

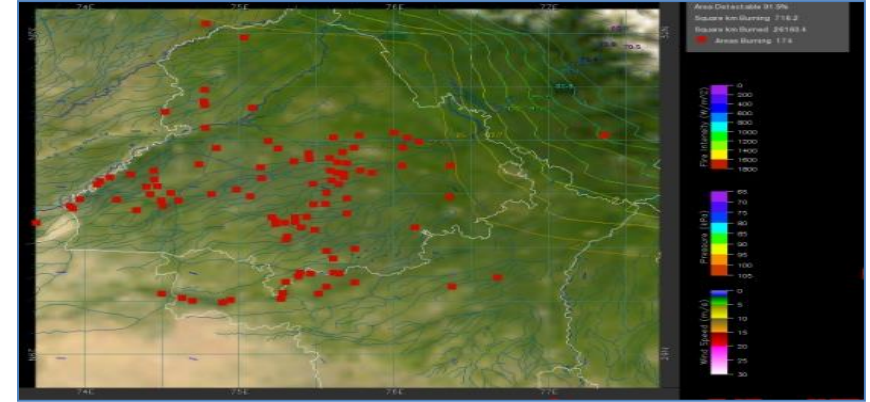
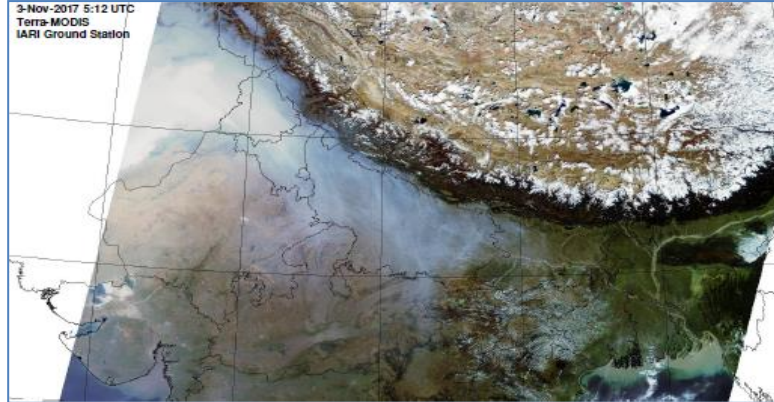


# MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin  
No. 43

Events Date:  
27-Oct-2024

Issued on:  
27-Oct-2024



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

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

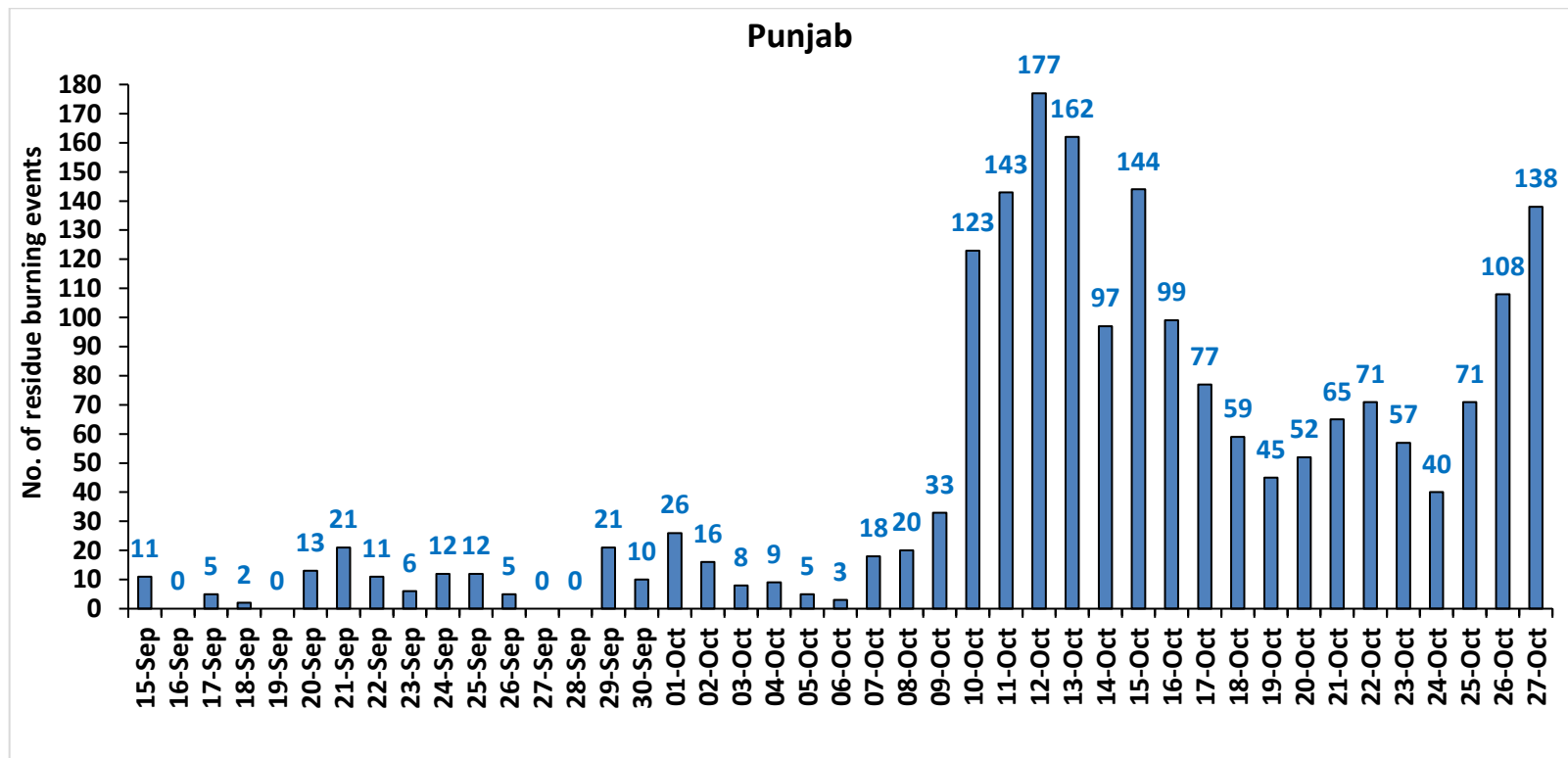
<https://creams.iari.res.in>



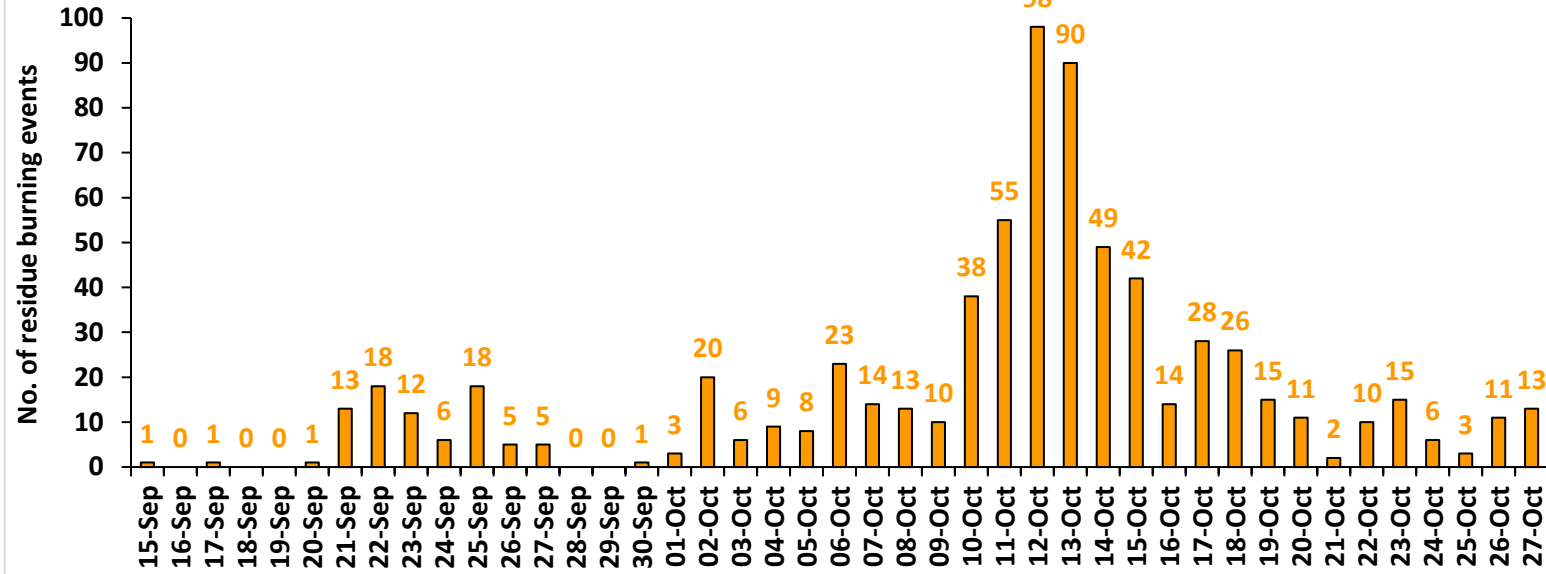
## Highlights for 27-Oct-2024

- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol " recommended by CAQM.
- Satellites detected **368** residue burning events in the six study States on **27-Oct-2024**.
- The state wise events detected on **27-Oct-2024** were **138** in Punjab, **13** in Haryana, **27** in UP, **00** in Delhi, **60** in Rajasthan and **130** in MP.
- Total **5337** burning events were detected in the six states between **15-Sept-2024** and **27-Oct-2024**, which are distributed as **1995**, **713**, **892**, **12**, **556** and **1169** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

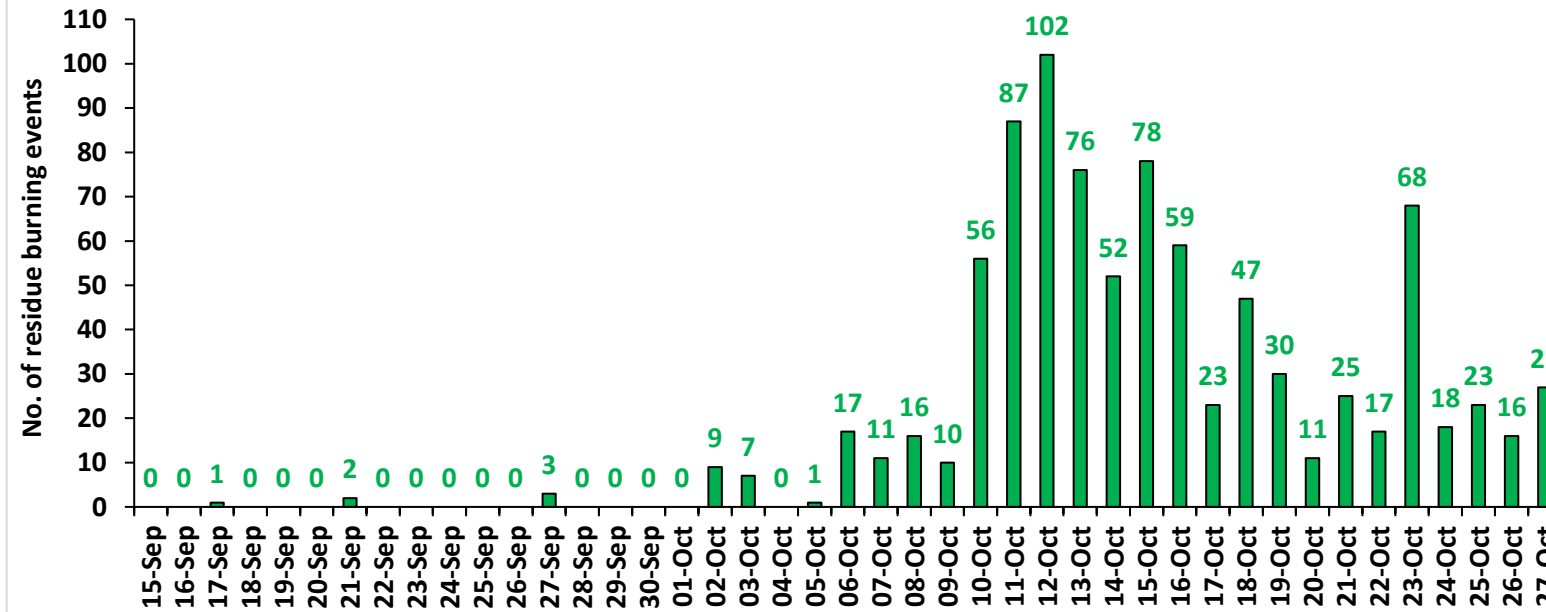
### Temporal distribution of rice residue burning events for the study States in 2024



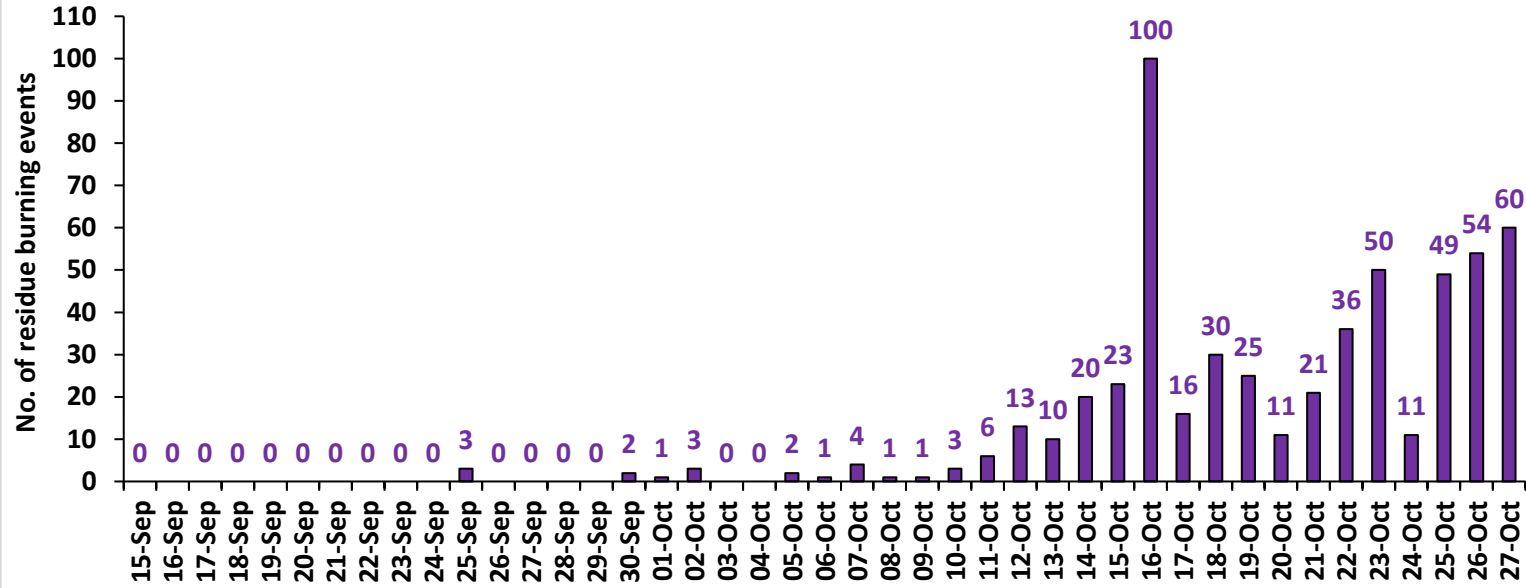
### Haryana



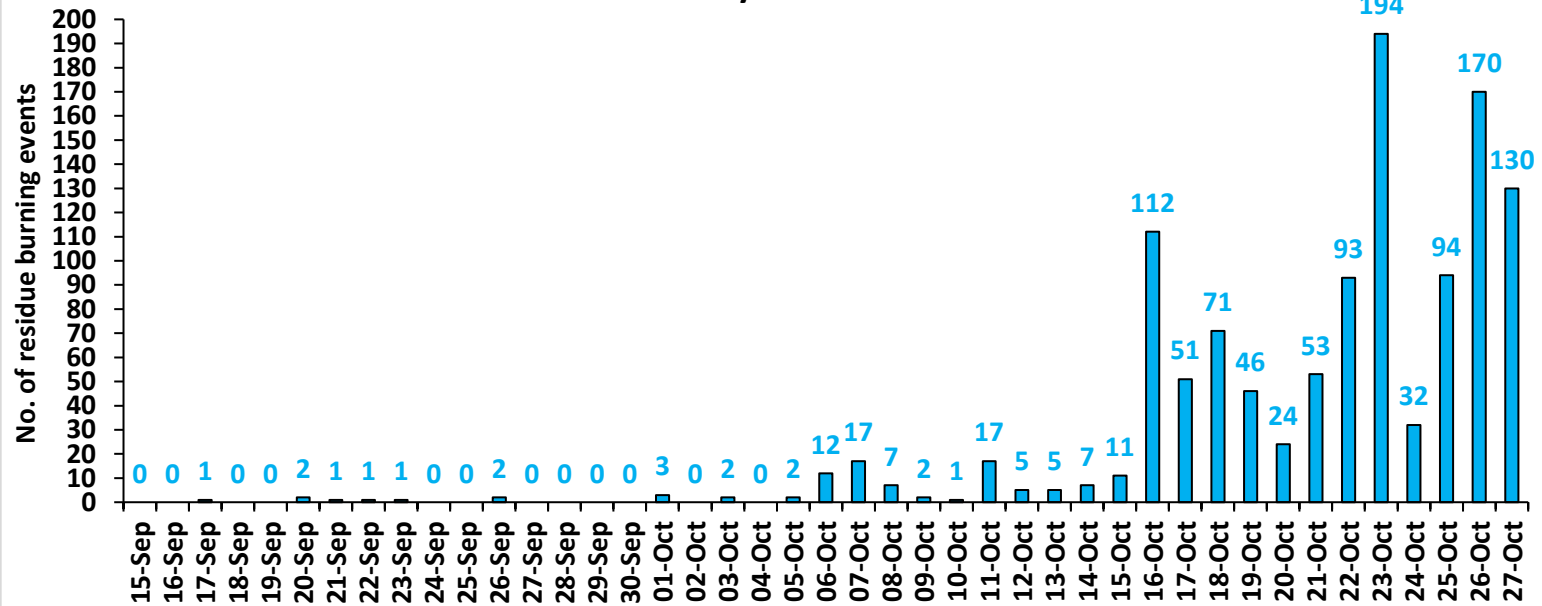
### Uttar Pradesh

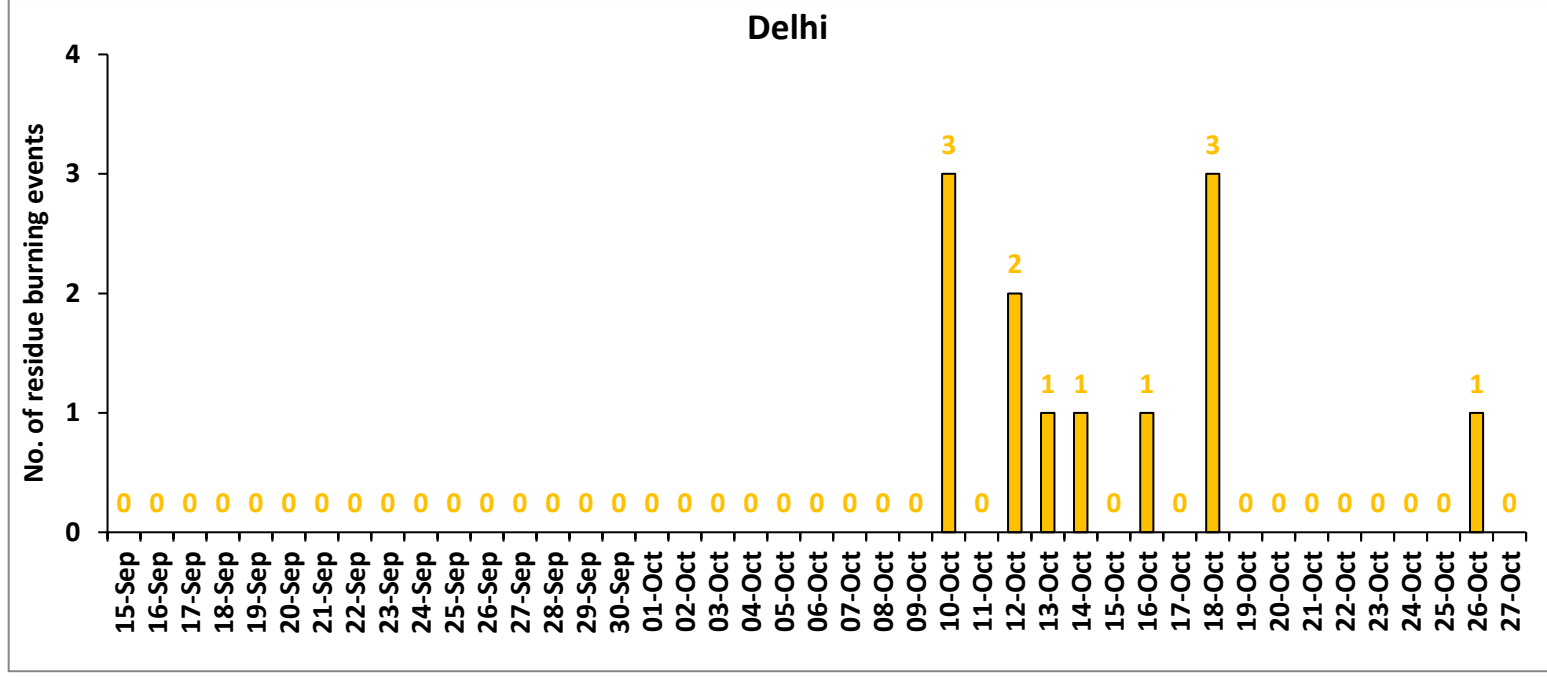


### Rajasthan

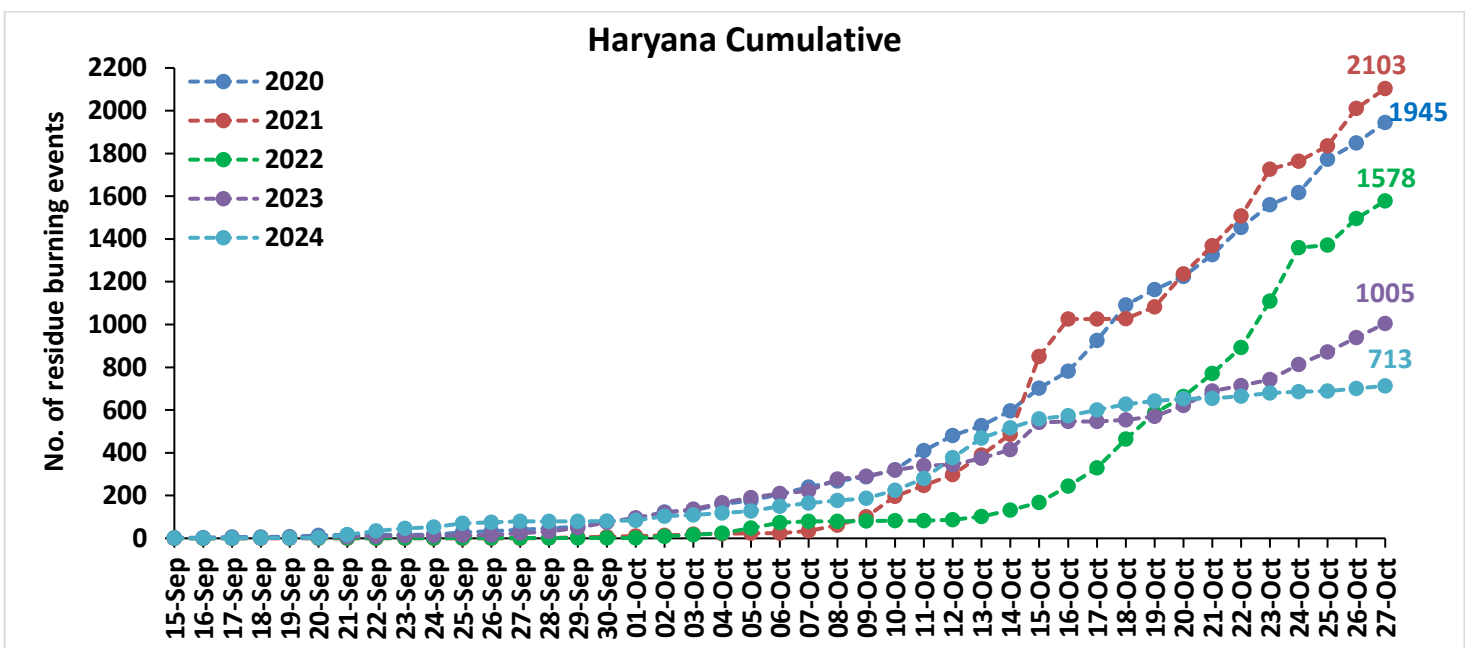
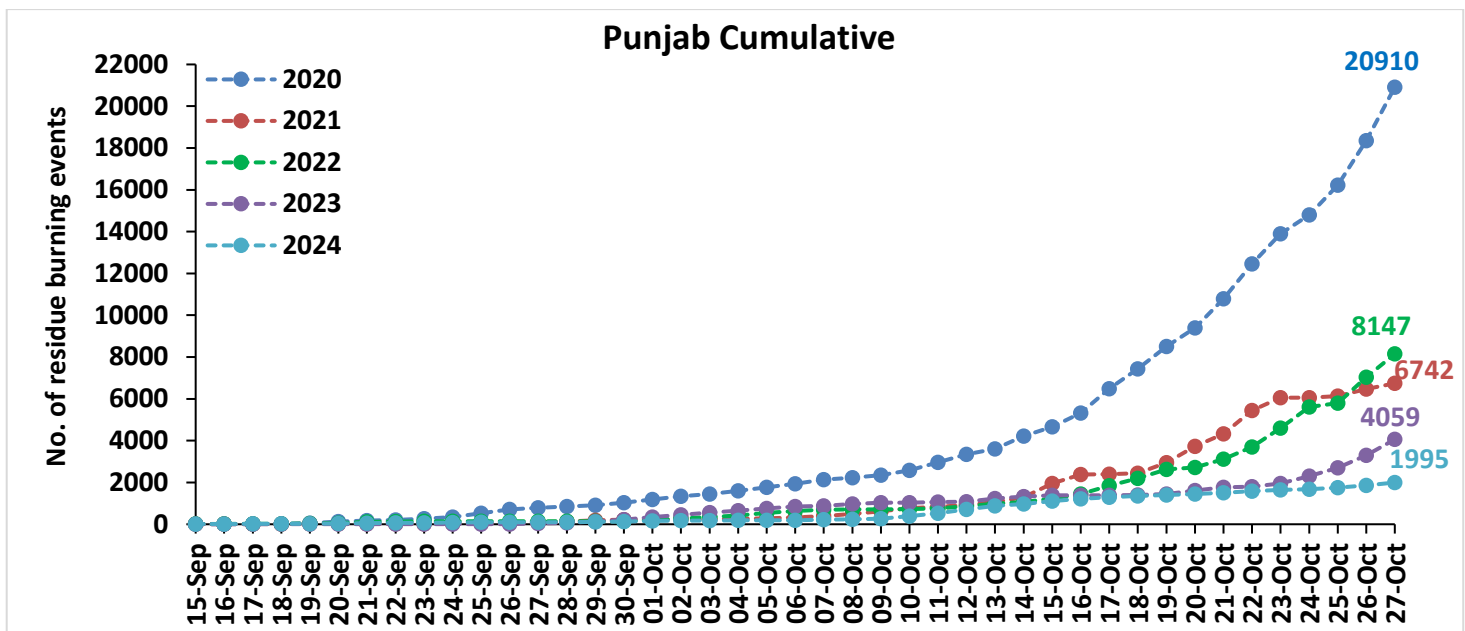


