

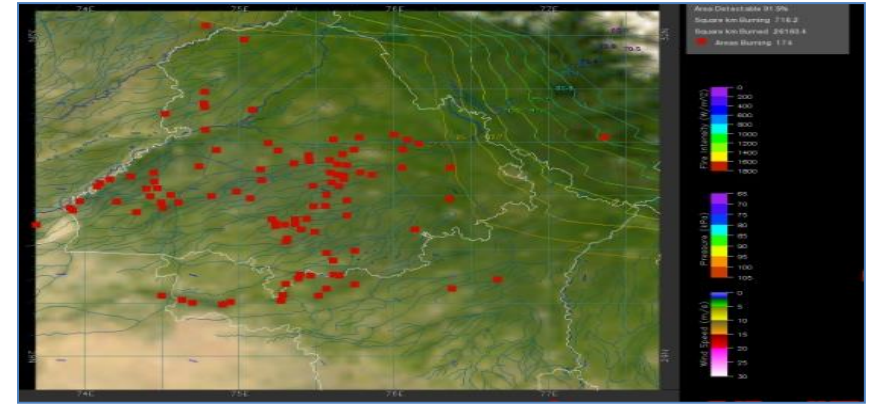
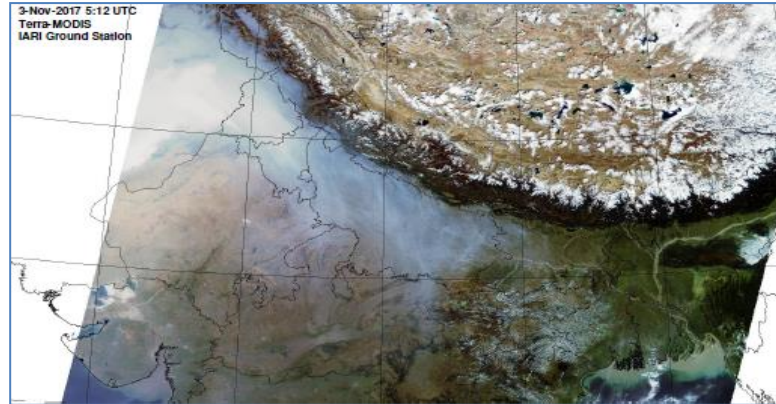


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2025

**Bulletin
No. 08**

**Events Date:
22-Sep-2025**

**Issued on:
22-Sep-2025**



**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS)
Laboratory,**

Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

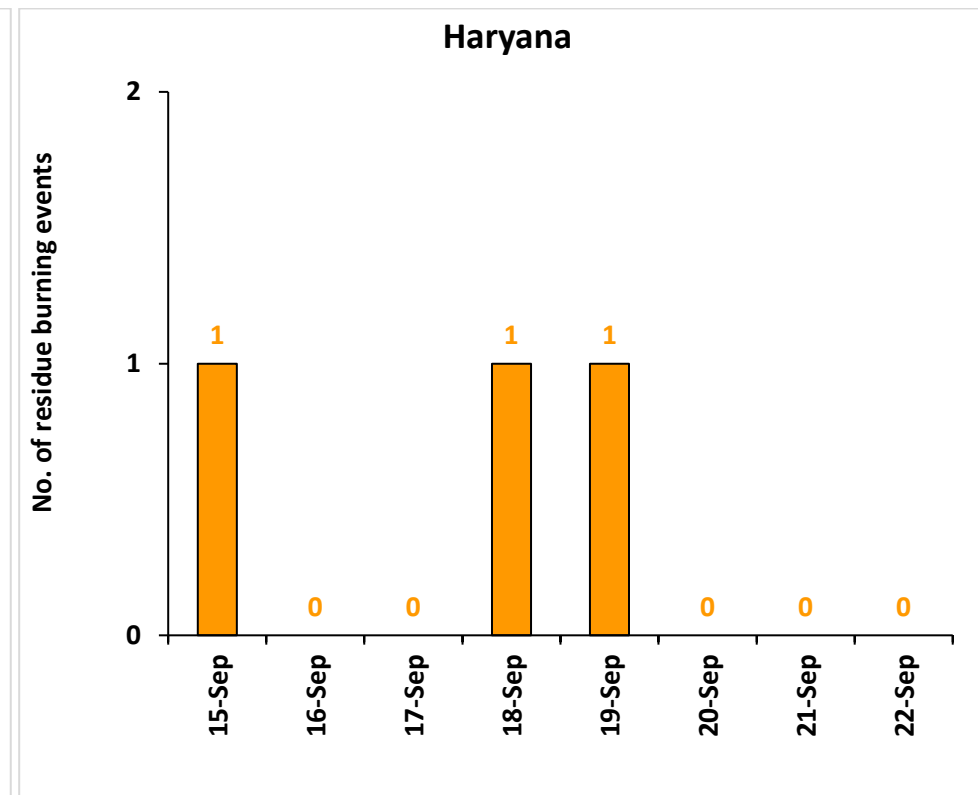
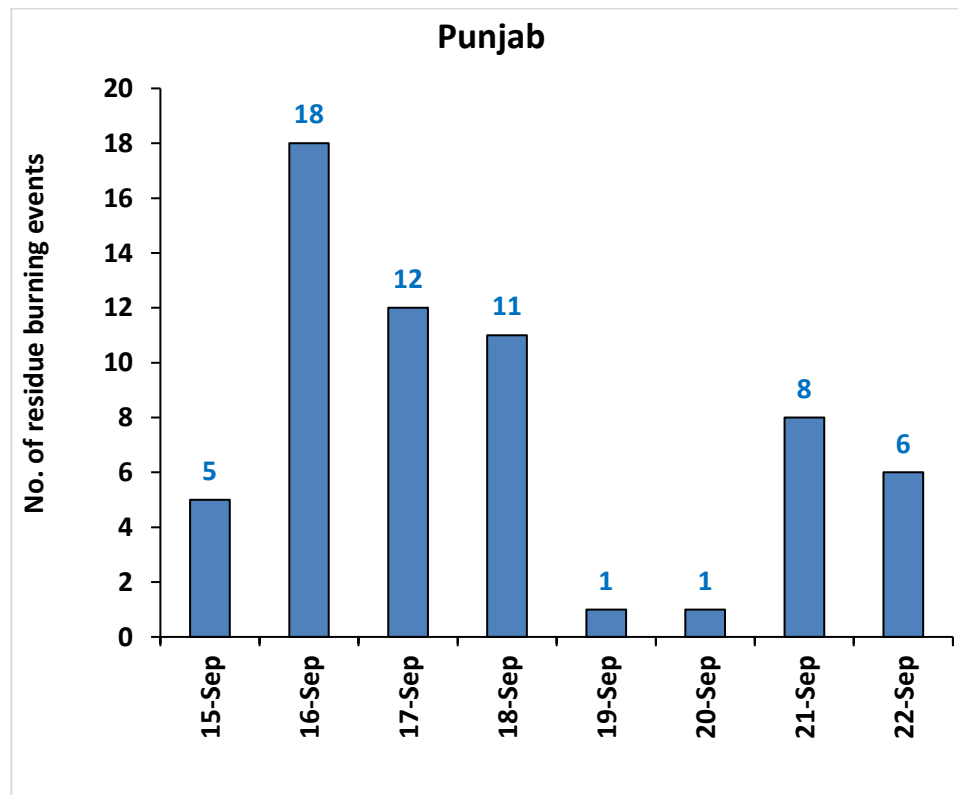
<http://creams.iari.res.in>



