

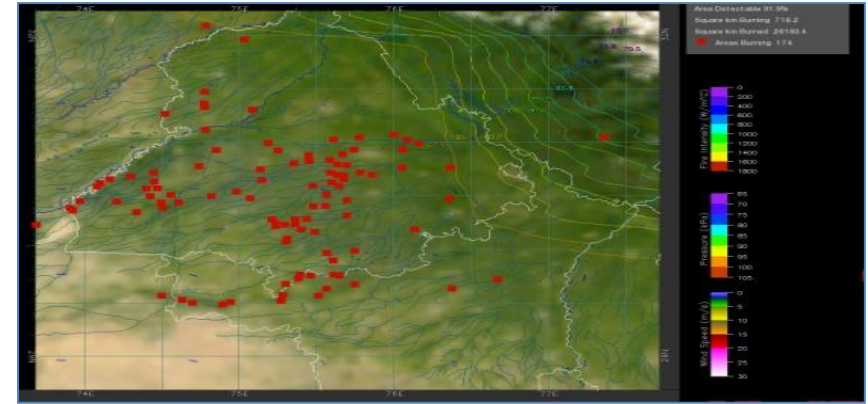
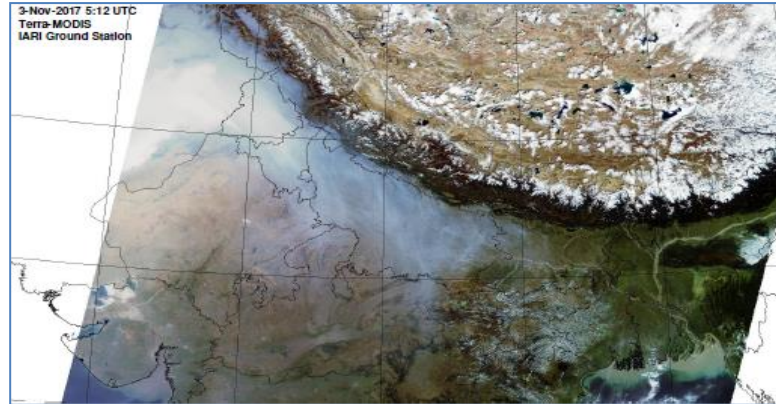


# MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin  
No. 23

Events Date:  
07-Oct-2024

Issued on:  
07-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

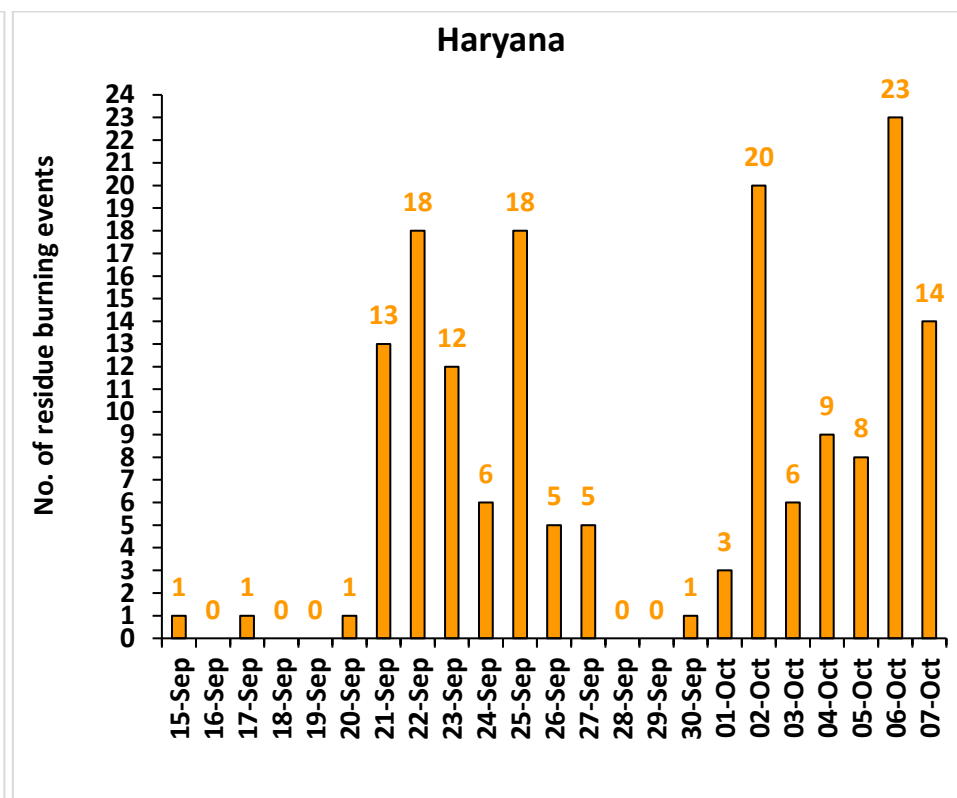
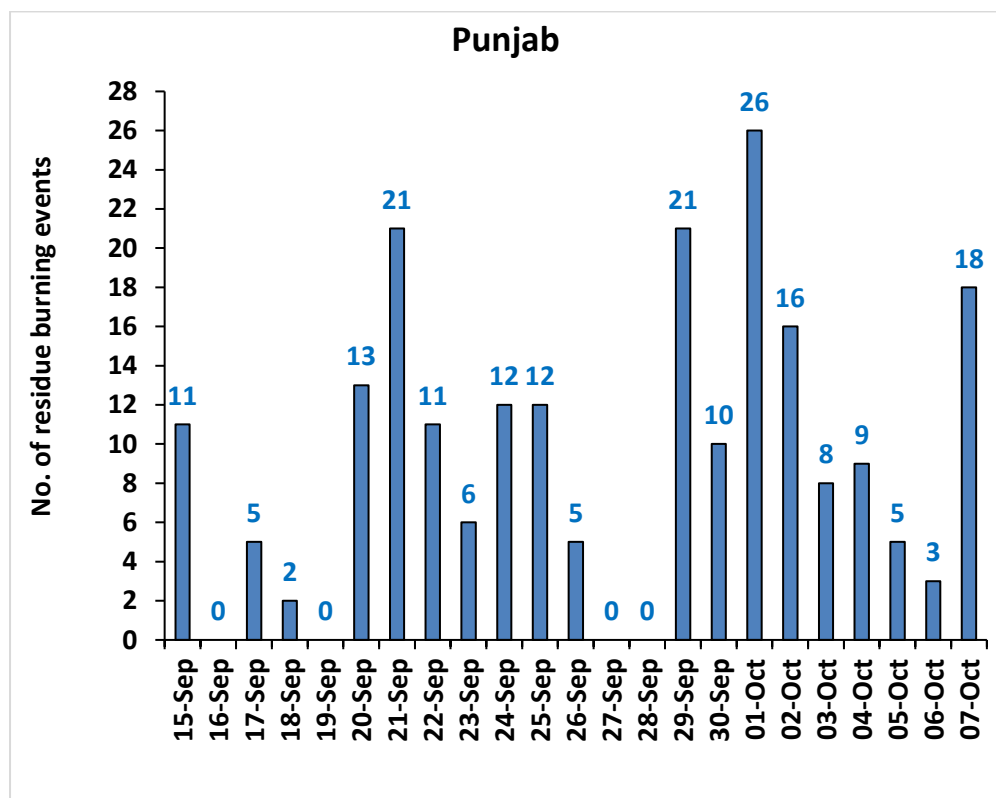
<https://creams.iari.res.in>



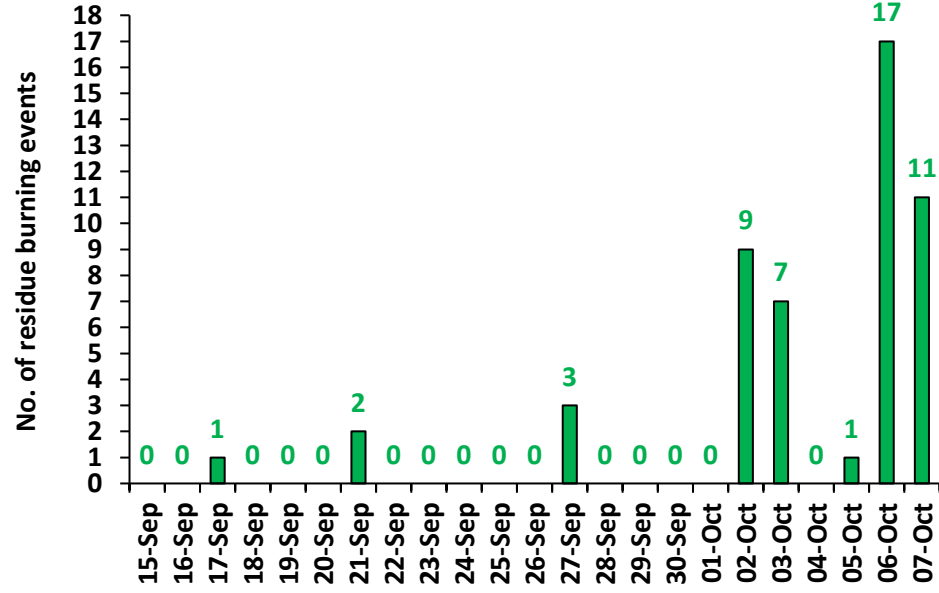
## Highlights for 07-Oct-2024

- 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 **64** residue burning events in the six study States on **07-Oct-2024**.
- The state wise events detected on **07-Oct-2024** were **18** in Punjab, **14** in Haryana, **11** in UP, **00** in Delhi, **04** in Rajasthan and **17** in MP.
- Total **489** burning events were detected in the six states between **15-Sept-2024** and **07-Oct-2024**, which are distributed as **214**, **164**, **51**, **00**, **16** and **44** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

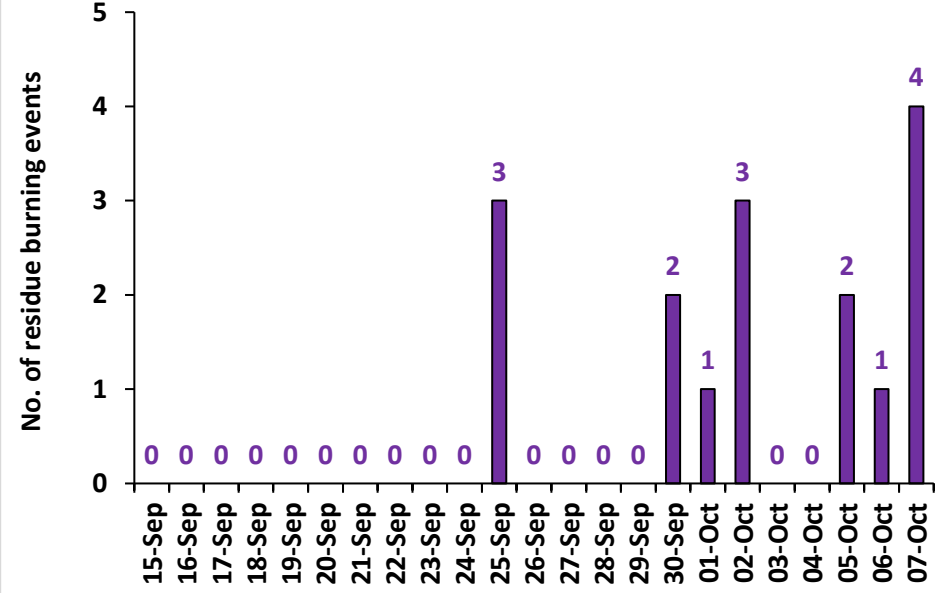
### Temporal distribution of rice residue burning events for the study States in 2024