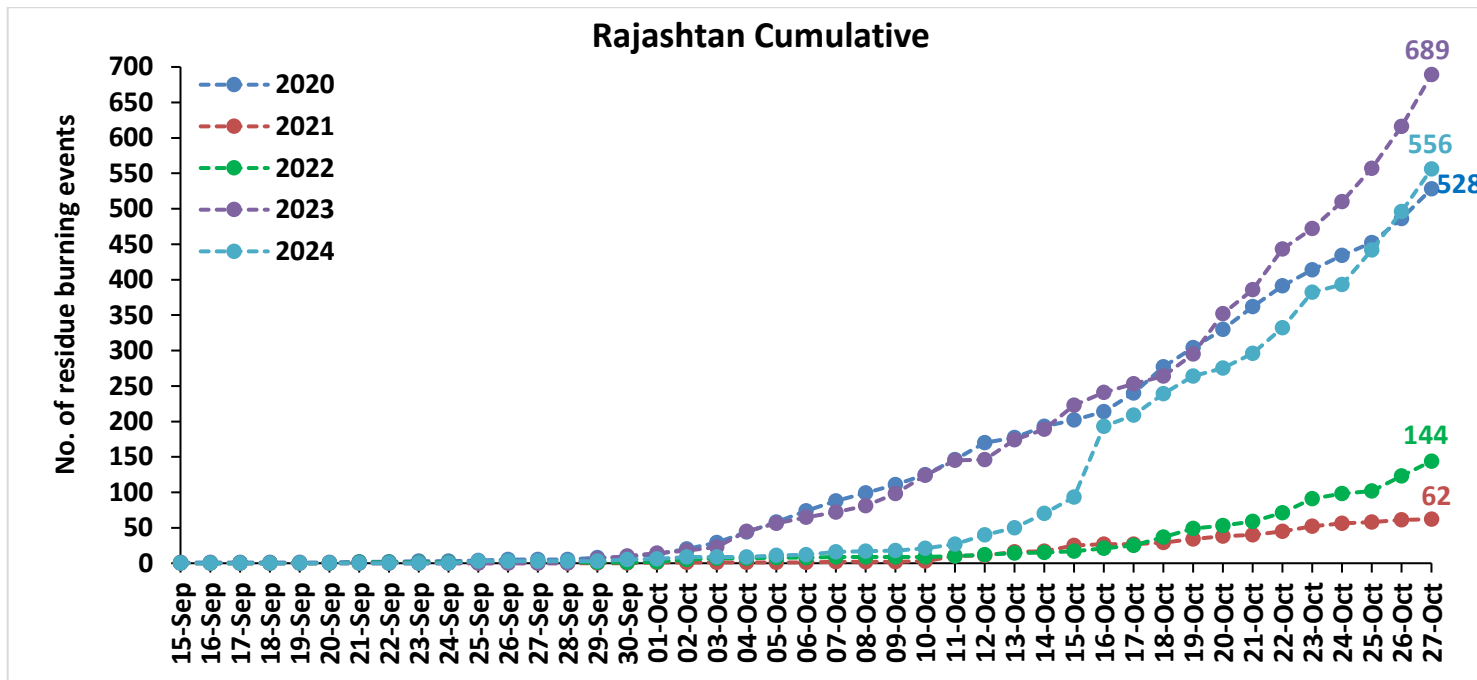
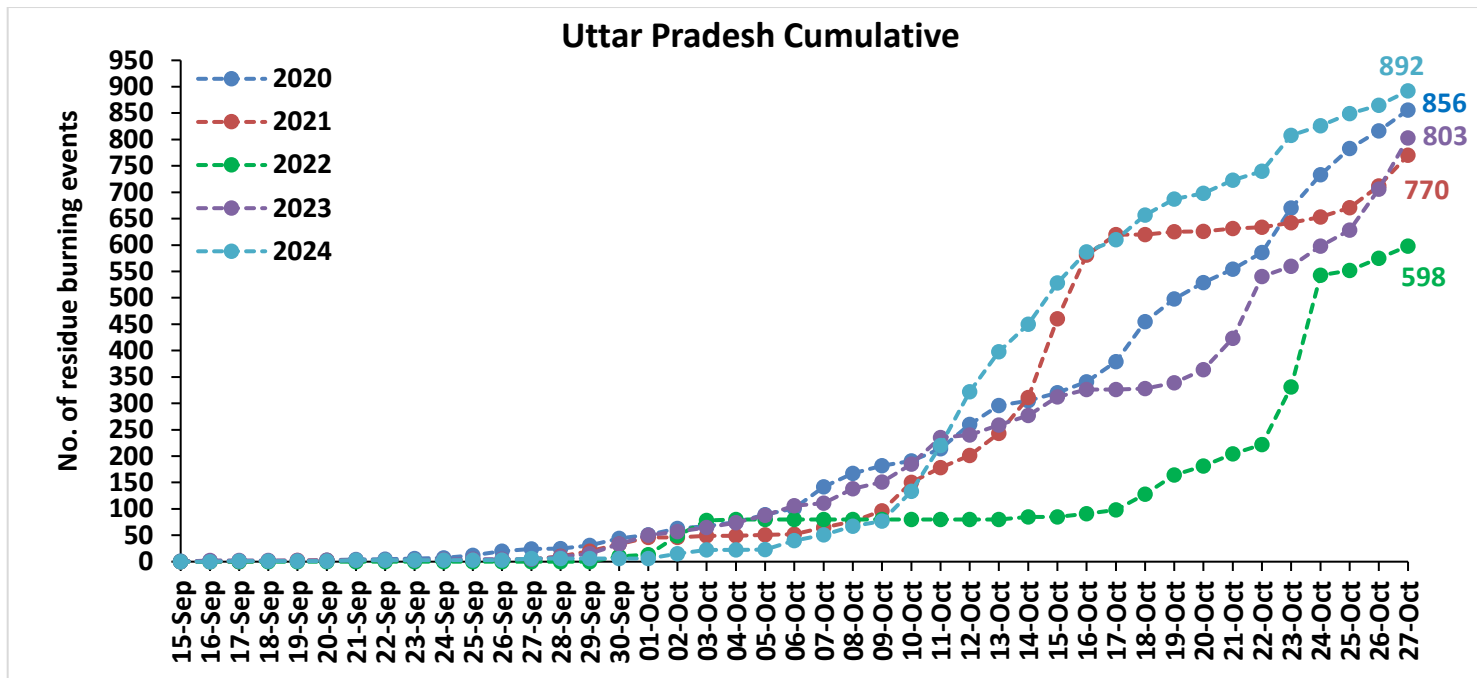
### Madhya Pradesh

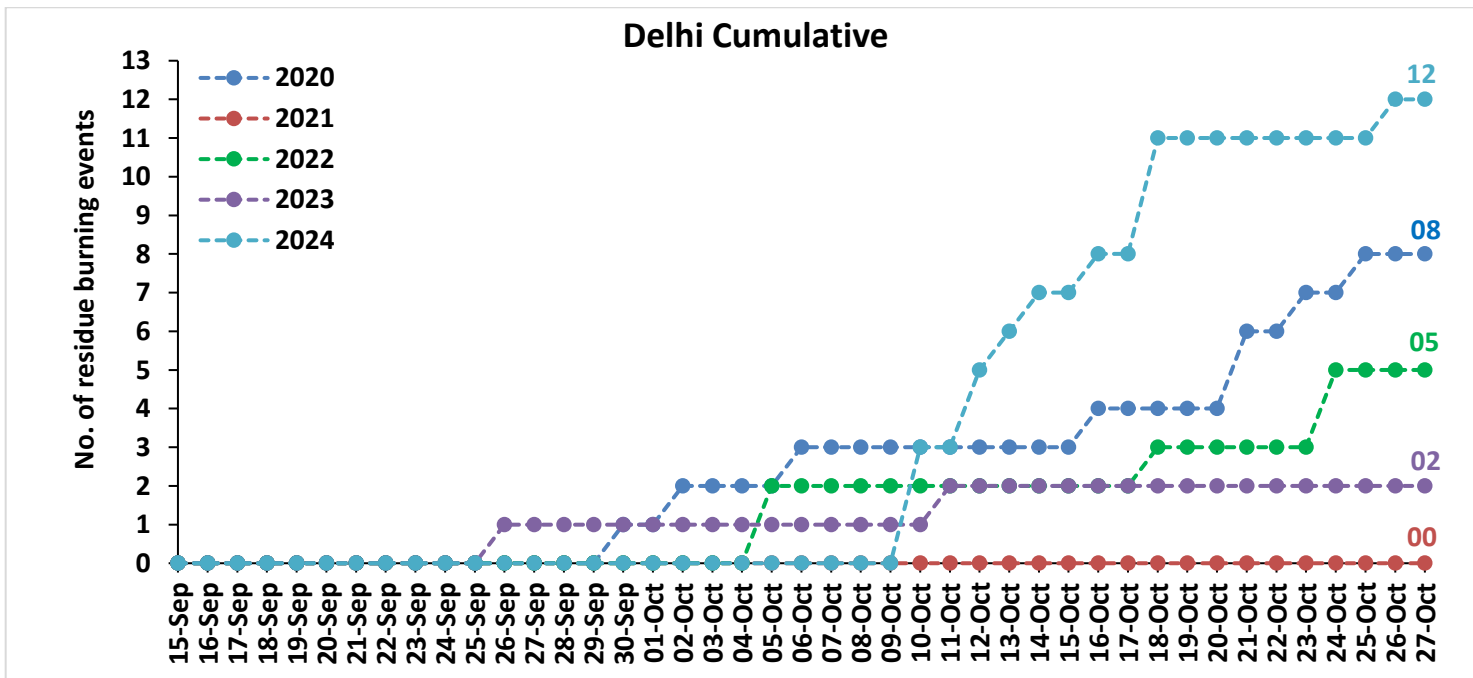
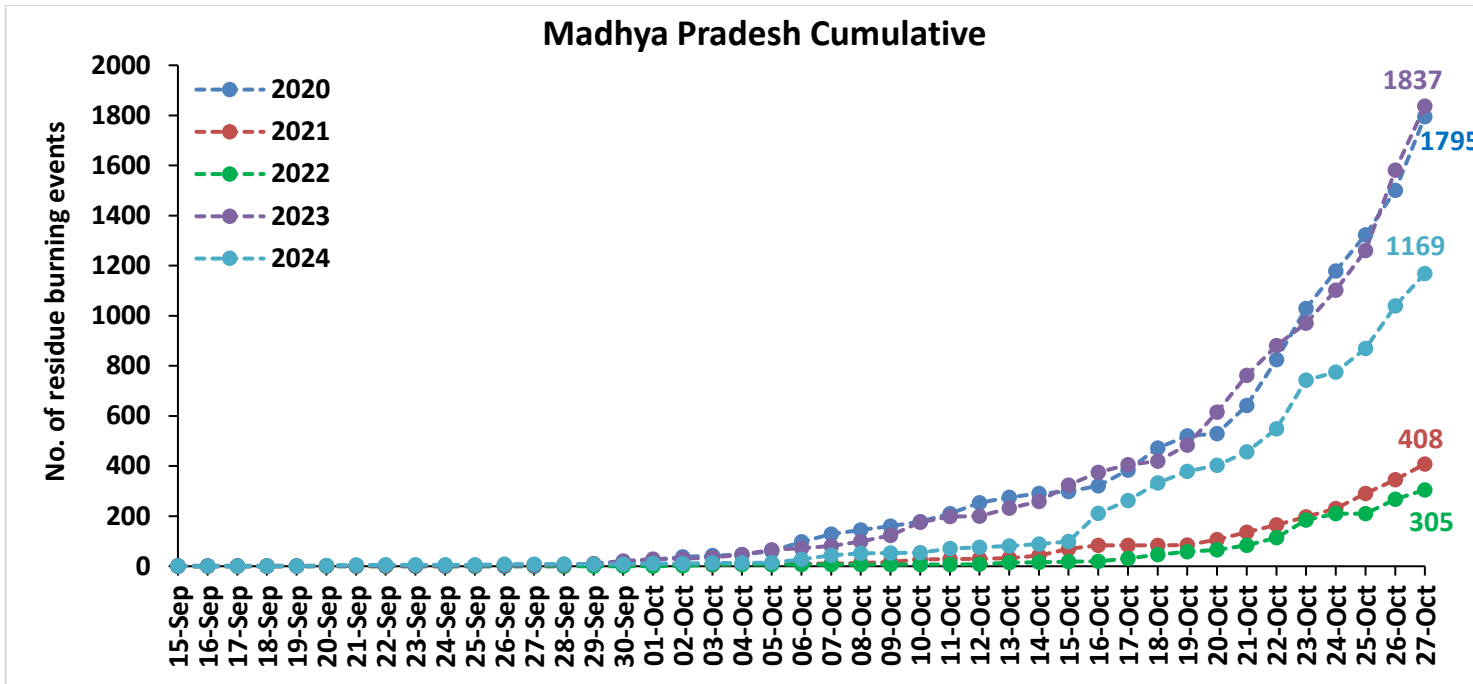




**Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States**

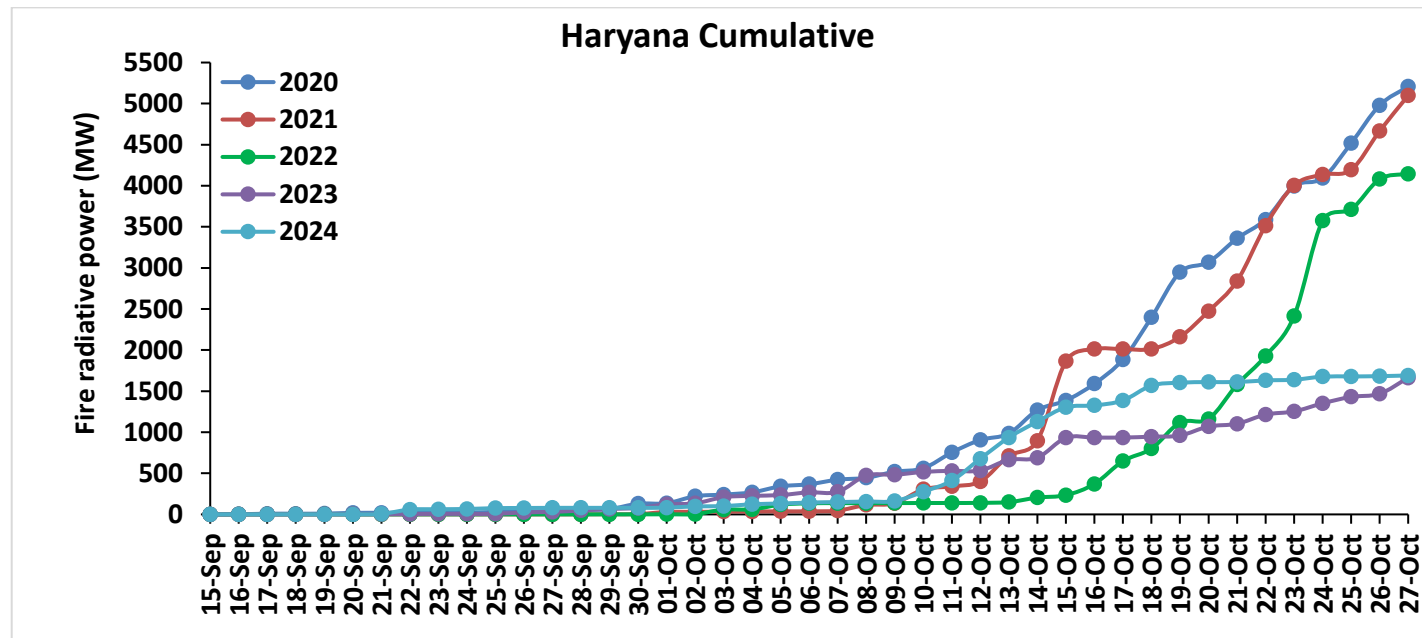
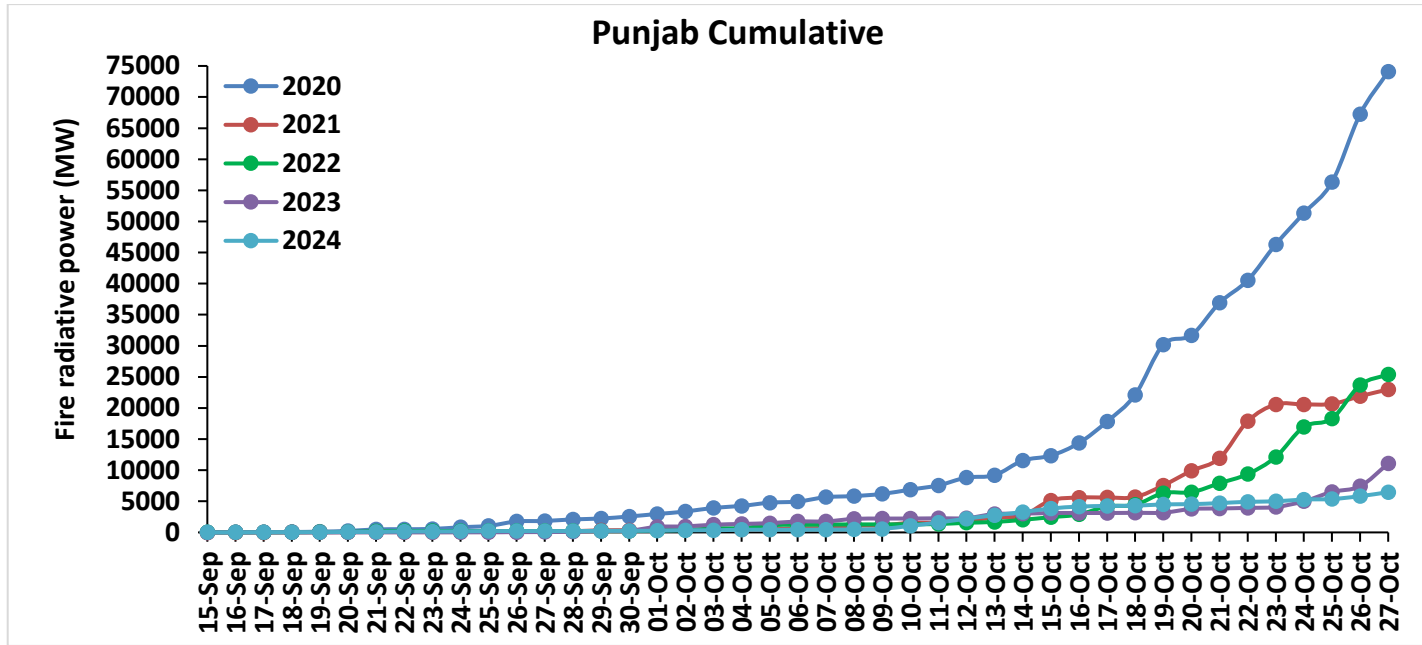