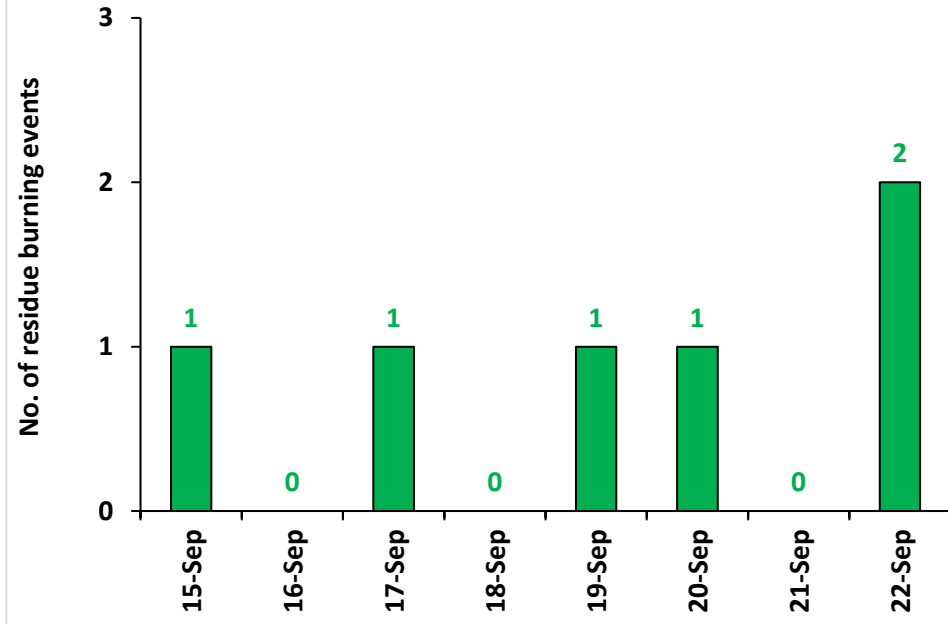
Highlights for 22-Sep-2025

- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **08** residue burning events in the six study States on **22-Sep-2025**.
- The state wise events detected on **22-Sep-2025** were **06** in Punjab, **00** in Haryana, **02** in UP, **00** in Delhi, **00** in Rajasthan and **00** in MP.
- Detection of residue burning events was hampered by the presence of clouds over Uttar Pradesh and Madhya Pradesh states.

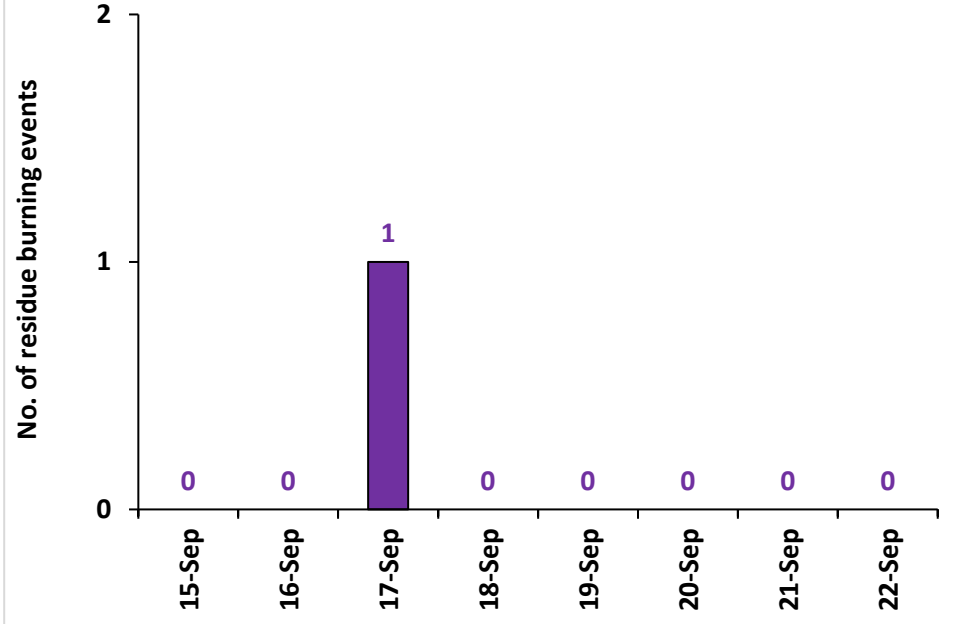
Temporal distribution of rice residue burning events for the study States in 2025