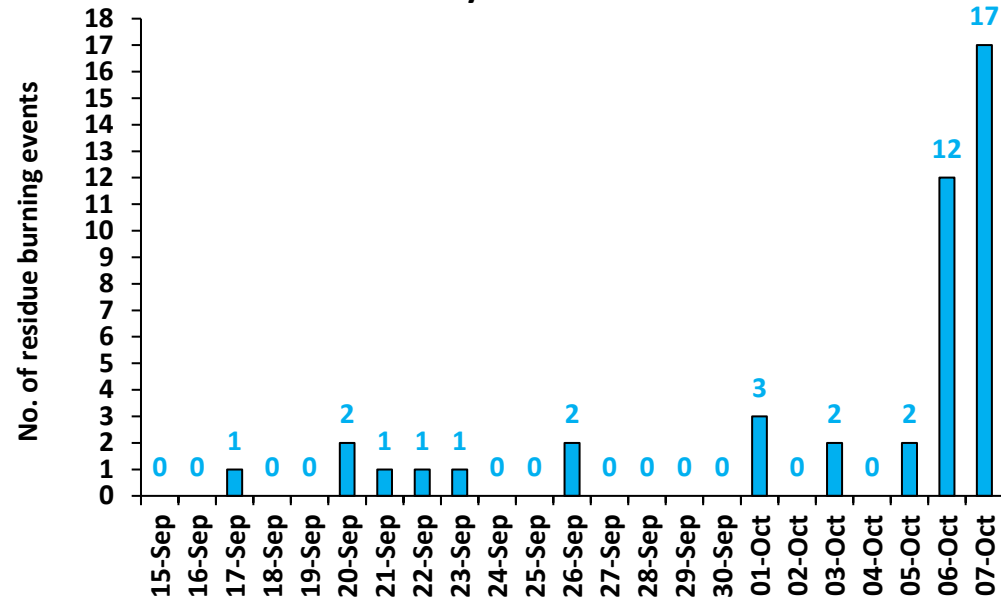
### Uttar Pradesh



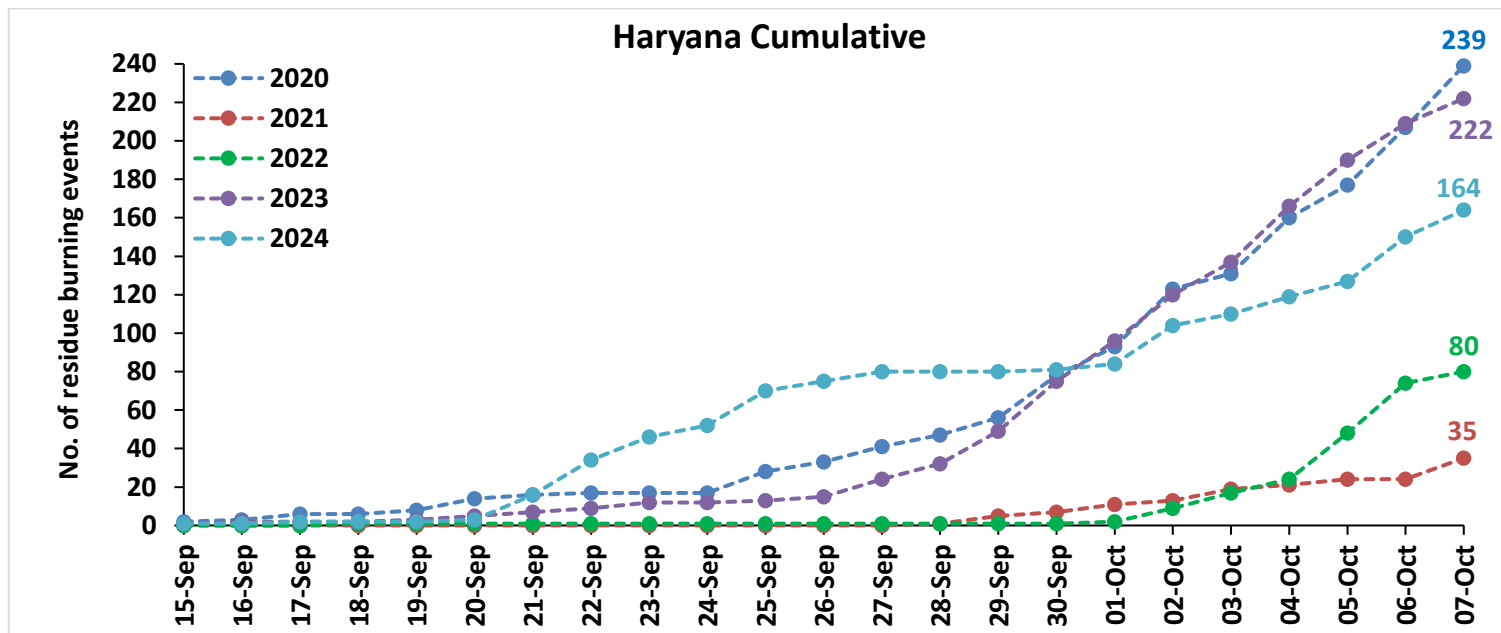
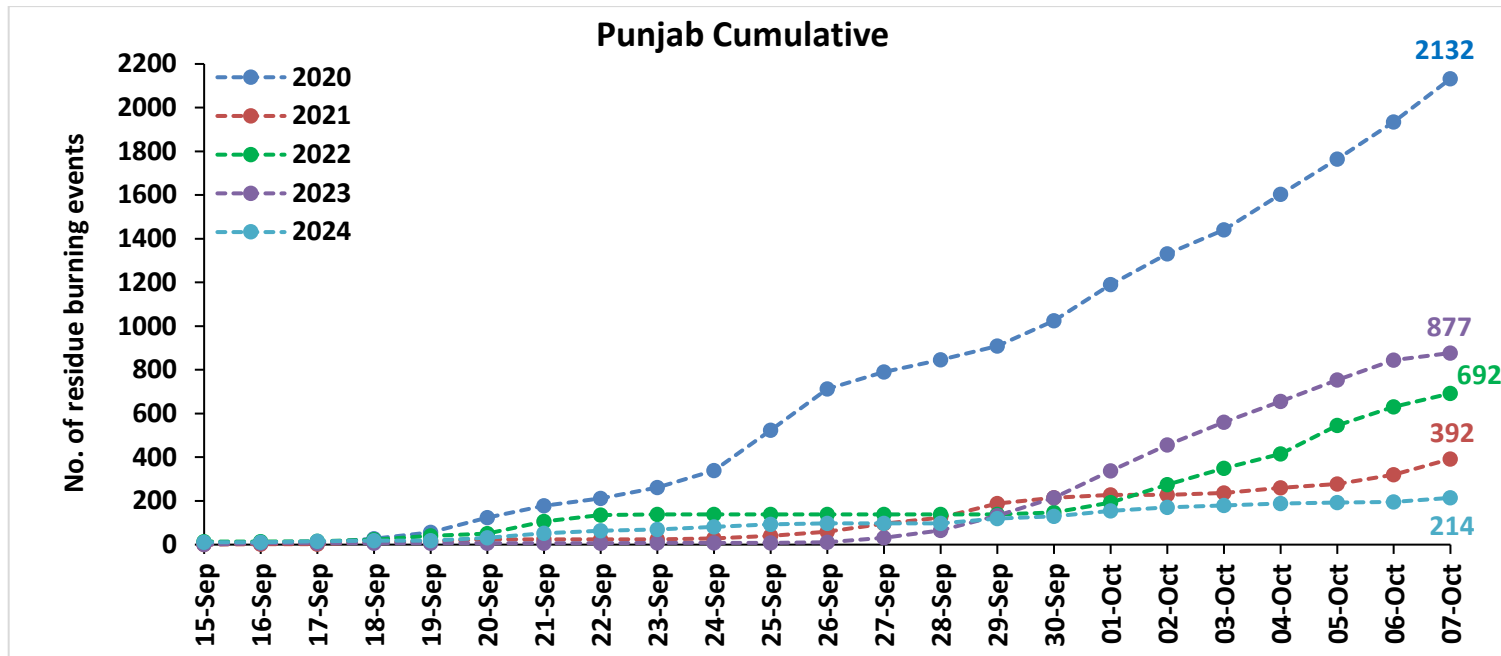
### Rajasthan

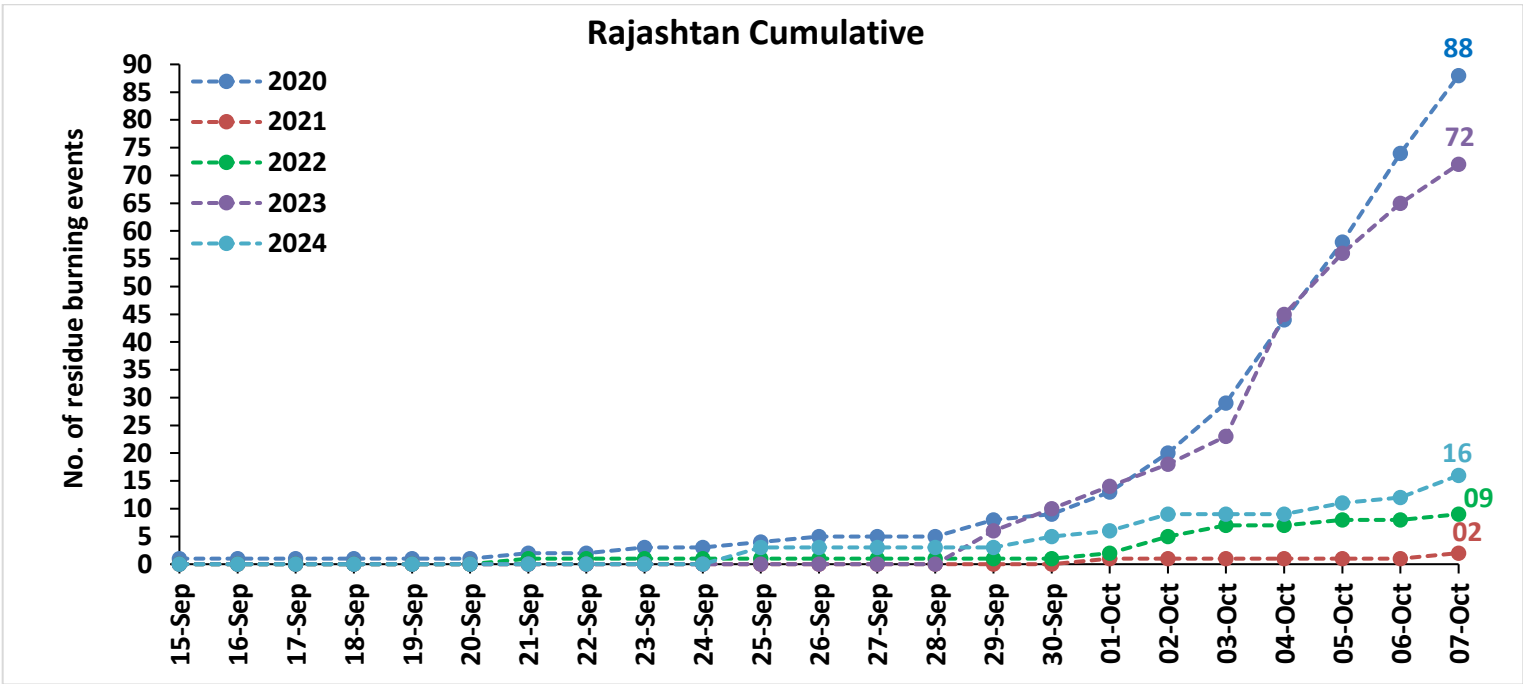
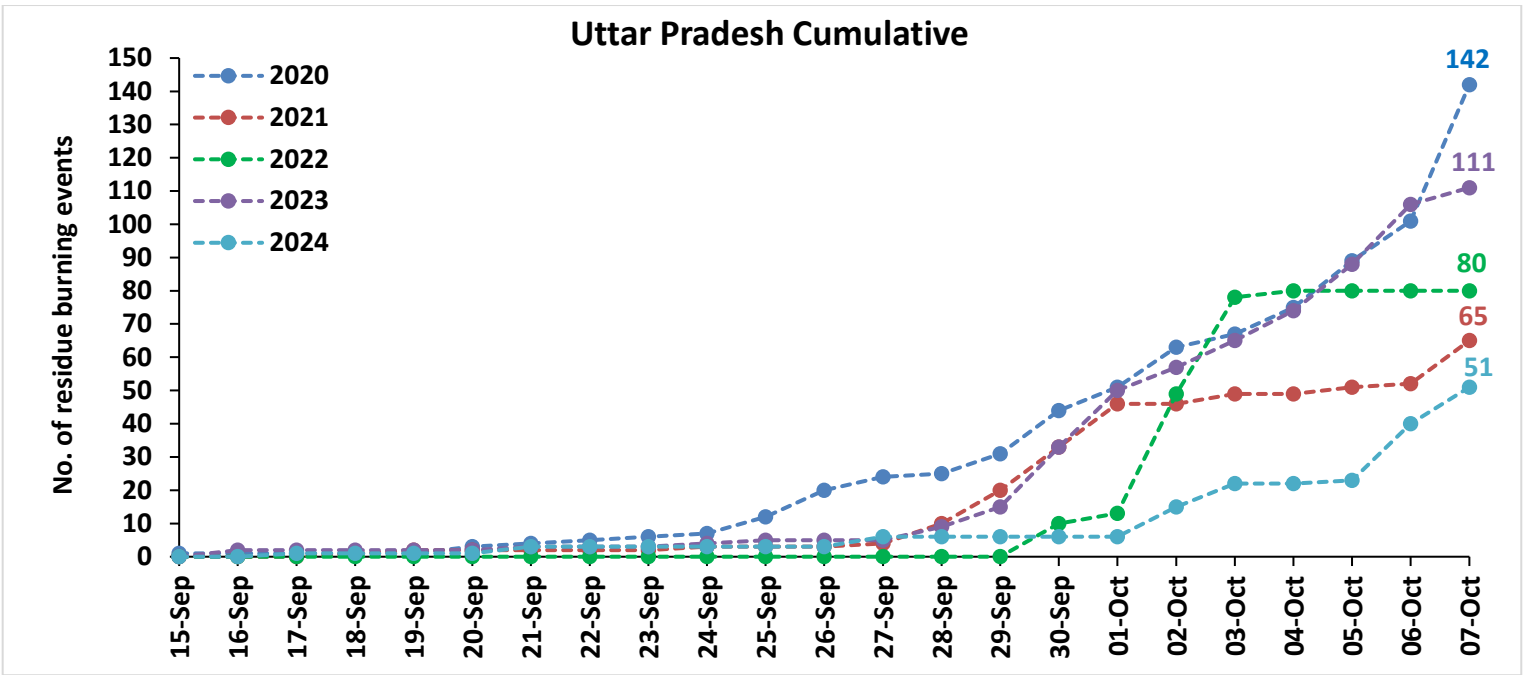


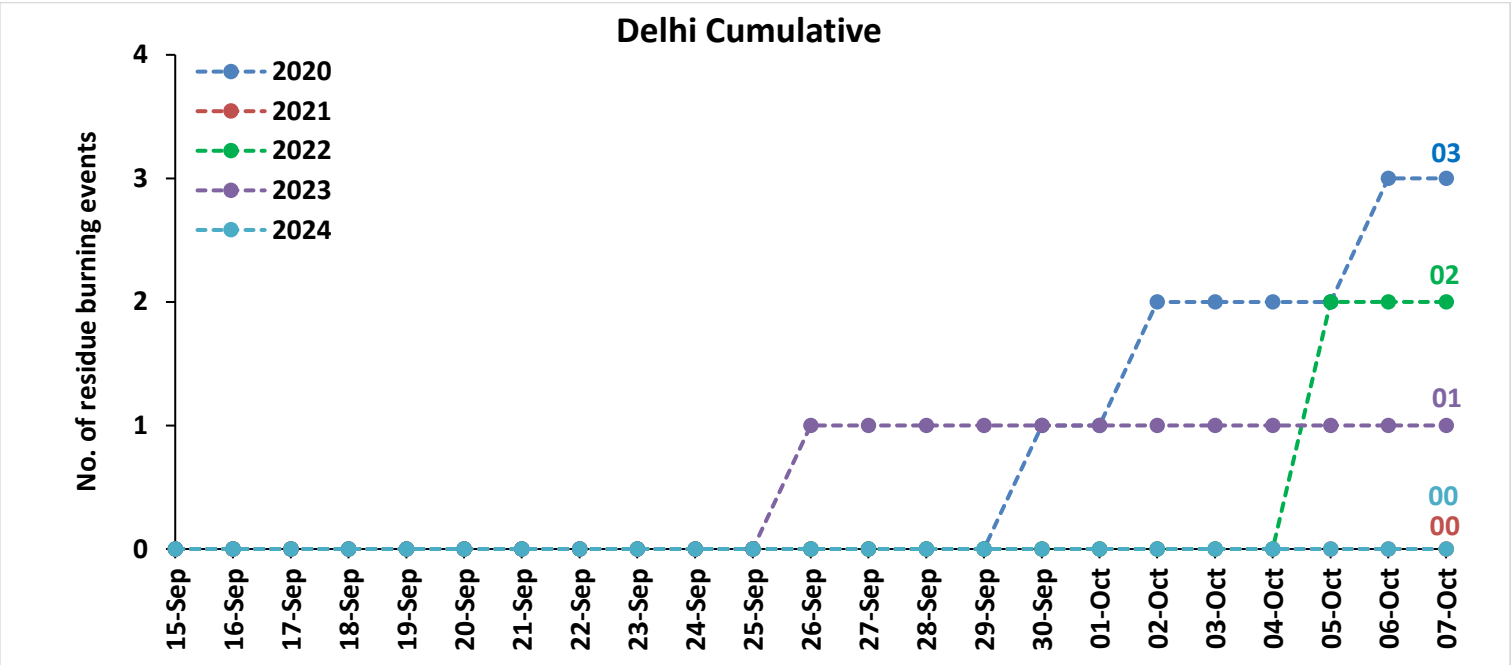
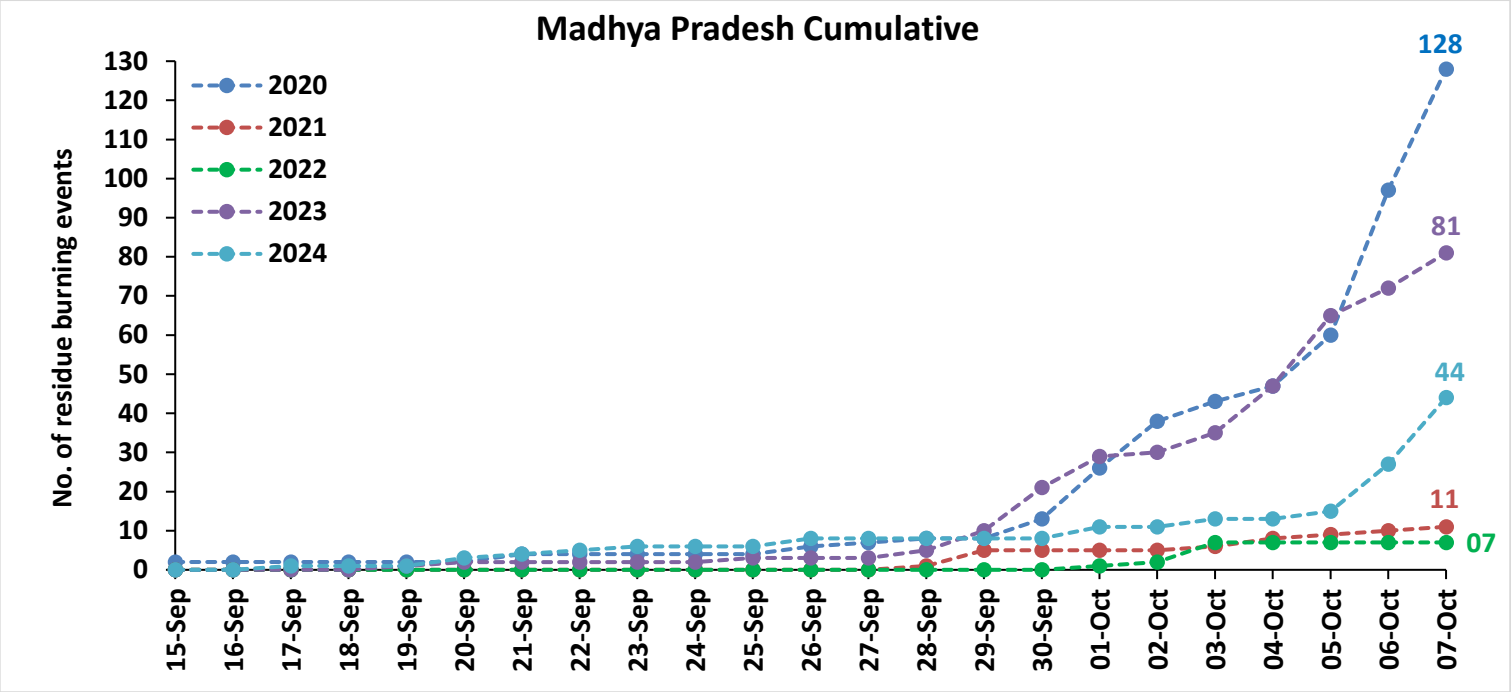
### Madhya Pradesh



