

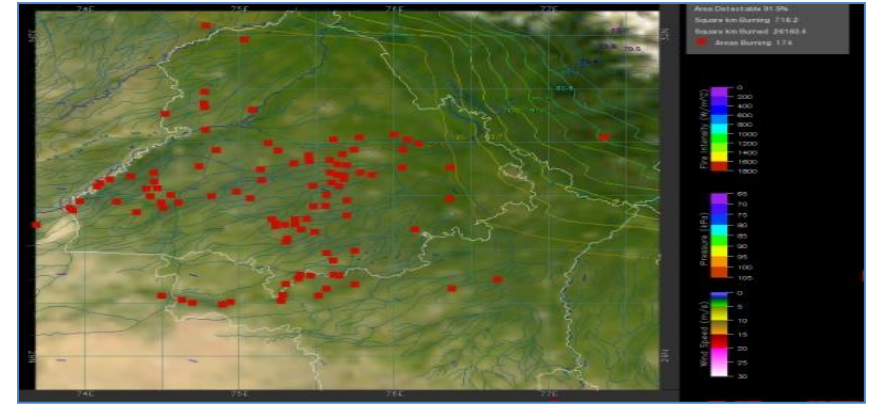
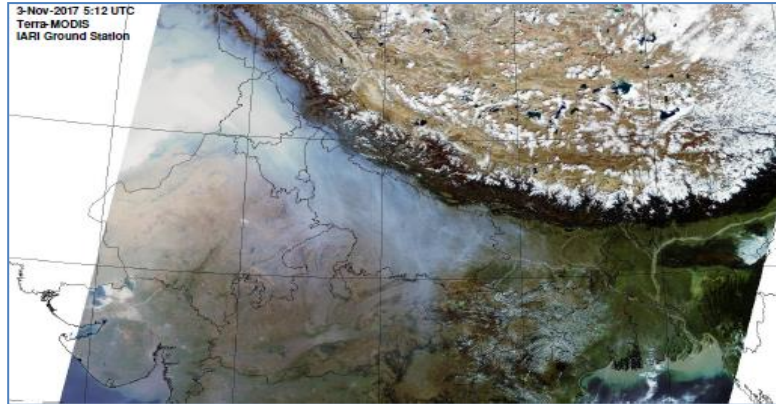


# MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin  
No. 27

Events Date:  
11-Oct-2024

Issued on:  
11-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

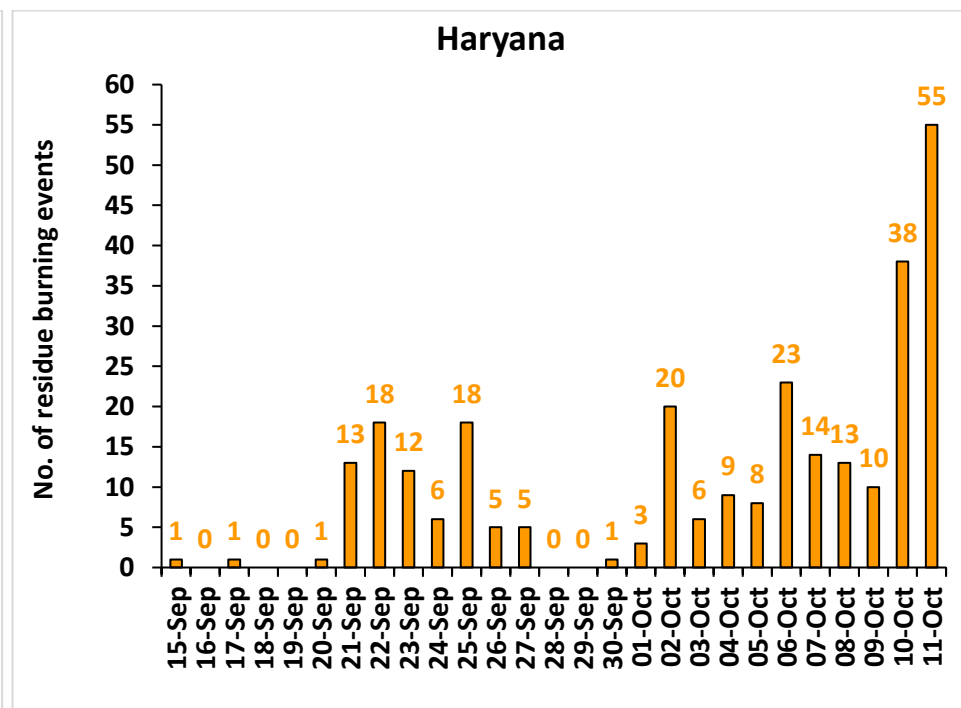
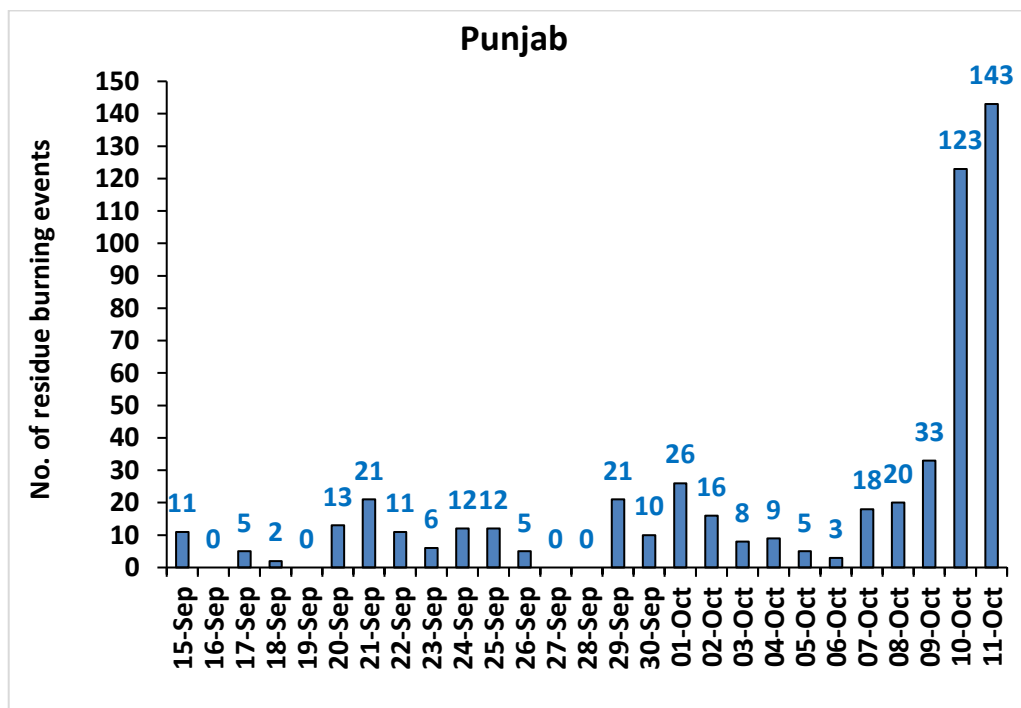
<https://creams.iari.res.in>



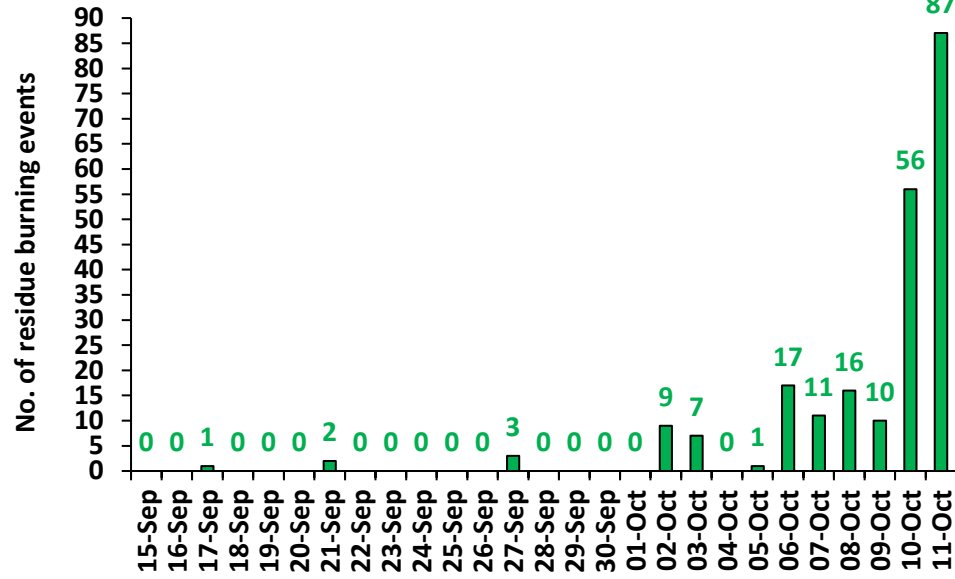
## Highlights for 11-Oct-2024

- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol " recommended by CAQM. The data from JPSS-1 and JPSS-2 satellites are included from 10-Oct-2024 onwards.
- Satellites detected **308** residue burning events in the six study States on **11-Oct-2024**.
- The state wise events detected on **11-Oct-2024** were **143** in Punjab, **55** in Haryana, **87** in UP, **00** in Delhi, **06** in Rajasthan and **17** in MP.
- Total **1134** burning events were detected in the six states between **15-Sept-2024** and **11-Oct-2024**, which are distributed as **533**, **280**, **220**, **03**, **27** and **71** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Detection of burning events was hampered by the presence of scattered clouds over parts of Uttar Pradesh, Rajasthan and Madhya Pradesh states.