Uttar Pradesh

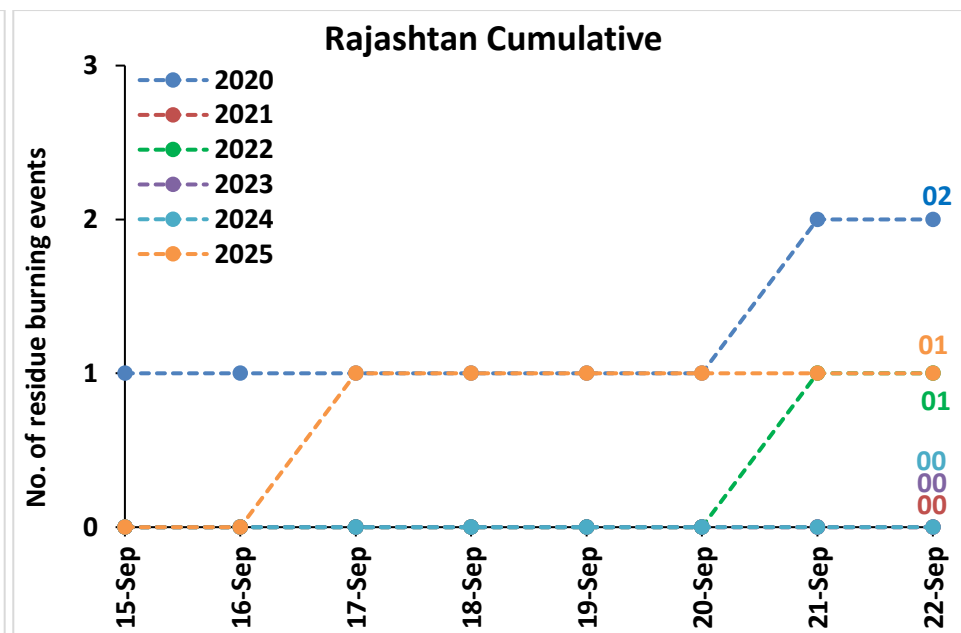
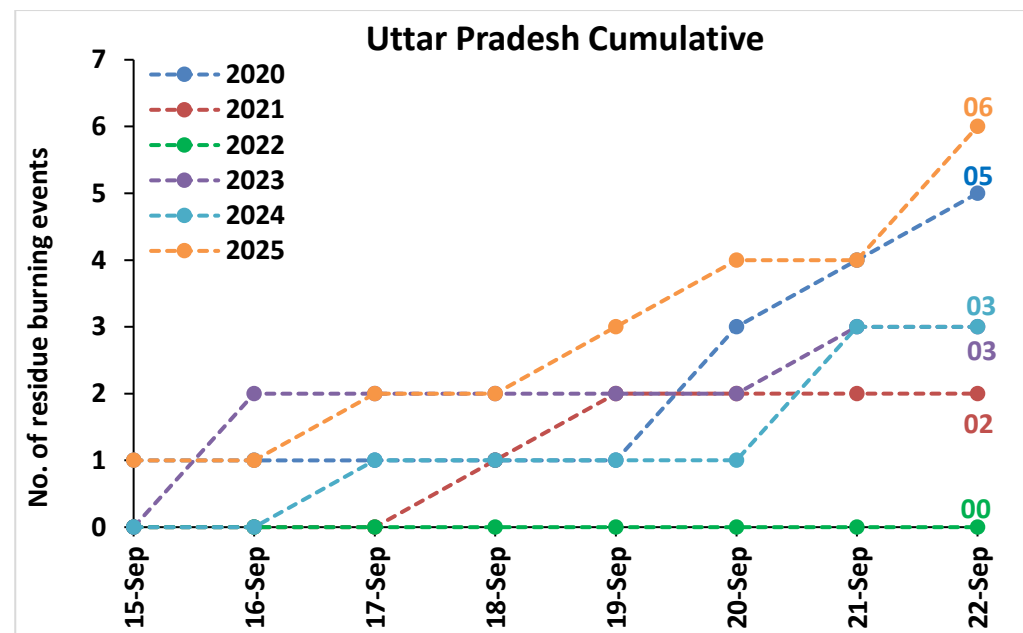
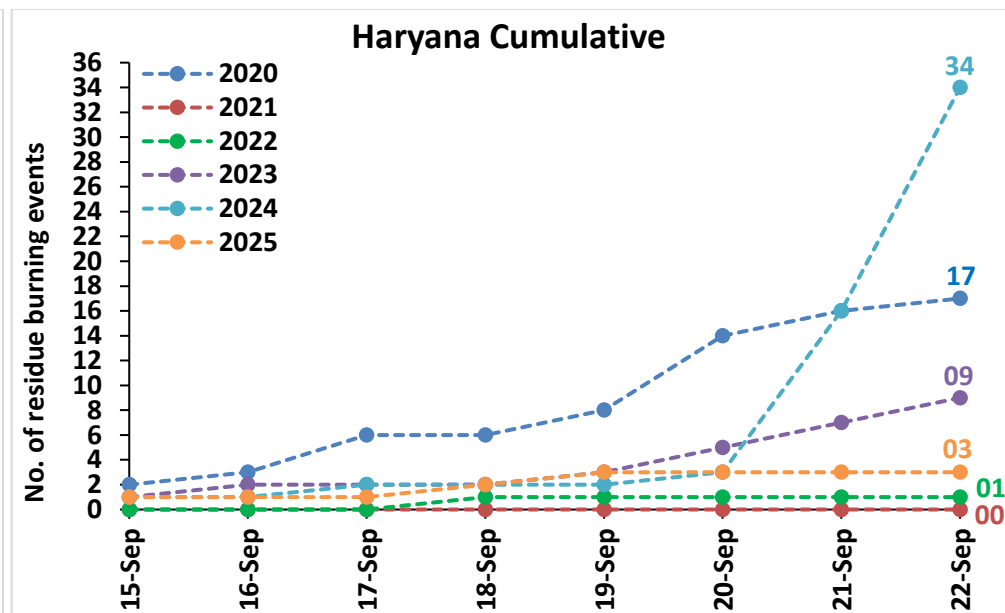
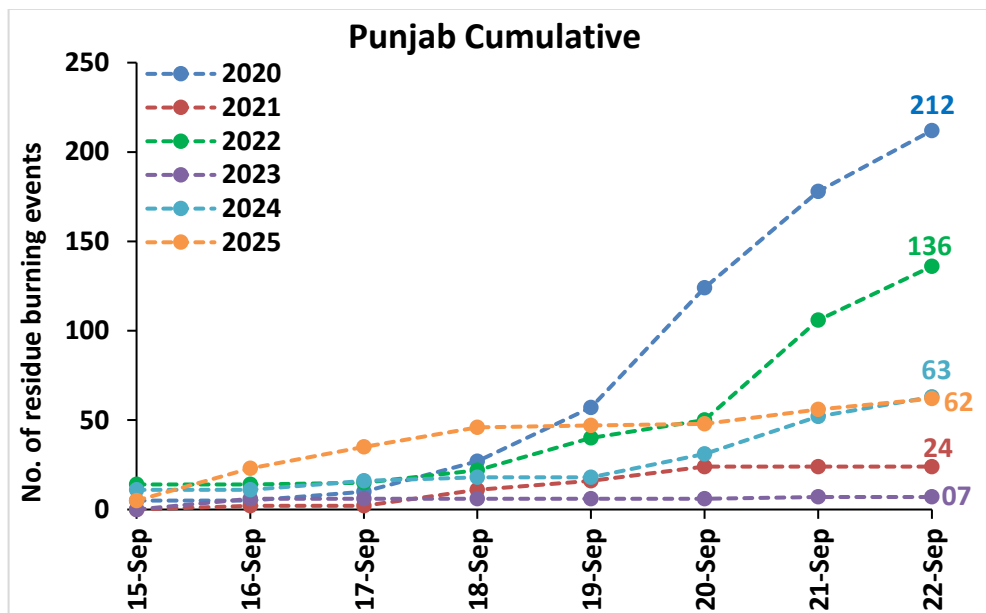


Rajasthan

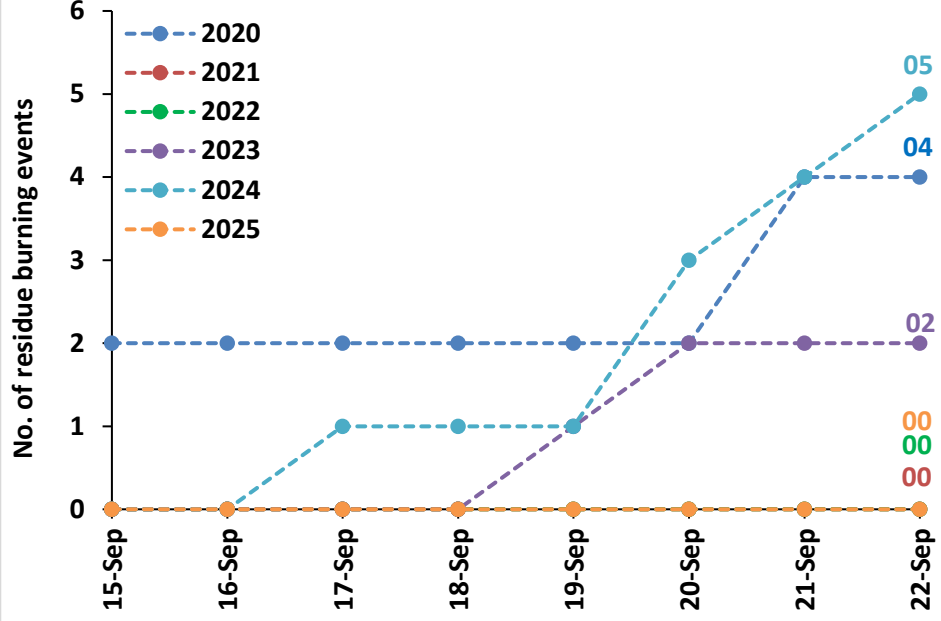


Comparison of residue burning fire power in current year (2025) with previous years (2020,2021,2022, 2023 and 2024) for the study