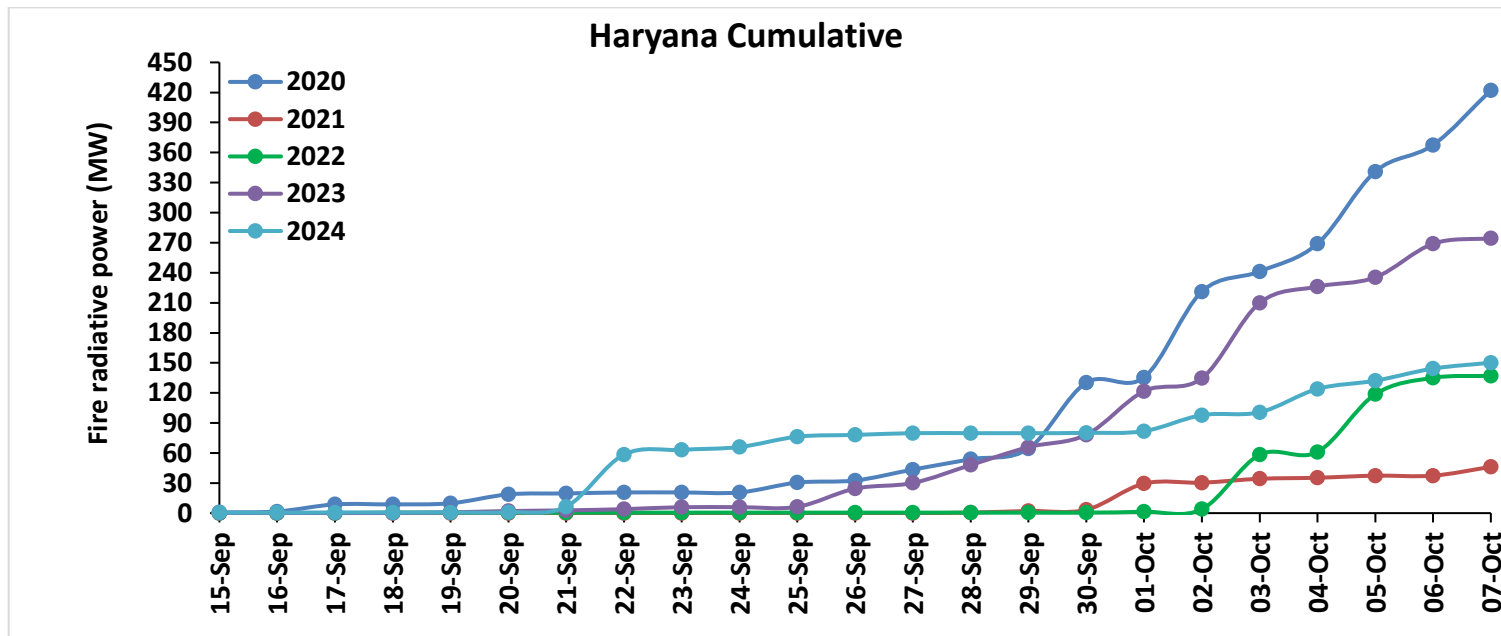
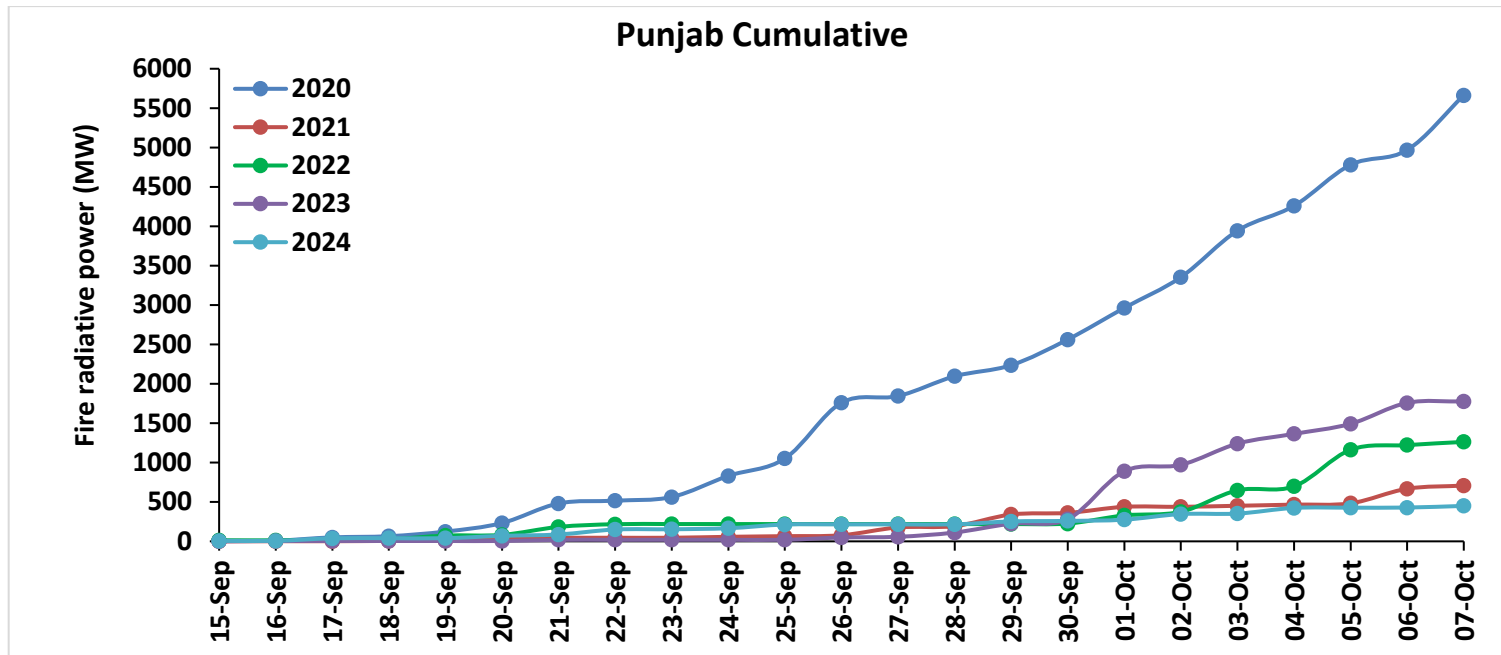
**Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States**

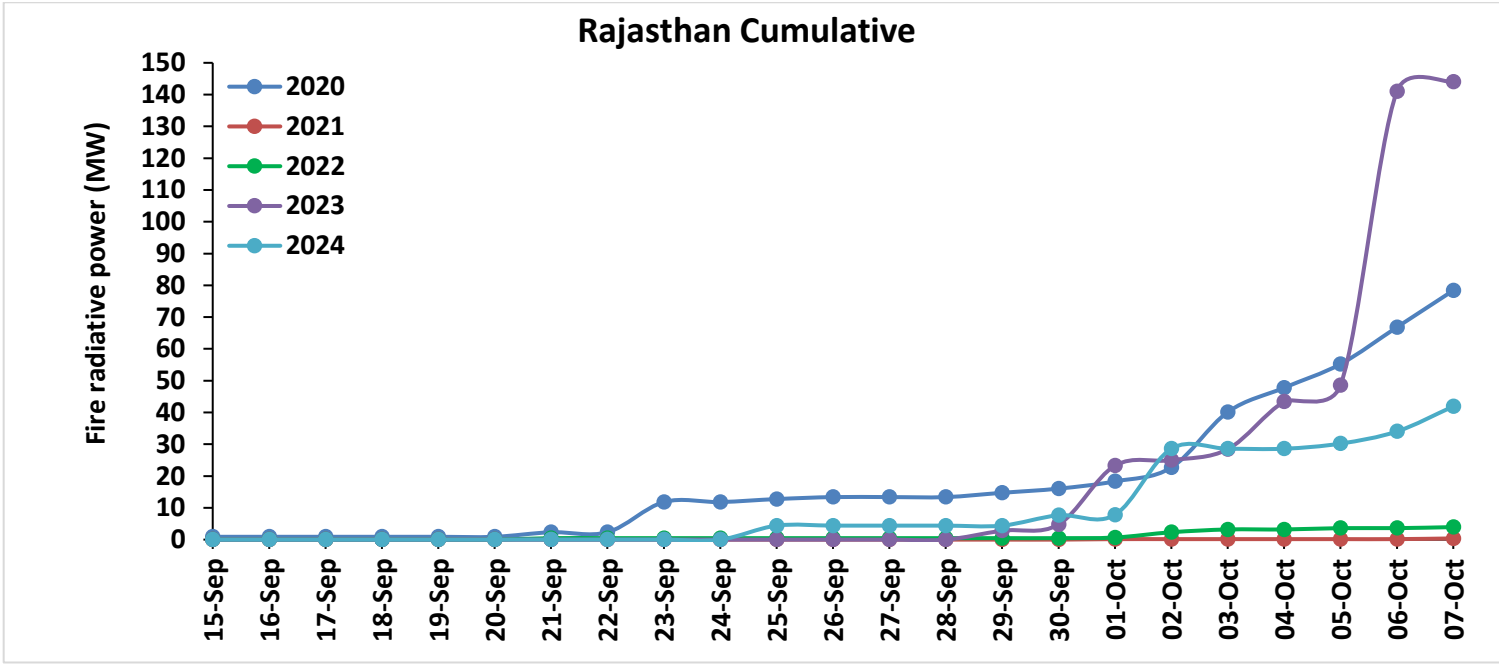
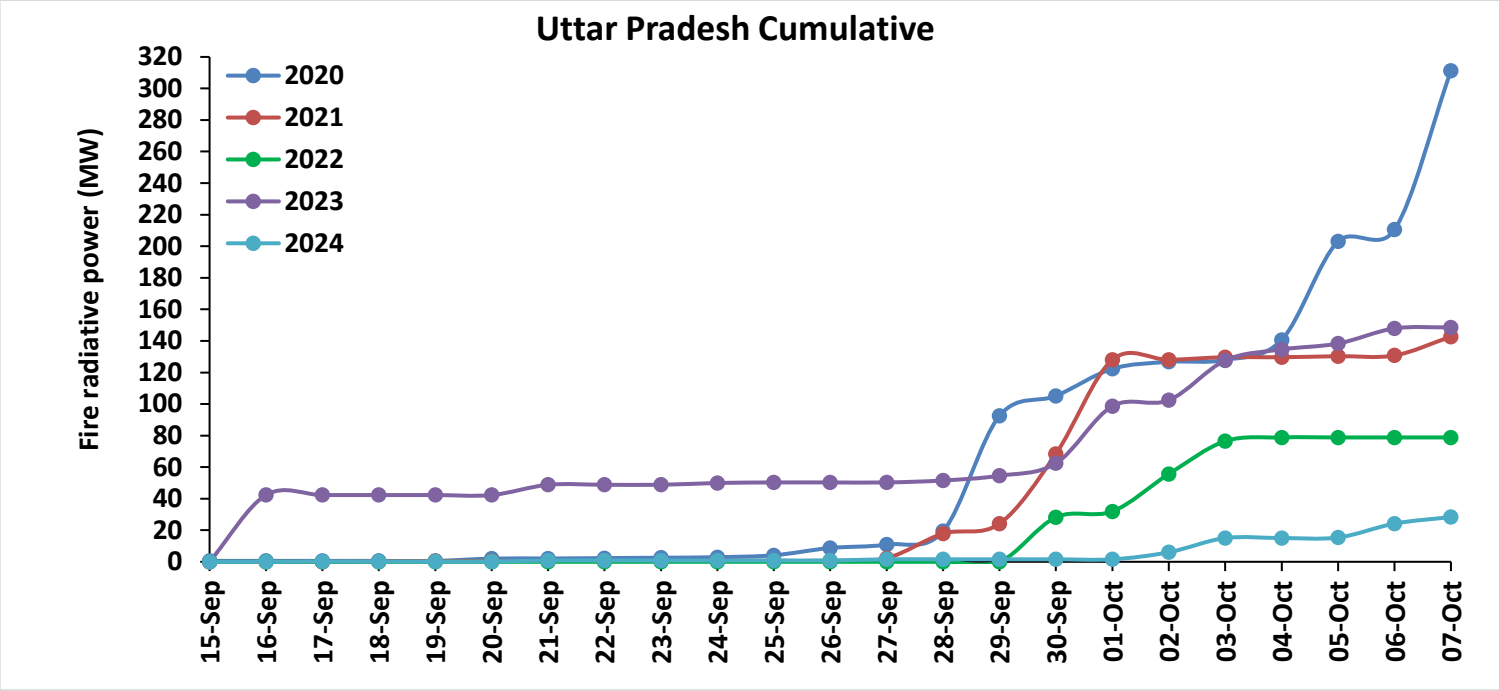




