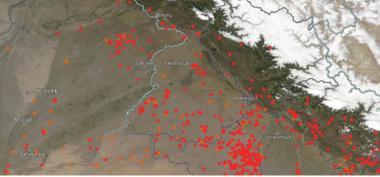
MONITORING WHEAT RESIDUE BURNING IN PUNJAB USING GEOSPATIAL TECHNOLOGIES 2024











Prepared By: Punjab Remote Sensing Centre, Ludhiana, Punjab for

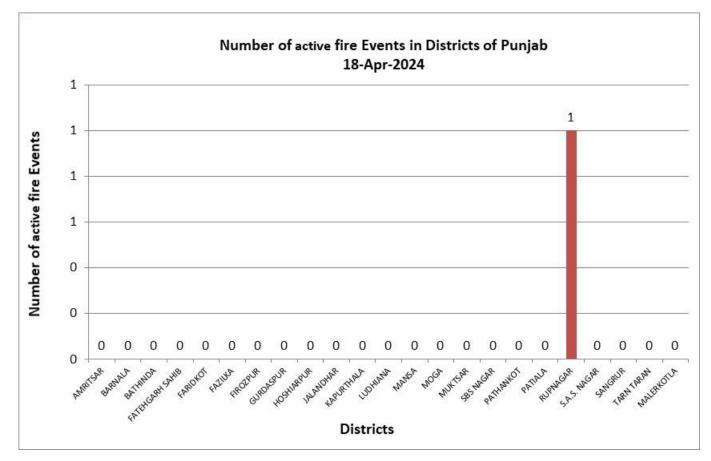


Punjab Pollution Control Board, Patiala, Punjab

Highlights for 18 April 2024

• The active fire incidents due to wheat residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data" developed on the directions of "Commission for Air Quality Management in National Capital Region and Adjoining Areas".

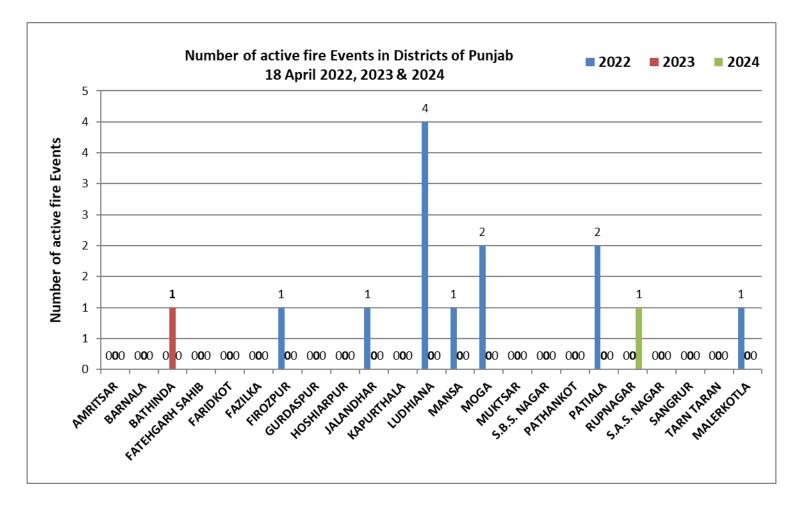
• Satellites detected 01 incidents in the Punjab State on 18 April 2024.

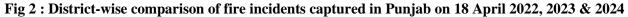


District-wise Active Fire Events in Punjab

Fig. 1. District-wise fire incidents (Total events = 01) captured by Satellite in Punjab on 18 April 2024

On April, 18 2024, 01 active fire incidents were captured by the Satellite in state of Punjab.





On April, 18 2024, 01 active fire events were captured by the Satellite in state of Punjab. Whereas on the same day (i.e. April 18), in the year 2022, 12 active fire events were captured and in the year 2023 there were 01 active fire events in state of Punjab.

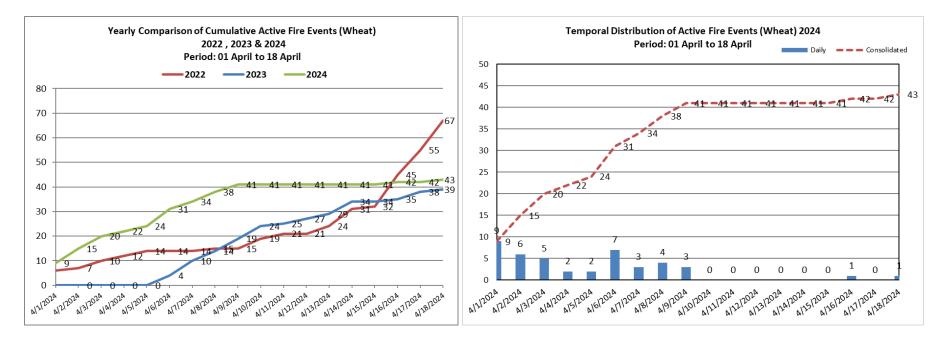
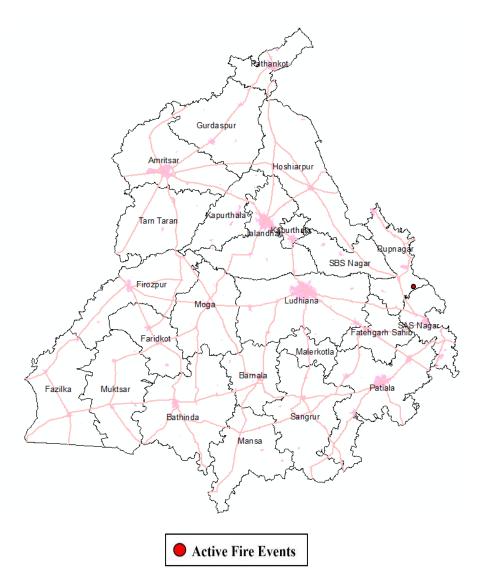


Fig 3 : Cumulative fire incidents captured in Punjab upto

18 April 2022, 2023 & 2024

Fig 4: Date-wise Cumulative fire incidents captured in Punjab upto

18 April 2024



Map.1. Active fire locations detected in Punjab on 18 April 2024 by Satellite

S.N.	Latitude	Longitude	Detection_ Confidenc e	Radiative_ power (W/m2)	sat	Acq-date	acqtime	District	Tehsil	Block	Village	Hadb ast No	Thana
1	30.91767	76.633770	8	6.5	npp	4/18/202	1:48:13	Rupnagar	Rupn	Rupnaga	Purkhal	376	Sadar
	0					4	PM		agar	r	i		Rupnagar

Table.1. Active fire locations detected in Punjab on 18 April 2024 by Satellite

The data from following Satellites received at NRSC Ground Station were used

S. No.	Satellite Name	Sensor	Resolution (m)	Day/Night Passses
1	Suomi NPP	VIIRS	375	Both
2	Terra	MODIS	1000	Both
3	Aqua	MODIS	1000	Both

The Wheat mask for the States was provided by MNCFC, MoA&FW, Govt. of India

GIS Maps of fire events can be visualized online on Crop Residue Burning (CRB) Information and Management System of **Punjab Remote Sensing Centre**, Ludhiana by following the link: <u>http://202.164.39.172/residue/Index.aspx</u>