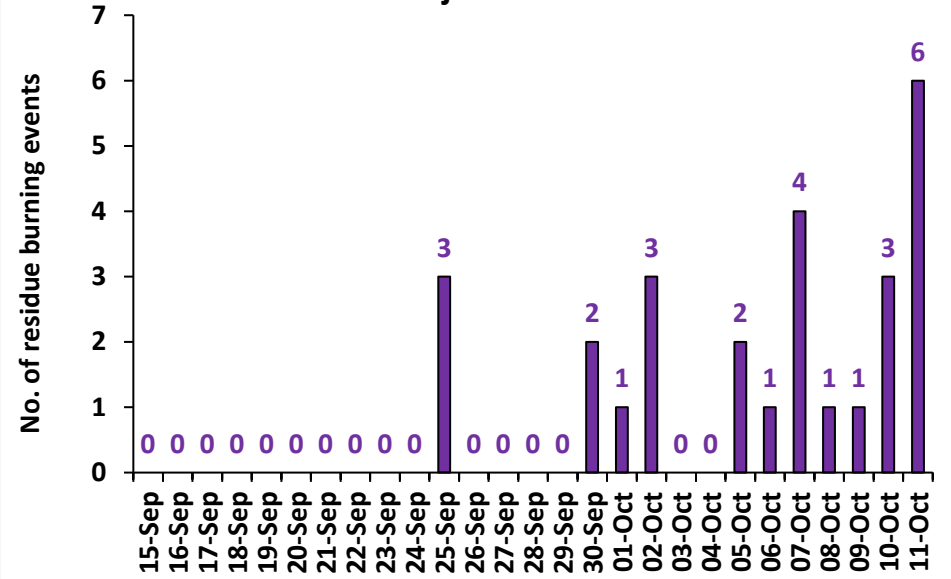
### Temporal distribution of rice residue burning events for the study