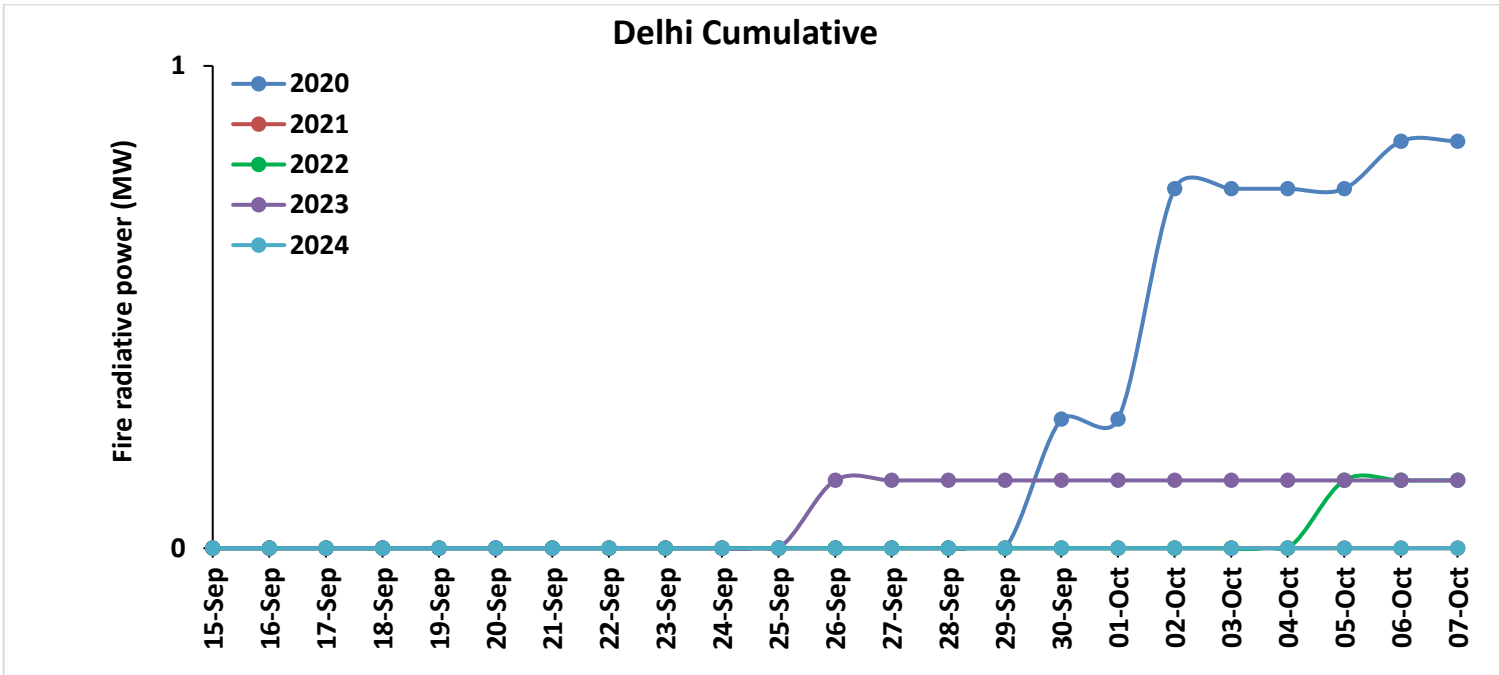
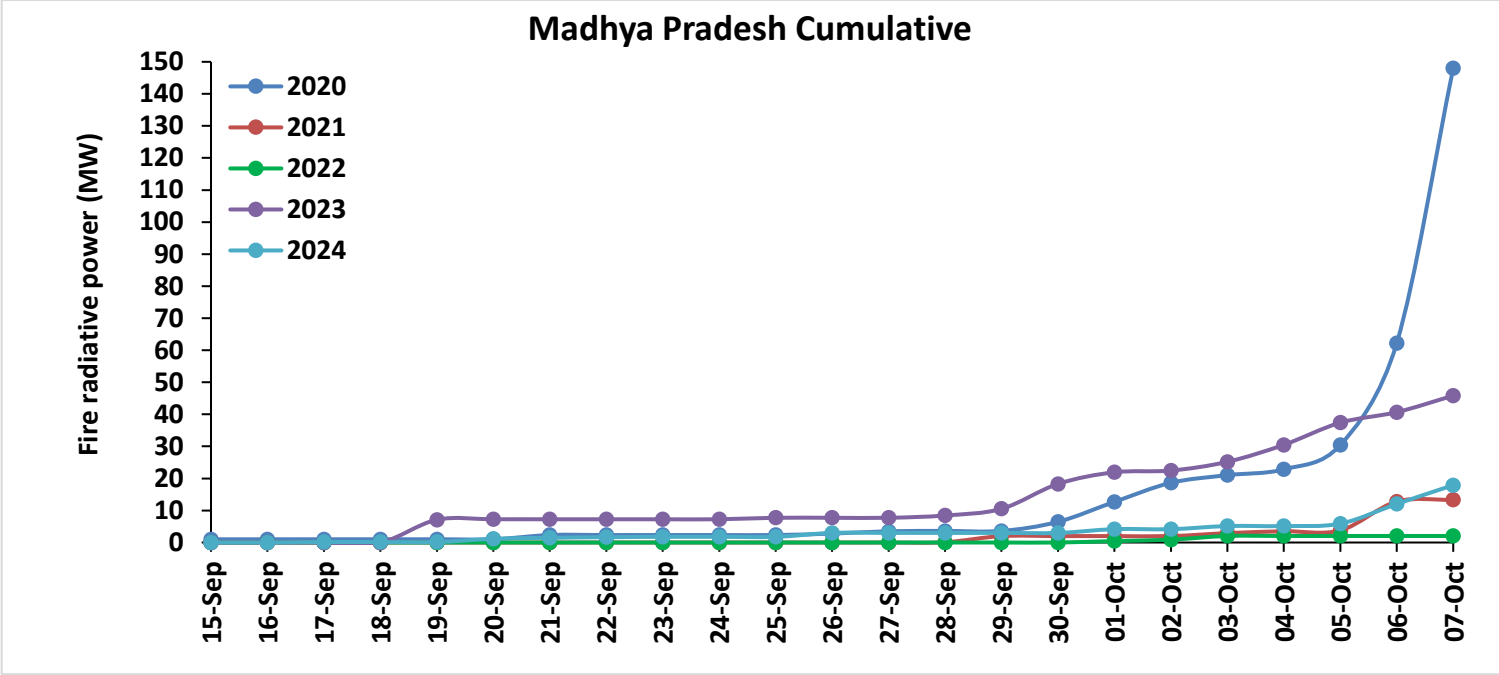


**Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States**



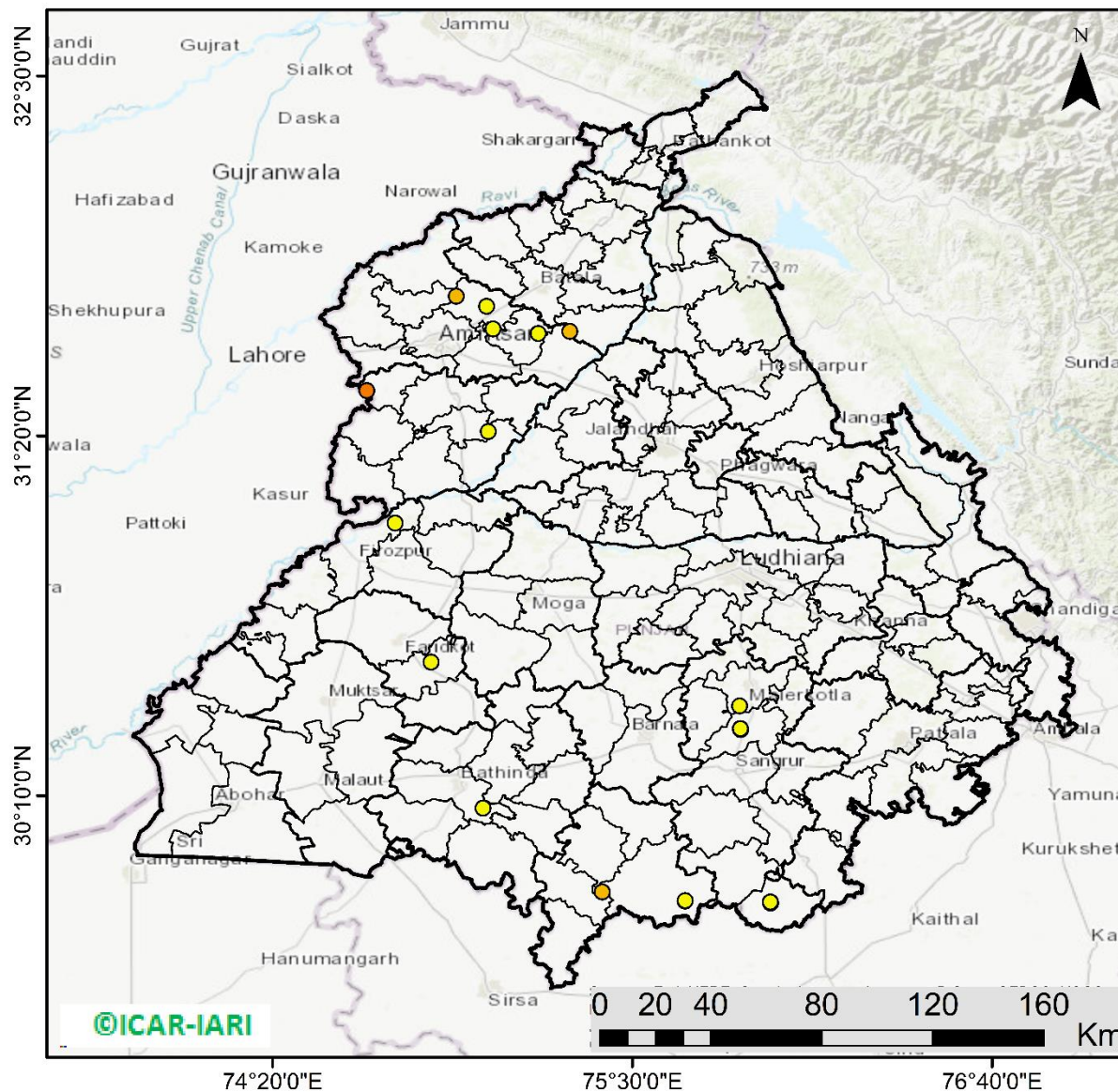






# Punjab

## RICE RESIDUE BURNING IN PUNJAB



**18** burning events detected in Punjab during (07th Oct 2024)

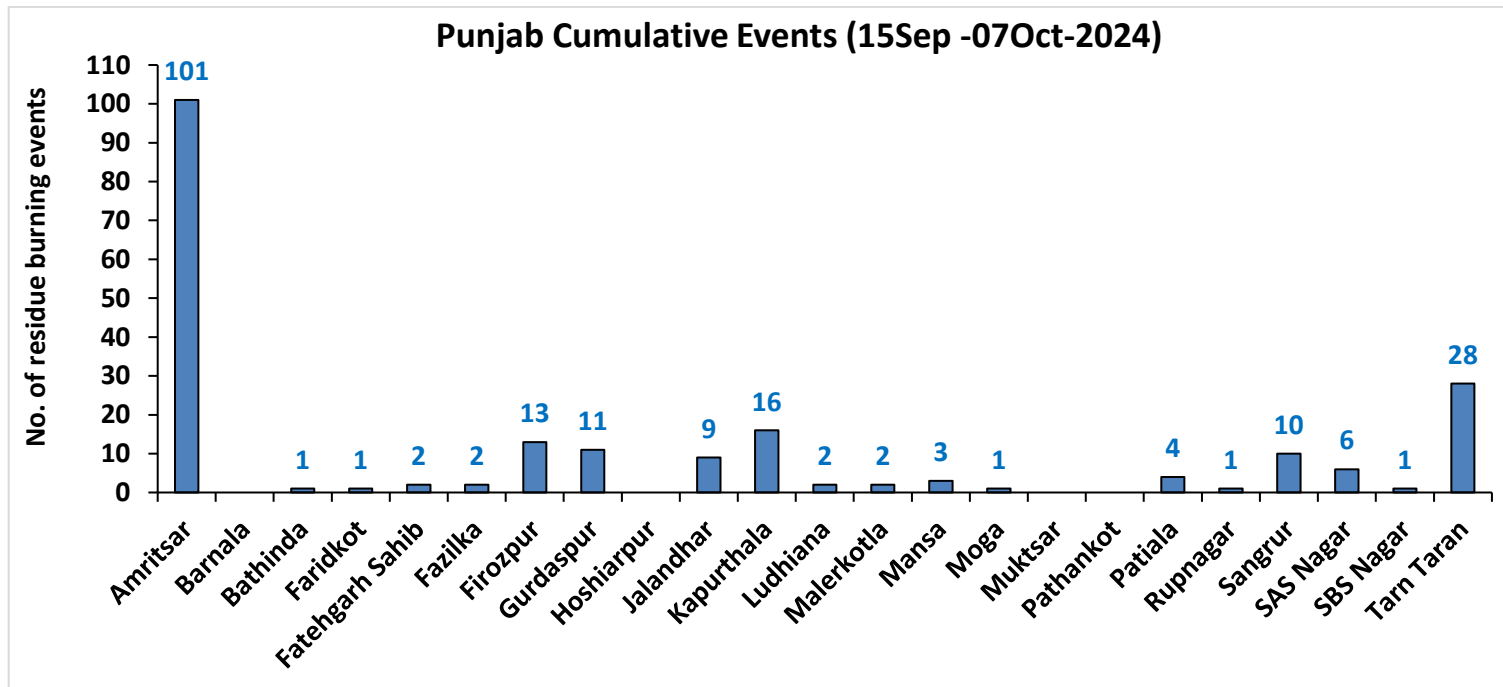
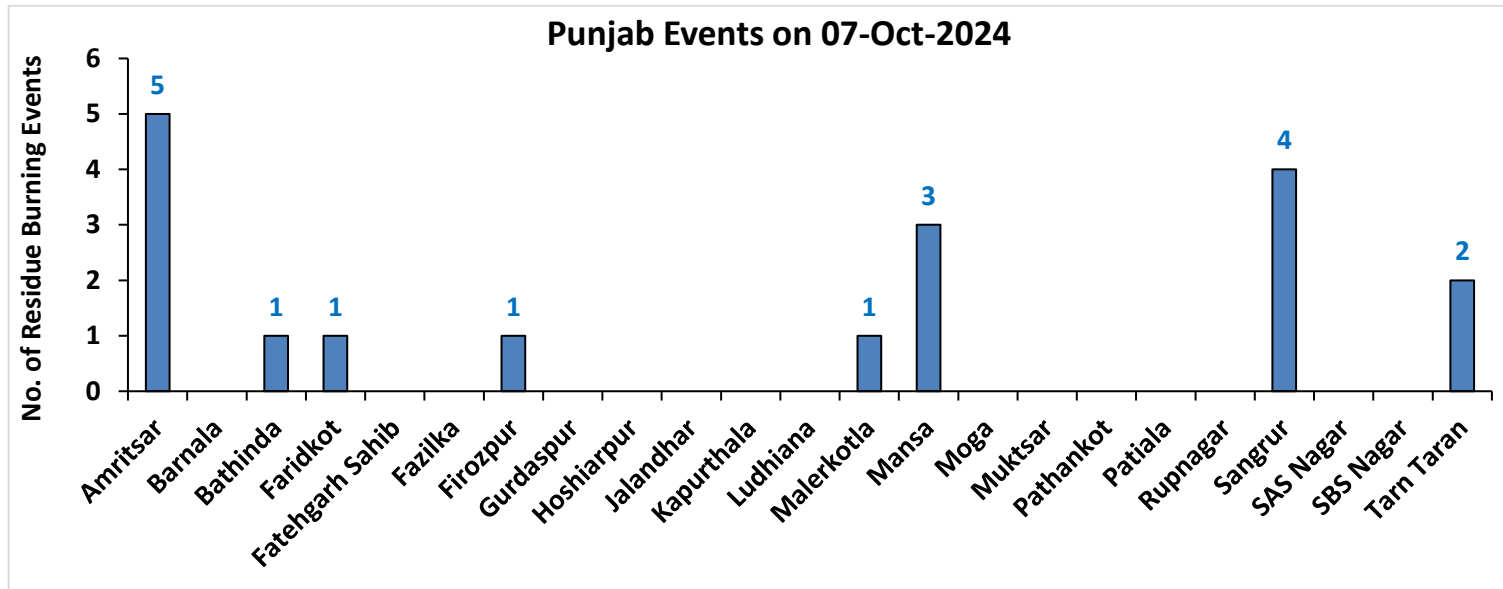
### Fire Intensity (W/m<sup>2</sup>)