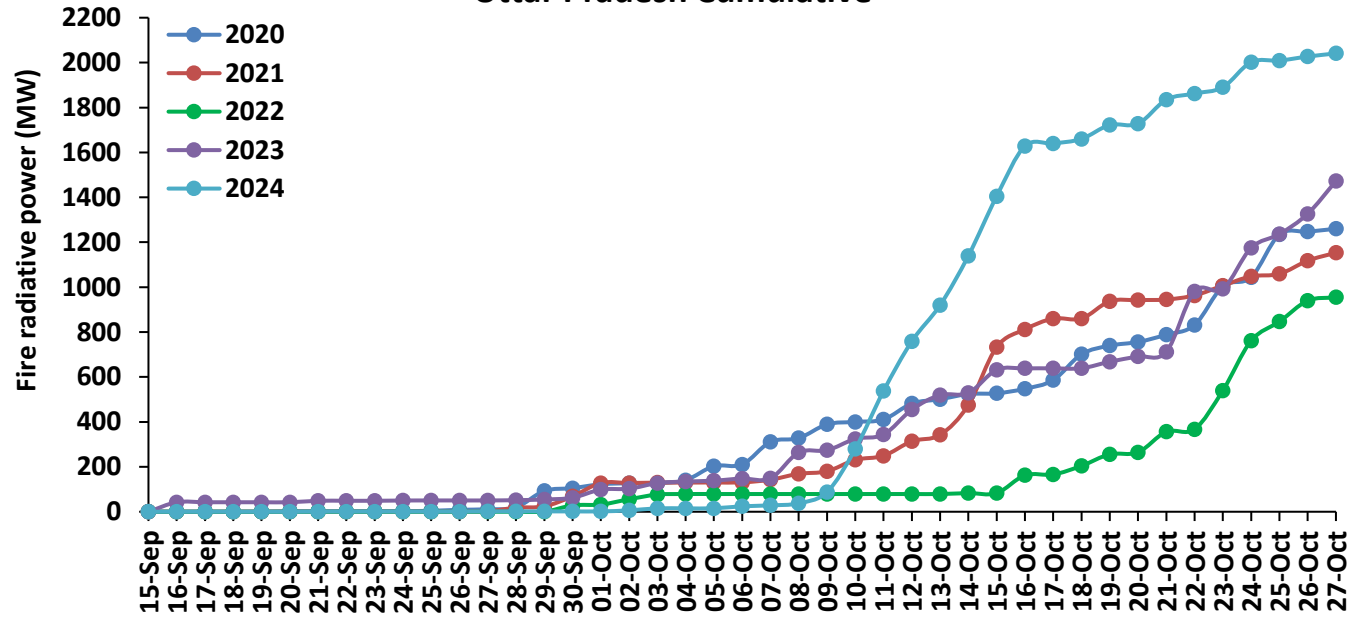




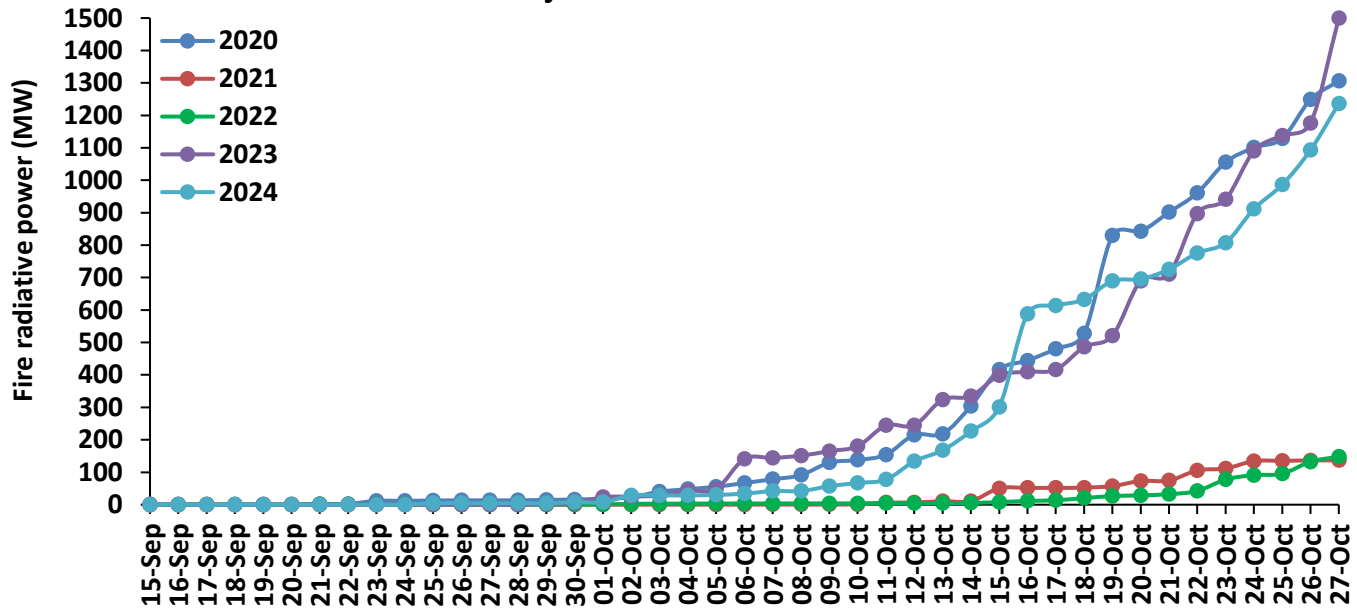
**Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States**



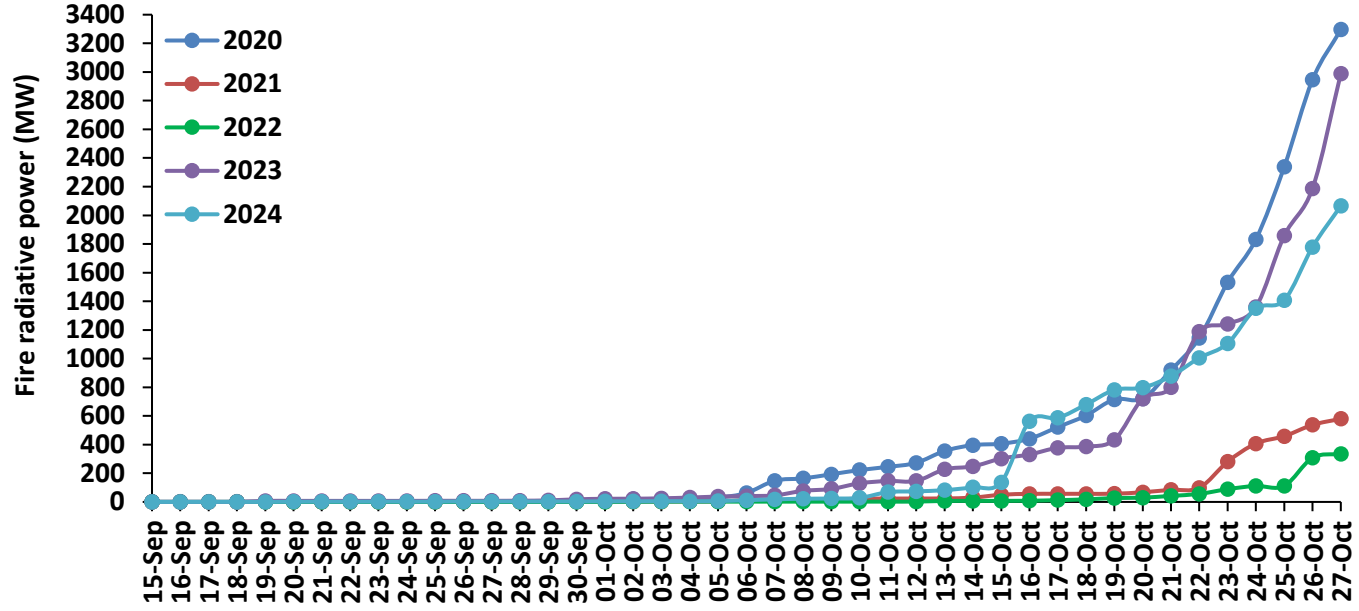
### Uttar Pradesh Cumulative



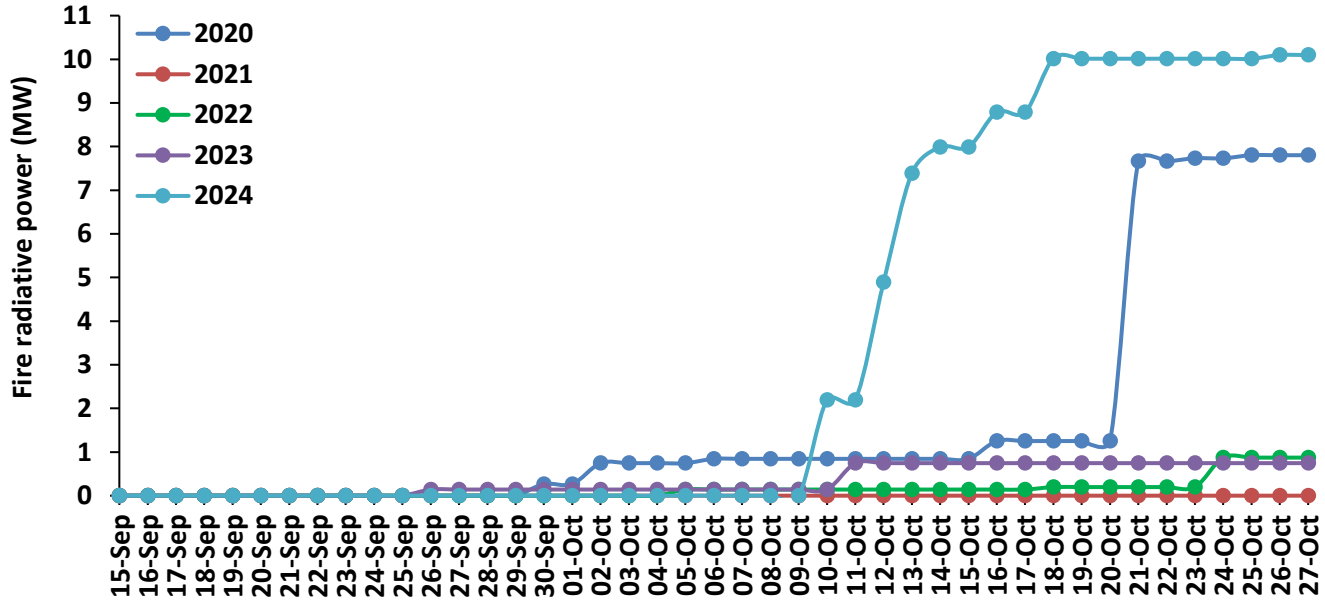
### Rajasthan Cumulative



### Madhya Pradesh Cumulative

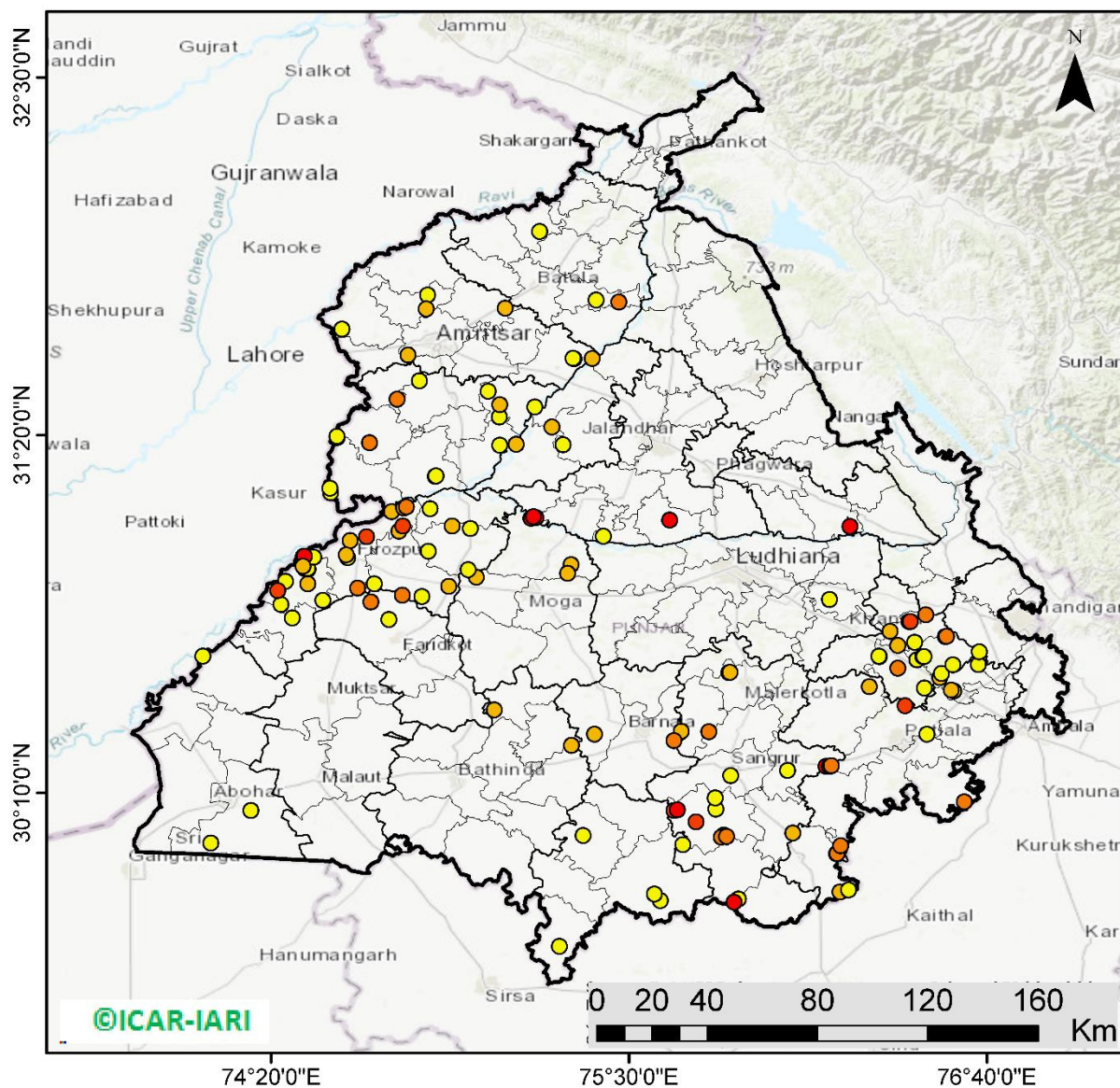


### Delhi Cumulative



# Punjab

## RICE RESIDUE BURNING IN PUNJAB



**138** burning events  
detected in Punjab during  
(27th Oct 2024)

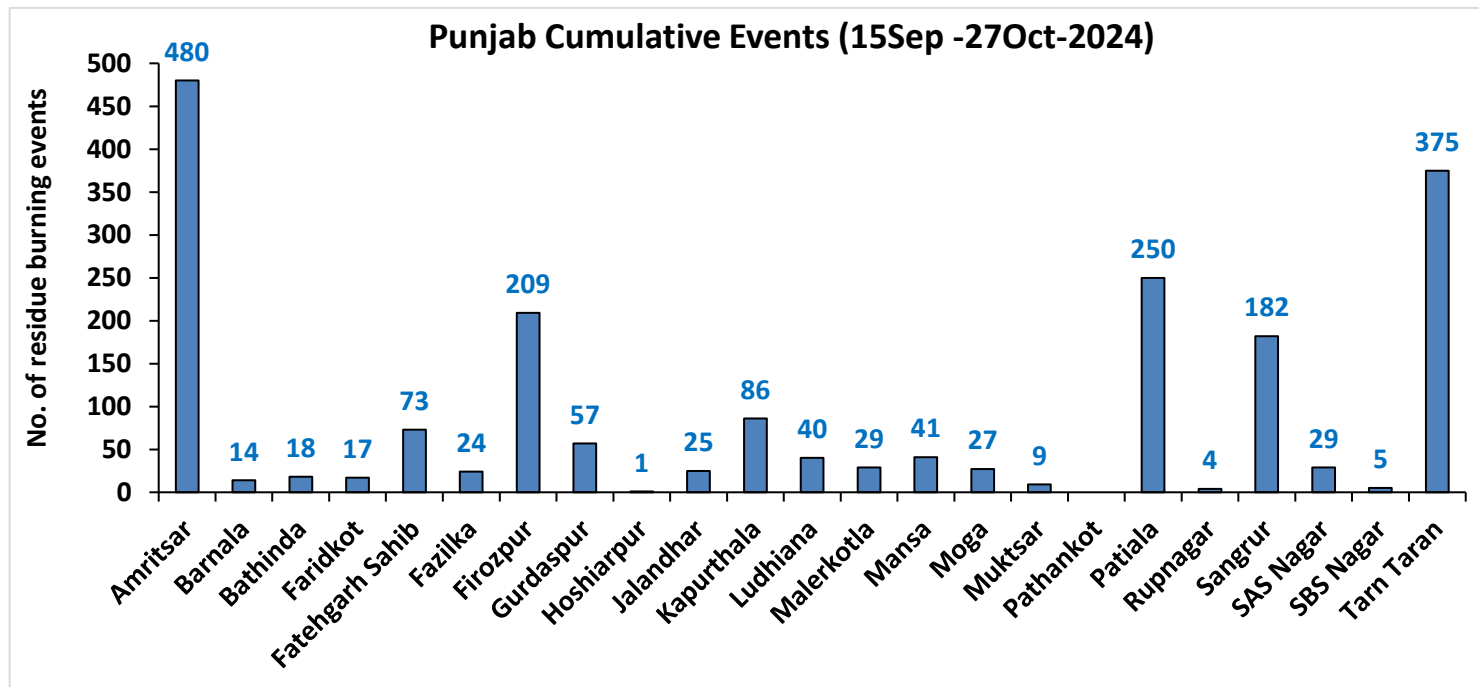
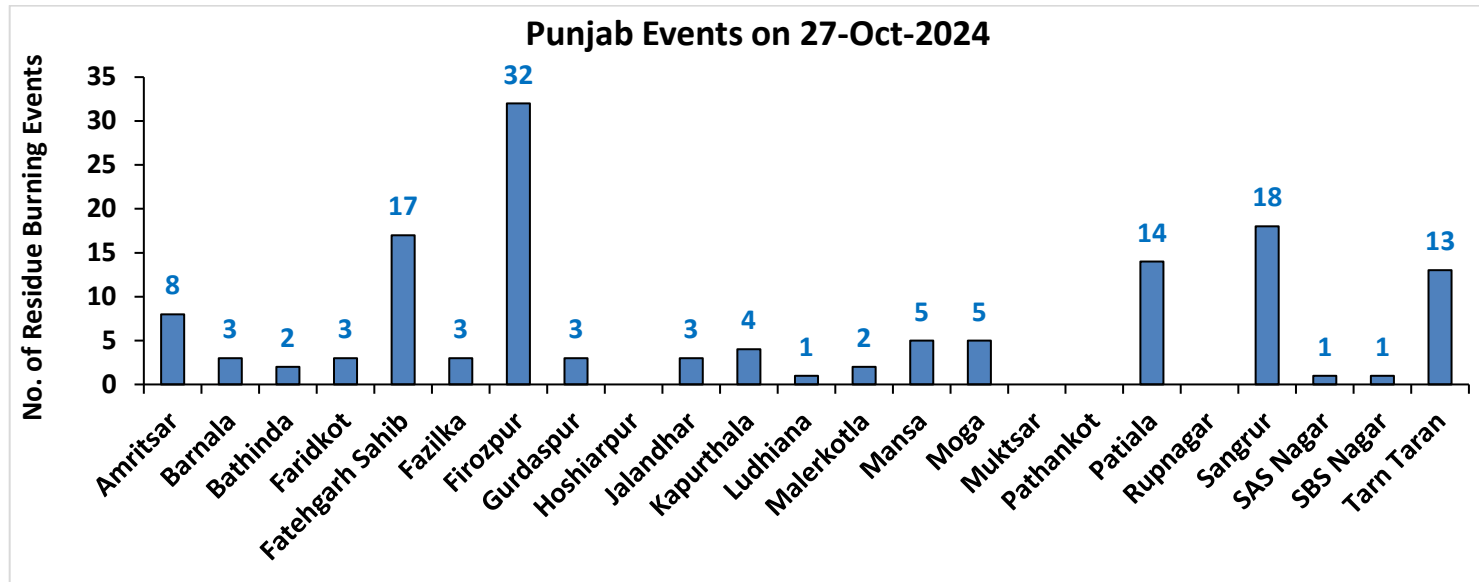
### Fire Intensity (W/m<sup>2</sup>)

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



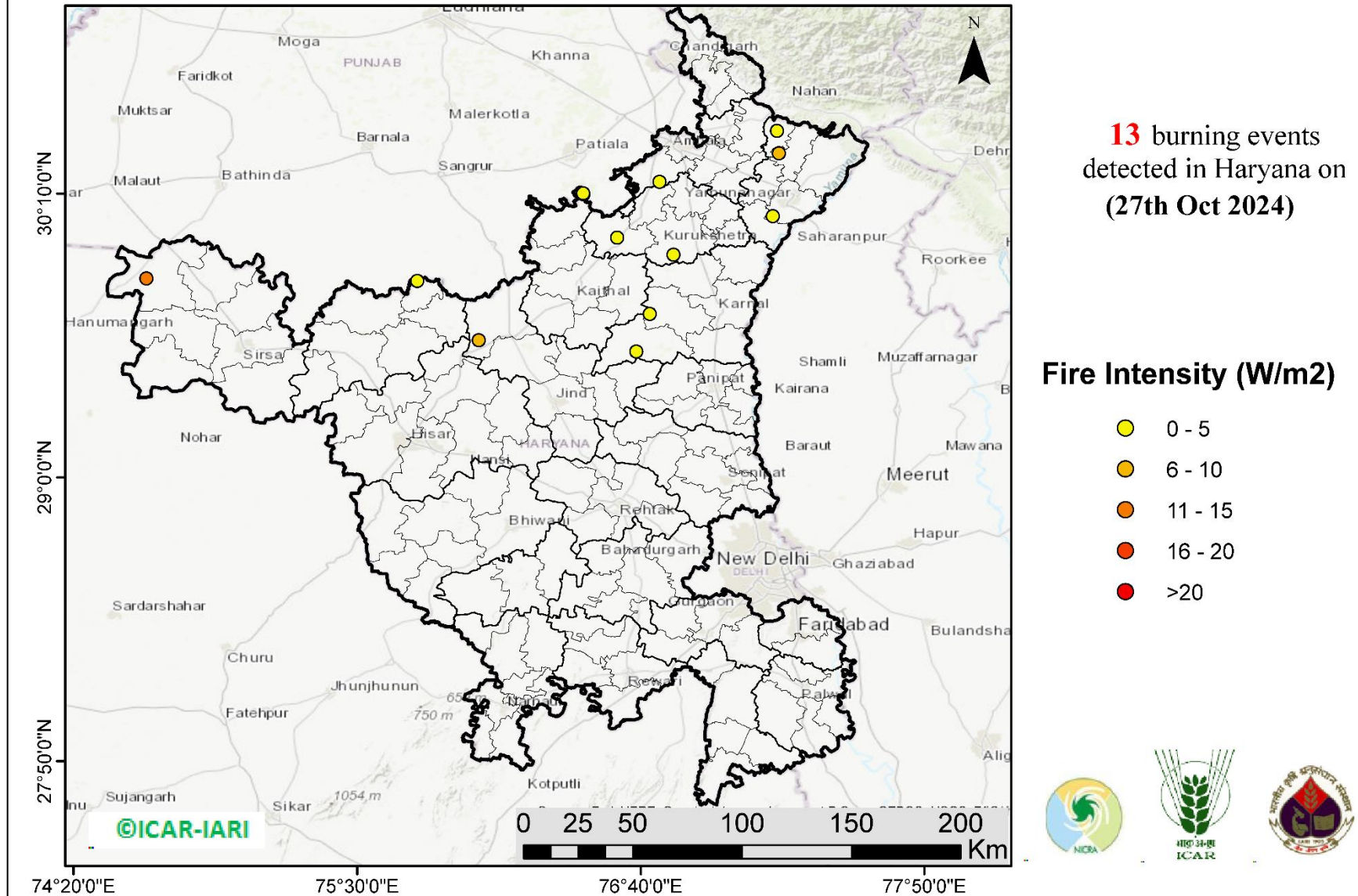
[http://103.111.37.126/icar\\_geoportal/](http://103.111.37.126/icar_geoportal/)