States in 2024



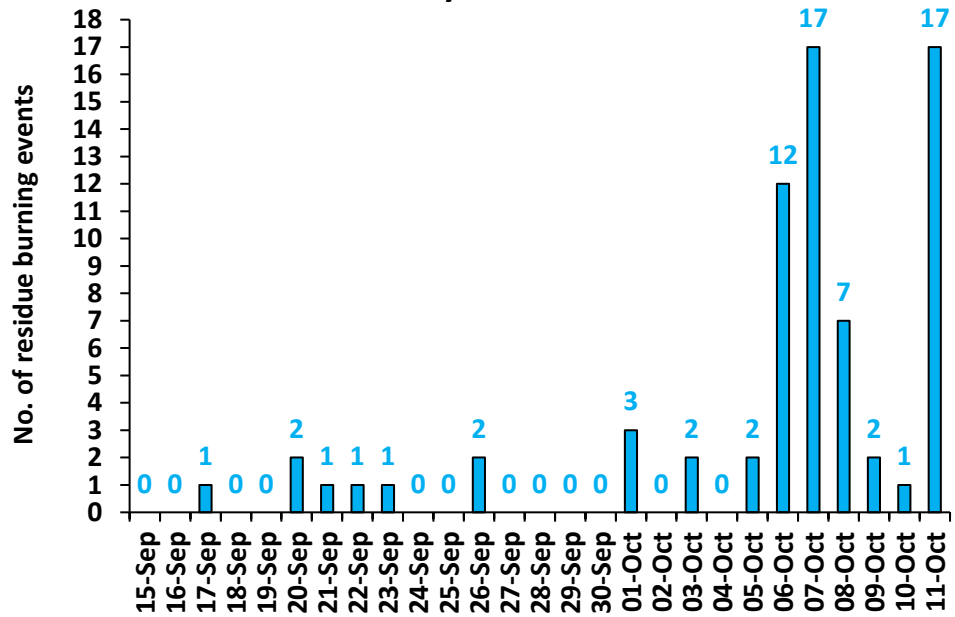
### Uttar Pradesh



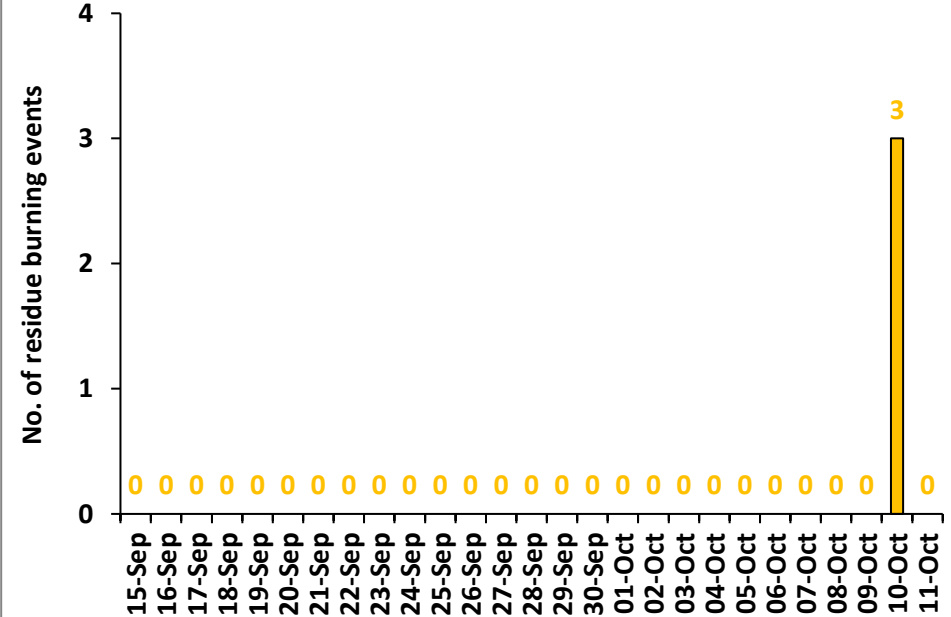