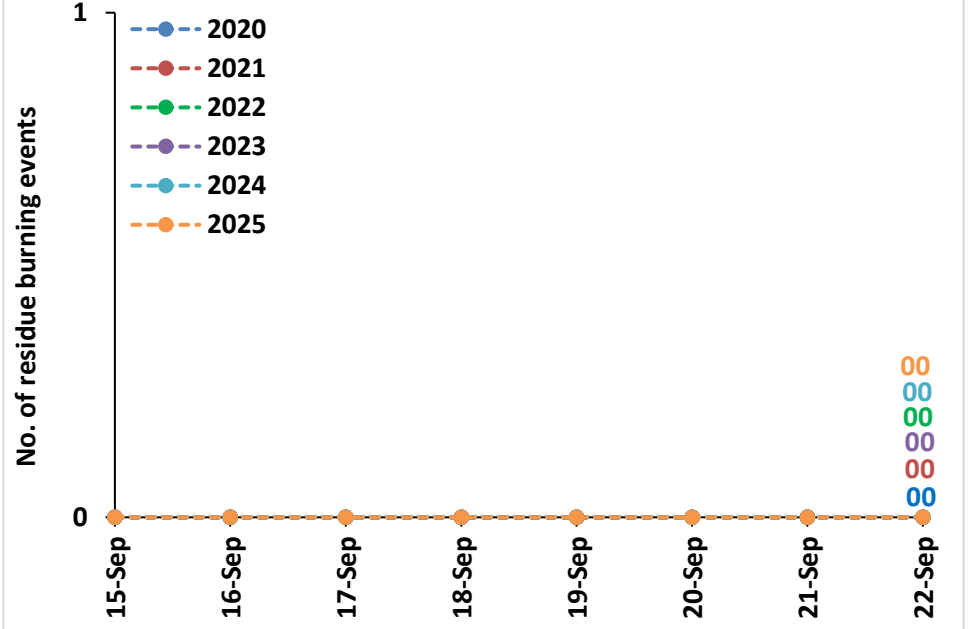
States



Madhya Pradesh Cumulative

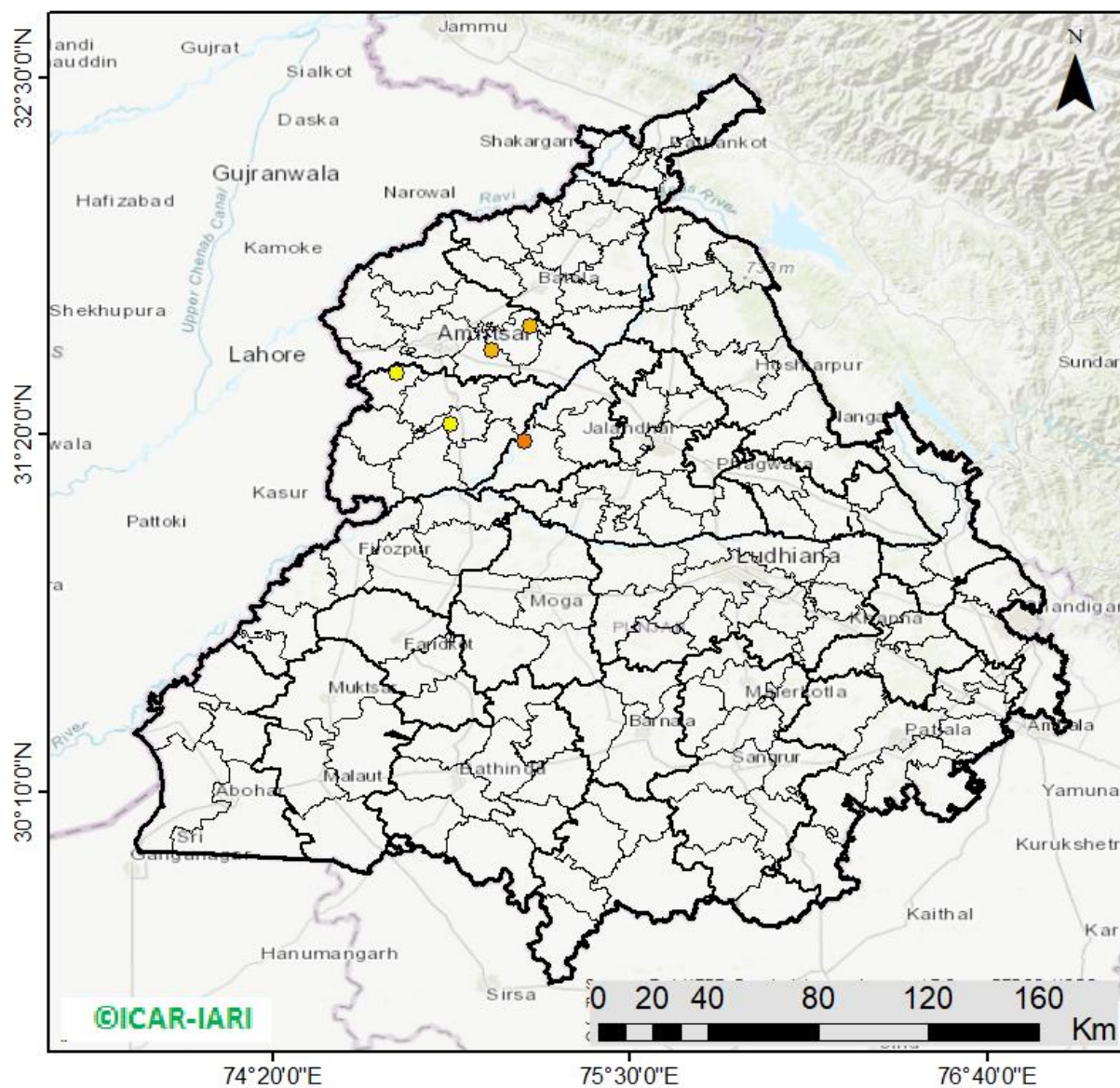


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



06 burning events
detected in Punjab during
(22nd Sep 2025)

Fire Intensity (W/m²)

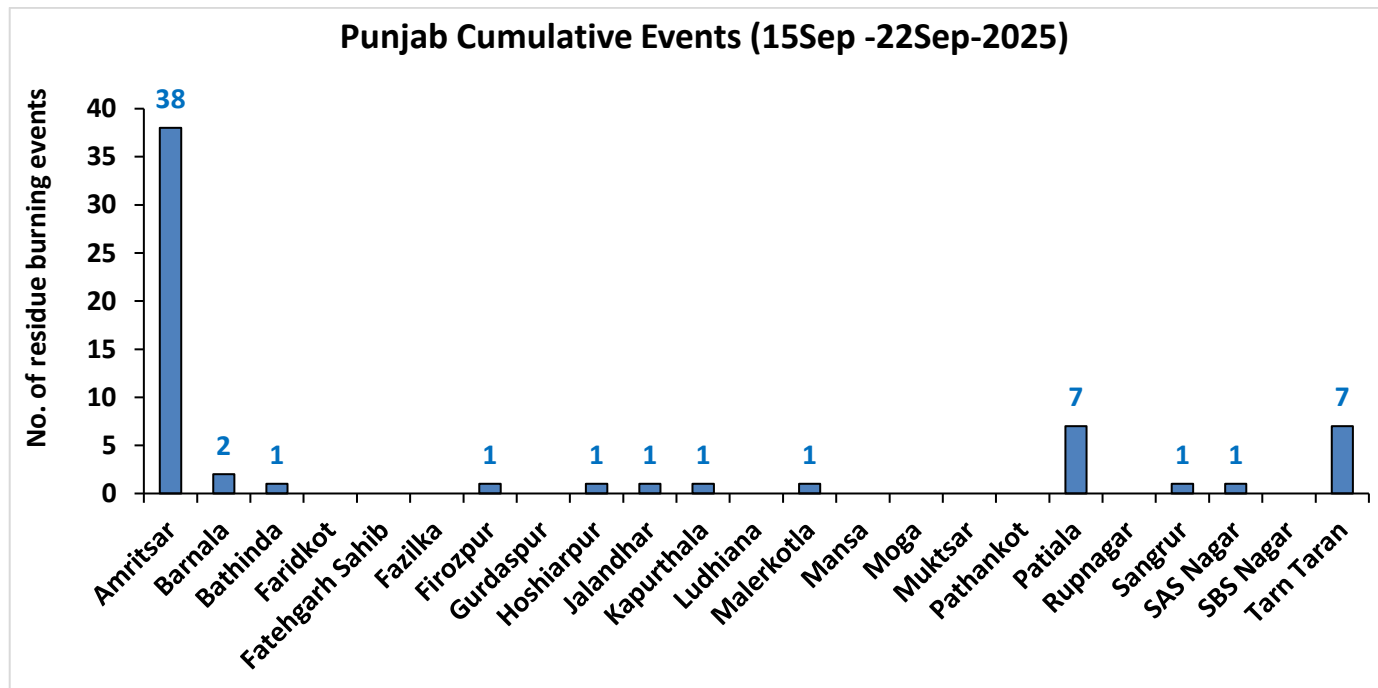
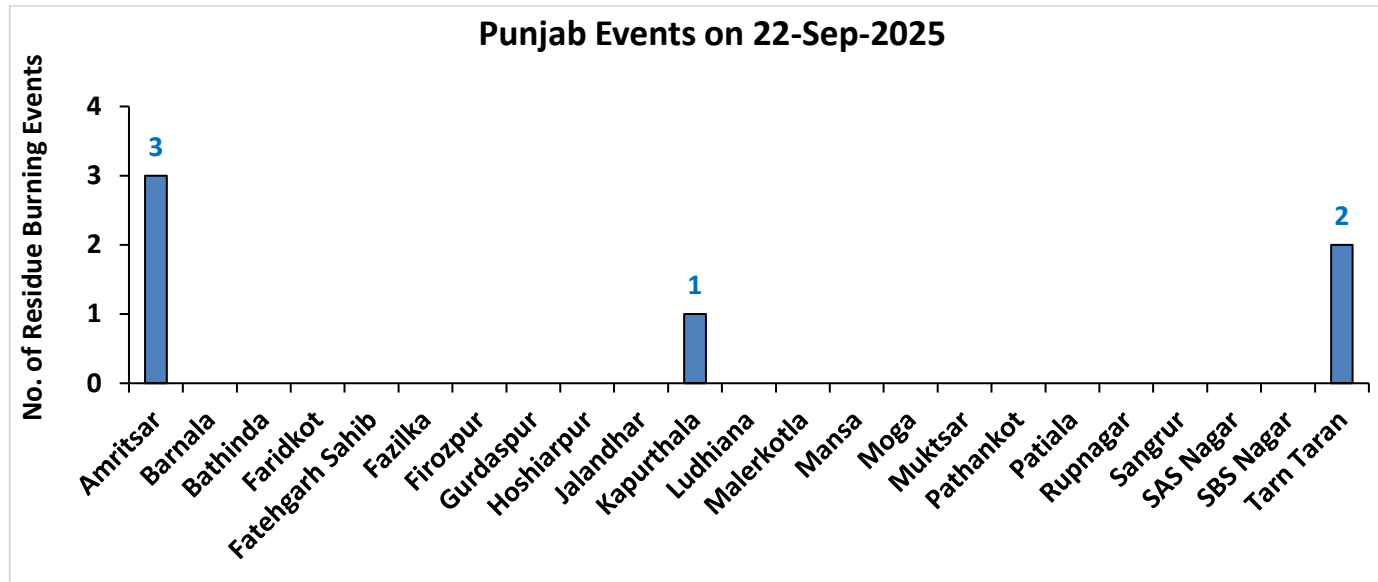
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