## District-wise cumulative number of residues burning events in Punjab (15Sep-27Oct-2024)



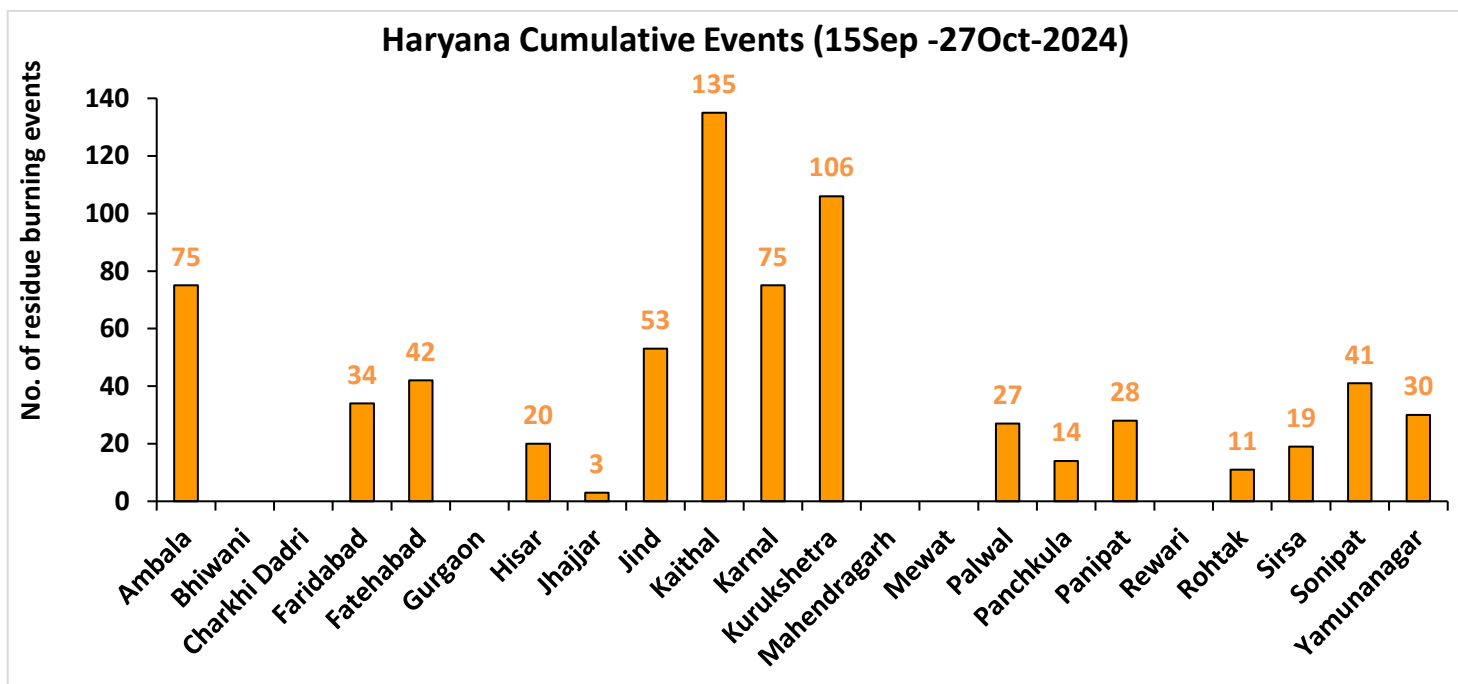
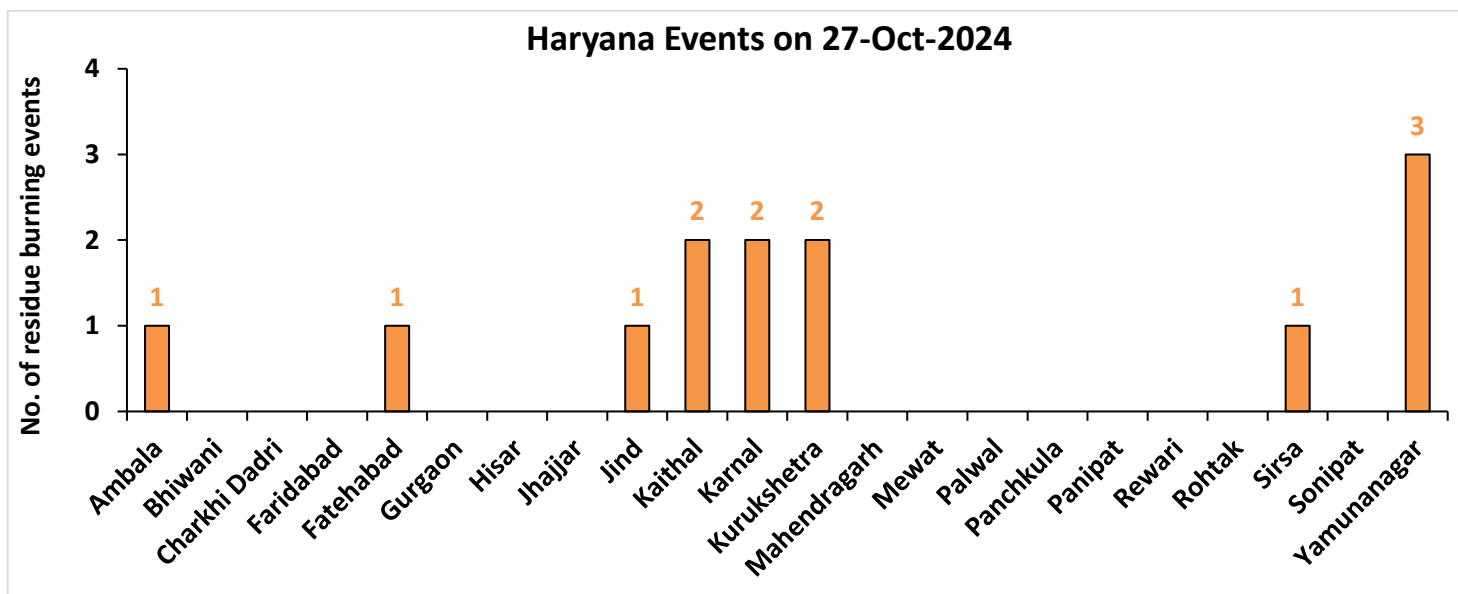
# Haryana

## RICE RESIDUE BURNING IN HARYANA



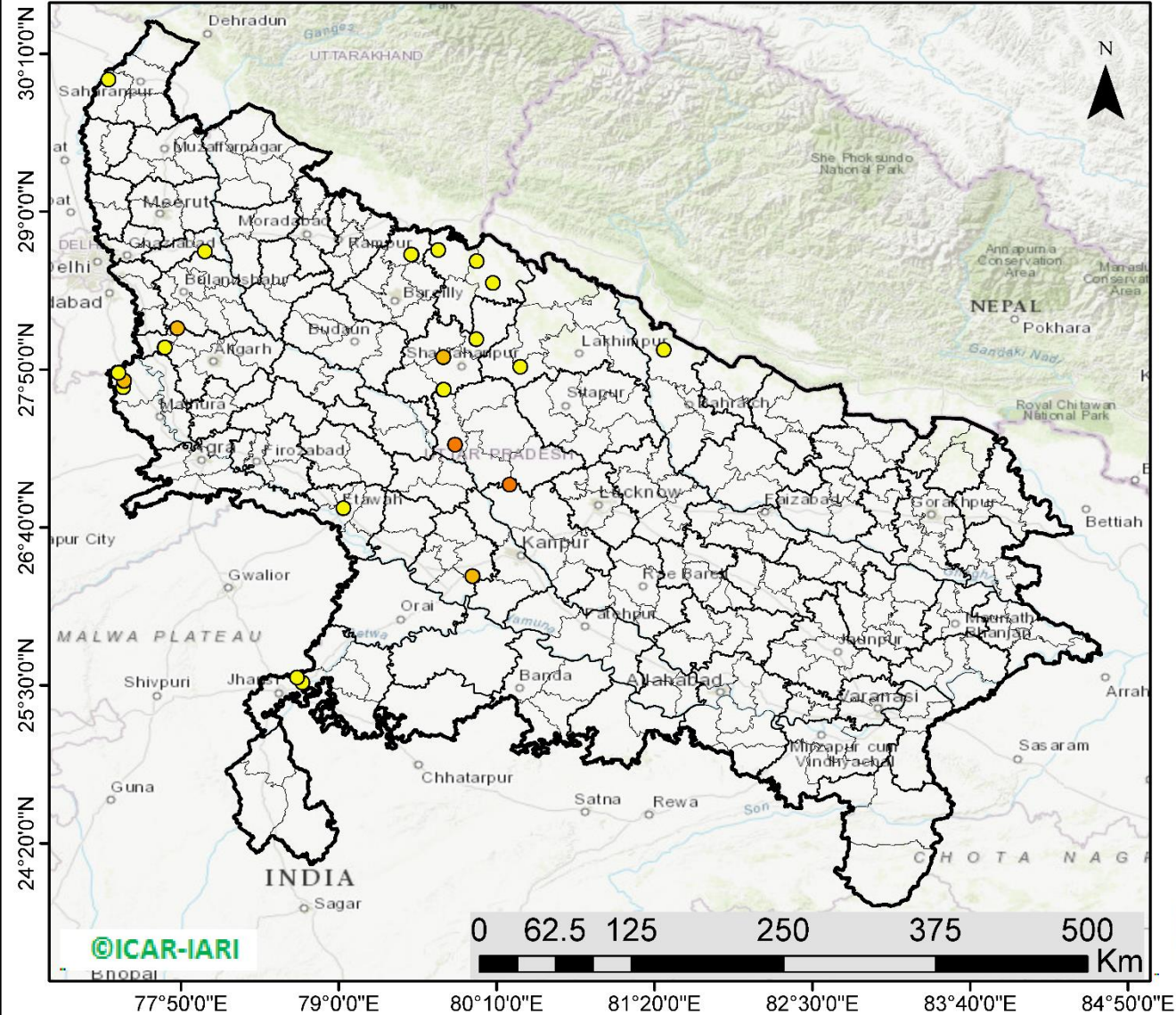
[http://103.111.37.126/icar\\_geoportal/](http://103.111.37.126/icar_geoportal/)

## District-wise cumulative number of residues burning events in Haryana (15Sep-27Oct-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



27 burning events detected in Uttar Pradesh on (27th Oct 2024)

Fire Intensity (W/m<sup>2</sup>)

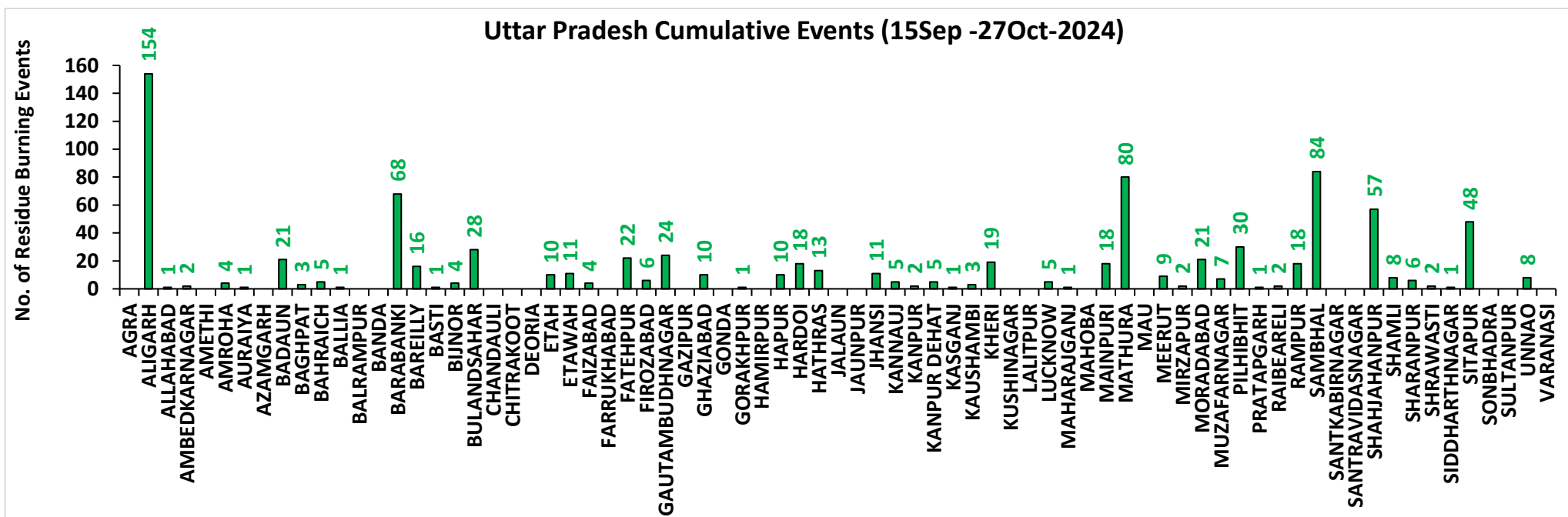
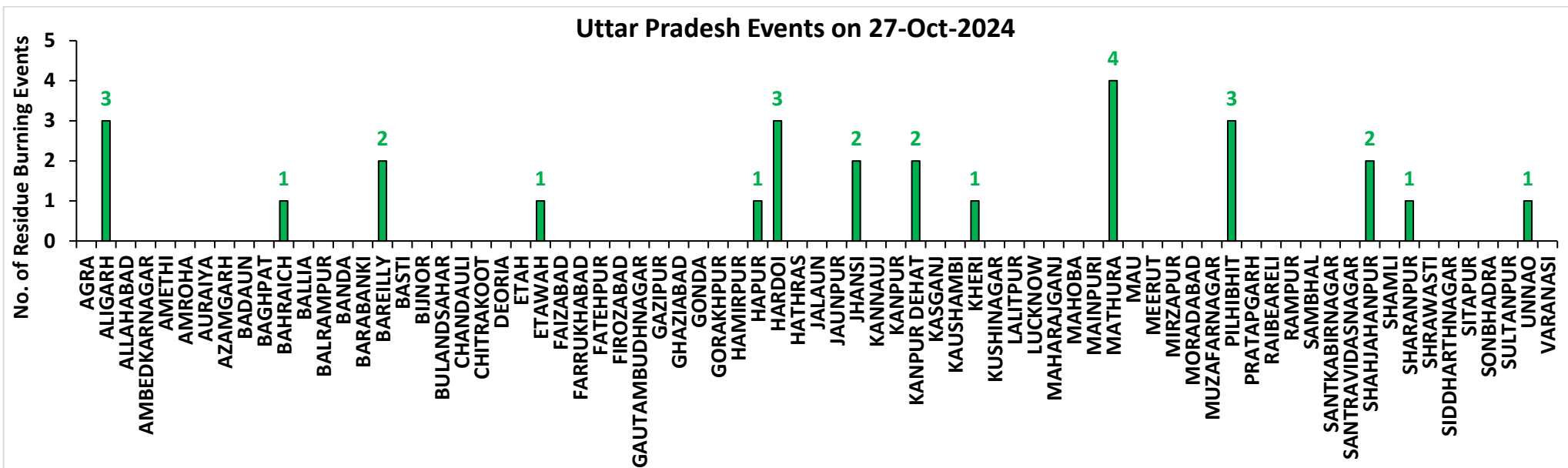
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



[http://103.111.37.126/icar\\_geoportal/](http://103.111.37.126/icar_geoportal/)

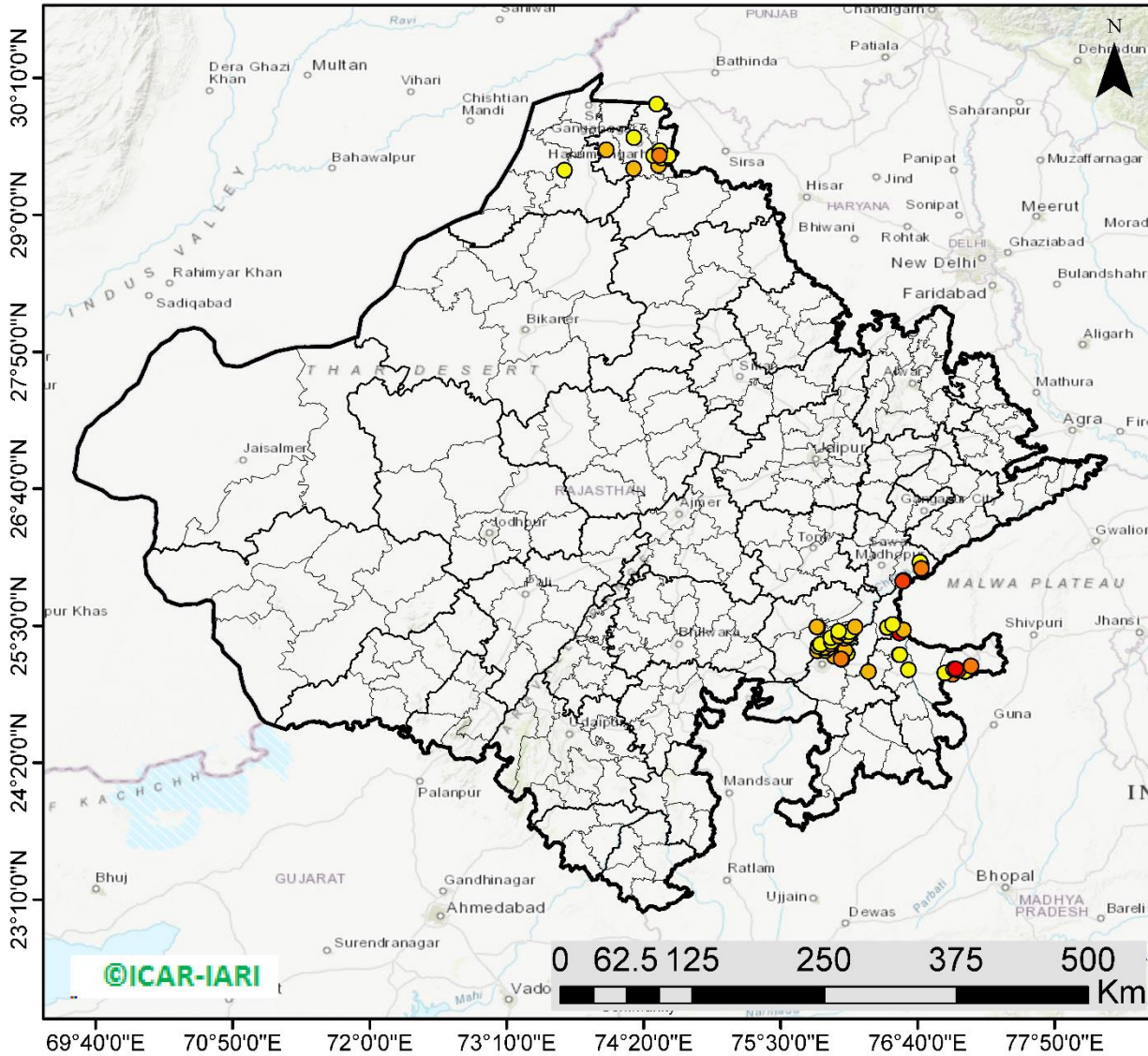


## District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-27Oct-2024)



# Rajasthan

## RICE RESIDUE BURNING IN RAJASTHAN



**60** burning events  
detected in Rajasthan on  
(27th Oct 2024)

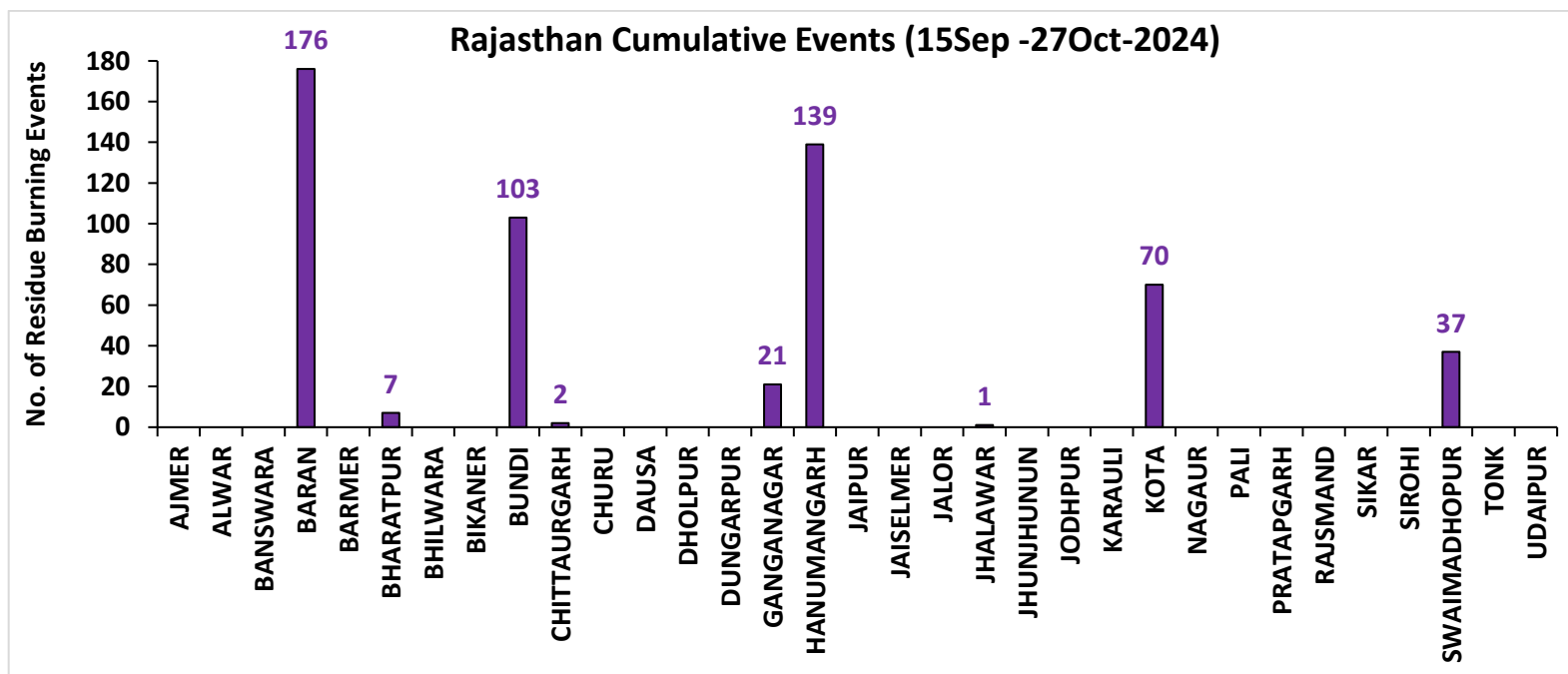
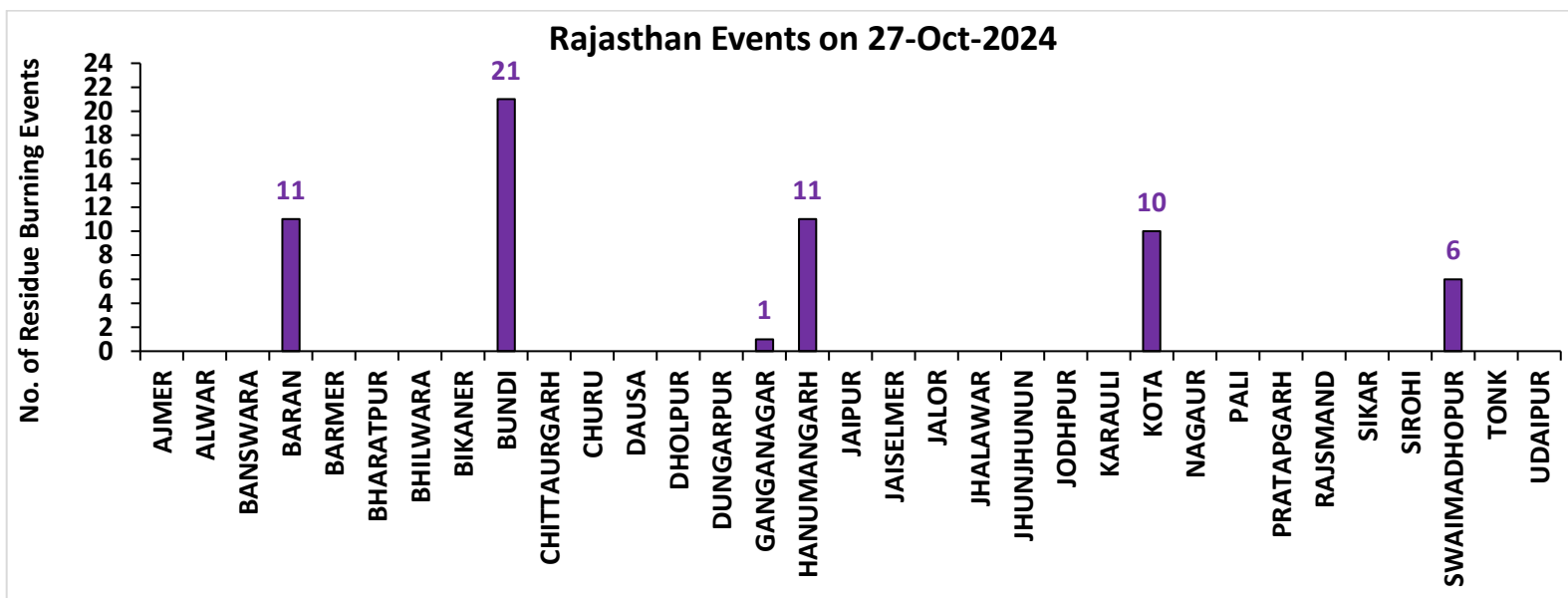
### Fire Intensity (W/m<sup>2</sup>)