### Rajasthan



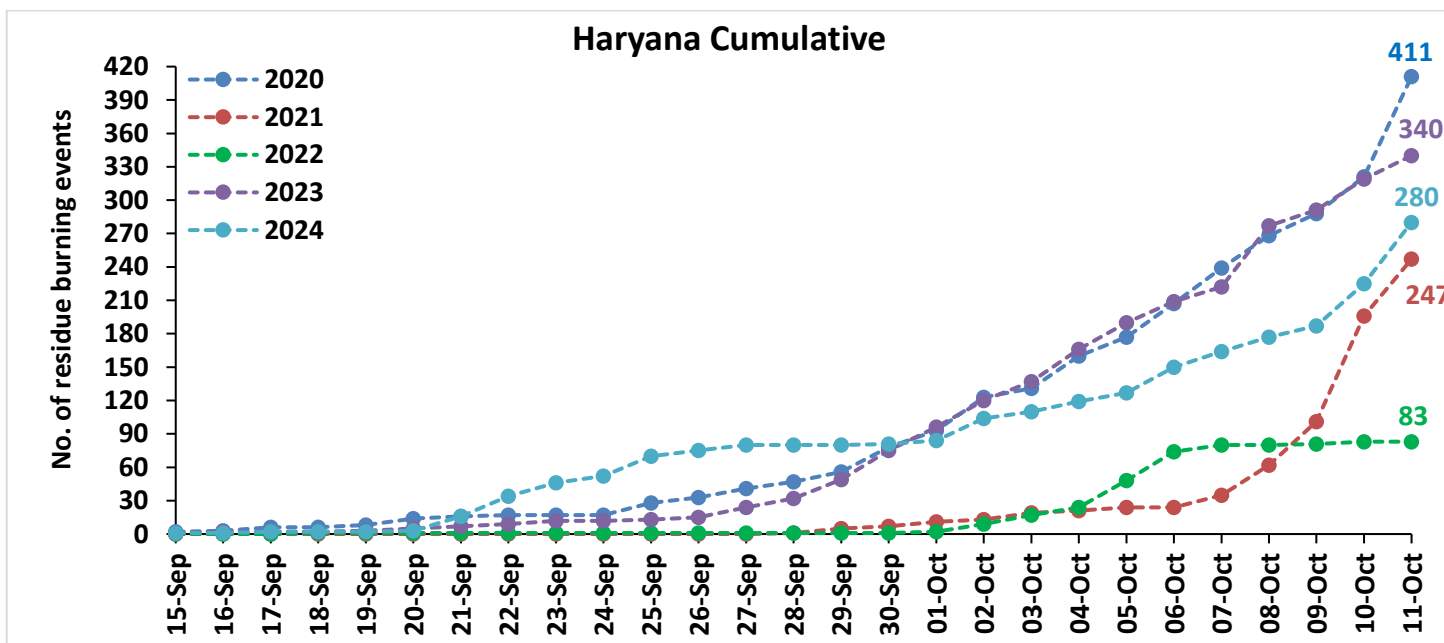
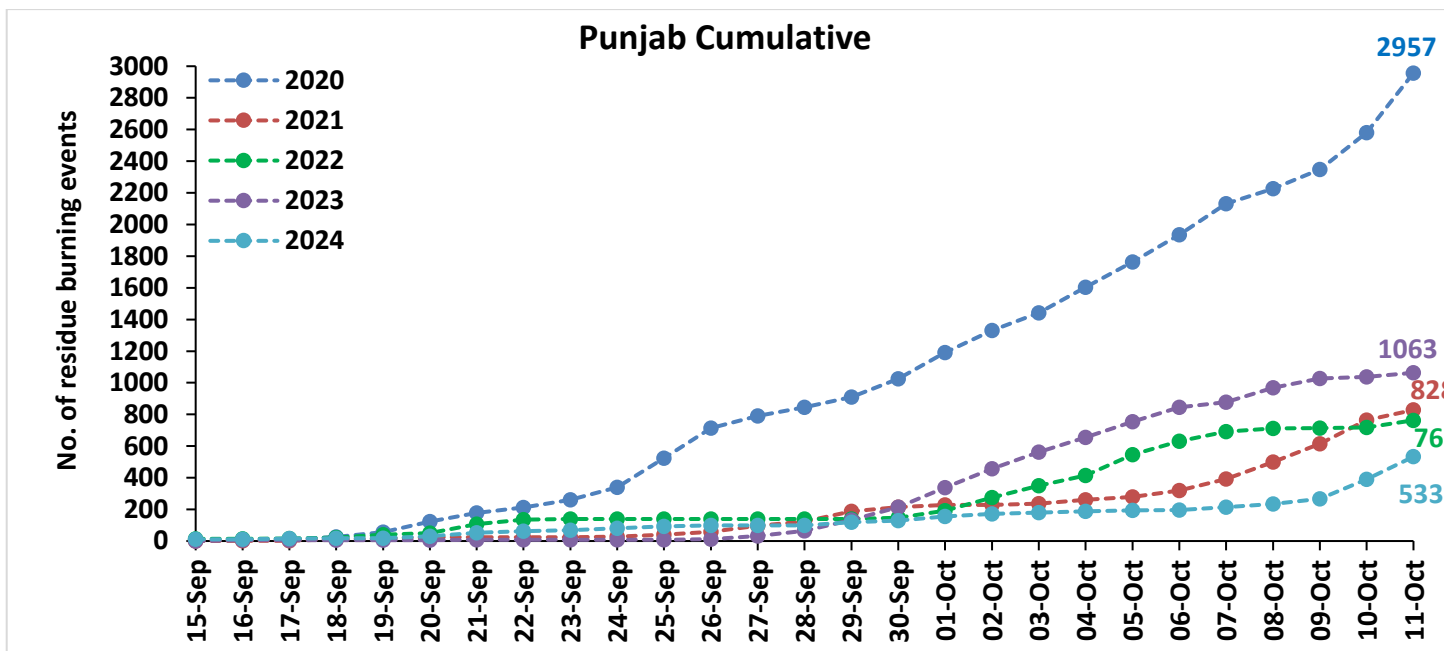
