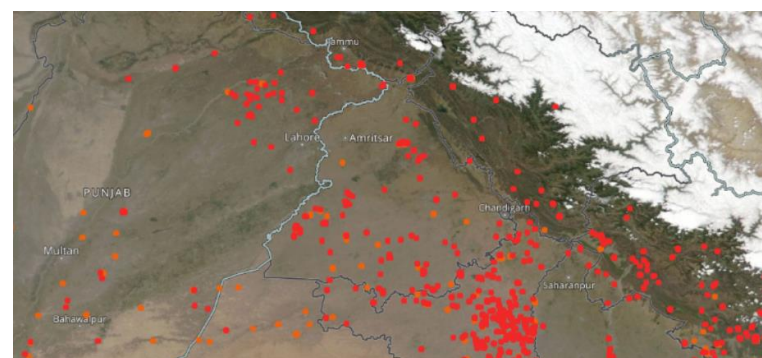


MONITORING WHEAT RESIDUE BURNING IN PUNJAB USING GEOSPATIAL TECHNOLOGIES 2024



Prepared By:
Punjab Remote Sensing Centre, Ludhiana, Punjab
for
Punjab Pollution Control Board, Patiala, Punjab



Highlights for 14 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 00 incidents in the Punjab State on 14 April 2024.

District-wise Active Fire Events in Punjab

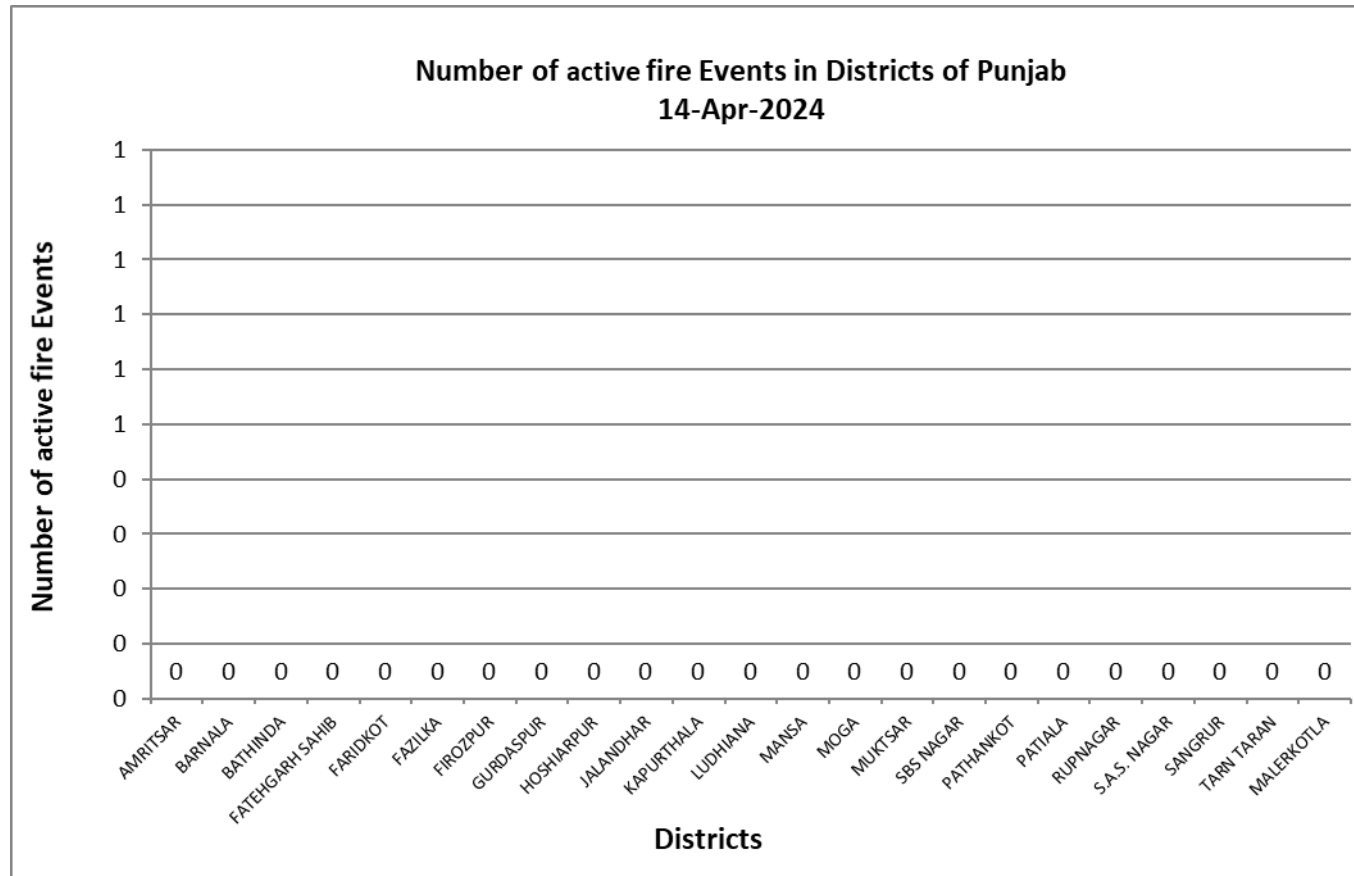


Fig. 1. District-wise fire incidents (Total events = 00) captured by Satellite in Punjab on 14 April 2024