©ICAR-IARI

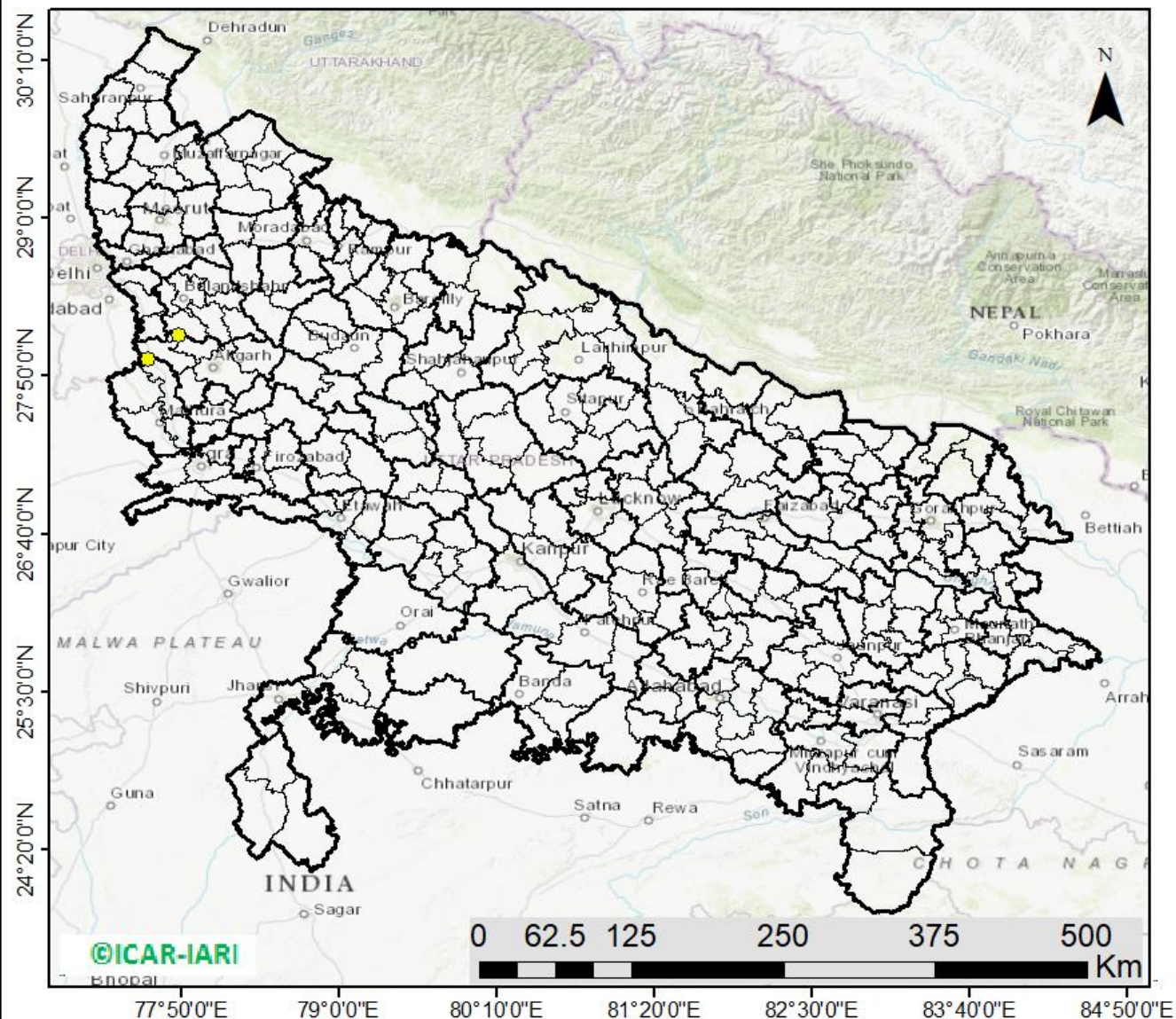
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events (15Sep-22Sep-2025)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



02 burning events
detected in Uttar Pradesh on
(22nd Sep 2025)

Fire Intensity (W/m²)

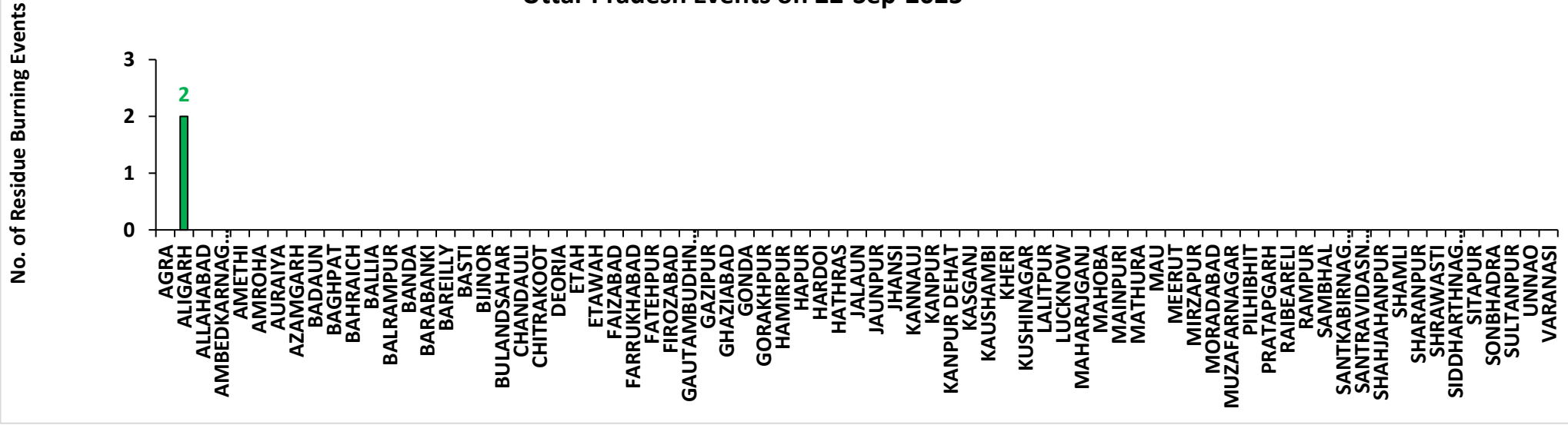
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