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



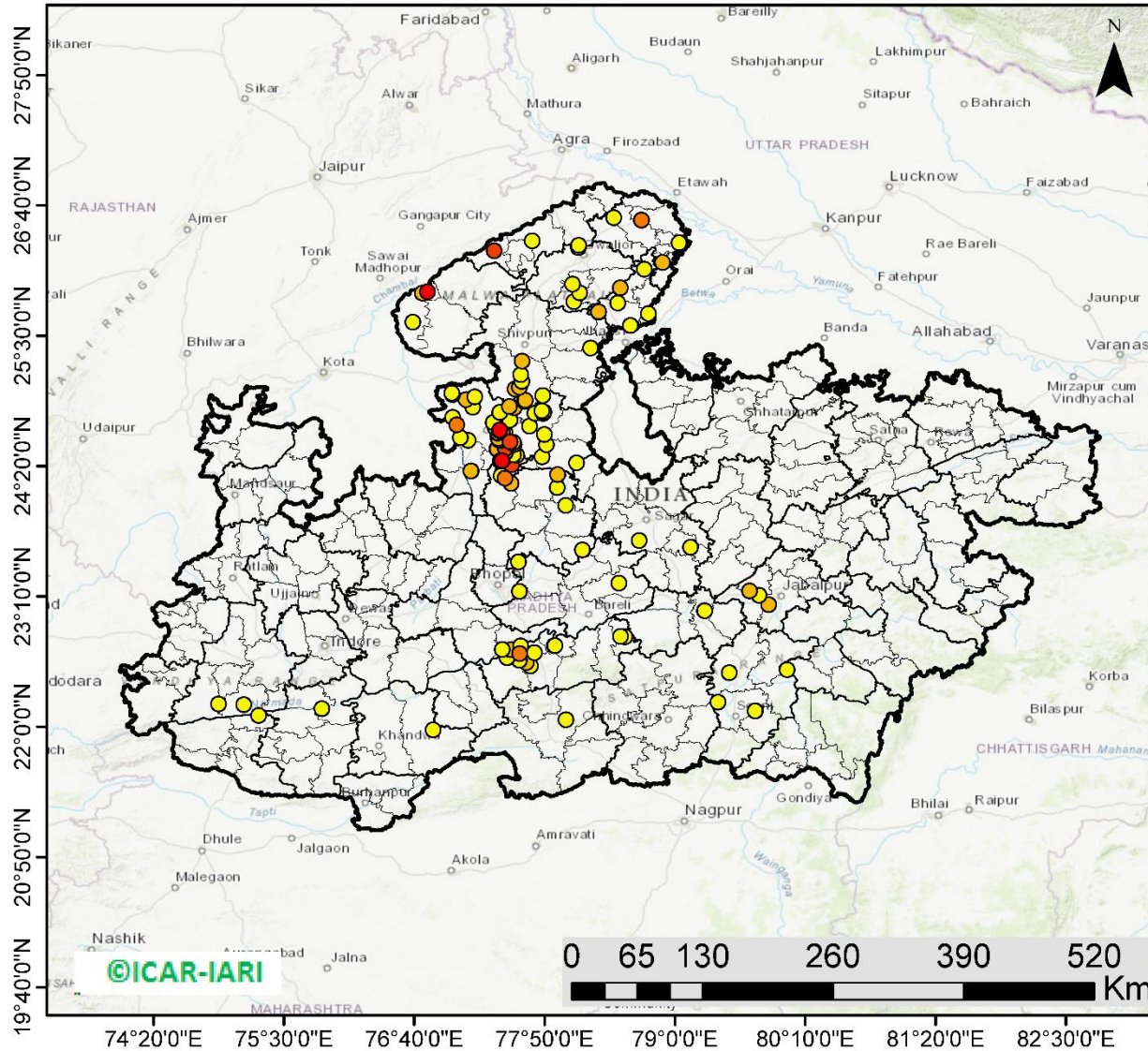
[http://103.111.37.126/icar\\_geportal/](http://103.111.37.126/icar_geportal/)

## District-wise cumulative number of residues burning events in Rajasthan (15Sep-27Oct-2024)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



**130** burning events detected in MP on (27th Oct 2024)

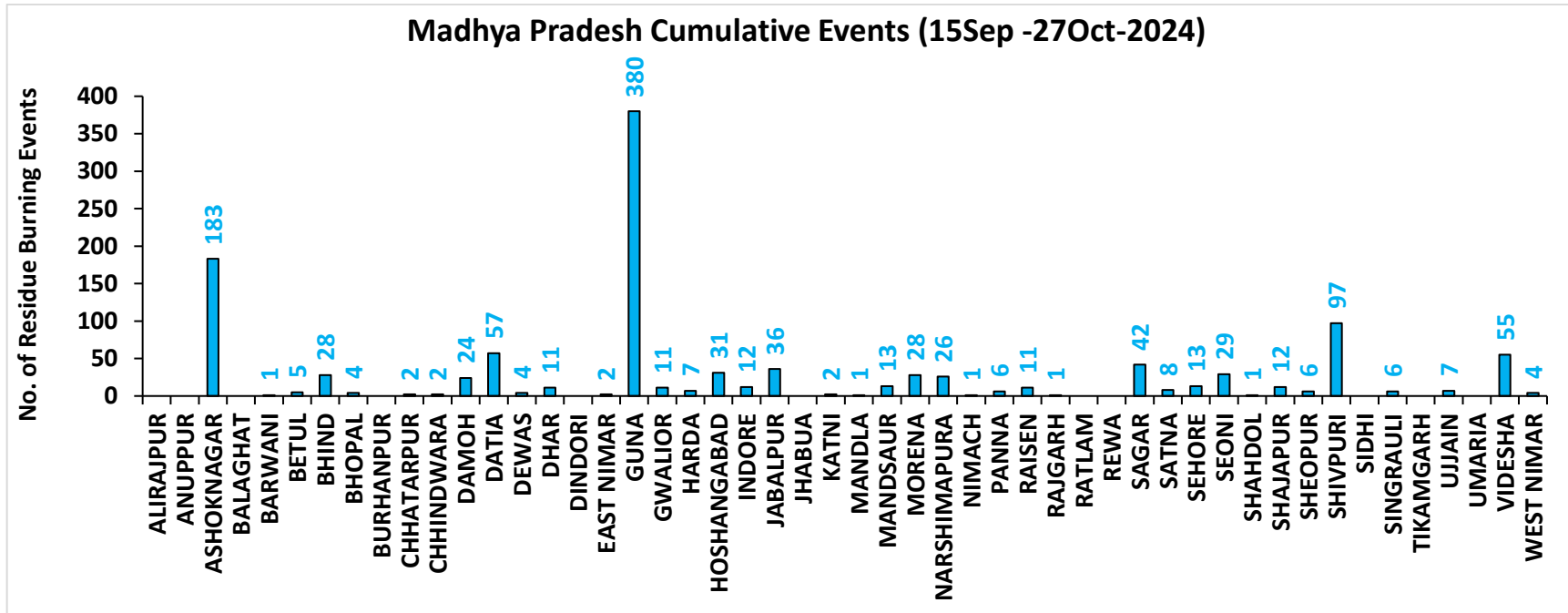
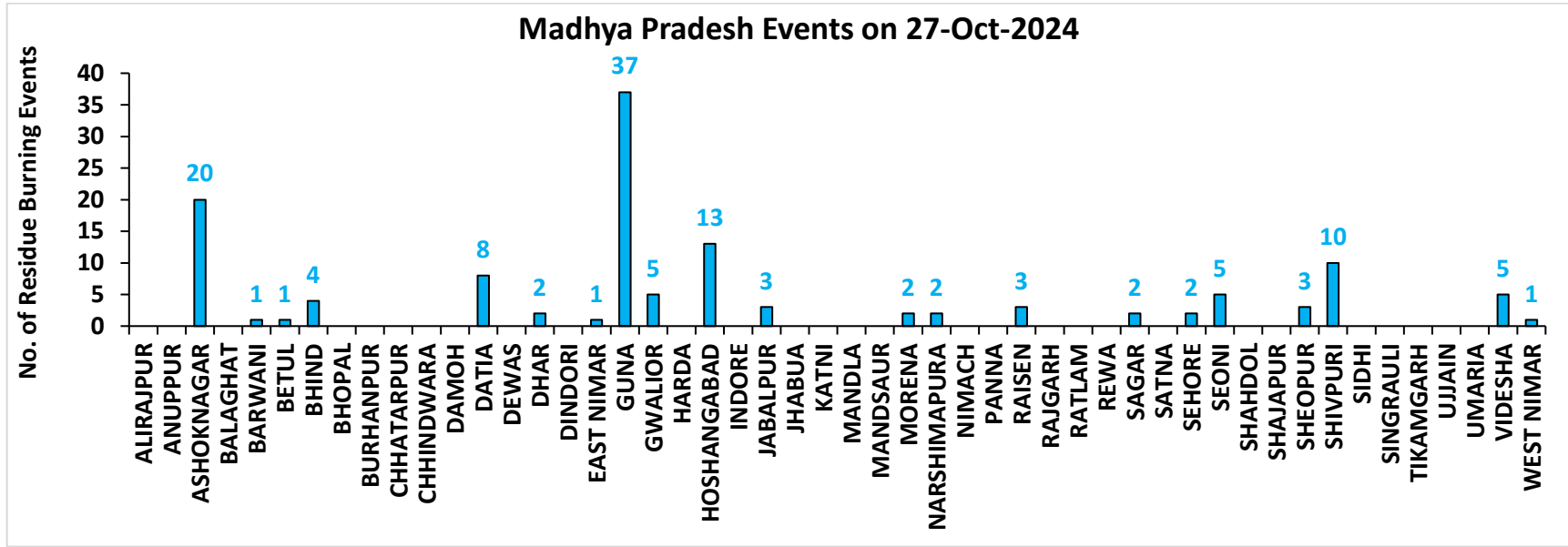
### Fire Intensity (W/m<sup>2</sup>)

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



[http://103.111.37.126/icar\\_geoportal/](http://103.111.37.126/icar_geoportal/)

## District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-27Oct-2024)



**District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024**  
**(Period: 15 September-27 October)**

**(a) Punjab**

| District           | 15 Sep-27 Oct |             |             |             |             |
|--------------------|---------------|-------------|-------------|-------------|-------------|
|                    | 2020          | 2021        | 2022        | 2023        | 2024        |
| Amritsar           | 2523          | 966         | 1188        | 1001        | 480         |
| Barnala            | 239           | 65          | 115         | 41          | 14          |
| Bathinda           | 390           | 116         | 196         | 46          | 18          |
| Faridkot           | 1066          | 392         | 79          | 59          | 17          |
| Fatehgarh Sahib    | 672           | 286         | 346         | 197         | 73          |
| Fazilka            | 302           | 94          | 87          | 38          | 24          |
| Firozpur           | 2904          | 440         | 495         | 323         | 209         |
| Gurdaspur          | 1585          | 394         | 661         | 81          | 57          |
| Hoshiarpur         | 264           | 67          | 86          | 6           | 1           |
| Jalandhar          | 544           | 285         | 394         | 107         | 25          |
| Kapurthala         | 1083          | 411         | 550         | 183         | 86          |
| Ludhiana           | 677           | 416         | 364         | 165         | 40          |
| Malerkotla         | 0             | 0           | 0           | 18          | 29          |
| Mansa              | 282           | 45          | 104         | 180         | 41          |
| Moga               | 488           | 179         | 193         | 136         | 27          |
| Muktsar            | 553           | 149         | 75          | 23          | 9           |
| Pathankot          | 8             | 0           | 0           | 1           | 0           |
| Patiala            | 1932          | 608         | 810         | 503         | 250         |
| Rupnagar           | 91            | 46          | 74          | 7           | 4           |
| Sangrur            | 1105          | 168         | 519         | 338         | 182         |
| SAS NAGAR (Mohali) | 92            | 55          | 60          | 100         | 29          |
| SBS Nagar          | 42            | 34          | 13          | 16          | 5           |
| Tarn Taran         | 4068          | 1526        | 1738        | 490         | 375         |
| <b>Total</b>       | <b>20910</b>  | <b>6742</b> | <b>8147</b> | <b>4059</b> | <b>1995</b> |

**(b) Haryana**

| District      | 15 Sep-27 Oct |             |             |             |            |
|---------------|---------------|-------------|-------------|-------------|------------|
|               | 2020          | 2021        | 2022        | 2023        | 2024       |
| AMBALA        | 259           | 111         | 112         | 137         | 75         |
| BHIWANI       | 0             | 0           | 0           | 2           | 0          |
| CHARKHI DADRI | 0             | 0           | 0           | 0           | 0          |
| FARIDABAD     | 1             | 2           | 1           | 3           | 34         |
| FATEHABAD     | 152           | 143         | 191         | 148         | 42         |
| GURGAON       | 0             | 0           | 0           | 0           | 0          |
| HISAR         | 10            | 8           | 27          | 61          | 20         |
| JHAJJAR       | 1             | 0           | 0           | 5           | 3          |
| JIND          | 64            | 102         | 134         | 123         | 53         |
| KAITHAL       | 433           | 586         | 438         | 135         | 135        |
| KARNAL        | 456           | 620         | 230         | 58          | 75         |
| KURUKSHETRA   | 359           | 373         | 263         | 119         | 106        |
| MAHENDRAGARH  | 0             | 0           | 0           | 0           | 0          |
| MEWAT         | 0             | 0           | 0           | 0           | 0          |
| PALWAL        | 32            | 32          | 21          | 49          | 27         |
| PANCHKULA     | 0             | 0           | 0           | 1           | 14         |
| PANIPAT       | 14            | 24          | 24          | 20          | 28         |
| REWARI        | 0             | 0           | 0           | 0           | 0          |
| ROHTAK        | 5             | 0           | 0           | 9           | 11         |
| SIRSA         | 41            | 20          | 33          | 19          | 19         |
| SONIPAT       | 17            | 8           | 13          | 53          | 41         |
| YAMUNANAGAR   | 101           | 74          | 91          | 63          | 30         |
| <b>Total</b>  | <b>1945</b>   | <b>2103</b> | <b>1578</b> | <b>1005</b> | <b>713</b> |

## (c) Uttar Pradesh

| District      | 15 Sep-27 Oct |      |      |      |      |                 |    |    |    |    |    |                  |            |            |            |            |            |
|---------------|---------------|------|------|------|------|-----------------|----|----|----|----|----|------------------|------------|------------|------------|------------|------------|
|               | 2020          | 2021 | 2022 | 2023 | 2024 | GAUTAMBUDHNAGAR | 6  | 9  | 7  | 9  | 24 | MUZAFARNAGAR     | 3          | 2          | 1          | 2          | 7          |
| AGRA          | 2             | 0    | 0    | 4    | 0    | GAZIPUR         | 0  | 0  | 0  | 0  | 0  | PILHIBHIT        | 10         | 113        | 85         | 76         | 30         |
| ALIGARH       | 65            | 25   | 24   | 78   | 154  | GHAZIABAD       | 6  | 2  | 2  | 12 | 10 | PRATAPGARH       | 4          | 0          | 0          | 2          | 1          |
| ALLAHABAD     | 0             | 2    | 2    | 2    | 1    | GONDA           | 0  | 0  | 0  | 0  | 0  | RAIBEARELI       | 1          | 0          | 2          | 3          | 2          |
| AMBEDKARNAGAR | 0             | 0    | 0    | 0    | 2    | GORAKHPUR       | 1  | 0  | 0  | 1  | 1  | RAMPUR           | 68         | 54         | 46         | 52         | 18         |
| AMETHI        | 1             | 2    | 4    | 2    | 0    | HAMIRPUR        | 1  | 0  | 0  | 0  | 0  | SAMBHAL          | 7          | 7          | 7          | 13         | 84         |
| AMROHA        | 2             | 0    | 0    | 2    | 4    | HAPUR           | 7  | 2  | 1  | 0  | 10 | SANTKABIRNAGAR   | 0          | 0          | 1          | 1          | 0          |
| AURAIYA       | 19            | 9    | 7    | 12   | 1    | HARDOI          | 21 | 7  | 8  | 26 | 18 | SANTRAVIDASNAGAR | 0          | 0          | 0          | 0          | 0          |
| AZAMGARH      | 0             | 0    | 0    | 1    | 0    | HATHRAS         | 0  | 0  | 0  | 2  | 13 | SHAHJAHANPUR     | 54         | 195        | 195        | 40         | 57         |
| BADAUN        | 2             | 6    | 0    | 4    | 21   | JALAUN          | 1  | 0  | 0  | 0  | 0  | SHAMLI           | 23         | 17         | 6          | 5          | 8          |
| BAGHPAT       | 5             | 1    | 1    | 1    | 3    | JAUNPUR         | 0  | 1  | 0  | 1  | 0  | SHARANPUR        | 48         | 25         | 5          | 8          | 6          |
| BAHRAICH      | 33            | 6    | 5    | 3    | 5    | JHANSI          | 33 | 7  | 1  | 36 | 11 | SHRAWASTI        | 11         | 3          | 0          | 5          | 2          |
| BALLIA        | 0             | 0    | 0    | 0    | 1    | KANNAUJ         | 9  | 2  | 0  | 1  | 5  | SIDDHARTHANAGAR  | 0          | 0          | 0          | 0          | 1          |
| BALRAMPUR     | 5             | 2    | 1    | 2    | 0    | KANPUR          | 6  | 7  | 10 | 21 | 2  | SITAPUR          | 24         | 16         | 5          | 7          | 48         |
| BANDA         | 0             | 0    | 0    | 0    | 0    | KANPUR DEHAT    | 17 | 2  | 0  | 24 | 5  | SONBHADRA        | 0          | 0          | 0          | 0          | 0          |
| BARABANKI     | 23            | 24   | 22   | 45   | 68   | KASGANJ         | 2  | 2  | 0  | 2  | 1  | SULTANPUR        | 1          | 0          | 0          | 1          | 0          |
| BAREILLY      | 25            | 18   | 11   | 26   | 16   | KAUSHAMBI       | 18 | 8  | 3  | 21 | 3  | UNNAO            | 7          | 1          | 0          | 13         | 8          |
| BASTI         | 3             | 1    | 0    | 1    | 1    | KHERI           | 55 | 65 | 67 | 9  | 19 | VARANASI         | 1          | 0          | 0          | 0          | 0          |
| BIJNOR        | 8             | 5    | 2    | 6    | 4    | KUSHINAGAR      | 0  | 0  | 0  | 0  | 0  | <b>Total</b>     | <b>856</b> | <b>770</b> | <b>598</b> | <b>803</b> | <b>892</b> |
| BULANDSAHAR   | 19            | 2    | 7    | 6    | 28   | LALITPUR        | 0  | 1  | 3  | 2  | 0  |                  |            |            |            |            |            |
| CHANDAULI     | 0             | 0    | 0    | 0    | 0    | LUCKNOW         | 4  | 5  | 1  | 4  | 5  |                  |            |            |            |            |            |
| CHITRAKOOT    | 0             | 1    | 2    | 3    | 0    | MAHARAJGANJ     | 0  | 0  | 1  | 2  | 1  |                  |            |            |            |            |            |
| DEORIA        | 1             | 0    | 0    | 2    | 0    | MAHOBA          | 12 | 0  | 0  | 0  | 0  |                  |            |            |            |            |            |
| ETAH          | 12            | 6    | 1    | 12   | 10   | MAINPURI        | 15 | 8  | 11 | 22 | 18 |                  |            |            |            |            |            |
| ETAWAH        | 10            | 8    | 6    | 41   | 11   | MATHURA         | 70 | 61 | 11 | 83 | 80 |                  |            |            |            |            |            |
| FAIZABAD      | 3             | 0    | 0    | 3    | 4    | MAU             | 0  | 0  | 0  | 0  | 0  |                  |            |            |            |            |            |
| FARRUKHABAD   | 1             | 0    | 0    | 1    | 0    | MEERUT          | 16 | 4  | 4  | 3  | 9  |                  |            |            |            |            |            |
| FATEHPUR      | 29            | 13   | 18   | 28   | 22   | MIRZAPUR        | 6  | 5  | 2  | 0  | 2  |                  |            |            |            |            |            |
| FIROZABAD     | 12            | 5    | 0    | 5    | 6    | MORADABAD       | 8  | 3  | 0  | 4  | 21 |                  |            |            |            |            |            |

**(d) Delhi**

| District         | 15 Sep-27 Oct |          |          |          |           |
|------------------|---------------|----------|----------|----------|-----------|
|                  | 2020          | 2021     | 2022     | 2023     | 2024      |
| CENTRAL          | 0             | 0        | 0        | 0        | 0         |
| EAST             | 0             | 0        | 0        | 0        | 0         |
| NEW DELHI        | 0             | 0        | 0        | 0        | 0         |
| NORTH            | 2             | 0        | 5        | 2        | 8         |
| NORTH EAST       | 0             | 0        | 0        | 0        | 0         |
| NORTH WEST DELHI | 3             | 0        | 0        | 0        | 4         |
| SHAHADRA         | 0             | 0        | 0        | 0        | 0         |
| SOUTH            | 1             | 0        | 0        | 0        | 0         |
| SOUTH EAST       | 0             | 0        | 0        | 0        | 0         |
| SOUTH WEST DELHI | 0             | 0        | 0        | 0        | 0         |
| WEST DELHI       | 2             | 0        | 0        | 0        | 0         |
| <b>Total</b>     | <b>8</b>      | <b>0</b> | <b>5</b> | <b>2</b> | <b>12</b> |

**(e) Rajasthan**

| District     | 15 Sep-27 Oct |           |            |            |            |
|--------------|---------------|-----------|------------|------------|------------|
|              | 2020          | 2021      | 2022       | 2023       | 2024       |
| AJMER        | 2             | 0         | 0          | 0          | 0          |
| ALWAR        | 4             | 0         | 0          | 0          | 0          |
| BANSWARA     | 0             | 0         | 0          | 0          | 0          |
| BARAN        | 115           | 0         | 20         | 259        | 176        |
| BARMER       | 2             | 0         | 0          | 0          | 0          |
| BHARATPUR    | 2             | 0         | 0          | 2          | 7          |
| BHILWARA     | 4             | 0         | 0          | 0          | 0          |
| BIKANER      | 1             | 0         | 0          | 0          | 0          |
| BUNDI        | 34            | 3         | 54         | 131        | 103        |
| CHITTAURGARH | 0             | 3         | 2          | 8          | 2          |
| CHURU        | 0             | 0         | 0          | 0          | 0          |
| DAUSA        | 0             | 0         | 0          | 0          | 0          |
| DHOLPUR      | 0             | 0         | 0          | 0          | 0          |
| DUNGARPUR    | 0             | 0         | 0          | 0          | 0          |
| GANGANAGAR   | 9             | 2         | 6          | 15         | 21         |
| HANUMANGARH  | 257           | 51        | 25         | 78         | 139        |
| JAIPUR       | 2             | 0         | 0          | 0          | 0          |
| JAISELMER    | 2             | 0         | 0          | 0          | 0          |
| JALOR        | 0             | 0         | 0          | 0          | 0          |
| JHALAWAR     | 1             | 0         | 2          | 8          | 1          |
| JHUNJHUNUN   | 1             | 0         | 0          | 0          | 0          |
| JODHPUR      | 2             | 0         | 0          | 0          | 0          |
| KARALI       | 1             | 0         | 0          | 0          | 0          |
| KOTA         | 57            | 3         | 28         | 144        | 70         |
| NAGOUR       | 0             | 0         | 0          | 0          | 0          |
| PALI         | 2             | 0         | 0          | 0          | 0          |
| PRATAPGARH   | 5             | 0         | 0          | 0          | 0          |
| RAJSMAND     | 0             | 0         | 0          | 0          | 0          |
| SIKAR        | 0             | 0         | 0          | 0          | 0          |
| SIROHI       | 1             | 0         | 0          | 0          | 0          |
| SWAIMADHOPUR | 21            | 0         | 7          | 44         | 37         |
| TONK         | 3             | 0         | 0          | 0          | 0          |
| UDAIPUR      | 0             | 0         | 0          | 0          | 0          |
| <b>Total</b> | <b>528</b>    | <b>62</b> | <b>144</b> | <b>689</b> | <b>556</b> |