On April, 14 2024, 00 active fire incidents were captured by the Satellite in state of Punjab.

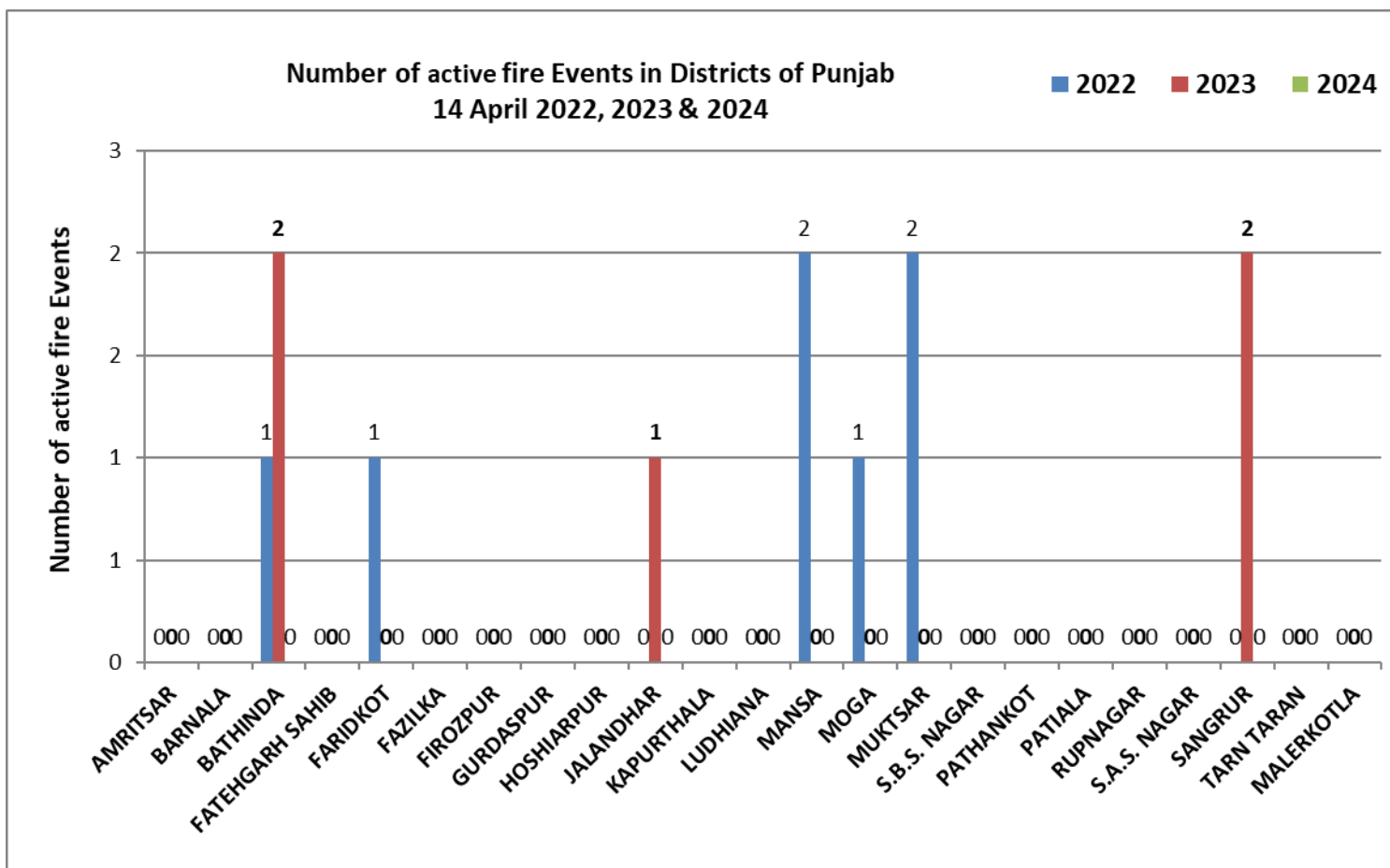


Fig 2 : District-wise comparison of fire incidents captured in Punjab on 14 April 2022, 2023 & 2024

On April, 14 2024, 00 active fire events were captured by the Satellite in state of Punjab. Whereas on the same day (i.e. April 14), in the year 2022, 07 active fire events were captured and in the year 2023 there were 05 active fire events in state of Punjab.