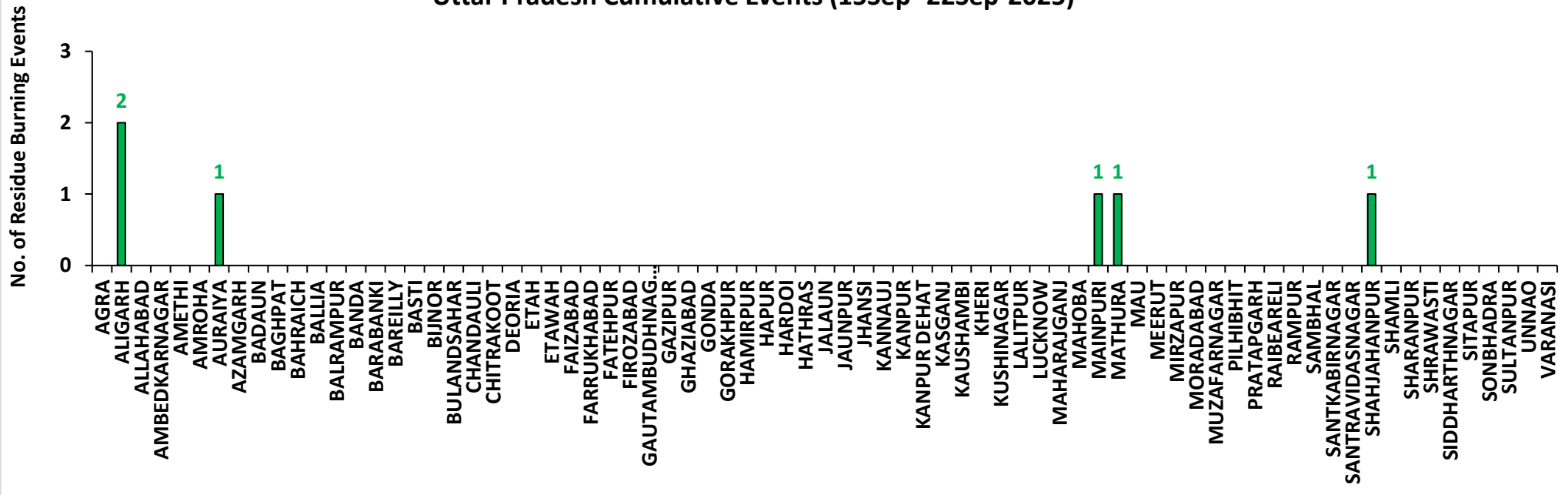
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-22Sep-2025)

Uttar Pradesh Events on 22-Sep-2025



Uttar Pradesh Cumulative Events (15Sep -22Sep-2025)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023, 2024 and 2025
(Period: 15-22 September)

(a) Punjab

| District | 15- 22 Sep | | | | | |
|--------------------|------------|-----------|------------|----------|-----------|-----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| Amritsar | 192 | 19 | 119 | 6 | 45 | 38 |
| Barnala | 0 | 0 | 0 | 0 | 0 | 2 |
| Bathinda | 0 | 0 | 0 | 0 | 0 | 1 |
| Faridkot | 0 | 1 | 0 | 0 | 0 | 0 |
| Fatehgarh Sahib | 0 | 0 | 0 | 0 | 0 | 0 |
| Fazilka | 0 | 0 | 0 | 0 | 0 | 0 |
| Firozpur | 0 | 0 | 0 | 0 | 2 | 1 |
| Gurdaspur | 1 | 0 | 1 | 0 | 6 | 0 |
| Hoshiarpur | 0 | 0 | 0 | 1 | 0 | 1 |
| Jalandhar | 0 | 0 | 0 | 0 | 2 | 1 |
| Kapurthala | 2 | 0 | 0 | 0 | 0 | 1 |
| Ludhiana | 3 | 0 | 0 | 0 | 0 | 0 |
| Malerkotla | 0 | 0 | 0 | 0 | 0 | 1 |
| Mansa | 1 | 0 | 0 | 0 | 0 | 0 |
| Moga | 0 | 0 | 0 | 0 | 0 | 0 |
| Muktsar | 1 | 0 | 0 | 0 | 0 | 0 |
| Pathankot | 0 | 0 | 0 | 0 | 0 | 0 |
| Patiala | 0 | 3 | 1 | 0 | 1 | 7 |
| Rupnagar | 0 | 0 | 0 | 0 | 0 | 0 |
| Sangrur | 0 | 0 | 0 | 0 | 1 | 1 |
| SAS NAGAR (Mohali) | 3 | 0 | 1 | 0 | 0 | 1 |
| SBS Nagar | 0 | 0 | 1 | 0 | 1 | 0 |
| Tarn Taran | 9 | 1 | 13 | 0 | 5 | 7 |
| Total | 212 | 24 | 136 | 7 | 63 | 62 |

(b) Haryana

| District | 15- 22 Sep | | | | | |
|---------------|------------|----------|----------|----------|-----------|----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| AMBALA | 3 | 0 | 0 | 0 | 1 | 0 |
| BHIWANI | 0 | 0 | 0 | 0 | 0 | 0 |
| CHARKHI DADRI | 0 | 0 | 0 | 0 | 0 | 0 |
| FARIDABAD | 0 | 0 | 0 | 0 | 3 | 1 |
| FATEHABAD | 1 | 0 | 0 | 1 | 0 | 1 |
| GURGAON | 0 | 0 | 0 | 0 | 0 | 0 |
| HISAR | 0 | 0 | 0 | 0 | 0 | 0 |
| JHAJJAR | 0 | 0 | 0 | 0 | 0 | 0 |
| JIND | 0 | 0 | 1 | 1 | 1 | 0 |
| KAITHAL | 0 | 0 | 0 | 0 | 1 | 0 |
| KARNAL | 9 | 0 | 0 | 2 | 19 | 0 |
| KURUKSHETRA | 2 | 0 | 0 | 1 | 4 | 0 |
| MAHENDRAGARH | 0 | 0 | 0 | 0 | 0 | 0 |
| MEWAT | 0 | 0 | 0 | 0 | 0 | 0 |
| PALWAL | 0 | 0 | 0 | 0 | 0 | 0 |
| PANCHKULA | 0 | 0 | 0 | 0 | 0 | 0 |
| PANIPAT | 1 | 0 | 0 | 0 | 0 | 0 |
| REWARI | 0 | 0 | 0 | 0 | 0 | 0 |
| ROHTAK | 0 | 0 | 0 | 1 | 1 | 0 |
| SIRSA | 1 | 0 | 0 | 0 | 1 | 0 |
| SONIPAT | 0 | 0 | 0 | 2 | 0 | 1 |
| YAMUNANAGAR | 0 | 0 | 0 | 1 | 3 | 0 |
| Total | 17 | 0 | 1 | 9 | 34 | 3 |