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



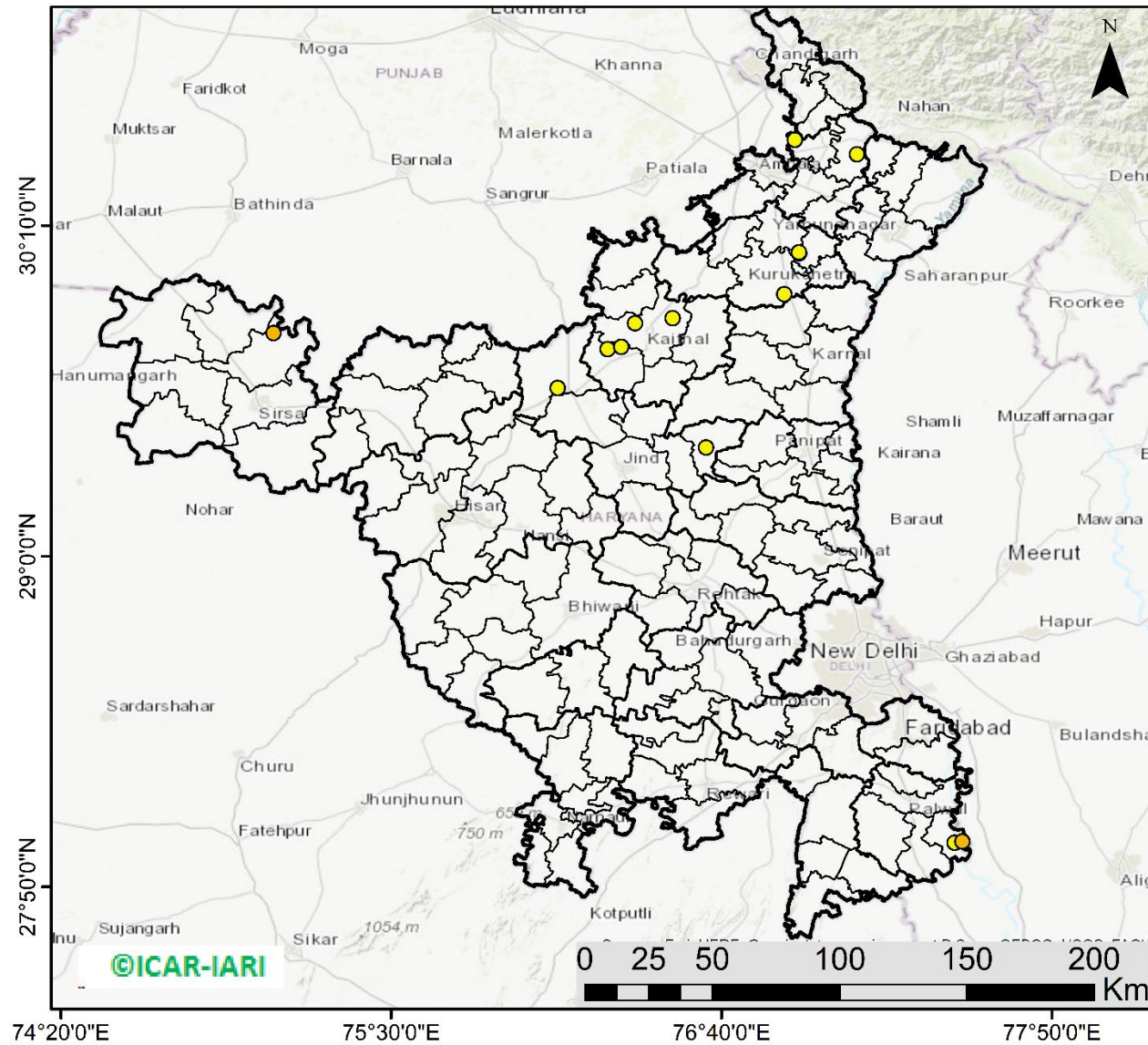
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Punjab (15Sep-07Oct-2024)



# Haryana

## RICE RESIDUE BURNING IN HARYANA



**14** burning events detected in Haryana on (07th Oct 2024)

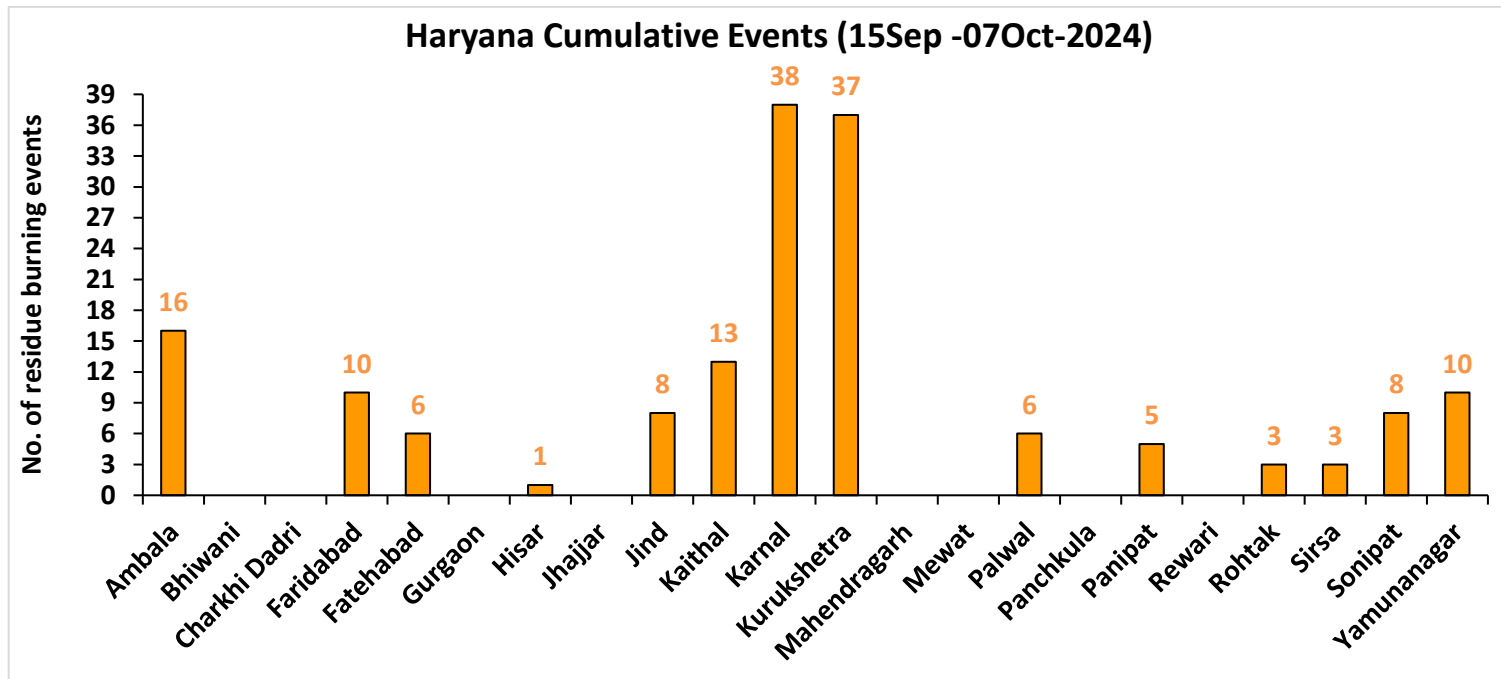
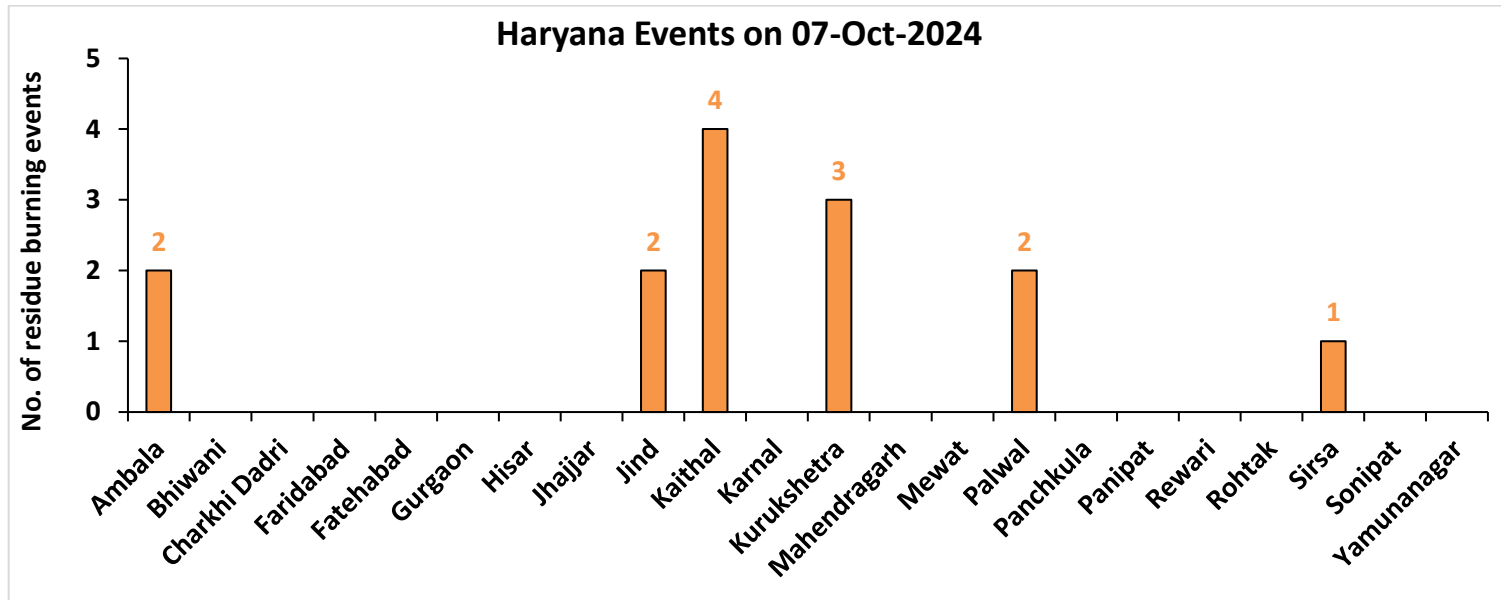
### Fire Intensity (W/m<sup>2</sup>)

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



<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

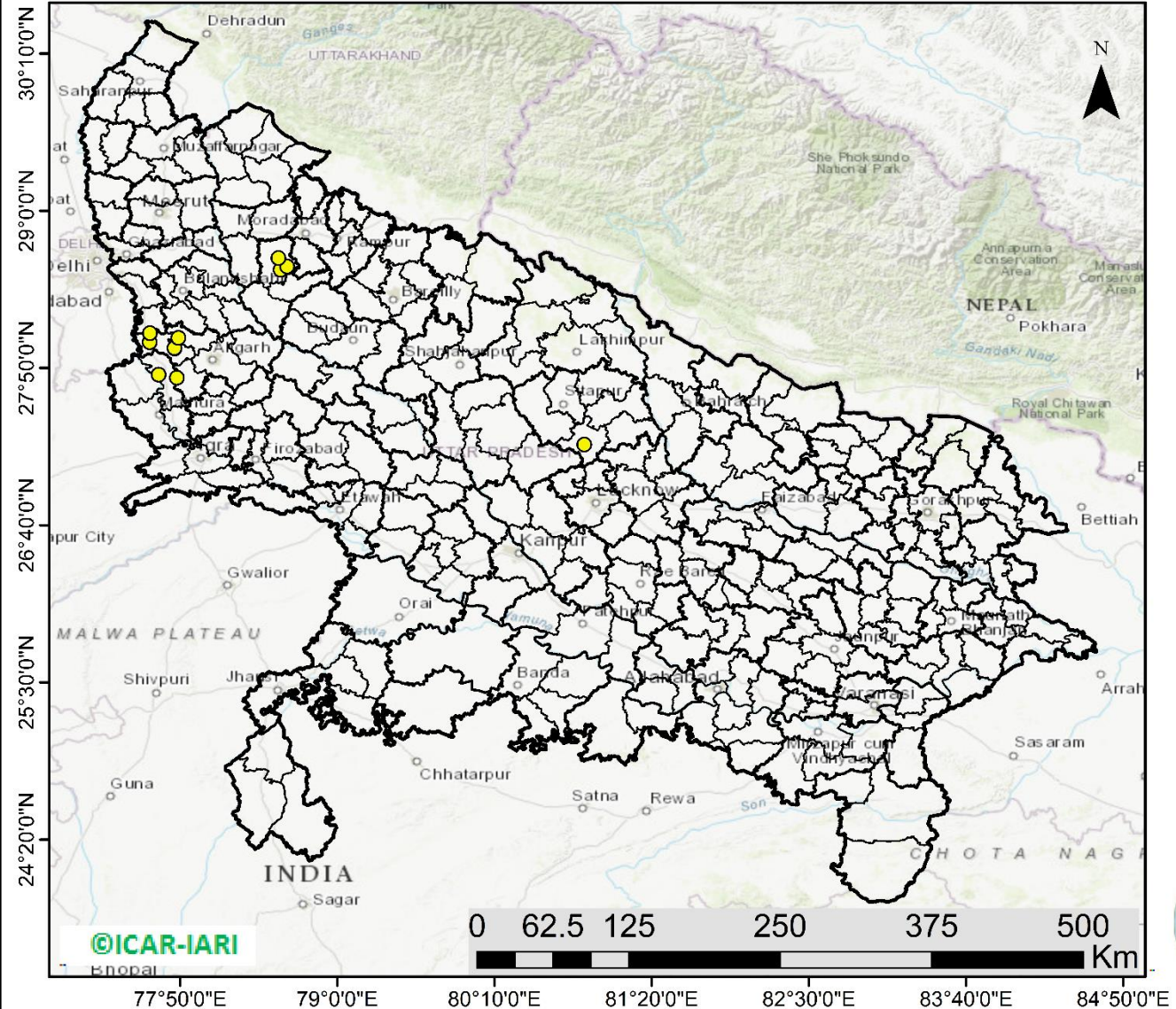
## District-wise cumulative number of residues burning events in Haryana (15Sep-07Oct-2024)





Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



11 burning events detected in Uttar Pradesh on (07th Oct 2024)

Fire Intensity (W/m2)

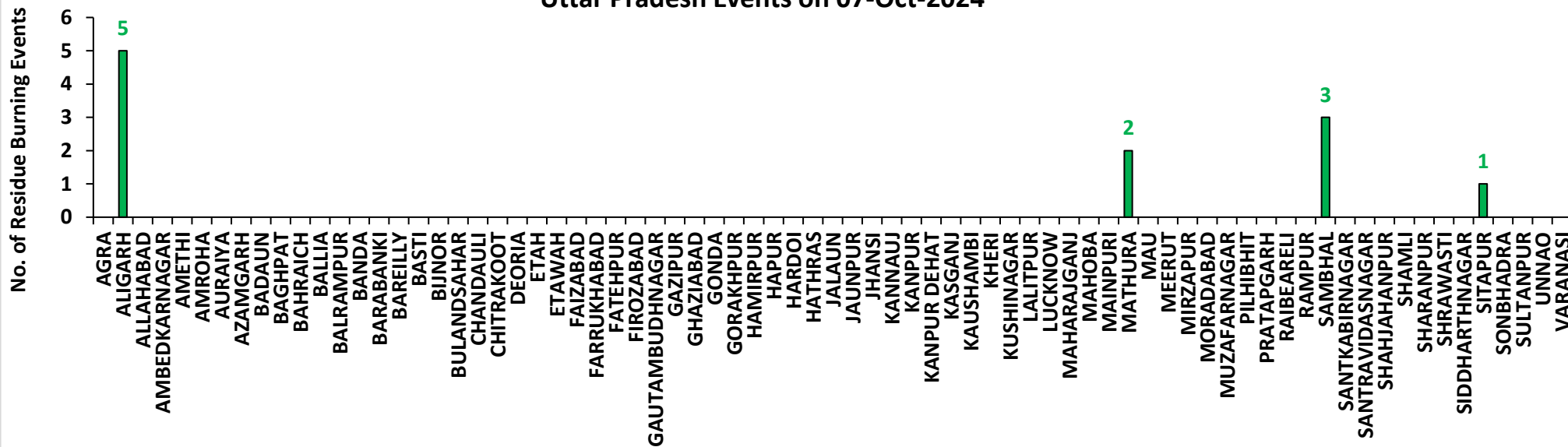
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



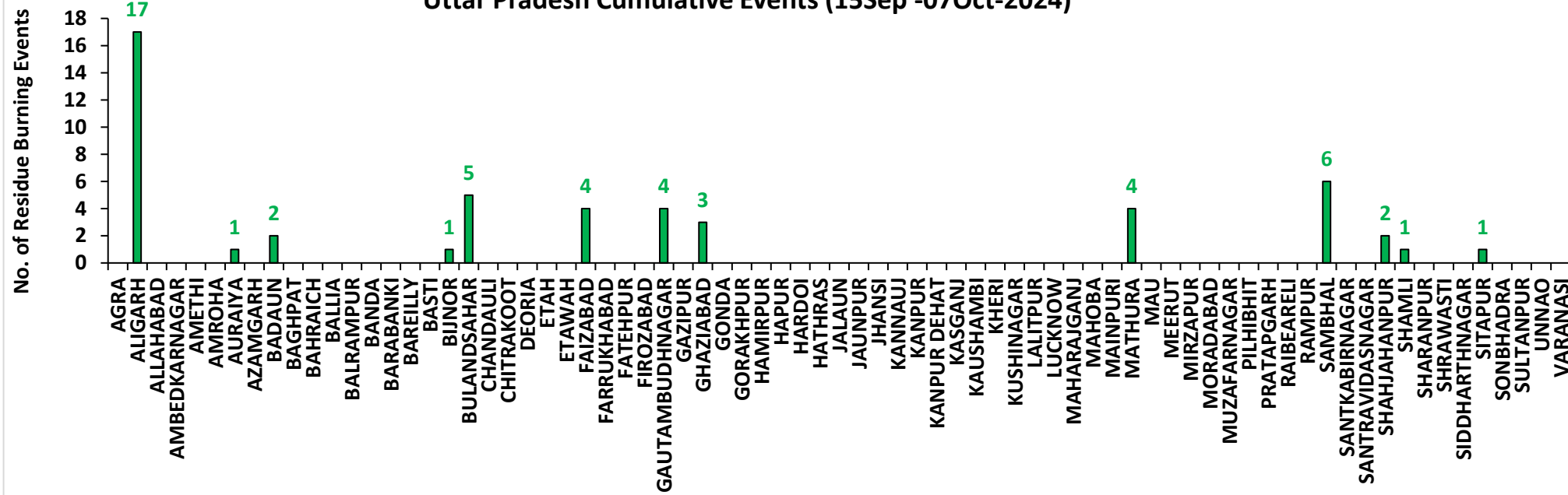
<http://geoportal.icar.gov.in:8080/geoplorer/composer/>

## District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-07Oct-2024)

### Uttar Pradesh Events on 07-Oct-2024



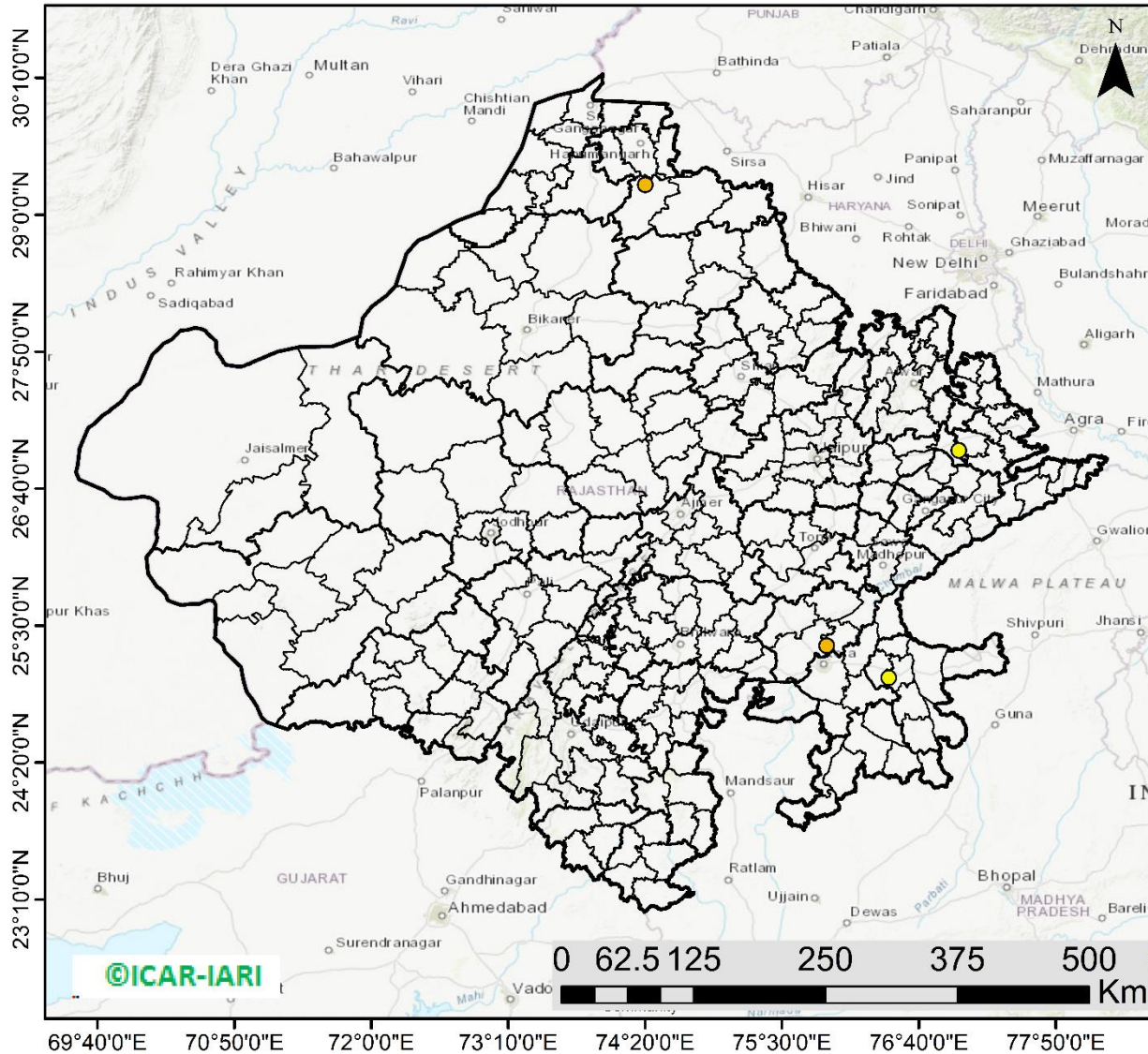
### Uttar Pradesh Cumulative Events (15Sep -07Oct-2024)





# Rajasthan

## RICE RESIDUE BURNING IN RAJASTHAN



**04** burning events detected in Rajasthan on (07th Oct 2024)

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

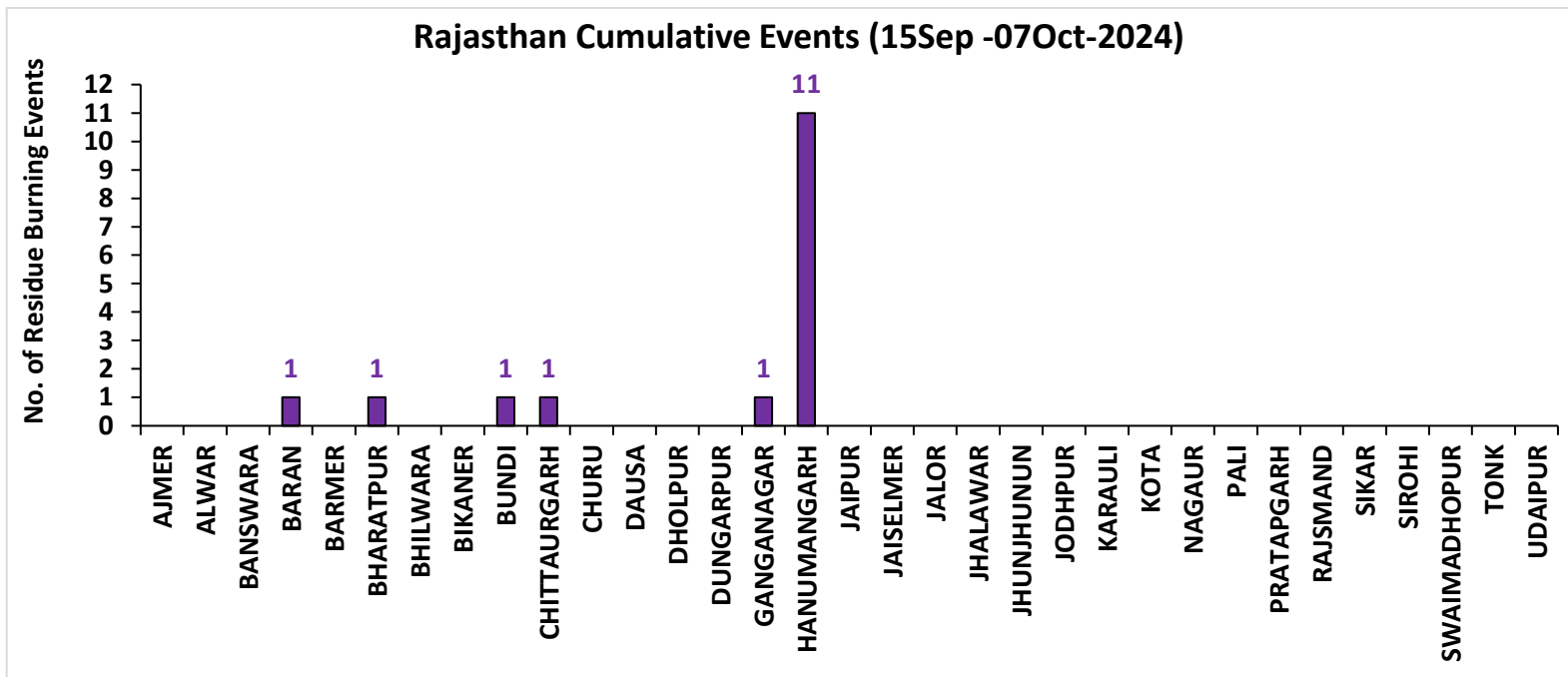
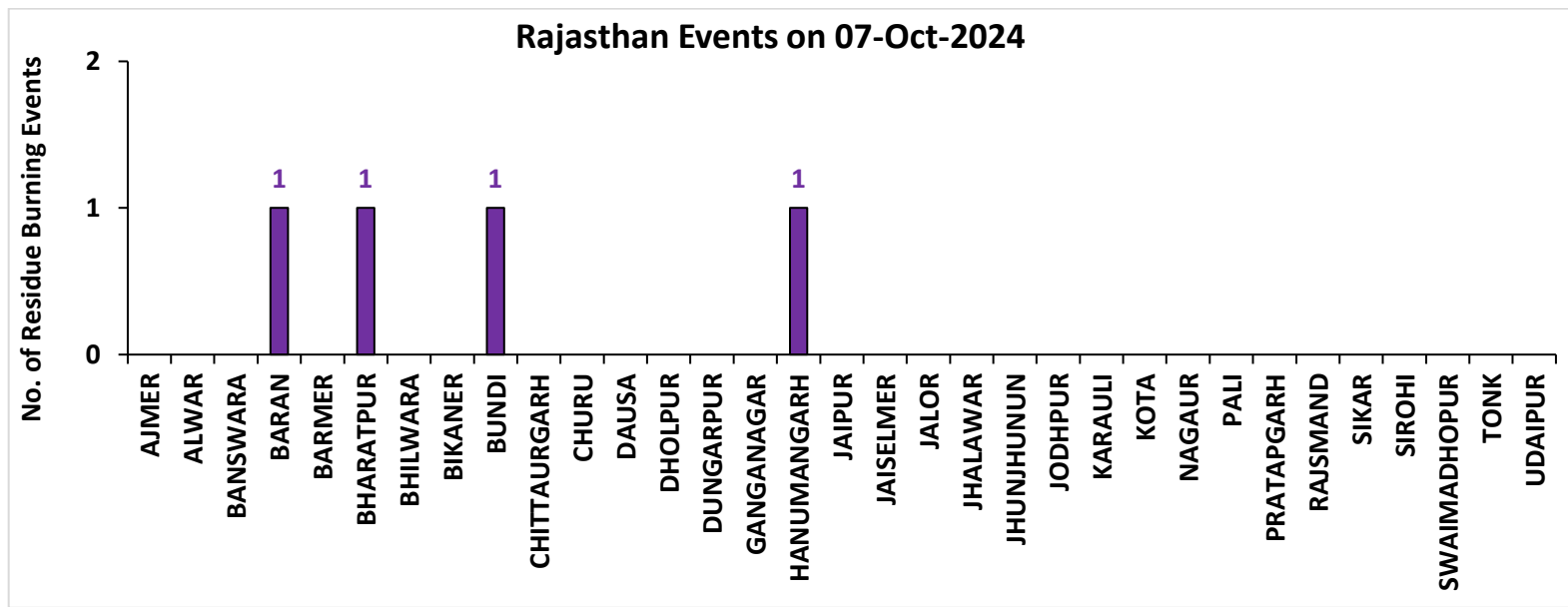
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