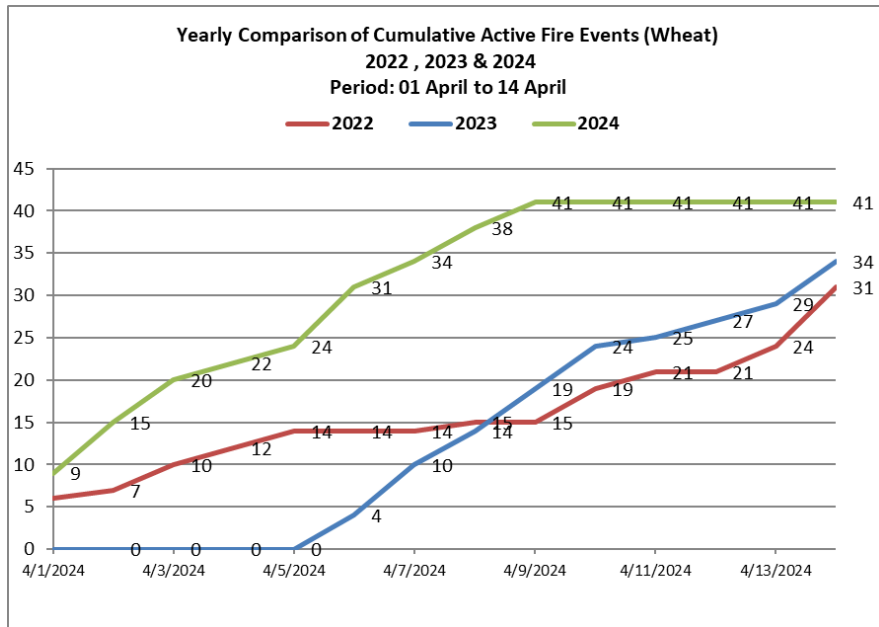


Fig 3 : Cumulative fire incidents captured in Punjab upto 14 April 2022, 2023 & 2024

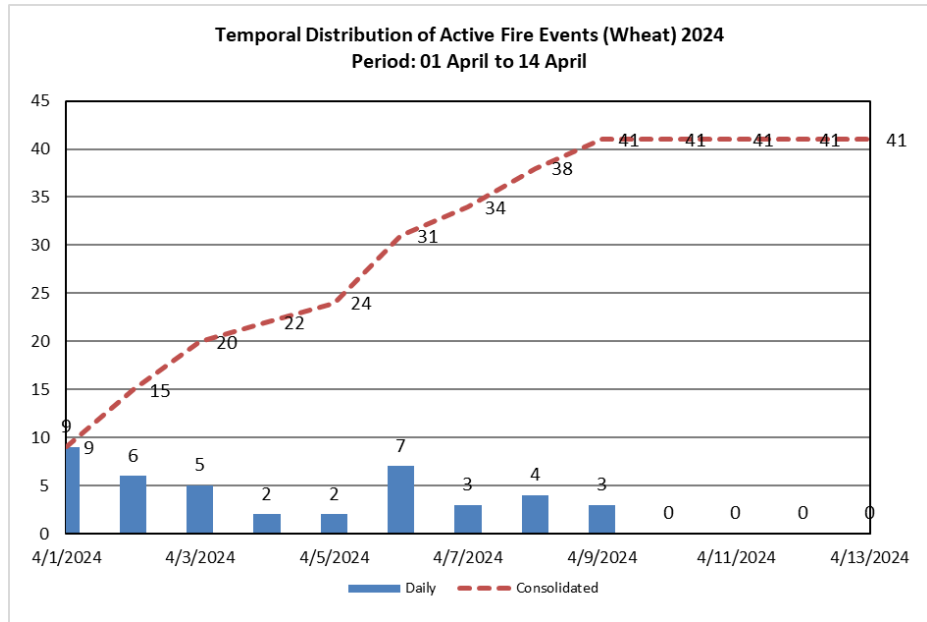


Fig 4: Date-wise Cumulative fire incidents captured in Punjab upto 14 April 2024



● Active Fire Events

Map.1. Active fire locations detected in Punjab on 14 April 2024 by Satellite

Table.1. Active fire locations detected in Punjab on 14 April 2024 by Satellite

S.N.	Latitude	Longitude	Detection_ Confidence	Radiative_ power (W/m2)	sat	Acq-date	acqtime	District	Tehsil	Block	Village	Hadb ast No	Thana
There are No Active Fire Events captured Today													

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: <http://202.164.39.172/residue/Index.aspx>