(f) Madhya Pradesh

| District     | 15 Sep-27 Oct |      |      |      |      |              |             |            |            |             |             |
|--------------|---------------|------|------|------|------|--------------|-------------|------------|------------|-------------|-------------|
|              | 2020          | 2021 | 2022 | 2023 | 2024 | PANNA        | 11          | 1          | 0          | 3           | 6           |
| ALIRAJPUR    | 0             | 0    | 0    | 0    | 0    | RAISEN       | 101         | 5          | 9          | 44          | 11          |
| ANUPPUR      | 0             | 0    | 0    | 0    | 0    | RAJGARH      | 9           | 1          | 3          | 9           | 1           |
| ASHOKNAGAR   | 55            | 1    | 9    | 109  | 183  | RATLAM       | 0           | 0          | 0          | 1           | 0           |
| BALAGHAT     | 0             | 0    | 0    | 0    | 0    | REWA         | 24          | 2          | 1          | 1           | 0           |
| BARWANI      | 0             | 0    | 0    | 0    | 1    | SAGAR        | 21          | 17         | 15         | 47          | 42          |
| BETUL        | 5             | 3    | 1    | 5    | 5    | SATNA        | 56          | 12         | 2          | 15          | 8           |
| BHIND        | 25            | 1    | 9    | 44   | 28   | SEHORE       | 34          | 16         | 31         | 47          | 13          |
| BHOPAL       | 17            | 5    | 5    | 18   | 4    | SEONI        | 244         | 150        | 36         | 114         | 29          |
| BURHANPUR    | 0             | 0    | 0    | 3    | 0    | SHAHDOL      | 0           | 0          | 0          | 1           | 1           |
| CHHATARPUR   | 4             | 0    | 0    | 3    | 2    | SHAJAPUR     | 7           | 0          | 0          | 10          | 12          |
| CHHINDWARA   | 20            | 12   | 6    | 20   | 2    | SHEOPUR      | 84          | 2          | 11         | 267         | 6           |
| DAMOH        | 45            | 17   | 13   | 28   | 24   | SHIVPURI     | 34          | 2          | 11         | 51          | 97          |
| DATIA        | 175           | 10   | 16   | 198  | 57   | SIDHI        | 0           | 0          | 0          | 0           | 0           |
| DEWAS        | 3             | 0    | 0    | 8    | 4    | SINGRAULI    | 0           | 0          | 1          | 0           | 6           |
| DHAR         | 26            | 0    | 0    | 28   | 11   | TIKAMGARH    | 1           | 0          | 0          | 3           | 0           |
| DINDORI      | 0             | 0    | 0    | 1    | 0    | UJJAIN       | 5           | 0          | 0          | 14          | 7           |
| EAST NIMAR   | 11            | 5    | 4    | 4    | 2    | UMARIA       | 0           | 0          | 0          | 0           | 0           |
| GUNA         | 34            | 2    | 22   | 275  | 380  | VIDESHA      | 84          | 15         | 19         | 63          | 55          |
| GWALIOR      | 214           | 4    | 4    | 53   | 11   | WEST NIMAR   | 24          | 1          | 2          | 16          | 4           |
| HARDA        | 12            | 18   | 7    | 25   | 7    | <b>Total</b> | <b>1795</b> | <b>408</b> | <b>305</b> | <b>1837</b> | <b>1169</b> |
| HOSHANGABAD  | 248           | 61   | 38   | 172  | 31   |              |             |            |            |             |             |
| INDORE       | 2             | 0    | 0    | 12   | 12   |              |             |            |            |             |             |
| JABALPUR     | 54            | 16   | 12   | 47   | 36   |              |             |            |            |             |             |
| JHABUA       | 0             | 0    | 0    | 0    | 0    |              |             |            |            |             |             |
| KATNI        | 29            | 1    | 0    | 8    | 2    |              |             |            |            |             |             |
| MANDLA       | 6             | 6    | 0    | 3    | 1    |              |             |            |            |             |             |
| MANDSAUR     | 4             | 0    | 0    | 2    | 13   |              |             |            |            |             |             |
| MORENA       | 36            | 5    | 3    | 37   | 28   |              |             |            |            |             |             |
| NARSHIMAPURA | 31            | 17   | 15   | 28   | 26   |              |             |            |            |             |             |
| NIMACH       | 0             | 0    | 0    | 0    | 1    |              |             |            |            |             |             |

**State-wise and date-wise number of paddy residue burning events detected in 2020 ,2021 ,2022, 2023 and 2024**  
**(Period: 15 September-27 October)**

**Number of Paddy Residue Burning Events Detected**

| Date   | Punjab |      |      |      |      | Haryana |      |      |      |      | Uttar Pradesh |      |      |      |      |
|--------|--------|------|------|------|------|---------|------|------|------|------|---------------|------|------|------|------|
|        | 2020   | 2021 | 2022 | 2023 | 2024 | 2020    | 2021 | 2022 | 2023 | 2024 | 2020          | 2021 | 2022 | 2023 | 2024 |
| 15-Sep | 5      | 0    | 14   | 0    | 11   | 2       | 0    | 0    | 1    | 1    | 1             | 0    | 0    | 0    | 0    |
| 16-Sep | 0      | 2    | 0    | 6    | 0    | 1       | 0    | 0    | 1    | 0    | 0             | 0    | 0    | 2    | 0    |
| 17-Sep | 5      | 0    | 1    | 0    | 5    | 3       | 0    | 0    | 0    | 1    | 0             | 0    | 0    | 0    | 1    |
| 18-Sep | 17     | 9    | 7    | 0    | 2    | 0       | 0    | 1    | 0    | 0    | 0             | 1    | 0    | 0    | 0    |
| 19-Sep | 30     | 5    | 18   | 0    | 0    | 2       | 0    | 0    | 1    | 0    | 0             | 1    | 0    | 0    | 0    |
| 20-Sep | 67     | 8    | 10   | 0    | 13   | 6       | 0    | 0    | 2    | 1    | 2             | 0    | 0    | 0    | 0    |
| 21-Sep | 54     | 0    | 56   | 1    | 21   | 2       | 0    | 0    | 2    | 13   | 1             | 0    | 0    | 1    | 2    |
| 22-Sep | 34     | 0    | 30   | 0    | 11   | 1       | 0    | 0    | 2    | 18   | 1             | 0    | 0    | 0    | 0    |
| 23-Sep | 49     | 0    | 3    | 1    | 6    | 0       | 0    | 0    | 3    | 12   | 1             | 0    | 0    | 0    | 0    |
| 24-Sep | 78     | 5    | 0    | 0    | 12   | 0       | 0    | 0    | 0    | 6    | 1             | 1    | 0    | 1    | 0    |
| 25-Sep | 184    | 11   | 0    | 0    | 12   | 11      | 0    | 0    | 1    | 18   | 5             | 0    | 0    | 1    | 0    |
| 26-Sep | 190    | 19   | 0    | 3    | 5    | 5       | 0    | 0    | 2    | 5    | 8             | 0    | 0    | 0    | 0    |
| 27-Sep | 78     | 37   | 0    | 21   | 0    | 8       | 0    | 0    | 9    | 5    | 4             | 1    | 0    | 0    | 3    |
| 28-Sep | 55     | 28   | 0    | 33   | 0    | 6       | 1    | 0    | 8    | 0    | 1             | 6    | 0    | 4    | 0    |
| 29-Sep | 63     | 64   | 0    | 68   | 21   | 9       | 4    | 0    | 17   | 0    | 6             | 10   | 0    | 6    | 0    |
| 30-Sep | 116    | 27   | 8    | 81   | 10   | 22      | 2    | 0    | 26   | 1    | 13            | 13   | 10   | 18   | 0    |
| 01-Oct | 165    | 13   | 45   | 123  | 26   | 15      | 4    | 1    | 21   | 3    | 7             | 13   | 3    | 17   | 0    |
| 02-Oct | 141    | 0    | 83   | 119  | 16   | 30      | 2    | 7    | 24   | 20   | 12            | 0    | 36   | 7    | 9    |
| 03-Oct | 110    | 9    | 75   | 105  | 8    | 8       | 6    | 8    | 17   | 6    | 4             | 3    | 29   | 8    | 7    |
| 04-Oct | 162    | 23   | 65   | 95   | 9    | 29      | 2    | 7    | 29   | 9    | 8             | 0    | 2    | 9    | 0    |
| 05-Oct | 161    | 18   | 130  | 98   | 5    | 17      | 3    | 24   | 24   | 8    | 14            | 2    | 0    | 14   | 1    |
| 06-Oct | 171    | 42   | 85   | 91   | 3    | 30      | 0    | 26   | 19   | 23   | 12            | 1    | 0    | 18   | 17   |
| 07-Oct | 197    | 72   | 62   | 32   | 18   | 32      | 11   | 6    | 13   | 14   | 41            | 13   | 0    | 5    | 11   |
| 08-Oct | 95     | 108  | 19   | 92   | 20   | 29      | 27   | 0    | 55   | 13   | 25            | 11   | 0    | 27   | 16   |
| 09-Oct | 121    | 114  | 3    | 58   | 33   | 20      | 39   | 1    | 14   | 10   | 15            | 20   | 0    | 13   | 10   |
| 10-Oct | 232    | 150  | 4    | 10   | 123  | 33      | 95   | 2    | 28   | 38   | 9             | 54   | 0    | 34   | 56   |
| 11-Oct | 377    | 64   | 45   | 26   | 143  | 90      | 51   | 0    | 21   | 55   | 23            | 28   | 0    | 50   | 87   |
| 12-Oct | 388    | 97   | 104  | 13   | 177  | 69      | 51   | 4    | 5    | 98   | 46            | 23   | 0    | 5    | 102  |

|               |              |             |             |             |             |             |             |             |             |            |            |            |            |            |            |
|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|
| <b>13-Oct</b> | 266          | 132         | 120         | 154         | 162         | 47          | 91          | 15          | 29          | 90         | 36         | 42         | 0          | 19         | 76         |
| <b>14-Oct</b> | 605          | 229         | 82          | 89          | 97          | 69          | 98          | 30          | 41          | 49         | 9          | 68         | 5          | 18         | 52         |
| <b>15-Oct</b> | 449          | 660         | 169         | 69          | 144         | 106         | 363         | 36          | 127         | 42         | 15         | 149        | 0          | 35         | 78         |
| <b>16-Oct</b> | 654          | 429         | 206         | 0           | 99          | 80          | 176         | 76          | 4           | 14         | 21         | 121        | 6          | 14         | 59         |
| <b>17-Oct</b> | 1172         | 14          | 403         | 1           | 77          | 143         | 0           | 86          | 0           | 28         | 38         | 39         | 7          | 0          | 23         |
| <b>18-Oct</b> | 938          | 57          | 342         | 18          | 59          | 166         | 1           | 134         | 8           | 26         | 76         | 0          | 30         | 2          | 47         |
| <b>19-Oct</b> | 1080         | 496         | 436         | 37          | 45          | 72          | 55          | 122         | 16          | 15         | 43         | 5          | 36         | 11         | 30         |
| <b>20-Oct</b> | 890          | 788         | 96          | 174         | 52          | 62          | 155         | 78          | 51          | 11         | 31         | 1          | 17         | 25         | 11         |
| <b>21-Oct</b> | 1392         | 597         | 393         | 146         | 65          | 101         | 131         | 107         | 68          | 2          | 25         | 5          | 23         | 59         | 25         |
| <b>22-Oct</b> | 1665         | 1111        | 582         | 30          | 71          | 128         | 140         | 122         | 25          | 10         | 32         | 3          | 18         | 117        | 17         |
| <b>23-Oct</b> | 1438         | 620         | 902         | 152         | 57          | 106         | 218         | 217         | 29          | 15         | 84         | 8          | 109        | 20         | 68         |
| <b>24-Oct</b> | 911          | 0           | 1019        | 360         | 40          | 57          | 38          | 250         | 70          | 6          | 63         | 11         | 212        | 38         | 18         |
| <b>25-Oct</b> | 1416         | 76          | 181         | 398         | 71          | 155         | 71          | 12          | 58          | 3          | 50         | 18         | 9          | 30         | 23         |
| <b>26-Oct</b> | 2126         | 329         | 1238        | 589         | 108         | 77          | 175         | 123         | 67          | 11         | 33         | 41         | 23         | 78         | 16         |
| <b>27-Oct</b> | 2563         | 279         | 1111        | 766         | 138         | 96          | 93          | 83          | 67          | 13         | 40         | 58         | 23         | 97         | 27         |
| <b>Total</b>  | <b>20910</b> | <b>6742</b> | <b>8147</b> | <b>4059</b> | <b>1995</b> | <b>1945</b> | <b>2103</b> | <b>1578</b> | <b>1005</b> | <b>713</b> | <b>856</b> | <b>770</b> | <b>598</b> | <b>803</b> | <b>892</b> |

### Number of Paddy Residue Burning Events Detected

| Date   | Delhi |      |      |      |      | Rajasthan |      |      |      |      | Madhya Pradesh |      |      |      |      |
|--------|-------|------|------|------|------|-----------|------|------|------|------|----------------|------|------|------|------|
|        | 2020  | 2021 | 2022 | 2023 | 2024 | 2020      | 2021 | 2022 | 2023 | 2024 | 2020           | 2021 | 2022 | 2023 | 2024 |
| 15-Sep | 0     | 0    | 0    | 0    | 0    | 1         | 0    | 0    | 0    | 0    | 2              | 0    | 0    | 0    | 0    |
| 16-Sep | 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    | 1    |
| 18-Sep | 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    | 1    | 0    |
| 20-Sep | 0     | 0    | 0    | 0    | 0    | 0         | 0    | 0    | 0    | 0    | 0              | 0    | 0    | 1    | 2    |
| 21-Sep | 0     | 0    | 0    | 0    | 0    | 1         | 0    | 1    | 0    | 0    | 2              | 0    | 0    | 0    | 1    |
| 22-Sep | 0     | 0    | 0    | 0    | 0    | 0         | 0    | 0    | 0    | 0    | 0              | 0    | 0    | 0    | 1    |
| 23-Sep | 0     | 0    | 0    | 0    | 0    | 1         | 0    | 0    | 0    | 0    | 0              | 0    | 0    | 0    | 1    |
| 24-Sep | 0     | 0    | 0    | 0    | 0    | 0         | 0    | 0    | 0    | 0    | 0              | 0    | 0    | 0    | 0    |
| 25-Sep | 0     | 0    | 0    | 0    | 0    | 1         | 0    | 0    | 0    | 3    | 0              | 0    | 0    | 1    | 0    |
| 26-Sep | 0     | 0    | 0    | 1    | 0    | 1         | 0    | 0    | 0    | 0    | 2              | 0    | 0    | 0    | 2    |
| 27-Sep | 0     | 0    | 0    | 0    | 0    | 0         | 0    | 0    | 0    | 0    | 1              | 0    | 0    | 0    | 0    |
| 28-Sep | 0     | 0    | 0    | 0    | 0    | 0         | 0    | 0    | 0    | 0    | 1              | 1    | 0    | 2    | 0    |

|              |          |          |          |          |           |            |           |            |            |            |             |            |            |             |             |
|--------------|----------|----------|----------|----------|-----------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
| 29-Sep       | 0        | 0        | 0        | 0        | 0         | 3          | 0         | 0          | 6          | 0          | 0           | 4          | 0          | 5           | 0           |
| 30-Sep       | 1        | 0        | 0        | 0        | 0         | 1          | 0         | 0          | 4          | 2          | 5           | 0          | 0          | 11          | 0           |
| 01-Oct       | 0        | 0        | 0        | 0        | 0         | 4          | 1         | 1          | 4          | 1          | 13          | 0          | 1          | 8           | 3           |
| 02-Oct       | 1        | 0        | 0        | 0        | 0         | 7          | 0         | 3          | 4          | 3          | 12          | 0          | 1          | 1           | 0           |
| 03-Oct       | 0        | 0        | 0        | 0        | 0         | 9          | 0         | 2          | 5          | 0          | 5           | 1          | 5          | 5           | 2           |
| 04-Oct       | 0        | 0        | 0        | 0        | 0         | 15         | 0         | 0          | 22         | 0          | 4           | 2          | 0          | 12          | 0           |
| 05-Oct       | 0        | 0        | 2        | 0        | 0         | 14         | 0         | 1          | 11         | 2          | 13          | 1          | 0          | 18          | 2           |
| 06-Oct       | 1        | 0        | 0        | 0        | 0         | 16         | 0         | 0          | 9          | 1          | 37          | 1          | 0          | 7           | 12          |
| 07-Oct       | 0        | 0        | 0        | 0        | 0         | 14         | 1         | 1          | 7          | 4          | 31          | 1          | 0          | 9           | 17          |
| 08-Oct       | 0        | 0        | 0        | 0        | 0         | 11         | 0         | 0          | 9          | 1          | 17          | 2          | 0          | 18          | 7           |
| 09-Oct       | 0        | 0        | 0        | 0        | 0         | 12         | 0         | 0          | 17         | 1          | 15          | 4          | 0          | 24          | 2           |
| 10-Oct       | 0        | 0        | 0        | 0        | 3         | 14         | 1         | 0          | 26         | 3          | 18          | 10         | 0          | 52          | 1           |
| 11-Oct       | 0        | 0        | 0        | 1        | 0         | 21         | 7         | 1          | 21         | 6          | 32          | 2          | 0          | 24          | 17          |
| 12-Oct       | 0        | 0        | 0        | 0        | 2         | 24         | 1         | 2          | 1          | 13         | 44          | 1          | 1          | 1           | 5           |
| 13-Oct       | 0        | 0        | 0        | 0        | 1         | 7          | 5         | 2          | 28         | 10         | 21          | 2          | 7          | 32          | 5           |
| 14-Oct       | 0        | 0        | 0        | 0        | 1         | 16         | 1         | 1          | 15         | 20         | 15          | 11         | 1          | 26          | 7           |
| 15-Oct       | 0        | 0        | 0        | 0        | 0         | 9          | 8         | 2          | 34         | 23         | 8           | 27         | 2          | 66          | 11          |
| 16-Oct       | 1        | 0        | 0        | 0        | 1         | 12         | 2         | 4          | 18         | 100        | 23          | 13         | 2          | 51          | 112         |
| 17-Oct       | 0        | 0        | 0        | 0        | 0         | 26         | 0         | 4          | 12         | 16         | 63          | 1          | 11         | 31          | 51          |
| 18-Oct       | 0        | 0        | 1        | 0        | 3         | 37         | 2         | 12         | 11         | 30         | 88          | 0          | 15         | 13          | 71          |
| 19-Oct       | 0        | 0        | 0        | 0        | 0         | 27         | 5         | 12         | 31         | 25         | 49          | 1          | 12         | 65          | 46          |
| 20-Oct       | 0        | 0        | 0        | 0        | 0         | 26         | 4         | 4          | 57         | 11         | 9           | 21         | 7          | 131         | 24          |
| 21-Oct       | 2        | 0        | 0        | 0        | 0         | 32         | 2         | 6          | 34         | 21         | 112         | 30         | 18         | 147         | 53          |
| 22-Oct       | 0        | 0        | 0        | 0        | 0         | 29         | 5         | 12         | 57         | 36         | 183         | 29         | 31         | 119         | 93          |
| 23-Oct       | 1        | 0        | 0        | 0        | 0         | 23         | 7         | 20         | 29         | 50         | 204         | 32         | 70         | 89          | 194         |
| 24-Oct       | 0        | 0        | 2        | 0        | 0         | 20         | 4         | 7          | 38         | 11         | 150         | 34         | 26         | 132         | 32          |
| 25-Oct       | 1        | 0        | 0        | 0        | 0         | 18         | 2         | 4          | 47         | 49         | 144         | 60         | 0          | 159         | 94          |
| 26-Oct       | 0        | 0        | 0        | 0        | 1         | 34         | 3         | 21         | 59         | 54         | 178         | 55         | 57         | 320         | 170         |
| 27-Oct       | 0        | 0        | 0        | 0        | 0         | 42         | 1         | 21         | 73         | 60         | 294         | 62         | 38         | 256         | 130         |
| <b>Total</b> | <b>8</b> | <b>0</b> | <b>5</b> | <b>2</b> | <b>12</b> | <b>528</b> | <b>62</b> | <b>144</b> | <b>689</b> | <b>556</b> | <b>1795</b> | <b>408</b> | <b>305</b> | <b>1837</b> | <b>1169</b> |

### Details of residue burning events in Punjab on 27-Oct-2024

| S. No. | District        | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m2) |
|--------|-----------------|----------------|-----------|----------|-----------|----------|-------------|-------------------|
| 1      | AMRITSAR        | ATTARI         | S-NPP     | 31.59426 | 74.77970  | 13:46:44 | D           | 9.50              |
| 2      | AMRITSAR        | CHOGAWAN       | S-NPP     | 31.67906 | 74.56460  | 13:46:44 | D           | 3.50              |
| 3      | AMRITSAR        | HARSHA CHHINA  | S-NPP     | 31.78976 | 74.84393  | 13:46:44 | D           | 4.00              |
| 4      | AMRITSAR        | HARSHA CHHINA  | AQUA      | 31.74500 | 74.83900  | 14:45:56 | D           | 8.80              |
| 5      | AMRITSAR        | MAJITHA        | S-NPP     | 31.74674 | 75.09663  | 13:46:44 | D           | 5.90              |
| 6      | AMRITSAR        | RAYYA          | S-NPP     | 31.58212 | 75.32085  | 13:46:44 | D           | 3.50              |
| 7      | AMRITSAR        | RAYYA          | S-NPP     | 31.58315 | 75.38022  | 13:46:44 | D           | 6.20              |
| 8      | AMRITSAR        | RAYYA          | S-NPP     | 31.58401 | 75.31832  | 13:46:44 | D           | 3.30              |
| 9      | BARNALA         | BARNALA        | S-NPP     | 30.36682 | 75.67084  | 13:46:44 | D           | 7.50              |
| 10     | BARNALA         | BARNALA        | AQUA      | 30.33700 | 75.64700  | 14:45:56 | D           | 11.30             |
| 11     | BARNALA         | SEHNA          | S-NPP     | 30.35716 | 75.38792  | 13:46:44 | D           | 6.20              |
| 12     | BATHINDA        | BHAGTA BHAI KA | S-NPP     | 30.43657 | 75.06092  | 13:46:44 | D           | 6.30              |
| 13     | BATHINDA        | PHUL           | S-NPP     | 30.32144 | 75.31310  | 13:46:44 | D           | 9.50              |
| 14     | FARIDKOT        | FARIDKOT       | S-NPP     | 30.73168 | 74.71743  | 13:46:44 | D           | 3.60              |
| 15     | FARIDKOT        | FARIDKOT       | AQUA      | 30.78900 | 74.65900  | 14:45:56 | D           | 12.10             |
| 16     | FARIDKOT        | FARIDKOT       | AQUA      | 30.81100 | 74.76100  | 14:45:56 | D           | 13.50             |
| 17     | FATEHGARH SAHIB | AMLOH          | S-NPP     | 30.69323 | 76.35147  | 13:46:44 | D           | 6.30              |
| 18     | FATEHGARH SAHIB | BASSI PATHANAN | S-NPP     | 30.65710 | 76.43114  | 13:46:44 | D           | 3.30              |
| 19     | FATEHGARH SAHIB | BASSI PATHANAN | S-NPP     | 30.67651 | 76.53554  | 13:46:44 | D           | 11.00             |
| 20     | FATEHGARH SAHIB | BASSI PATHANAN | S-NPP     | 30.72455 | 76.41322  | 13:46:44 | D           | 5.40              |
| 21     | FATEHGARH SAHIB | BASSI PATHANAN | S-NPP     | 30.72500 | 76.41724  | 13:46:44 | D           | 16.60             |
| 22     | FATEHGARH SAHIB | BASSI PATHANAN | S-NPP     | 30.74699 | 76.46754  | 13:46:44 | D           | 10.70             |
| 23     | FATEHGARH SAHIB | BASSI PATHANAN | S-NPP     | 30.74708 | 76.46767  | 13:46:44 | D           | 11.80             |
| 24     | FATEHGARH SAHIB | KHERA          | S-NPP     | 30.58420 | 76.55639  | 13:46:44 | D           | 3.10              |
| 25     | FATEHGARH SAHIB | KHERA          | S-NPP     | 30.61028 | 76.45784  | 13:46:44 | D           | 4.50              |
| 26     | FATEHGARH SAHIB | KHERA          | S-NPP     | 30.61073 | 76.46187  | 13:46:44 | D           | 4.50              |
| 27     | FATEHGARH SAHIB | KHERA          | S-NPP     | 30.67607 | 76.53145  | 13:46:44 | D           | 11.00             |
| 28     | FATEHGARH SAHIB | SIRHIND        | S-NPP     | 30.50832 | 76.46342  | 13:46:44 | D           | 3.70              |
| 29     | FATEHGARH SAHIB | SIRHIND        | S-NPP     | 30.57277 | 76.37659  | 13:46:44 | D           | 14.80             |
| 30     | FATEHGARH SAHIB | SIRHIND        | S-NPP     | 30.60001 | 76.43885  | 13:46:44 | D           | 3.50              |
| 31     | FATEHGARH SAHIB | SIRHIND        | S-NPP     | 30.61076 | 76.31652  | 13:46:44 | D           | 3.10              |