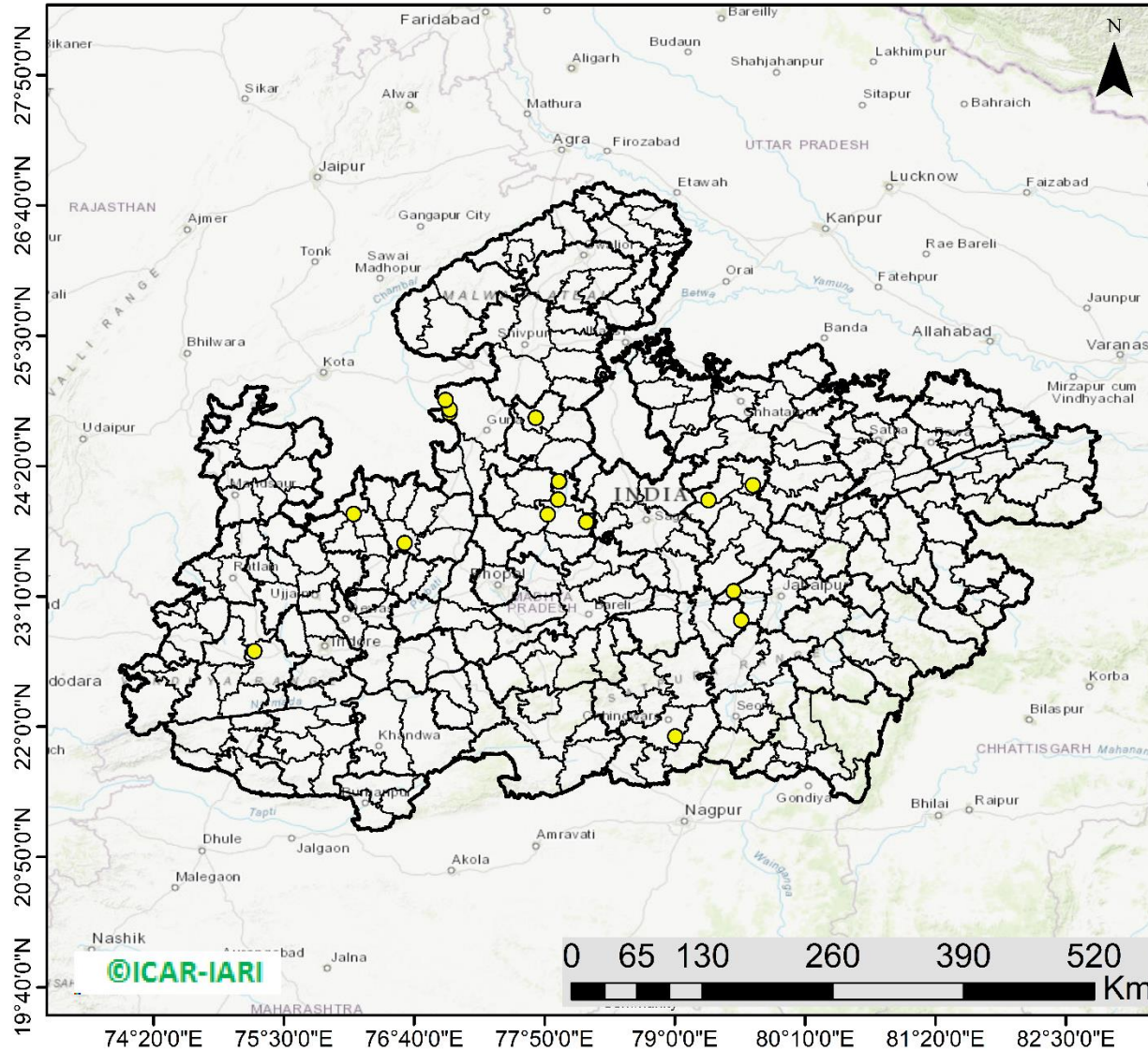


## District-wise cumulative number of residues burning events in Rajasthan (15Sep-07Oct-2024)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



**17** burning events detected in MP on (07th Oct 2024)

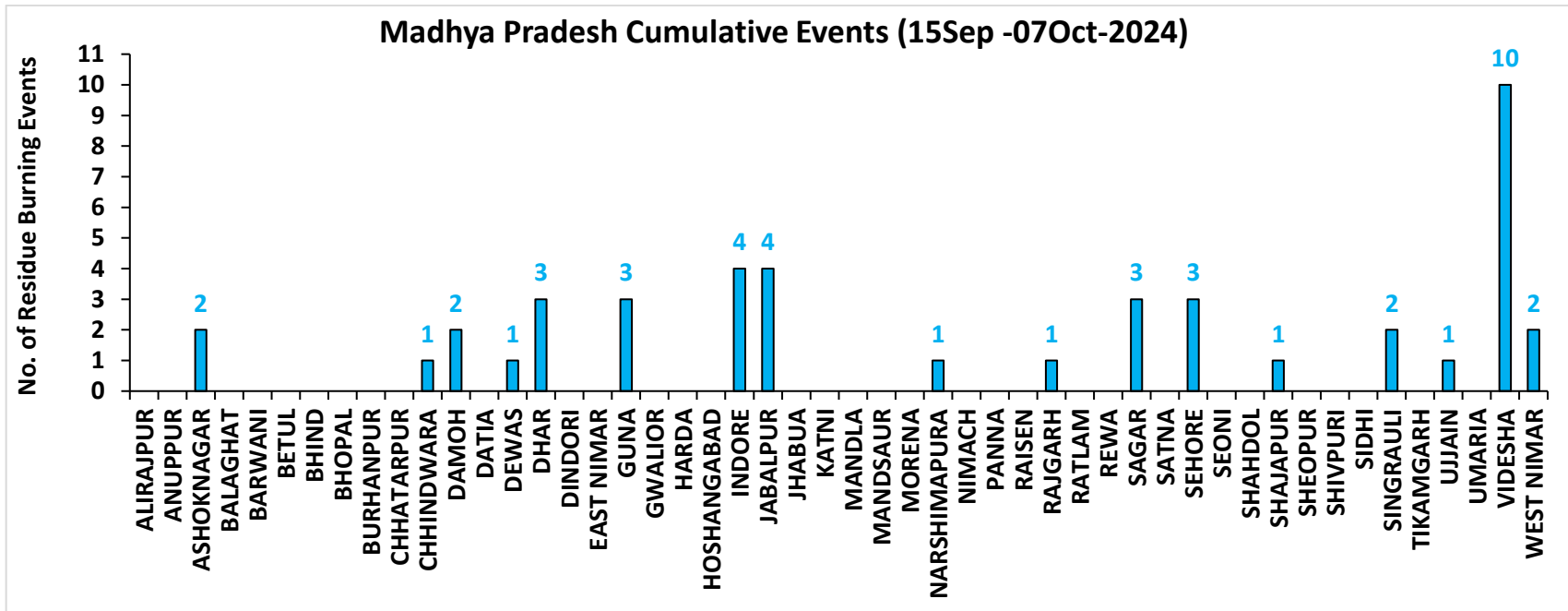
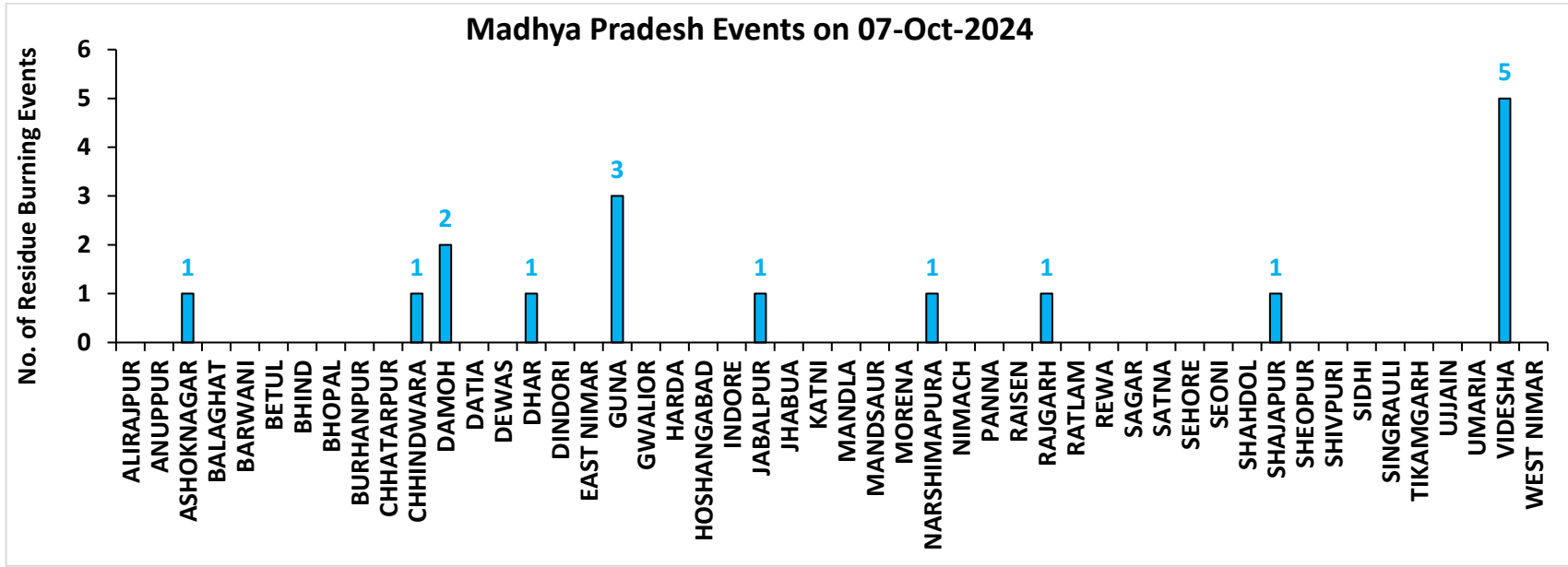
### Fire Intensity (W/m<sup>2</sup>)

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



<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

**District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-07Oct-2024)**



**District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024**  
**(Period: 15 September-07 October)**

**(a) Punjab**

District	15 Sep-07 Oct				
	2020	2021	2022	2023	2024
Amritsar	1211	218	444	537	101
Barnala	5	0	3	6	0
Bathinda	0	0	0	0	1
Faridkot	12	13	3	5	1
Fatehgarh Sahib	26	5	4	7	2
Fazilka	1	1	0	1	2
Firozpur	50	9	16	17	13
Gurdaspur	96	5	8	10	11
Hoshiarpur	4	0	0	2	0
Jalandhar	21	9	13	13	9
Kapurthala	32	6	20	50	16
Ludhiana	56	28	9	7	2
Malerkotla	0	0	0	2	2
Mansa	4	0	1	4	3
Moga	14	2	2	2	1
Muktsar	1	1	1	0	0
Pathankot	0	0	0	0	0
Patiala	99	18	26	49	4
Rupnagar	5	1	0	1	1
Sangrur	44	4	12	18	10
SAS NAGAR (Mohali)	10	3	4	24	6
SBS Nagar	4	1	2	2	1
Tarn Taran	437	68	124	120	28
<b>Total</b>	<b>2132</b>	<b>392</b>	<b>692</b>	<b>877</b>	<b>214</b>

**(b) Haryana**

District	15 Sep-07 Oct				
	2020	2021	2022	2023	2024
AMBALA	32	2	9	48	16
BHIWANI	0	0	0	0	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	0	0	0	10
FATEHABAD	18	1	3	15	6
GURGAON	0	0	0	0	0
HISAR	3	0	0	6	1
JHAJJAR	1	0	0	2	0
JIND	3	0	8	16	8
KAITHAL	34	5	9	12	13
KARNAL	62	11	20	16	38
KURUKSHETRA	53	13	27	42	37
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	2	1	0	6	6
PANCHKULA	0	0	0	0	0
PANIPAT	6	0	1	9	5
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	3
SIRSA	2	0	0	0	3
SONIPAT	6	1	2	24	8
YAMUNANAGAR	17	1	1	25	10
<b>Total</b>	<b>239</b>	<b>35</b>	<b>80</b>	<b>222</b>	<b>164</b>

