and occupied territories obtained according to the official information of the State Emergency Service of Ukraine – Interactive map of territories that could potentially be contaminated by explosive objects (Unexploded Ordnance – UXO) (<https://mine.dsns.gov.ua/>).

**2. Map of fires in the areas of nature conservation (Emerald network) for the period of 01.09.2022 to 30.09.2022**



**Table 2. Statistics of fires in the areas of nature conservation (Emerald network) for the period of 01.09.2022 to 30.09.2022**

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes, ha				
		forests	including coniferous	agriculture lands	other natural landscapes	settlements
Crimea	791	0	0	286	505	0
Volyn	166	0	0	88	78	0
Dnipropetrovsk	43	0	0	1	21	21
Donetsk	2746	6	0	1170	1551	19
Zhytomyr	445	73	52	310	62	0
Zaporizhzhia	216	33	18	33	146	4
Kyiv	14087	11597	7643	140	2349	1
Luhansk	2	0	0	1	1	0
Mykolaiv	516	176	20	45	295	0
Odesa	3287	0	0	31	3256	0
Rivne	673	119	35	0	554	0
Sumy	135	8	0	39	88	0
Kharkiv	713	263	170	132	316	2
Kherson	974	5	0	458	493	18
<b>Total, ha</b>	<b>24794</b>	<b>12280</b>	<b>7938</b>	<b>2734</b>	<b>9715</b>	<b>65</b>

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes, ha				
		forests	including coniferous	agriculture lands	other natural landscapes	settlements
<i>Including on dangerous and occupied territories</i>						
Crimea <sup>2</sup>	791	0	0	286	505	0
Donetsk <sup>2</sup>	2735	6	0	1169	1541	19
Zaporizhzhia <sup>2</sup>	216	33	18	33	146	4
Luhansk <sup>2</sup>	2	0	0	1	1	0
Mykolaiv <sup>2</sup>	43	0	0	43	0	0
Kharkiv <sup>2</sup>	704	263	170	127	312	2
Kherson <sup>2</sup>	974	5	0	458	493	18
<b>Total, ha</b>	<b>5465</b>	<b>307</b>	<b>188</b>	<b>2117</b>	<b>2998</b>	<b>43</b>
<b>%</b>	<b>22,0</b>	<b>2,5</b>	<b>2,4</b>	<b>77,4</b>	<b>30,9</b>	<b>66,2</b>

*Note:*

<sup>1</sup> 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/>).

<sup>2</sup> The zone of military operations and occupied territories obtained according to the official information of the State Emergency Service of Ukraine – Interactive map of territories that could potentially be contaminated by explosive objects (Unexploded Ordnance – UXO) (<https://mine.dsns.gov.ua/>).

### 3. Methodology for fire monitoring

Spatial-temporal analysis of fires in Ukraine was performed using the information service [OroraTech](#), which, based on data aggregated from 20 satellites, allows to obtain information about fires in a particular area (detailed information about the resource - [https://ororatech.com/static/OroraTech\\_Service\\_Description.pdf](https://ororatech.com/static/OroraTech_Service_Description.pdf)).

To analyze the area affected by fires by type of landscape, we used information on the land cover of [Copernicus Global Land Operations "Vegetation and Energy"](#), 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](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.