|    |                 |               |       |          |          |          |   |       |
|----|-----------------|---------------|-------|----------|----------|----------|---|-------|
| 32 | FATEHGARH SAHIB | SIRHIND       | S-NPP | 30.61208 | 76.31474 | 13:46:44 | D | 3.10  |
| 33 | FATEHGARH SAHIB | SIRHIND       | S-NPP | 30.64714 | 76.37646 | 13:46:44 | D | 5.30  |
| 34 | FAZILKA         | ABOHAR        | S-NPP | 30.00256 | 74.13681 | 13:46:44 | D | 2.00  |
| 35 | FAZILKA         | ABOHAR        | S-NPP | 30.10846 | 74.26747 | 13:46:44 | D | 1.80  |
| 36 | FAZILKA         | JALALABAD     | S-NPP | 30.61169 | 74.11103 | 13:46:44 | D | 3.00  |
| 37 | FIROZPUR        | FIROZPUR      | S-NPP | 30.93360 | 74.58318 | 13:46:44 | D | 4.50  |
| 38 | FIROZPUR        | FIROZPUR      | S-NPP | 30.98949 | 74.59124 | 13:46:44 | D | 7.40  |
| 39 | FIROZPUR        | FIROZPUR      | S-NPP | 31.03653 | 74.76265 | 13:46:44 | D | 19.30 |
| 40 | FIROZPUR        | FIROZPUR      | S-NPP | 31.08326 | 74.72665 | 13:46:44 | D | 7.90  |
| 41 | FIROZPUR        | FIROZPUR      | S-NPP | 31.09545 | 74.76601 | 13:46:44 | D | 8.30  |
| 42 | FIROZPUR        | FIROZPUR      | AQUA  | 30.83400 | 74.61600 | 14:45:56 | D | 13.80 |
| 43 | FIROZPUR        | FIROZPUR      | AQUA  | 30.94200 | 74.57900 | 14:45:56 | D | 8.00  |
| 44 | FIROZPUR        | FIROZPUR      | AQUA  | 31.00200 | 74.64500 | 14:45:56 | D | 15.70 |
| 45 | FIROZPUR        | FIROZPUR      | AQUA  | 31.09700 | 74.76000 | 14:45:56 | D | 89.90 |
| 46 | FIROZPUR        | FIROZPUR      | AQUA  | 31.09900 | 74.77500 | 14:45:56 | D | 12.80 |
| 47 | FIROZPUR        | GHALL KHURD   | S-NPP | 30.80687 | 74.82507 | 13:46:44 | D | 2.30  |
| 48 | FIROZPUR        | GHALL KHURD   | S-NPP | 30.84010 | 74.91297 | 13:46:44 | D | 9.70  |
| 49 | FIROZPUR        | GHALL KHURD   | S-NPP | 30.84802 | 74.66995 | 13:46:44 | D | 2.90  |
| 50 | FIROZPUR        | GHALL KHURD   | S-NPP | 31.01992 | 74.74986 | 13:46:44 | D | 5.30  |
| 51 | FIROZPUR        | GURUHAR SAHAI | S-NPP | 30.73692 | 74.40271 | 13:46:44 | D | 3.00  |
| 52 | FIROZPUR        | MAKHU         | S-NPP | 31.09278 | 74.85224 | 13:46:44 | D | 3.20  |
| 53 | FIROZPUR        | MAMDOT        | S-NPP | 30.78039 | 74.36591 | 13:46:44 | D | 1.30  |
| 54 | FIROZPUR        | MAMDOT        | S-NPP | 30.79370 | 74.50255 | 13:46:44 | D | 4.00  |
| 55 | FIROZPUR        | MAMDOT        | S-NPP | 30.85657 | 74.38087 | 13:46:44 | D | 4.00  |
| 56 | FIROZPUR        | MAMDOT        | S-NPP | 30.89523 | 74.45394 | 13:46:44 | D | 4.40  |
| 57 | FIROZPUR        | MAMDOT        | S-NPP | 30.89766 | 74.44357 | 13:46:44 | D | 2.40  |
| 58 | FIROZPUR        | MAMDOT        | S-NPP | 30.89887 | 74.45334 | 13:46:44 | D | 4.40  |
| 59 | FIROZPUR        | MAMDOT        | S-NPP | 30.93468 | 74.47241 | 13:46:44 | D | 5.00  |
| 60 | FIROZPUR        | MAMDOT        | S-NPP | 30.93754 | 74.43890 | 13:46:44 | D | 12.70 |
| 61 | FIROZPUR        | MAMDOT        | S-NPP | 30.93826 | 74.44187 | 13:46:44 | D | 24.00 |
| 62 | FIROZPUR        | MAMDOT        | AQUA  | 30.82600 | 74.35500 | 14:45:56 | D | 18.80 |
| 63 | FIROZPUR        | MAMDOT        | AQUA  | 30.84800 | 74.45300 | 14:45:56 | D | 8.40  |
| 64 | FIROZPUR        | MAMDOT        | AQUA  | 30.90500 | 74.43800 | 14:45:56 | D | 8.90  |
| 65 | FIROZPUR        | ZIRA          | S-NPP | 30.89429 | 74.97585 | 13:46:44 | D | 3.10  |
| 66 | FIROZPUR        | ZIRA          | S-NPP | 30.95460 | 74.84608 | 13:46:44 | D | 4.20  |

|     |            |                           |       |          |          |          |   |       |
|-----|------------|---------------------------|-------|----------|----------|----------|---|-------|
| 67  | FIROZPUR   | ZIRA                      | S-NPP | 31.02879 | 74.98320 | 13:46:44 | D | 3.10  |
| 68  | FIROZPUR   | ZIRA                      | S-NPP | 31.03699 | 74.92397 | 13:46:44 | D | 6.60  |
| 69  | GURDASPUR  | KALANAUR                  | S-NPP | 31.99739 | 75.20863 | 13:46:44 | D | 3.20  |
| 70  | GURDASPUR  | QADIAN                    | S-NPP | 31.77361 | 75.39335 | 13:46:44 | D | 3.00  |
| 71  | GURDASPUR  | QADIAN                    | AQUA  | 31.76700 | 75.46700 | 14:45:56 | D | 11.30 |
| 72  | JALANDHAR  | LOHIAN                    | AQUA  | 31.06400 | 75.19700 | 14:45:56 | D | 27.00 |
| 73  | JALANDHAR  | MEHATPUR                  | S-NPP | 31.00323 | 75.41660 | 13:46:44 | D | 2.80  |
| 74  | JALANDHAR  | NUR MAHAL                 | S-NPP | 31.05564 | 75.63246 | 13:46:44 | D | 41.50 |
| 75  | KAPURTHALA | DHILWAN                   | S-NPP | 31.35918 | 75.24902 | 13:46:44 | D | 5.40  |
| 76  | KAPURTHALA | DHILWAN                   | S-NPP | 31.42519 | 75.19328 | 13:46:44 | D | 2.60  |
| 77  | KAPURTHALA | KAPURTHALA                | S-NPP | 31.30150 | 75.28552 | 13:46:44 | D | 3.90  |
| 78  | KAPURTHALA | SULTANPUR LODHI           | S-NPP | 31.30289 | 75.13238 | 13:46:44 | D | 8.00  |
| 79  | LUDHIANA   | SAMRALA                   | S-NPP | 30.79704 | 76.15388 | 02:36:44 | N | 1.50  |
| 80  | MALERKOTLA | MALERKOTLA                | S-NPP | 30.55841 | 75.82581 | 13:46:44 | D | 3.00  |
| 81  | MALERKOTLA | MALERKOTLA                | S-NPP | 30.55931 | 75.82946 | 13:46:44 | D | 5.90  |
| 82  | MANSA      | BHIKHI                    | AQUA  | 30.10900 | 75.64700 | 14:45:56 | D | 19.70 |
| 83  | MANSA      | BUDHLADA                  | S-NPP | 29.81508 | 75.60252 | 13:46:44 | D | 3.90  |
| 84  | MANSA      | BUDHLADA                  | S-NPP | 29.83602 | 75.58308 | 13:46:44 | D | 2.10  |
| 85  | MANSA      | MANSA                     | S-NPP | 30.02693 | 75.35094 | 13:46:44 | D | 4.80  |
| 86  | MANSA      | SARDULGARH                | S-NPP | 29.66551 | 75.27346 | 13:46:44 | D | 2.90  |
| 87  | MOGA       | KOT ISE KHAN AT DHARAMKOT | S-NPP | 30.91071 | 75.31161 | 13:46:44 | D | 6.90  |
| 88  | MOGA       | KOT ISE KHAN AT DHARAMKOT | AQUA  | 30.88200 | 75.30000 | 14:45:56 | D | 8.90  |
| 89  | MOGA       | KOT ISE KHAN AT DHARAMKOT | AQUA  | 31.06200 | 75.18100 | 14:45:56 | D | 25.40 |
| 90  | MOGA       | KOT ISE KHAN AT DHARAMKOT | AQUA  | 31.06700 | 75.18900 | 14:45:56 | D | 31.90 |
| 91  | MOGA       | MOGA 2                    | S-NPP | 30.86987 | 75.00240 | 13:46:44 | D | 9.40  |
| 92  | PATIALA    | BHUNARHERI                | AQUA  | 30.13700 | 76.59300 | 14:45:56 | D | 10.80 |
| 93  | PATIALA    | NABHA                     | S-NPP | 30.51246 | 76.28394 | 13:46:44 | D | 5.10  |
| 94  | PATIALA    | PATIALA                   | S-NPP | 30.35711 | 76.47177 | 13:46:44 | D | 3.00  |
| 95  | PATIALA    | PATIALA                   | AQUA  | 30.45000 | 76.40000 | 14:45:56 | D | 15.60 |
| 96  | PATIALA    | PATRAN                    | S-NPP | 29.84286 | 76.18800 | 13:46:44 | D | 6.10  |
| 97  | PATIALA    | PATRAN                    | S-NPP | 29.85008 | 76.21593 | 13:46:44 | D | 4.50  |
| 98  | PATIALA    | PATRAN                    | S-NPP | 29.96790 | 76.17677 | 13:46:44 | D | 10.10 |
| 99  | PATIALA    | PATRAN                    | S-NPP | 29.96865 | 76.17881 | 13:46:44 | D | 10.50 |
| 100 | PATIALA    | PATRAN                    | AQUA  | 29.99400 | 76.19000 | 14:45:56 | D | 10.70 |
| 101 | PATIALA    | RAJPURA                   | S-NPP | 30.49845 | 76.55940 | 13:46:44 | D | 2.80  |

|     |            |                 |       |          |          |          |   |       |
|-----|------------|-----------------|-------|----------|----------|----------|---|-------|
| 102 | PATIALA    | RAJPURA         | S-NPP | 30.50160 | 76.55068 | 13:46:44 | D | 7.60  |
| 103 | PATIALA    | RAJPURA         | S-NPP | 30.54260 | 76.51279 | 13:46:44 | D | 7.90  |
| 104 | PATIALA    | RAJPURA         | S-NPP | 30.55557 | 76.51917 | 13:46:44 | D | 5.00  |
| 105 | PATIALA    | RAJPURA         | S-NPP | 30.58491 | 76.63964 | 13:46:44 | D | 2.70  |
| 106 | SANGRUR    | ANDANA          | S-NPP | 29.81980 | 75.85667 | 13:46:44 | D | 2.70  |
| 107 | SANGRUR    | ANDANA          | AQUA  | 29.81000 | 75.84300 | 14:45:56 | D | 23.60 |
| 108 | SANGRUR    | BHAWANIGARH     | S-NPP | 30.23957 | 76.01714 | 13:46:44 | D | 2.40  |
| 109 | SANGRUR    | BHAWANIGARH     | AQUA  | 30.25300 | 76.14300 | 14:45:56 | D | 20.70 |
| 110 | SANGRUR    | BHAWANIGARH     | AQUA  | 30.25300 | 76.15400 | 14:45:56 | D | 14.80 |
| 111 | SANGRUR    | BHAWANIGARH     | AQUA  | 30.25500 | 76.16000 | 14:45:56 | D | 13.70 |
| 112 | SANGRUR    | DHURI           | S-NPP | 30.36529 | 75.76045 | 13:46:44 | D | 10.10 |
| 113 | SANGRUR    | DIRBA           | S-NPP | 30.03534 | 76.03408 | 13:46:44 | D | 5.90  |
| 114 | SANGRUR    | SANGRUR         | S-NPP | 30.22205 | 75.83194 | 13:46:44 | D | 2.50  |
| 115 | SANGRUR    | SUNAM           | S-NPP | 29.99717 | 75.67570 | 13:46:44 | D | 4.00  |
| 116 | SANGRUR    | SUNAM           | S-NPP | 30.02563 | 75.80780 | 13:46:44 | D | 3.70  |
| 117 | SANGRUR    | SUNAM           | S-NPP | 30.02866 | 75.80917 | 13:46:44 | D | 4.60  |
| 118 | SANGRUR    | SUNAM           | S-NPP | 30.11297 | 75.78341 | 13:46:44 | D | 4.40  |
| 119 | SANGRUR    | SUNAM           | S-NPP | 30.14945 | 75.78124 | 13:46:44 | D | 3.10  |
| 120 | SANGRUR    | SUNAM           | AQUA  | 30.02200 | 75.80100 | 14:45:56 | D | 11.90 |
| 121 | SANGRUR    | SUNAM           | AQUA  | 30.02400 | 75.81800 | 14:45:56 | D | 10.20 |
| 122 | SANGRUR    | SUNAM           | AQUA  | 30.07200 | 75.71900 | 14:45:56 | D | 15.70 |
| 123 | SANGRUR    | SUNAM           | AQUA  | 30.11100 | 75.65800 | 14:45:56 | D | 21.20 |
| 124 | SAS NAGAR  | KHARAR          | S-NPP | 30.62646 | 76.64210 | 13:46:44 | D | 4.10  |
| 125 | SBS NAGAR  | NAWAN SHAHR     | AQUA  | 31.03500 | 76.22100 | 14:45:56 | D | 20.10 |
| 126 | TARN TARAN | BHIKHIWIND      | S-NPP | 31.30799 | 74.65431 | 13:46:44 | D | 13.50 |
| 127 | TARN TARAN | CHOHLA SAHIB    | S-NPP | 31.30038 | 75.07877 | 13:46:44 | D | 4.90  |
| 128 | TARN TARAN | GANDIWIND TATLA | AQUA  | 31.45000 | 74.74400 | 14:45:56 | D | 11.90 |
| 129 | TARN TARAN | KHADUR SAHIB    | S-NPP | 31.39187 | 75.07787 | 02:36:44 | N | 0.80  |
| 130 | TARN TARAN | KHADUR SAHIB    | S-NPP | 31.47585 | 75.04116 | 13:46:44 | D | 3.70  |
| 131 | TARN TARAN | KHADUR SAHIB    | AQUA  | 31.43200 | 75.07900 | 14:45:56 | D | 9.10  |
| 132 | TARN TARAN | PATTI           | S-NPP | 31.19863 | 74.86920 | 13:46:44 | D | 3.80  |
| 133 | TARN TARAN | PATTI           | S-NPP | 31.19971 | 74.87138 | 13:46:44 | D | 2.70  |
| 134 | TARN TARAN | TARN TARAN      | S-NPP | 31.51023 | 74.81686 | 13:46:44 | D | 4.40  |
| 135 | TARN TARAN | VALTOHA         | S-NPP | 31.14530 | 74.52744 | 13:46:44 | D | 3.30  |
| 136 | TARN TARAN | VALTOHA         | S-NPP | 31.15993 | 74.52505 | 13:46:44 | D | 4.40  |



|     |            |         |       |          |          |          |   |      |
|-----|------------|---------|-------|----------|----------|----------|---|------|
| 137 | TARN TARAN | VALTOHA | S-NPP | 31.32529 | 74.54884 | 13:46:44 | D | 1.60 |
| 138 | TARN TARAN | VALTOHA | S-NPP | 31.32896 | 74.54823 | 13:46:44 | D | 2.60 |

**Details of residue burning events in Haryana on 27-Oct-2024**

| S. No. | District    | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m2) |
|--------|-------------|----------------|-----------|----------|-----------|----------|-------------|-------------------|
| 1      | AMBALA      | AMBALA-II      | S-NPP     | 30.21430 | 76.74450  | 13:46:44 | D           | 3.30              |
| 2      | FATEHABAD   | JAKHAL         | S-NPP     | 29.80684 | 75.74807  | 13:46:44 | D           | 4.70              |
| 3      | JIND        | NARWANA        | S-NPP     | 29.56344 | 76.00074  | 13:46:44 | D           | 6.00              |
| 4      | KAITHAL     | GUHLA          | S-NPP     | 30.16319 | 76.43088  | 13:46:44 | D           | 3.90              |
| 5      | KAITHAL     | GUHLA          | S-NPP     | 30.16719 | 76.43030  | 13:46:44 | D           | 3.90              |
| 6      | KARNAL      | ASSANDH        | S-NPP     | 29.51719 | 76.64896  | 13:46:44 | D           | 4.20              |
| 7      | KARNAL      | CHIRAO         | S-NPP     | 29.67136 | 76.70420  | 13:46:44 | D           | 4.90              |
| 8      | KURUKSHETRA | PEHOWA         | S-NPP     | 29.98511 | 76.56989  | 13:46:44 | D           | 3.10              |
| 9      | KURUKSHETRA | THANESAR       | S-NPP     | 29.91497 | 76.80194  | 02:36:44 | N           | 0.80              |
| 10     | SIRSA       | DABWALI        | S-NPP     | 29.81750 | 74.63370  | 13:46:44 | D           | 11.50             |
| 11     | YAMUNANAGAR | BILASPUR       | S-NPP     | 30.33167 | 77.23503  | 13:46:44 | D           | 8.70              |
| 12     | YAMUNANAGAR | JAGADHRI       | S-NPP     | 30.07343 | 77.21012  | 13:46:44 | D           | 2.00              |
| 13     | YAMUNANAGAR | SADHAURA       | S-NPP     | 30.42458 | 77.22746  | 13:46:44 | D           | 3.50              |

### Details of residue burning events in Uttar Pradesh on 27-Oct-2024

| S. No. | District     | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m2) |
|--------|--------------|----------------|-----------|----------|-----------|----------|-------------|-------------------|
| 1      | ALIGARH      | GABHANA        | S-NPP     | 28.13845 | 77.80714  | 13:46:44 | D           | 5.60              |
| 2      | ALIGARH      | KHAIR          | S-NPP     | 27.99609 | 77.71437  | 13:46:44 | D           | 1.60              |
| 3      | ALIGARH      | KHAIR          | S-NPP     | 27.99677 | 77.71524  | 13:46:44 | D           | 2.70              |
| 4      | BAHRAICH     | NANPARA        | S-NPP     | 27.97825 | 81.40282  | 02:36:44 | N           | 0.40              |
| 5      | BAREILLY     | BAHERI         | S-NPP     | 28.68198 | 79.53975  | 02:36:44 | N           | 1.40              |
| 6      | BAREILLY     | BAHERI         | S-NPP     | 28.68275 | 79.53647  | 02:36:44 | N           | 1.40              |
| 7      | ETAWAH       | ETAWAH         | S-NPP     | 26.80944 | 79.03472  | 13:46:44 | D           | 4.90              |
| 8      | HAPUR        | GARHMUKTESAR   | S-NPP     | 28.70601 | 78.01169  | 13:46:44 | D           | 4.80              |
| 9      | HARDOI       | SIWAIJPUR      | S-NPP     | 27.27823 | 79.86061  | 13:46:44 | D           | 10.80             |
| 10     | HARDOI       | SIWAIJPUR      | S-NPP     | 27.68463 | 79.77319  | 13:46:44 | D           | 3.30              |
| 11     | HARDOI       | SIWAIJPUR      | S-NPP     | 27.68521 | 79.77617  | 13:46:44 | D           | 4.00              |
| 12     | JHANSI       | JHANSI         | S-NPP     | 25.52041 | 78.73192  | 13:46:44 | D           | 2.20              |
| 13     | JHANSI       | JHANSI         | S-NPP     | 25.55724 | 78.69176  | 13:46:44 | D           | 3.10              |
| 14     | KANPUR DEHAT | AKBARPUR       | S-NPP     | 26.30586 | 79.99043  | 13:46:44 | D           | 5.60              |
| 15     | KANPUR DEHAT | AKBARPUR       | S-NPP     | 26.30672 | 79.98804  | 13:46:44 | D           | 6.70              |
| 16     | KHERI        | GOLA           | S-NPP     | 27.85396 | 80.34258  | 02:36:44 | N           | 0.80              |
| 17     | MATHURA      | CHHATA         | S-NPP     | 27.70196 | 77.40788  | 13:46:44 | D           | 3.10              |
| 18     | MATHURA      | CHHATA         | S-NPP     | 27.74847 | 77.41396  | 13:46:44 | D           | 7.70              |
| 19     | MATHURA      | CHHATA         | S-NPP     | 27.75141 | 77.41393  | 13:46:44 | D           | 7.40              |
| 20     | MATHURA      | CHHATA         | S-NPP     | 27.80935 | 77.37268  | 13:46:44 | D           | 2.10              |
| 21     | PILHIBHIT    | PILHIBHIT      | S-NPP     | 28.71654 | 79.73490  | 02:36:44 | N           | 0.50              |
| 22     | PILHIBHIT    | PURANPUR       | S-NPP     | 28.47355 | 80.14000  | 02:36:44 | N           | 0.50              |
| 23     | PILHIBHIT    | PURANPUR       | S-NPP     | 28.63426 | 80.01895  | 02:36:44 | N           | 0.40              |
| 24     | SHAHJAHANPUR | PUWANYA        | S-NPP     | 28.05805 | 80.01574  | 02:36:44 | N           | 0.40              |
| 25     | SHAHJAHANPUR | TILHAR         | S-NPP     | 27.92570 | 79.77284  | 13:46:44 | D           | 7.90              |
| 26     | SHARANPUR    | NAKUR          | S-NPP     | 29.97543 | 77.29802  | 13:46:44 | D           | 1.50              |
| 27     | UNNAO        | SAFIPUR        | S-NPP     | 26.98272 | 80.26278  | 13:46:44 | D           | 10.40             |