**(c) Uttar Pradesh**

District	15 Sep-07 Oct																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	0	0	3	4	MUZAFARNAGAR	2	0	0	0	0
AGRA	0	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	3	1	2	7	0
ALIGARH	13	0	1	36	17	GHAZIABAD	1	0	1	4	3	PRATAPGARH	0	0	0	0	0
ALLAHABAD	0	0	0	0	0	GONDA	0	0	0	0	0	RAIBEARELI	1	0	0	0	0
AMBEDKARNAGAR	0	0	0	0	0	GORAKHPUR	0	0	0	0	0	RAMPUR	5	6	0	1	0
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	6	0	4	5	6
AMROHA	1	0	0	2	0	HAPUR	2	0	0	0	0	SANTKABIRNAGAR	0	0	0	0	0
AURAIYA	11	0	4	3	1	HARDOI	0	0	0	1	0	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	0	SHAHJAHANPUR	8	48	53	18	2
BADAUN	0	0	0	0	2	JALAUN	0	0	0	0	0	SHAMLI	15	2	2	2	1
BAGHPAT	1	0	0	0	0	JAUNPUR	0	0	0	0	0	SHARANPUR	10	0	0	0	0
BAHRAICH	1	0	0	0	0	JHANSI	4	0	0	0	0	SHRAWASTI	0	0	0	0	0
BALLIA	0	0	0	0	0	KANNAUJ	2	0	0	0	0	SIDDHARTHNAGAR	0	0	0	0	0
BALRAMPUR	0	0	0	0	0	KANPUR	0	1	0	0	0	SITAPUR	3	1	0	0	1
BANDA	0	0	0	0	0	KANPUR DEHAT	1	0	0	0	0	SONBHADRA	0	0	0	0	0
BARABANKI	4	0	0	2	0	KASGANJ	1	0	0	0	0	SULTANPUR	0	0	0	0	0
BAREILLY	5	0	0	2	0	KAUSHAMBI	5	0	0	1	0	UNNAO	2	0	0	1	0
BASTI	0	0	0	0	0	KHERI	9	3	8	1	0	VARANASI	0	0	0	0	0
BIJNOR	3	0	1	0	1	KUSHINAGAR	0	0	0	0	0	<b>Total</b>	<b>142</b>	<b>65</b>	<b>80</b>	<b>111</b>	<b>51</b>
BULANDSAHAR	1	0	2	2	5	LALITPUR	0	1	2	0	0						
CHANDAULI	0	0	0	0	0	LUCKNOW	1	0	0	0	0						
CHITRAKOOT	0	0	0	0	0	MAHARAJGANJ	0	0	0	0	0						
DEORIA	0	0	0	2	0	MAHOBA	0	0	0	0	0						
ETAH	3	0	0	0	0	MAINPURI	0	1	0	1	0						
ETAWAH	0	0	0	0	0	MATHURA	3	1	0	11	4						
FAIZABAD	0	0	0	0	4	MAU	0	0	0	0	0						
FARRUKHABAD	0	0	0	0	0	MEERUT	8	0	0	2	0						
FATEHPUR	4	0	0	0	0	MIRZAPUR	0	0	0	0	0						
FIROZABAD	1	0	0	0	0	MORADABAD	1	0	0	2	0						

**(d) Delhi**

District	15 Sep-07 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	2	1	0
NORTH EAST	0	0	0	0	0
NORTH WEST DELHI	0	0	0	0	0
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	0	0	0	0	0
<b>Total</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>

**(e) Rajasthan**

District	15 Sep-07 Oct				
	2020	2021	2022	2023	2024
AJMER	0	0	0	0	0
ALWAR	1	0	0	0	0
BANSWARA	0	0	0	0	0
BARAN	48	0	3	29	1
BARMER	2	0	0	0	0
BHARATPUR	0	0	0	1	1
BHILWARA	2	0	0	0	0
BIKANER	0	0	0	0	0
BUNDI	1	0	3	2	1
CHITTAURGARH	0	1	0	2	1
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	2	0	0	4	1
HANUMANGARH	12	1	2	13	11
JAIPUR	0	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	0	0	0	3	0
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	1	0	0	0	0
KOTA	13	0	1	17	0
NAGPUR	0	0	0	0	0
PALI	1	0	0	0	0
PRATAPGARH	0	0	0	0	0
RAJSMAND	0	0	0	0	0
SIKAR	0	0	0	0	0
SIROHI	0	0	0	0	0
SWAIMADHOPUR	0	0	0	1	0
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
<b>Total</b>	<b>88</b>	<b>2</b>	<b>9</b>	<b>72</b>	<b>16</b>

(f) Madhya Pradesh

District	15 Sep-07 Oct										
	2020	2021	2022	2023	2024	PANNA	0	0	0	0	0
ALIRAJPUR	0	0	0	0	0	RAISEN	2	0	0	0	0
ANUPPUR	0	0	0	0	0	RAJGARH	1	0	2	2	1
ASHOKNAGAR	6	0	0	4	2	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	1	0	0	0	0
BARWANI	0	0	0	0	0	SAGAR	7	2	1	3	3
BETUL	0	0	0	0	0	SATNA	3	0	0	0	0
BHIND	0	0	0	2	0	SEHORE	4	0	1	4	3
BHOPAL	2	0	0	3	0	SEONI	1	0	0	0	0
BURHANPUR	0	0	0	0	0	SHAHDOL	0	0	0	0	0
CHHATARPUR	2	0	0	1	0	SHAJAPUR	4	0	0	2	1
CHHINDWARA	0	0	0	0	1	SHEOPUR	2	0	0	1	0
DAMOH	6	0	0	4	2	SHIVPURI	0	0	0	0	0
DATIA	2	0	0	6	0	SIDHI	0	0	0	0	0
DEWAS	2	0	0	1	1	SINGRAULI	0	0	0	0	2
DHAR	13	0	0	7	3	TIKAMGARH	0	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	5	0	0	3	1
EAST NIMAR	0	1	0	0	0	UMARIA	0	0	0	0	0
GUNA	7	1	1	13	3	VIDESHA	23	1	1	9	10
GWALIOR	13	0	1	2	0	WEST NIMAR	1	0	0	0	2
HARDA	8	6	0	3	0	<b>Total</b>	<b>128</b>	<b>11</b>	<b>7</b>	<b>81</b>	<b>44</b>
HOSHANGABAD	3	0	0	1	0						
INDORE	1	0	0	4	4						
JABALPUR	4	0	0	0	4						
JHABUA	0	0	0	0	0						
KATNI	0	0	0	0	0						
MANDLA	0	0	0	0	0						
MANDSAUR	0	0	0	0	0						
MORENA	5	0	0	5	0						
NARSHIMAPURA	0	0	0	0	1						
NIMACH	0	0	0	0	0						

**State-wise and date-wise number of paddy residue burning events detected in 2020 ,2021 ,2022, 2023 and 2024**  
**(Period: 15 September-07 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
<b>Total</b>	<b>2132</b>	<b>392</b>	<b>692</b>	<b>877</b>	<b>214</b>	<b>239</b>	<b>35</b>	<b>80</b>	<b>222</b>	<b>164</b>	<b>142</b>	<b>65</b>	<b>80</b>	<b>111</b>	<b>51</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
<b>Total</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>88</b>	<b>2</b>	<b>9</b>	<b>72</b>	<b>16</b>	<b>128</b>	<b>11</b>	<b>7</b>	<b>81</b>	<b>44</b>

### Details of residue burning events in Punjab on 07-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	MAJITHA	S-NPP	31.67995	75.04845	13:21:54	D	1.40
2	AMRITSAR	MAJITHA	S-NPP	31.75326	75.02733	13:21:54	D	2.60
3	AMRITSAR	MAJITHA	S-NPP	31.78588	74.92901	13:21:54	D	5.10
4	AMRITSAR	RAYYA	S-NPP	31.67169	75.29750	13:21:54	D	5.80
5	AMRITSAR	TARSIKKA	S-NPP	31.66516	75.19492	13:21:54	D	1.80
6	BATHINDA	BATHINDA	S-NPP	30.12628	75.01600	13:21:54	D	2.00
7	FARIDKOT	KOT KAPURA	S-NPP	30.59949	74.84744	13:21:54	D	3.00
8	FIROZPUR	FIROZPUR	S-NPP	31.05043	74.73079	13:21:54	D	3.50
9	MALERKOTLA	MALERKOTLA	S-NPP	30.45749	75.84785	13:21:54	D	3.60
10	MANSA	BUDHLADA	S-NPP	29.82521	75.67108	13:21:54	D	7.30
11	MANSA	BUDHLADA	S-NPP	29.82623	75.67152	13:21:54	D	3.70
12	MANSA	BUDHLADA	S-NPP	29.85470	75.40260	13:21:54	D	7.60
13	SANGRUR	ANDANA	S-NPP	29.81861	75.94849	13:21:54	D	3.70
14	SANGRUR	ANDANA	S-NPP	29.82195	75.94777	13:21:54	D	3.70
15	SANGRUR	DHURI	S-NPP	30.38080	75.85139	13:21:54	D	4.30
16	SANGRUR	DHURI	S-NPP	30.38414	75.85067	13:21:54	D	4.30
17	TARN TARAN	CHOHLA SAHIB	S-NPP	31.34707	75.03272	13:21:54	D	1.60
18	TARN TARAN	GANDIWIND TATLA	AQUA	31.48000	74.63900	14:30:57	D	12.00

**Details of residue burning events in Haryana on 07-Oct-2024**

<b>S. No.</b>	<b>District</b>	<b>Tehsil / Block</b>	<b>Satellite</b>	<b>Latitude</b>	<b>Longitude</b>	<b>ACQ_TIME</b>	<b>Day / Night</b>	<b>Fire Power (W/m2)</b>
1	AMBALA	NARAINGARH	S-NPP	30.41817	77.14545	13:21:54	D	2.50
2	AMBALA	SHAHZADPUR	S-NPP	30.46921	76.92600	13:21:54	D	3.20
3	JIND	NARWANA	S-NPP	29.59303	76.08826	13:21:54	D	2.90
4	JIND	SAFIDON	S-NPP	29.38297	76.61214	13:21:54	D	4.20
5	KAITHAL	KAITHAL	S-NPP	29.82169	76.36151	13:21:54	D	1.70
6	KAITHAL	KAITHAL	S-NPP	29.83941	76.49445	13:21:54	D	2.90
7	KAITHAL	KALAYAT	S-NPP	29.73050	76.26438	13:21:54	D	2.00
8	KAITHAL	KALAYAT	S-NPP	29.73829	76.31265	13:21:54	D	3.60
9	KURUKSHETRA	BABAIN	S-NPP	30.06847	76.94100	13:21:54	D	3.50
10	KURUKSHETRA	BABAIN	S-NPP	30.07177	76.94032	13:21:54	D	2.00
11	KURUKSHETRA	THANESAR	S-NPP	29.92433	76.88831	13:21:54	D	1.40
12	PALWAL	HASSANPUR	S-NPP	27.98851	77.49018	13:21:54	D	1.50
13	PALWAL	HASSANPUR	S-NPP	27.99274	77.51745	13:21:54	D	5.20
14	SIRSA	BARAGUNDA	S-NPP	29.78693	75.08448	13:21:54	D	5.10

### Details of residue burning events in Uttar Pradesh on 07-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	ALIGARH	GABHANA	S-NPP	28.05651	77.82156	13:21:54	D	4.00
2	ALIGARH	KHAIR	S-NPP	27.97750	77.79272	13:21:54	D	1.30
3	ALIGARH	KHAIR	S-NPP	27.98080	77.79208	13:21:54	D	3.40
4	ALIGARH	KHAIR	S-NPP	28.02370	77.60762	13:21:54	D	1.50
5	ALIGARH	KHAIR	S-NPP	28.09153	77.61035	13:21:54	D	1.90
6	MATHURA	CHHATA	S-NPP	27.78311	77.67391	13:21:54	D	3.60
7	MATHURA	MAT	S-NPP	27.76014	77.81012	13:21:54	D	2.90
8	SAMBHAL	SAMBHAL	S-NPP	28.56183	78.57979	13:21:54	D	3.60
9	SAMBHAL	SAMBHAL	S-NPP	28.58593	78.62815	13:21:54	D	2.80
10	SAMBHAL	SAMBHAL	S-NPP	28.64824	78.56361	13:21:54	D	1.40
11	SITAPUR	SIDHAULI	S-NPP	27.26482	80.83376	13:21:54	D	3.40

### Details of residue burning events in Rajasthan on 07-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	BARAN	BARAN	S-NPP	25.05502	76.41020	13:21:54	D	3.30
2	BHARATPUR	WEIR	S-NPP	26.99173	77.00743	02:11:55	N	0.60
3	BUNDI	KESHORAIPATAN	AQUA	25.32800	75.88200	14:30:57	D	6.40
4	HANUMANGARH	RAWATSAR	S-NPP	29.25436	74.33568	13:21:54	D	6.60

### Details of residue burning events in Madhya Pradesh on 07-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ASHOKNAGAR	ISAGARH	S-NPP	24.76326	77.75516	13:21:54	D	2.40
2	CHHINDWARA	CHHINDWARA	S-NPP	21.91065	79.00524	13:21:54	D	2.50
3	DAMOH	BATIAGARH	S-NPP	24.02651	79.30247	13:21:54	D	2.60
4	DAMOH	HATTA	S-NPP	24.16010	79.69858	13:21:54	D	2.00
5	DHAR	DHAR	S-NPP	22.67481	75.23646	13:21:54	D	3.20
6	GUNA	GUNA	S-NPP	24.80916	76.98260	13:21:54	D	1.40
7	GUNA	GUNA	S-NPP	24.83830	76.98546	13:21:54	D	3.60
8	GUNA	GUNA	S-NPP	24.92280	76.94831	13:21:54	D	2.10
9	JABALPUR	SAHPURA	S-NPP	23.21138	79.52690	13:21:54	D	3.50
10	NARSHIMAPURA	GOTECAON	S-NPP	22.95149	79.59541	13:21:54	D	3.00
11	RAJGARH	SARANGPUR	S-NPP	23.64294	76.58179	13:21:54	D	1.90
12	SHAJAPUR	NALKHERA	S-NPP	23.90294	76.12518	13:21:54	D	3.00
13	VIDESHA	BASODA	S-NPP	23.83141	78.20824	13:21:54	D	3.10
14	VIDESHA	KORWAI	S-NPP	24.03220	77.95531	13:21:54	D	2.90
15	VIDESHA	KORWAI	S-NPP	24.19433	77.96595	02:11:55	N	0.60
16	VIDESHA	KORWAI	S-NPP	24.19506	77.96287	02:11:55	N	0.60
17	VIDESHA	NATERAN	S-NPP	23.89880	77.86248	13:21:54	D	3.30

**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 / 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**

ICAR - HQ	Dr Rajbir Singh	ADG-NRM (AAF&CC)	<a href="mailto:adgagroandaf@gmail.com">adgagroandaf@gmail.com</a>
ICAR - IARI	<b>Dr V.K. Sehgal</b>	Principal & Nodal Scientist	<a href="mailto:iaricreams@gmail.com">iaricreams@gmail.com</a>
	Dr Rajkumar Dhakar	Senior Scientist	<a href="mailto:raidhakar.iari@gmail.com">raidhakar.iari@gmail.com</a>
	Mr Mohd Jahangir	Lab Assistant (KRISHI)	<a href="mailto:mjahangir198@gmail.com">mjahangir198@gmail.com</a>
ICAR - ATARI	Dr Parvender Sheoran	Director ATARI (Zone-I) Ludhiana	<a href="mailto:zcu1ldh@gmail.com">zcu1ldh@gmail.com</a>
	Dr. J.P. Mishra	Director ATARI (Zone-II) Jodhpur	<a href="mailto:jp.mishra67@gov.in">jp.mishra67@gov.in</a>
	Dr S.K. Dubey	Director ATARI (Zone-III) Kanpur	<a href="mailto:zpdicarkanpur@gmail.com">zpdicarkanpur@gmail.com</a>
ICAR - IASRI	Dr Rajender Parsad	Director	<a href="mailto:rajender.parsad@icar.gov.in">rajender.parsad@icar.gov.in</a>

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](#)

\*\*\*