### Madhya Pradesh

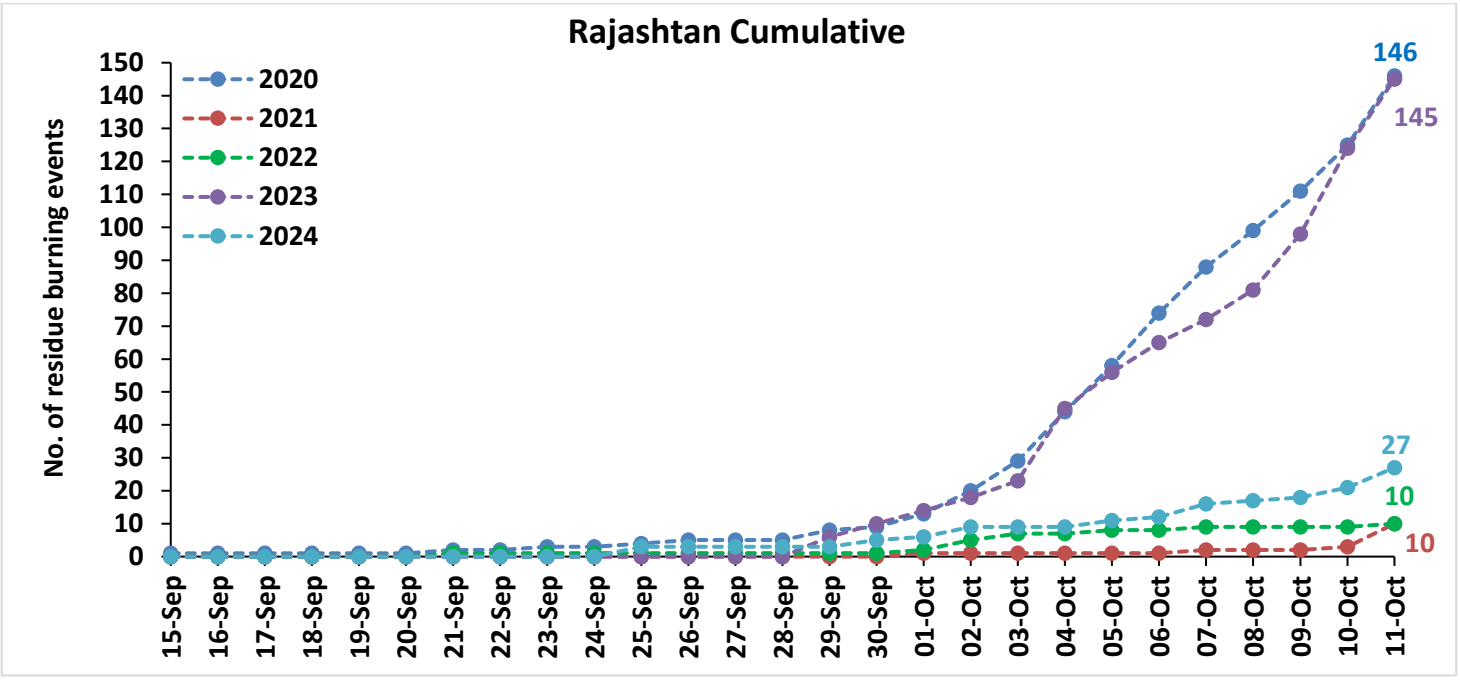
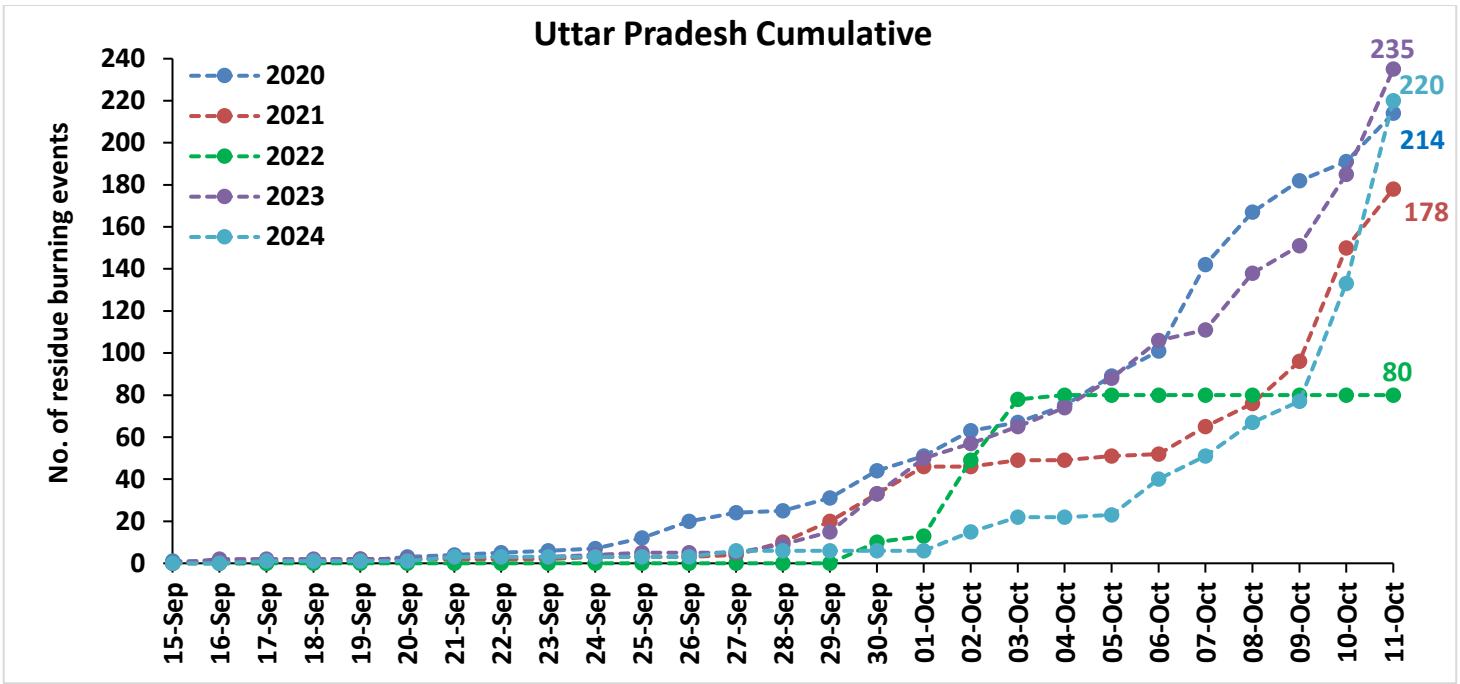