### Details of residue burning events in Rajasthan on 27-Oct-2024

| S. No. | District | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m <sup>2</sup> ) |
|--------|----------|----------------|-----------|----------|-----------|----------|-------------|--------------------------------|
| 1      | BARAN    | ANTA           | S-NPP     | 25.10761 | 76.24905  | 13:46:44 | D           | 5.10                           |
| 2      | BARAN    | BARAN          | S-NPP     | 25.12323 | 76.58946  | 13:46:44 | D           | 3.50                           |
| 3      | BARAN    | MANGROL        | S-NPP     | 25.25149 | 76.51099  | 13:46:44 | D           | 2.90                           |
| 4      | BARAN    | MANGROL        | S-NPP     | 25.25212 | 76.51602  | 13:46:44 | D           | 3.10                           |
| 5      | BARAN    | SHAHBAD        | S-NPP     | 25.08487 | 76.96432  | 13:46:44 | D           | 10.60                          |
| 6      | BARAN    | SHAHBAD        | S-NPP     | 25.09647 | 76.89873  | 13:46:44 | D           | 4.10                           |
| 7      | BARAN    | SHAHBAD        | S-NPP     | 25.10936 | 77.06847  | 13:46:44 | D           | 4.00                           |
| 8      | BARAN    | SHAHBAD        | S-NPP     | 25.11841 | 77.01321  | 13:46:44 | D           | 18.00                          |
| 9      | BARAN    | SHAHBAD        | S-NPP     | 25.15553 | 77.12178  | 13:46:44 | D           | 11.40                          |
| 10     | BARAN    | SHAHBAD        | AQUA      | 25.12800 | 76.97400  | 14:45:56 | D           | 12.60                          |
| 11     | BARAN    | SHAHBAD        | AQUA      | 25.13000 | 76.99100  | 14:45:56 | D           | 23.90                          |
| 12     | BUNDI    | BUNDI          | S-NPP     | 25.28561 | 75.81339  | 13:46:44 | D           | 5.50                           |
| 13     | BUNDI    | BUNDI          | S-NPP     | 25.28677 | 75.87993  | 13:46:44 | D           | 4.70                           |
| 14     | BUNDI    | BUNDI          | S-NPP     | 25.31115 | 75.86665  | 13:46:44 | D           | 6.50                           |
| 15     | BUNDI    | BUNDI          | S-NPP     | 25.32306 | 75.81934  | 13:46:44 | D           | 2.40                           |
| 16     | BUNDI    | BUNDI          | S-NPP     | 25.34002 | 75.83580  | 13:46:44 | D           | 3.50                           |
| 17     | BUNDI    | BUNDI          | S-NPP     | 25.34061 | 75.84048  | 13:46:44 | D           | 3.50                           |
| 18     | BUNDI    | BUNDI          | S-NPP     | 25.48606 | 75.81513  | 13:46:44 | D           | 2.90                           |
| 19     | BUNDI    | BUNDI          | S-NPP     | 25.48911 | 75.80988  | 13:46:44 | D           | 5.50                           |
| 20     | BUNDI    | INDRAGARH      | S-NPP     | 25.48902 | 76.13567  | 13:46:44 | D           | 5.20                           |
| 21     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.30932 | 75.91003  | 13:46:44 | D           | 3.30                           |
| 22     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.31066 | 75.86897  | 13:46:44 | D           | 5.50                           |
| 23     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.34029 | 75.92685  | 13:46:44 | D           | 5.40                           |
| 24     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.36350 | 75.93295  | 13:46:44 | D           | 2.70                           |
| 25     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.39266 | 76.04497  | 13:46:44 | D           | 6.40                           |
| 26     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.39653 | 75.92793  | 13:46:44 | D           | 1.60                           |
| 27     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.40932 | 75.99860  | 13:46:44 | D           | 7.80                           |
| 28     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.41109 | 76.07153  | 13:46:44 | D           | 3.20                           |
| 29     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.41479 | 76.07097  | 13:46:44 | D           | 3.20                           |
| 30     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.44077 | 76.02013  | 13:46:44 | D           | 4.20                           |
| 31     | BUNDI    | KESHORAIPATAN  | S-NPP     | 25.44906 | 76.08745  | 13:46:44 | D           | 3.40                           |

|    |              |              |       |          |          |          |   |       |
|----|--------------|--------------|-------|----------|----------|----------|---|-------|
| 32 | BUNDI        | KESHORAIPTAN | S-NPP | 25.45255 | 75.99397 | 13:46:44 | D | 3.10  |
| 33 | GANGANAGAR   | VIJAY NAGAR  | S-NPP | 29.37993 | 73.65996 | 13:46:44 | D | 1.30  |
| 34 | HANUMANGARH  | HANUMANGARH  | S-NPP | 29.39306 | 74.24871 | 13:46:44 | D | 8.20  |
| 35 | HANUMANGARH  | HANUMANGARH  | S-NPP | 29.65785 | 74.25070 | 13:46:44 | D | 2.70  |
| 36 | HANUMANGARH  | PILIBANGA    | S-NPP | 29.55268 | 74.01601 | 13:46:44 | D | 7.60  |
| 37 | HANUMANGARH  | SANGHRIYA    | S-NPP | 29.94166 | 74.44547 | 13:46:44 | D | 4.00  |
| 38 | HANUMANGARH  | TIBI         | S-NPP | 29.42058 | 74.46071 | 13:46:44 | D | 5.70  |
| 39 | HANUMANGARH  | TIBI         | S-NPP | 29.48344 | 74.48502 | 13:46:44 | D | 2.60  |
| 40 | HANUMANGARH  | TIBI         | S-NPP | 29.49833 | 74.54482 | 13:46:44 | D | 3.20  |
| 41 | HANUMANGARH  | TIBI         | S-NPP | 29.50193 | 74.54423 | 13:46:44 | D | 4.80  |
| 42 | HANUMANGARH  | TIBI         | S-NPP | 29.50437 | 74.41965 | 13:46:44 | D | 4.90  |
| 43 | HANUMANGARH  | TIBI         | S-NPP | 29.54555 | 74.47175 | 13:46:44 | D | 4.00  |
| 44 | HANUMANGARH  | TIBI         | AQUA  | 29.50600 | 74.46800 | 14:45:56 | D | 10.50 |
| 45 | KOTA         | DIGOD        | S-NPP | 25.26186 | 76.06717 | 13:46:44 | D | 3.20  |
| 46 | KOTA         | DIGOD        | S-NPP | 25.28958 | 76.04839 | 13:46:44 | D | 5.30  |
| 47 | KOTA         | LADPURA      | S-NPP | 25.23713 | 75.95952 | 13:46:44 | D | 7.40  |
| 48 | KOTA         | LADPURA      | AQUA  | 25.21100 | 76.02200 | 14:45:56 | D | 11.90 |
| 49 | KOTA         | LADPURA      | AQUA  | 25.21600 | 76.01500 | 14:45:56 | D | 14.40 |
| 50 | KOTA         | PIPALDA      | S-NPP | 25.43585 | 76.51477 | 13:46:44 | D | 26.30 |
| 51 | KOTA         | PIPALDA      | S-NPP | 25.46295 | 76.54695 | 13:46:44 | D | 6.40  |
| 52 | KOTA         | PIPALDA      | S-NPP | 25.48062 | 76.41078 | 13:46:44 | D | 3.90  |
| 53 | KOTA         | PIPALDA      | S-NPP | 25.48439 | 76.41022 | 13:46:44 | D | 4.60  |
| 54 | KOTA         | PIPALDA      | S-NPP | 25.50913 | 76.45504 | 13:46:44 | D | 4.00  |
| 55 | SWAIMADHOPUR | KHANDAR      | S-NPP | 25.88446 | 76.54771 | 13:46:44 | D | 8.50  |
| 56 | SWAIMADHOPUR | KHANDAR      | S-NPP | 26.02537 | 76.69437 | 13:46:44 | D | 2.10  |
| 57 | SWAIMADHOPUR | KHANDAR      | S-NPP | 26.03628 | 76.68742 | 13:46:44 | D | 2.00  |
| 58 | SWAIMADHOPUR | KHANDAR      | S-NPP | 26.04013 | 76.68687 | 13:46:44 | D | 3.80  |
| 59 | SWAIMADHOPUR | KHANDAR      | AQUA  | 25.87800 | 76.54100 | 14:45:56 | D | 17.80 |
| 60 | SWAIMADHOPUR | KHANDAR      | AQUA  | 25.98800 | 76.69900 | 14:45:56 | D | 12.70 |

## Details of residue burning events in Madhya Pradesh on 27-Oct-2024

| S. No. | District   | Tehsil / Block | Satellite | Latitude | Longitude | ACQ_TIME | Day / Night | Fire Power (W/m2) |
|--------|------------|----------------|-----------|----------|-----------|----------|-------------|-------------------|
| 1      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.42984 | 77.58385  | 13:46:44 | D           | 3.80              |
| 2      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.43443 | 77.55500  | 13:46:44 | D           | 3.80              |
| 3      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.45221 | 77.48270  | 13:46:44 | D           | 3.40              |
| 4      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.45616 | 77.48215  | 13:46:44 | D           | 7.40              |
| 5      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.52607 | 77.56232  | 13:46:44 | D           | 5.60              |
| 6      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.54527 | 77.55402  | 13:46:44 | D           | 9.60              |
| 7      | ASHOKNAGAR | ASHOKNAGAR     | S-NPP     | 24.61605 | 77.83103  | 13:46:44 | D           | 2.30              |
| 8      | ASHOKNAGAR | ASHOKNAGAR     | AQUA      | 24.54900 | 77.52500  | 14:45:56 | D           | 18.10             |
| 9      | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.69048 | 77.69894  | 13:46:44 | D           | 3.70              |
| 10     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.80382 | 77.82063  | 13:46:44 | D           | 0.90              |
| 11     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.80385 | 77.74638  | 13:46:44 | D           | 4.50              |
| 12     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.80410 | 77.82082  | 13:46:44 | D           | 0.80              |
| 13     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.81713 | 77.82687  | 13:46:44 | D           | 6.20              |
| 14     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.82751 | 77.80971  | 13:46:44 | D           | 2.50              |
| 15     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.85572 | 77.56254  | 13:46:44 | D           | 8.10              |
| 16     | ASHOKNAGAR | ISAGARH        | S-NPP     | 24.96410 | 77.81859  | 13:46:44 | D           | 2.90              |
| 17     | ASHOKNAGAR | MUNGAOLI       | S-NPP     | 24.25544 | 77.95086  | 13:46:44 | D           | 5.60              |
| 18     | ASHOKNAGAR | MUNGAOLI       | S-NPP     | 24.36137 | 78.11975  | 13:46:44 | D           | 2.30              |
| 19     | ASHOKNAGAR | MUNGAOLI       | S-NPP     | 24.41616 | 77.81097  | 13:46:44 | D           | 2.40              |
| 20     | ASHOKNAGAR | MUNGAOLI       | S-NPP     | 24.52346 | 77.85068  | 13:46:44 | D           | 2.60              |
| 21     | BARWANI    | THIKRI         | S-NPP     | 22.09991 | 75.27438  | 13:46:44 | D           | 2.40              |
| 22     | BETUL      | BETUL          | S-NPP     | 22.06107 | 78.02499  | 13:46:44 | D           | 3.10              |
| 23     | BHIND      | BHIND          | S-NPP     | 26.53497 | 78.70129  | 13:46:44 | D           | 11.10             |
| 24     | BHIND      | LAHAR          | S-NPP     | 26.15528 | 78.89021  | 13:46:44 | D           | 6.60              |
| 25     | BHIND      | MAHGAWAN       | S-NPP     | 26.55680 | 78.45200  | 13:46:44 | D           | 4.90              |
| 26     | BHIND      | ROUN           | S-NPP     | 26.32952 | 79.03661  | 13:46:44 | D           | 3.10              |
| 27     | DATIA      | BHANDER        | S-NPP     | 25.69763 | 78.76315  | 13:46:44 | D           | 3.60              |
| 28     | DATIA      | DATIA          | S-NPP     | 25.59113 | 78.60117  | 13:46:44 | D           | 1.30              |
| 29     | DATIA      | DATIA          | S-NPP     | 25.70927 | 78.31732  | 13:46:44 | D           | 2.40              |
| 30     | DATIA      | DATIA          | S-NPP     | 25.71343 | 78.31764  | 13:46:44 | D           | 6.30              |

|    |            |         |       |          |          |          |   |       |
|----|------------|---------|-------|----------|----------|----------|---|-------|
| 31 | DATIA      | DATIA   | S-NPP | 25.71349 | 78.31677 | 13:46:44 | D | 5.80  |
| 32 | DATIA      | SEONDHA | S-NPP | 25.79227 | 78.48836 | 13:46:44 | D | 2.10  |
| 33 | DATIA      | SEONDHA | S-NPP | 25.92743 | 78.51180 | 13:46:44 | D | 5.80  |
| 34 | DATIA      | SEONDHA | S-NPP | 26.09382 | 78.72773 | 13:46:44 | D | 1.80  |
| 35 | DHAR       | KUKSHI  | S-NPP | 22.20221 | 74.91435 | 13:46:44 | D | 1.90  |
| 36 | DHAR       | MANAWAR | S-NPP | 22.19618 | 75.13979 | 13:46:44 | D | 1.80  |
| 37 | EAST NIMAR | HARSUD  | S-NPP | 21.97024 | 76.83691 | 13:46:44 | D | 1.80  |
| 38 | GUNA       | ARON    | S-NPP | 24.24547 | 77.44387 | 13:46:44 | D | 3.00  |
| 39 | GUNA       | ARON    | S-NPP | 24.34398 | 77.53960 | 13:46:44 | D | 17.50 |
| 40 | GUNA       | ARON    | S-NPP | 24.41386 | 77.48498 | 13:46:44 | D | 5.10  |
| 41 | GUNA       | ARON    | S-NPP | 24.41781 | 77.48441 | 13:46:44 | D | 5.10  |
| 42 | GUNA       | ARON    | S-NPP | 24.48320 | 77.40585 | 13:46:44 | D | 3.10  |
| 43 | GUNA       | ARON    | S-NPP | 24.48386 | 77.41132 | 13:46:44 | D | 5.50  |
| 44 | GUNA       | ARON    | S-NPP | 24.48843 | 77.48324 | 13:46:44 | D | 15.80 |
| 45 | GUNA       | ARON    | AQUA  | 24.38000 | 77.43600 | 14:45:56 | D | 30.10 |
| 46 | GUNA       | ARON    | AQUA  | 24.38000 | 77.44600 | 14:45:56 | D | 40.80 |
| 47 | GUNA       | ARON    | AQUA  | 24.38200 | 77.45300 | 14:45:56 | D | 20.70 |
| 48 | GUNA       | GUNA    | S-NPP | 24.56357 | 77.44909 | 13:46:44 | D | 5.90  |
| 49 | GUNA       | GUNA    | S-NPP | 24.56493 | 77.42648 | 13:46:44 | D | 11.90 |
| 50 | GUNA       | GUNA    | S-NPP | 24.58006 | 77.41882 | 13:46:44 | D | 9.10  |
| 51 | GUNA       | GUNA    | S-NPP | 24.62736 | 77.41216 | 13:46:44 | D | 9.20  |
| 52 | GUNA       | GUNA    | S-NPP | 24.63130 | 77.41160 | 13:46:44 | D | 9.20  |
| 53 | GUNA       | GUNA    | S-NPP | 24.63143 | 77.47894 | 13:46:44 | D | 4.70  |
| 54 | GUNA       | GUNA    | S-NPP | 24.64061 | 77.45510 | 13:46:44 | D | 8.00  |
| 55 | GUNA       | GUNA    | S-NPP | 24.67568 | 77.39156 | 13:46:44 | D | 5.00  |
| 56 | GUNA       | GUNA    | S-NPP | 24.67963 | 77.39101 | 13:46:44 | D | 5.00  |
| 57 | GUNA       | GUNA    | S-NPP | 24.72165 | 77.37397 | 13:46:44 | D | 3.90  |
| 58 | GUNA       | GUNA    | S-NPP | 24.74363 | 77.52290 | 13:46:44 | D | 2.60  |
| 59 | GUNA       | GUNA    | S-NPP | 24.76915 | 77.01150 | 13:46:44 | D | 5.00  |
| 60 | GUNA       | GUNA    | S-NPP | 24.81190 | 77.43221 | 13:46:44 | D | 4.70  |
| 61 | GUNA       | GUNA    | S-NPP | 24.85812 | 77.19024 | 13:46:44 | D | 4.60  |
| 62 | GUNA       | GUNA    | S-NPP | 24.86431 | 77.51899 | 13:46:44 | D | 6.30  |
| 63 | GUNA       | GUNA    | S-NPP | 24.92666 | 77.12997 | 13:46:44 | D | 8.60  |
| 64 | GUNA       | GUNA    | S-NPP | 24.95171 | 77.20840 | 13:46:44 | D | 4.90  |
| 65 | GUNA       | GUNA    | S-NPP | 24.95190 | 77.20972 | 13:46:44 | D | 4.60  |

|     |              |             |       |          |          |          |   |       |
|-----|--------------|-------------|-------|----------|----------|----------|---|-------|
| 66  | GUNA         | GUNA        | S-NPP | 24.97164 | 77.01015 | 13:46:44 | D | 3.90  |
| 67  | GUNA         | GUNA        | S-NPP | 24.98515 | 77.00366 | 02:36:44 | N | 1.80  |
| 68  | GUNA         | GUNA        | AQUA  | 24.65000 | 77.42800 | 14:45:56 | D | 14.00 |
| 69  | GUNA         | GUNA        | AQUA  | 24.65500 | 77.43300 | 14:45:56 | D | 21.10 |
| 70  | GUNA         | GUNA        | AQUA  | 24.70100 | 77.04700 | 14:45:56 | D | 12.90 |
| 71  | GUNA         | RAGHOGARH   | S-NPP | 24.28852 | 77.17731 | 13:46:44 | D | 4.10  |
| 72  | GUNA         | RAGHOGARH   | S-NPP | 24.28931 | 77.17496 | 13:46:44 | D | 6.50  |
| 73  | GUNA         | RAGHOGARH   | S-NPP | 24.56344 | 77.14773 | 13:46:44 | D | 3.70  |
| 74  | GUNA         | RAGHOGARH   | S-NPP | 24.58669 | 77.08012 | 13:46:44 | D | 3.60  |
| 75  | GWALIOR      | BHITARWAR   | S-NPP | 25.80445 | 78.09505 | 13:46:44 | D | 2.60  |
| 76  | GWALIOR      | BHITARWAR   | S-NPP | 25.96100 | 78.08309 | 13:46:44 | D | 4.10  |
| 77  | GWALIOR      | DABRA       | S-NPP | 25.88252 | 78.14864 | 13:46:44 | D | 3.30  |
| 78  | GWALIOR      | GWALIOR     | S-NPP | 26.28717 | 78.13715 | 13:46:44 | D | 2.50  |
| 79  | GWALIOR      | GWALIOR     | S-NPP | 26.30870 | 78.13866 | 13:46:44 | D | 4.40  |
| 80  | HOSHANGABAD  | BABAI       | S-NPP | 22.72372 | 77.92077 | 13:46:44 | D | 4.10  |
| 81  | HOSHANGABAD  | BABAI       | S-NPP | 22.72438 | 77.92625 | 13:46:44 | D | 3.00  |
| 82  | HOSHANGABAD  | BANKHERI    | S-NPP | 22.80331 | 78.55375 | 13:46:44 | D | 2.80  |
| 83  | HOSHANGABAD  | BANKHERI    | S-NPP | 22.80687 | 78.51292 | 13:46:44 | D | 1.90  |
| 84  | HOSHANGABAD  | HOSHANGABAD | S-NPP | 22.59388 | 77.60823 | 13:46:44 | D | 3.70  |
| 85  | HOSHANGABAD  | HOSHANGABAD | S-NPP | 22.66212 | 77.74234 | 13:46:44 | D | 3.50  |
| 86  | HOSHANGABAD  | HOSHANGABAD | S-NPP | 22.72276 | 77.62060 | 13:46:44 | D | 2.70  |
| 87  | HOSHANGABAD  | HOSHANGABAD | AQUA  | 22.65300 | 77.61100 | 14:45:56 | D | 13.60 |
| 88  | HOSHANGABAD  | ITARSI      | S-NPP | 22.54238 | 77.70393 | 13:46:44 | D | 3.30  |
| 89  | HOSHANGABAD  | ITARSI      | S-NPP | 22.54243 | 77.70643 | 13:46:44 | D | 4.30  |
| 90  | HOSHANGABAD  | ITARSI      | S-NPP | 22.57374 | 77.66985 | 13:46:44 | D | 8.00  |
| 91  | HOSHANGABAD  | SEONI MALWA | S-NPP | 22.61571 | 77.49939 | 13:46:44 | D | 2.00  |
| 92  | HOSHANGABAD  | SEONI MALWA | S-NPP | 22.61685 | 77.49753 | 13:46:44 | D | 2.50  |
| 93  | JABALPUR     | JABALPUR    | S-NPP | 23.09196 | 79.83983 | 13:46:44 | D | 5.40  |
| 94  | JABALPUR     | PATAN       | S-NPP | 23.21377 | 79.66802 | 13:46:44 | D | 9.90  |
| 95  | JABALPUR     | SAHPURA     | S-NPP | 23.17558 | 79.75341 | 13:46:44 | D | 4.70  |
| 96  | MORENA       | JORA        | S-NPP | 26.34811 | 77.72388 | 13:46:44 | D | 1.40  |
| 97  | MORENA       | SABALGARH   | S-NPP | 26.26005 | 77.38206 | 13:46:44 | D | 18.30 |
| 98  | NARSHIMAPURA | NARSIMHAPUR | S-NPP | 23.03578 | 79.26548 | 13:46:44 | D | 4.00  |
| 99  | NARSHIMAPURA | NARSIMHAPUR | S-NPP | 23.03740 | 79.26637 | 13:46:44 | D | 3.50  |
| 100 | RAISEN       | GOHARGANJ   | S-NPP | 23.20958 | 77.60884 | 13:46:44 | D | 3.40  |

|     |            |           |       |          |          |          |   |       |
|-----|------------|-----------|-------|----------|----------|----------|---|-------|
| 101 | RAISEN     | RAISEN    | S-NPP | 23.47473 | 77.59933 | 13:46:44 | D | 4.50  |
| 102 | RAISEN     | SILVANI   | S-NPP | 23.28519 | 78.49831 | 13:46:44 | D | 2.60  |
| 103 | SAGAR      | REHLI     | S-NPP | 23.60509 | 79.14000 | 13:46:44 | D | 4.10  |
| 104 | SAGAR      | SAGAR     | S-NPP | 23.66490 | 78.68083 | 13:46:44 | D | 4.00  |
| 105 | SEHORE     | BUDHNI    | S-NPP | 22.68771 | 77.52968 | 13:46:44 | D | 6.10  |
| 106 | SEHORE     | BUDHNI    | S-NPP | 22.69026 | 77.45554 | 13:46:44 | D | 2.90  |
| 107 | SEONI      | KEWLARI   | S-NPP | 22.50875 | 80.00513 | 13:46:44 | D | 1.80  |
| 108 | SEONI      | LAKHNADOU | S-NPP | 22.48316 | 79.48706 | 13:46:44 | D | 4.60  |
| 109 | SEONI      | SEONI     | S-NPP | 22.13981 | 79.71988 | 13:46:44 | D | 3.50  |
| 110 | SEONI      | SEONI     | S-NPP | 22.14047 | 79.71882 | 13:46:44 | D | 3.80  |
| 111 | SEONI      | SEONI     | S-NPP | 22.21881 | 79.38680 | 13:46:44 | D | 3.50  |
| 112 | SHEOPUR    | SHEOPUR   | S-NPP | 25.62061 | 76.65398 | 13:46:44 | D | 1.80  |
| 113 | SHEOPUR    | SHEOPUR   | S-NPP | 25.88025 | 76.73957 | 13:46:44 | D | 9.60  |
| 114 | SHEOPUR    | SHEOPUR   | AQUA  | 25.89400 | 76.78500 | 14:45:56 | D | 22.70 |
| 115 | SHIVPURI   | KARERA    | S-NPP | 25.38899 | 78.24506 | 13:46:44 | D | 4.10  |
| 116 | SHIVPURI   | KARERA    | S-NPP | 25.38939 | 78.24503 | 13:46:44 | D | 4.50  |
| 117 | SHIVPURI   | KOLARAS   | S-NPP | 24.91221 | 77.65343 | 13:46:44 | D | 7.40  |
| 118 | SHIVPURI   | KOLARAS   | S-NPP | 24.91710 | 77.66048 | 13:46:44 | D | 6.70  |
| 119 | SHIVPURI   | KOLARAS   | S-NPP | 24.92112 | 77.65990 | 13:46:44 | D | 5.10  |
| 120 | SHIVPURI   | KOLARAS   | S-NPP | 25.02209 | 77.57063 | 13:46:44 | D | 6.50  |
| 121 | SHIVPURI   | KOLARAS   | S-NPP | 25.03876 | 77.60890 | 13:46:44 | D | 5.50  |
| 122 | SHIVPURI   | KOLARAS   | S-NPP | 25.09019 | 77.62991 | 13:46:44 | D | 4.30  |
| 123 | SHIVPURI   | KOLARAS   | S-NPP | 25.15104 | 77.62098 | 13:46:44 | D | 1.90  |
| 124 | SHIVPURI   | KOLARAS   | S-NPP | 25.27177 | 77.63132 | 13:46:44 | D | 5.50  |
| 125 | VIDESHA    | BASODA    | S-NPP | 23.97984 | 78.02374 | 13:46:44 | D | 1.90  |
| 126 | VIDESHA    | GYARASPUR | S-NPP | 23.58141 | 78.17209 | 13:46:44 | D | 1.90  |
| 127 | VIDESHA    | KORWAI    | S-NPP | 24.13949 | 77.94730 | 13:46:44 | D | 4.00  |
| 128 | VIDESHA    | LETERI    | AQUA  | 24.22400 | 77.47900 | 14:45:56 | D | 13.70 |
| 129 | VIDESHA    | SIRANJ    | S-NPP | 24.17728 | 77.53385 | 13:46:44 | D | 5.60  |
| 130 | WEST NIMAR | BARWAH    | S-NPP | 22.16020 | 75.84113 | 13:46:44 | D | 2.10  |



**The study used data received from following Satellites at NRSC Ground Station**

| S. No. | Satellite Name              | Sensor           | Resolution (meter) | Day / Night Passes |
|--------|-----------------------------|------------------|--------------------|--------------------|
| 1.     | Suomi NPP                   | VIIRS            | 375                | Both               |
| 2.     | <del>JPSS 1 (NOAA 20)</del> | <del>VIIRS</del> | <del>375</del>     | <del>Both</del>    |
| 3.     | <del>JPSS 2 (NOAA 21)</del> | <del>VIIRS</del> | <del>375</del>     | <del>Both</del>    |
| 4.     | 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**

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|              |                       |                                  |  |
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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)

The DASHBOARD for paddy residue burning events is available at weblink: [CREAMS Fire Dashboard](#)

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