(c) Uttar Pradesh

| District | 15- 22 Sep | | | | | | | | | | | | | | | | | | | |
|---------------|------------|------|------|------|------|------|-----------------|---|---|---|---|---|---|------------------|----------|----------|----------|----------|----------|----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | GAUTAMBUDHNAGAR | 0 | 0 | 0 | 0 | 1 | 0 | MUZAFARNAGAR | 0 | 0 | 0 | 0 | 0 | 0 |
| AGRA | 0 | 0 | 0 | 0 | 0 | 0 | GAZIPUR | 0 | 0 | 0 | 0 | 0 | 0 | PILHIBHIT | 0 | 0 | 0 | 1 | 0 | 0 |
| ALIGARH | 0 | 0 | 0 | 0 | 0 | 2 | GHAZIABAD | 0 | 0 | 0 | 0 | 1 | 0 | PRATAPGARH | 0 | 0 | 0 | 0 | 0 | 0 |
| ALLAHABAD | 0 | 0 | 0 | 0 | 0 | 0 | GONDA | 0 | 0 | 0 | 0 | 0 | 0 | RAIBEARELI | 1 | 0 | 0 | 0 | 0 | 0 |
| AMBEDKARNAGAR | 0 | 0 | 0 | 0 | 0 | 0 | GORAKHPUR | 0 | 0 | 0 | 0 | 0 | 0 | RAMPUR | 0 | 1 | 0 | 0 | 0 | 0 |
| AMETHI | 0 | 0 | 0 | 0 | 0 | 0 | HAMIRPUR | 0 | 0 | 0 | 0 | 0 | 0 | SAMBHAL | 1 | 0 | 0 | 0 | 0 | 0 |
| AMROHA | 0 | 0 | 0 | 0 | 0 | 0 | HAPUR | 1 | 0 | 0 | 0 | 0 | 0 | SANTKABIRNAGAR | 0 | 0 | 0 | 0 | 0 | 0 |
| AURAIYA | 1 | 0 | 0 | 0 | 0 | 1 | HARDOI | 0 | 0 | 0 | 0 | 0 | 0 | SANTRAVIDASNAGAR | 0 | 0 | 0 | 0 | 0 | 0 |
| AZAMGARH | 0 | 0 | 0 | 0 | 0 | 0 | HATHRAS | 0 | 0 | 0 | 0 | 0 | 0 | SHAHJAHANPUR | 0 | 0 | 0 | 0 | 1 | 1 |
| BADAUN | 0 | 0 | 0 | 0 | 0 | 0 | JALAUN | 0 | 0 | 0 | 0 | 0 | 0 | SHAMLI | 1 | 0 | 0 | 0 | 0 | 0 |
| BAGHPAT | 0 | 0 | 0 | 0 | 0 | 0 | JAUNPUR | 0 | 0 | 0 | 0 | 0 | 0 | SHARANPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| BAHRAICH | 0 | 0 | 0 | 0 | 0 | 0 | JHANSI | 0 | 0 | 0 | 0 | 0 | 0 | SHRAWASTI | 0 | 0 | 0 | 0 | 0 | 0 |
| BALLIA | 0 | 0 | 0 | 0 | 0 | 0 | KANNAUJ | 0 | 0 | 0 | 0 | 0 | 0 | SIDDHARTHANAGAR | 0 | 0 | 0 | 0 | 0 | 0 |
| BALRAMPUR | 0 | 0 | 0 | 0 | 0 | 0 | KANPUR | 0 | 1 | 0 | 0 | 0 | 0 | SITAPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| BANDA | 0 | 0 | 0 | 0 | 0 | 0 | KANPUR DEHAT | 0 | 0 | 0 | 0 | 0 | 0 | SONBHADRA | 0 | 0 | 0 | 0 | 0 | 0 |
| BARABANKI | 0 | 0 | 0 | 0 | 0 | 0 | KASGANJ | 0 | 0 | 0 | 0 | 0 | 0 | SULTANPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| BAREILLY | 0 | 0 | 0 | 0 | 0 | 0 | KAUSHAMBI | 0 | 0 | 0 | 0 | 0 | 0 | UNNAO | 0 | 0 | 0 | 0 | 0 | 0 |
| BASTI | 0 | 0 | 0 | 0 | 0 | 0 | KHERI | 0 | 0 | 0 | 0 | 0 | 0 | VARANASI | 0 | 0 | 0 | 0 | 0 | 0 |
| BIJNOR | 0 | 0 | 0 | 0 | 0 | 0 | KUSHINAGAR | 0 | 0 | 0 | 0 | 0 | 0 | Total | 5 | 2 | 0 | 3 | 3 | 6 |
| BULANDSAHAR | 0 | 0 | 0 | 0 | 0 | 0 | LALITPUR | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| CHANDAULI | 0 | 0 | 0 | 0 | 0 | 0 | LUCKNOW | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| CHITRAKOOT | 0 | 0 | 0 | 0 | 0 | 0 | MAHARAJGANJ | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| DEORIA | 0 | 0 | 0 | 2 | 0 | 0 | MAHOBA | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| ETAH | 0 | 0 | 0 | 0 | 0 | 0 | MAINPURI | 0 | 0 | 0 | 0 | 0 | 1 | | | | | | | |
| ETAWAH | 0 | 0 | 0 | 0 | 0 | 0 | MATHURA | 0 | 0 | 0 | 0 | 0 | 1 | | | | | | | |
| FAIZABAD | 0 | 0 | 0 | 0 | 0 | 0 | MAU | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| FARRUKHABAD | 0 | 0 | 0 | 0 | 0 | 0 | MEERUT | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| FATEHPUR | 0 | 0 | 0 | 0 | 0 | 0 | MIRZAPUR | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| FIROZABAD | 0 | 0 | 0 | 0 | 0 | 0 | MORADABAD | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |

(d) Delhi

| District | 15- 22 Sep | | | | | |
|------------------|------------|------|------|------|------|------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| CENTRAL | 0 | 0 | 0 | 0 | 0 | 0 |
| EAST | 0 | 0 | 0 | 0 | 0 | 0 |
| NEW DELHI | 0 | 0 | 0 | 0 | 0 | 0 |
| NORTH | 0 | 0 | 0 | 0 | 0 | 0 |
| NORTH EAST | 0 | 0 | 0 | 0 | 0 | 0 |
| NORTH WEST DELHI | 0 | 0 | 0 | 0 | 0 | 0 |
| SHAHADRA | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH EAST | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH WEST DELHI | 0 | 0 | 0 | 0 | 0 | 0 |
| WEST DELHI | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |

(e) Rajasthan

| District | 15- 22 Sep | | | | | |
|--------------|------------|----------|----------|----------|----------|----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| AJMER | 0 | 0 | 0 | 0 | 0 | 0 |
| ALWAR | 0 | 0 | 0 | 0 | 0 | 0 |
| BANSWARA | 0 | 0 | 0 | 0 | 0 | 0 |
| BARAN | 0 | 0 | 0 | 0 | 0 | 0 |
| BARMER | 0 | 0 | 0 | 0 | 0 | 0 |
| BHARATPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| BHILWARA | 1 | 0 | 0 | 0 | 0 | 0 |
| BIKANER | 0 | 0 | 0 | 0 | 0 | 0 |
| BUNDI | 0 | 0 | 1 | 0 | 0 | 0 |
| CHITTAURGARH | 0 | 0 | 0 | 0 | 0 | 0 |
| CHURU | 0 | 0 | 0 | 0 | 0 | 0 |
| DAUSA | 0 | 0 | 0 | 0 | 0 | 0 |
| DHOLPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| DUNGARPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| GANGANAGAR | 0 | 0 | 0 | 0 | 0 | 0 |
| HANUMANGARH | 0 | 0 | 0 | 0 | 0 | 0 |
| JAIPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| JAISELMER | 1 | 0 | 0 | 0 | 0 | 0 |
| JALOR | 0 | 0 | 0 | 0 | 0 | 0 |
| JHALAWAR | 0 | 0 | 0 | 0 | 0 | 0 |
| JHUNJHUNUN | 0 | 0 | 0 | 0 | 0 | 0 |
| JODHPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| KARALI | 0 | 0 | 0 | 0 | 0 | 0 |
| KOTA | 0 | 0 | 0 | 0 | 0 | 0 |
| NAGOUR | 0 | 0 | 0 | 0 | 0 | 0 |
| PALI | 0 | 0 | 0 | 0 | 0 | 1 |
| PRATAPGARH | 0 | 0 | 0 | 0 | 0 | 0 |
| RAJSMAND | 0 | 0 | 0 | 0 | 0 | 0 |
| SIKAR | 0 | 0 | 0 | 0 | 0 | 0 |
| SIROHI | 0 | 0 | 0 | 0 | 0 | 0 |
| SWAIMADHOPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| TONK | 0 | 0 | 0 | 0 | 0 | 0 |
| UDAIPUR | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 0 | 1 | 0 | 0 | 1 |

