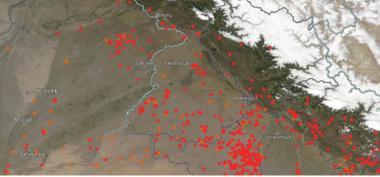
MONITORING WHEAT RESIDUE BURNING IN PUNJAB USING GEOSPATIAL TECHNOLOGIES 2024











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

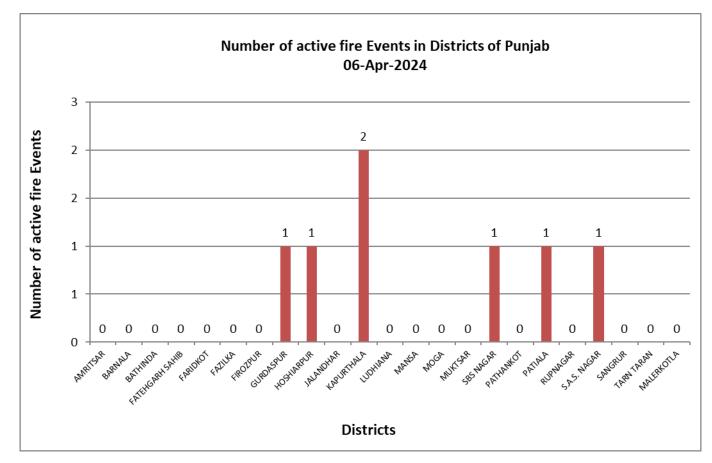


Punjab Pollution Control Board, Patiala, Punjab

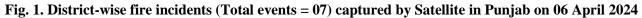
Highlights for 06 April 2024

• 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".

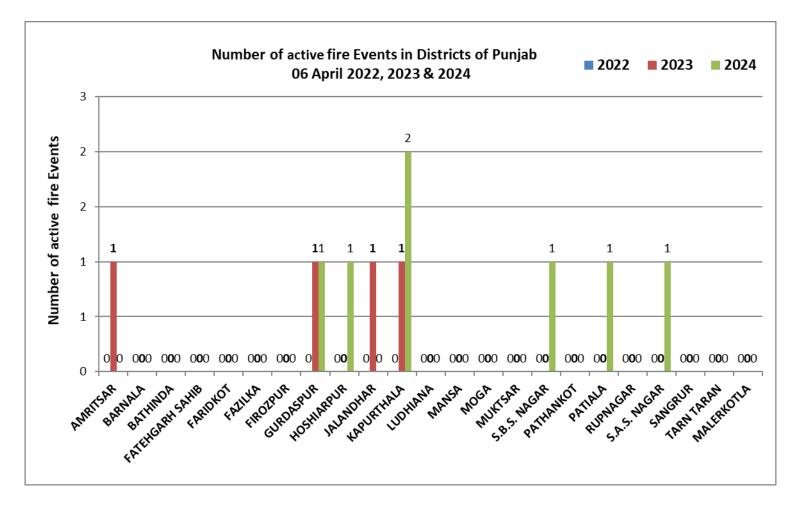
• Satellites detected 07 incidents in the Punjab State on 06 April 2024.

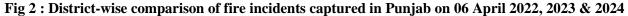


District-wise Active Fire Events in Punjab



On April, 06 2024, 07 active fire incidents were captured by the Satellite in state of Punjab.





On April, 05 2024, 07 active fire events were captured by the Satellite in state of Punjab. Whereas on the same day (i.e. April 06), in the year 2022, 00 active fire events were captured and in the year 2023 there were 04 active fire events in state of Punjab.

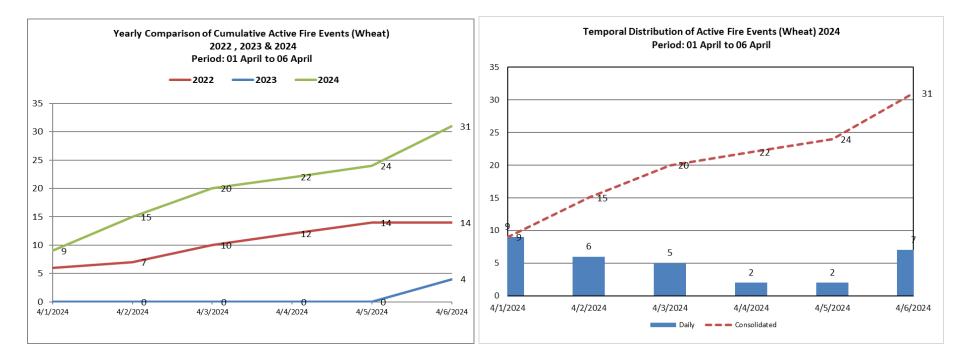
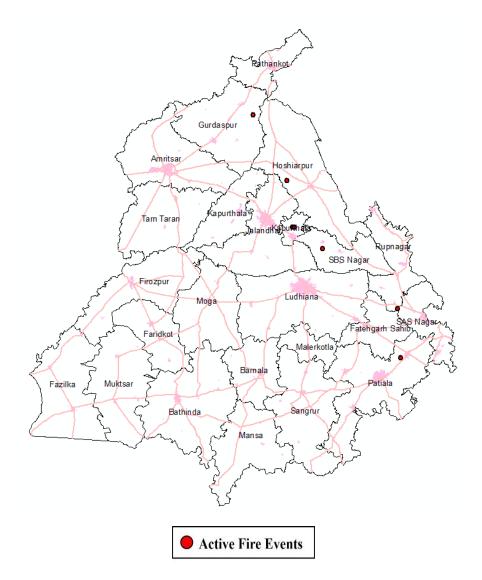


Fig 3 : Cumulative fire incidents captured in Punjab upto

06 April 2022, 2023 & 2024

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

06 April 2024



Map.1. Active fire locations detected in Punjab on 06 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	31.97536	75.49340	8	3.6	npp	4/6/2024	2:13:17 PM	Gurdaspur	Gurda spur	Kahnuw an	Fateh Pur	618	Purana Shalla Gurdaspur
2	31.56659	75.73714	8	4.1	npp	4/6/2024	12:33:0 0 PM	Hoshiarpur	Hoshi arpur	Hoshiarp ur 1	Koont	122	Bullowal Hoshiarpur
3	31.27800	75.77400	75	26.6	mod	4/6/2024	10:19:0 7 AM	Kapurthala	Phag wara	Phagwar a	Hargob ind Garh	59	Sadar, Phagwara
4	31.27600	75.79100	53	9.1	mod	4/6/2024	10:19:0 7 AM	Kapurthala	Phag wara	Phagwar a	Khatti	57	Sadar, Phagwara
5	30.45700	76.54400	64	10.2	mod	4/6/2024	2:18:14 PM	Patiala	Rajpu ra	Shambu Kalan	Sardar Garh	67	Kheri Gandian Patiala
6	30.76100	76.53000	58	8.7	mod	4/6/2024	10:19:0 7 AM	SAS Nagar	Khara r	Kharar	Machhi Pur	387	Kharar Mohali
7	31.14200	75.99100	55	8.9	mod	4/6/2024	10:19:0 7 AM	SBS Nagar	Nawa n Shahr	Aur	Gunac haur	91	Sadar Banga Sbs Nagar

Table.1. Active fire locations detected in Punjab on 06 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>