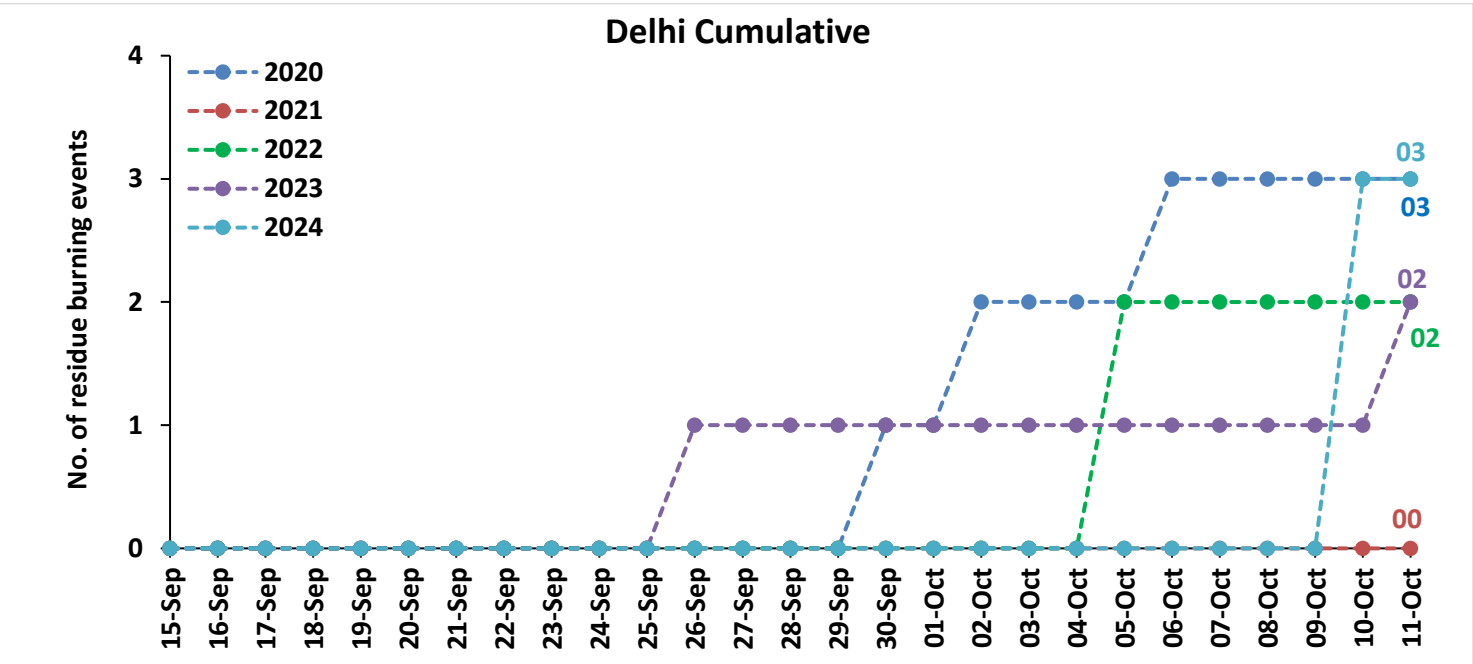
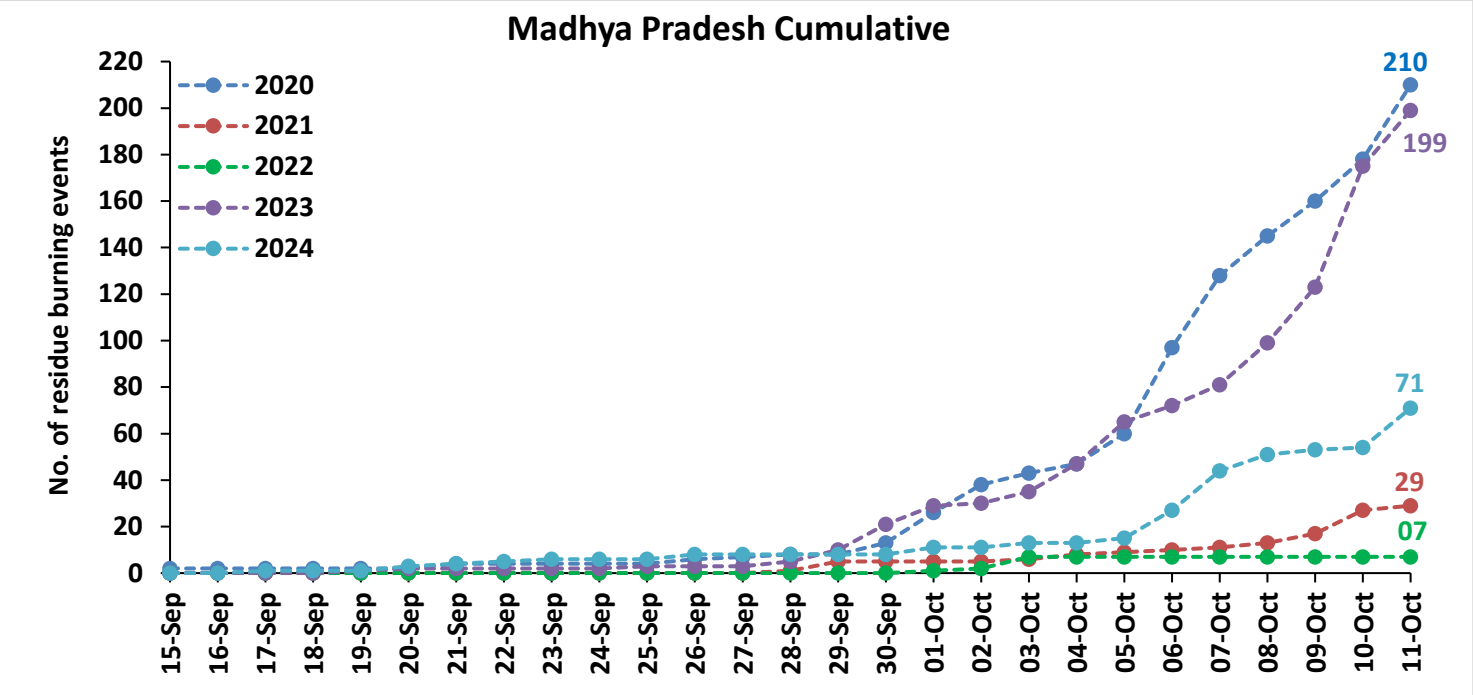
### Delhi



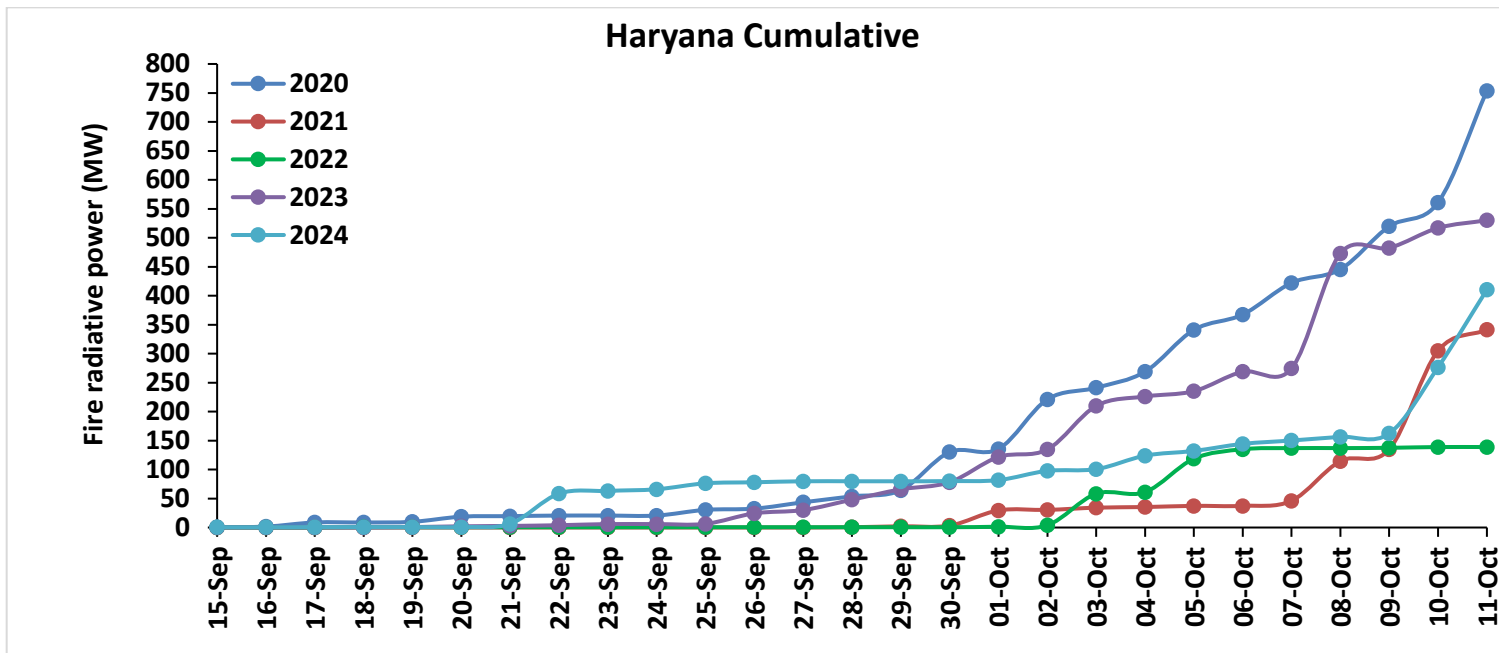