(f) Madhya Pradesh

| District | 15- 22 Sep | | | | | | | | | | | | | |
|--------------|------------|------|------|------|------|------|--------------|----------|----------|----------|----------|----------|----------|--|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | PANNA | 0 | 0 | 0 | 0 | 0 | 0 | |
| ALIRAJPUR | 0 | 0 | 0 | 0 | 0 | 0 | RAISEN | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANUPPUR | 0 | 0 | 0 | 0 | 0 | 0 | RAJGARH | 0 | 0 | 0 | 0 | 0 | 0 | |
| ASHOKNAGAR | 0 | 0 | 0 | 0 | 0 | 0 | RATLAM | 0 | 0 | 0 | 0 | 0 | 0 | |
| BALAGHAT | 0 | 0 | 0 | 0 | 0 | 0 | REWA | 0 | 0 | 0 | 0 | 0 | 0 | |
| BARWANI | 0 | 0 | 0 | 0 | 0 | 0 | SAGAR | 2 | 0 | 0 | 0 | 0 | 0 | |
| BETUL | 0 | 0 | 0 | 0 | 0 | 0 | SATNA | 0 | 0 | 0 | 0 | 0 | 0 | |
| BHIND | 0 | 0 | 0 | 0 | 0 | 0 | SEHORE | 0 | 0 | 0 | 0 | 0 | 0 | |
| BHOPAL | 0 | 0 | 0 | 0 | 0 | 0 | SEONI | 0 | 0 | 0 | 0 | 0 | 0 | |
| BURHANPUR | 0 | 0 | 0 | 0 | 0 | 0 | SHAHDOL | 0 | 0 | 0 | 0 | 0 | 0 | |
| CHHATARPUR | 0 | 0 | 0 | 0 | 0 | 0 | SHAJAPUR | 0 | 0 | 0 | 0 | 0 | 0 | |
| CHHINDWARA | 0 | 0 | 0 | 0 | 0 | 0 | SHEOPUR | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAMOH | 0 | 0 | 0 | 1 | 0 | 0 | SHIVPURI | 0 | 0 | 0 | 0 | 0 | 0 | |
| DATIA | 0 | 0 | 0 | 0 | 0 | 0 | SIDHI | 0 | 0 | 0 | 0 | 0 | 0 | |
| DEWAS | 0 | 0 | 0 | 0 | 0 | 0 | SINGRAULI | 0 | 0 | 0 | 0 | 1 | 0 | |
| DHAR | 0 | 0 | 0 | 0 | 1 | 0 | TIKAMGARH | 0 | 0 | 0 | 0 | 0 | 0 | |
| DINDORI | 0 | 0 | 0 | 0 | 0 | 0 | UJJAIN | 0 | 0 | 0 | 0 | 0 | 0 | |
| EAST NIMAR | 0 | 0 | 0 | 0 | 0 | 0 | UMARIA | 0 | 0 | 0 | 0 | 0 | 0 | |
| GUNA | 0 | 0 | 0 | 0 | 0 | 0 | VIDESHA | 0 | 0 | 0 | 0 | 0 | 0 | |
| GWALIOR | 0 | 0 | 0 | 0 | 0 | 0 | WEST NIMAR | 0 | 0 | 0 | 0 | 0 | 0 | |
| HARDA | 2 | 0 | 0 | 0 | 0 | 0 | Total | 4 | 0 | 0 | 2 | 5 | 0 | |
| HOSHANGABAD | 0 | 0 | 0 | 1 | 0 | 0 | | | | | | | | |
| INDORE | 0 | 0 | 0 | 0 | 3 | 0 | | | | | | | | |
| JABALPUR | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| JHABUA | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| KATNI | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| MANDLA | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| MANDSAUR | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| MORENA | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| NARSHIMAPURA | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| NIMACH | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |

State-wise and date-wise number of paddy residue burning events detected in 2020 ,2021 ,2022, 2023, 2024 and 2025

(Period: 15-22 September)

Number of Paddy Residue Burning Events Detected

| Date | Punjab | | | | | | Haryana | | | | | | Uttar Pradesh | | | | | |
|--------------|------------|-----------|------------|----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|---------------|----------|----------|----------|----------|----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 15-Sep | 5 | 0 | 14 | 0 | 11 | 5 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 16-Sep | 0 | 2 | 0 | 6 | 0 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 17-Sep | 5 | 0 | 1 | 0 | 5 | 11 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 18-Sep | 17 | 9 | 7 | 0 | 2 | 12 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 19-Sep | 30 | 5 | 18 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 20-Sep | 67 | 8 | 10 | 0 | 13 | 1 | 6 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| 21-Sep | 54 | 0 | 56 | 1 | 21 | 8 | 2 | 0 | 0 | 2 | 13 | 0 | 1 | 0 | 0 | 1 | 2 | 0 |
| 22-Sep | 34 | 0 | 30 | 0 | 11 | 6 | 1 | 0 | 0 | 2 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total | 212 | 24 | 136 | 7 | 63 | 62 | 17 | 0 | 1 | 9 | 34 | 3 | 5 | 2 | 0 | 3 | 3 | 6 |

Number of Paddy Residue Burning Events Detected

| Date | Delhi | | | | | | Rajasthan | | | | | | Madhya Pradesh | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 15-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 18-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 20-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| 21-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| 22-Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 4 | 0 | 0 | 2 | 5 | 0 |

Details of residue burning events in Punjab on 22-Sep-2025

| S. No. | District | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m ²) |
|--------|------------|------------------|-----------|----------|-----------|----------|-------------|--------------------------------|
| 1 | AMRITSAR | JANDIALA GURU | S-NPP | 31.61073 | 75.04720 | 14:02:44 | D | 6.00 |
| 2 | AMRITSAR | TARSIKKA | S-NPP | 31.69133 | 75.17680 | 14:02:44 | D | 10.70 |
| 3 | AMRITSAR | TARSIKKA | S-NPP | 31.69189 | 75.17433 | 14:02:44 | D | 7.00 |
| 4 | KAPURTHALA | SULTANPUR LODHI | S-NPP | 31.31549 | 75.15566 | 14:02:44 | D | 14.10 |
| 5 | TARN TARAN | GANDIWIND TATLA | S-NPP | 31.53429 | 74.73939 | 14:02:44 | D | 1.80 |
| 6 | TARN TARAN | NAUSHERA PANNUAN | S-NPP | 31.36772 | 74.91553 | 14:02:44 | D | 2.20 |

Details of residue burning events in Uttar Pradesh on 22-Sep-2025

| S. No. | District | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m ²) |
|--------|----------|----------------|-----------|----------|-----------|----------|-------------|--------------------------------|
| 1 | ALIGARH | GABHANA | S-NPP | 28.13173 | 77.81506 | 14:05:00 | D | 1.68 |
| 2 | ALIGARH | KHAIR | S-NPP | 27.95414 | 77.59086 | 14:05:00 | D | 1.82 |

The study used data received from following Satellites at NRSC Ground Station/ NASA FIRMS

| S. No. | Satellite Name | Sensor | Resolution (meter) | Day / Night Passes |
|--------|----------------|--------|--------------------|--------------------|
| 1. | Suomi NPP | VIIRS | 375 / 750 | Both |
| 2. | Terra | MODIS | 1000 | Both |
| 3. | Aqua | MODIS | 1000 | Both |

**The rice mask for the Punjab and Haryana were provided by MNCFC, MoA&FW, Govt of India
The kharif crop mask for Delhi, Uttar Pradesh, Rajasthan and Madhya Pradesh were provided by NRSC**

Study Team

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GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>
(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)