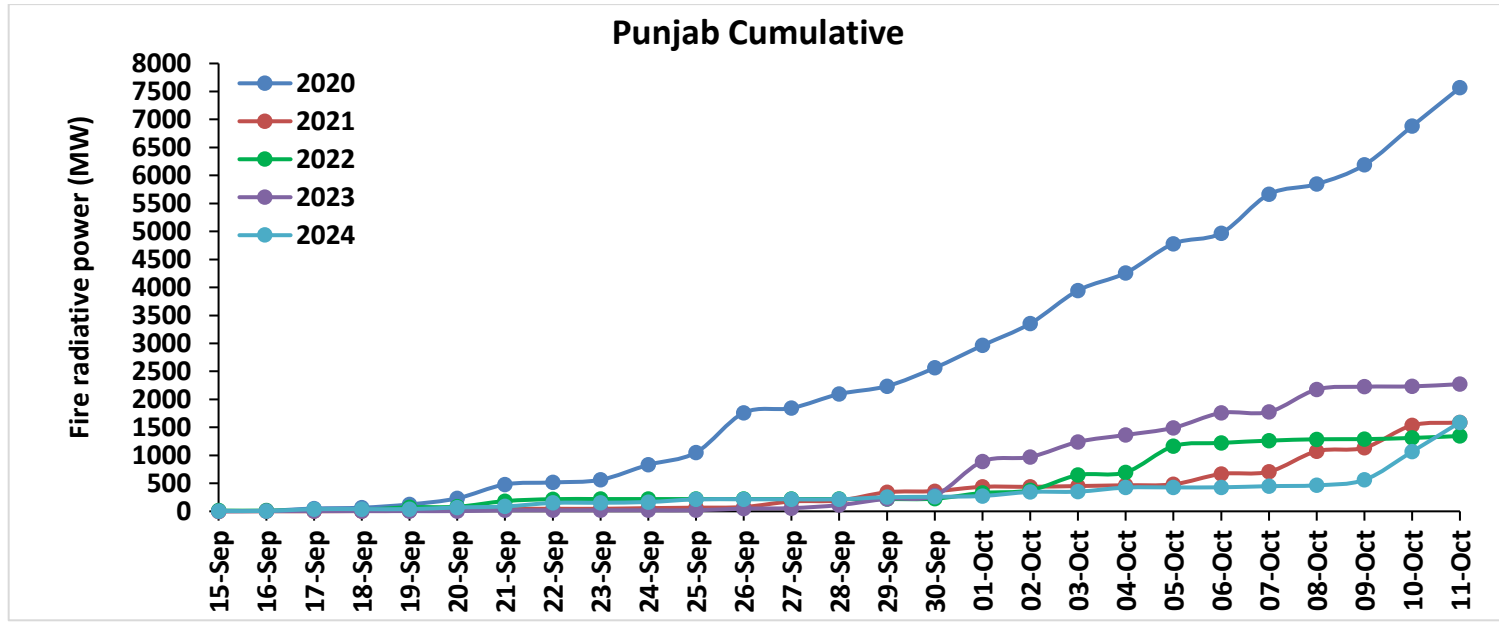
**Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States**



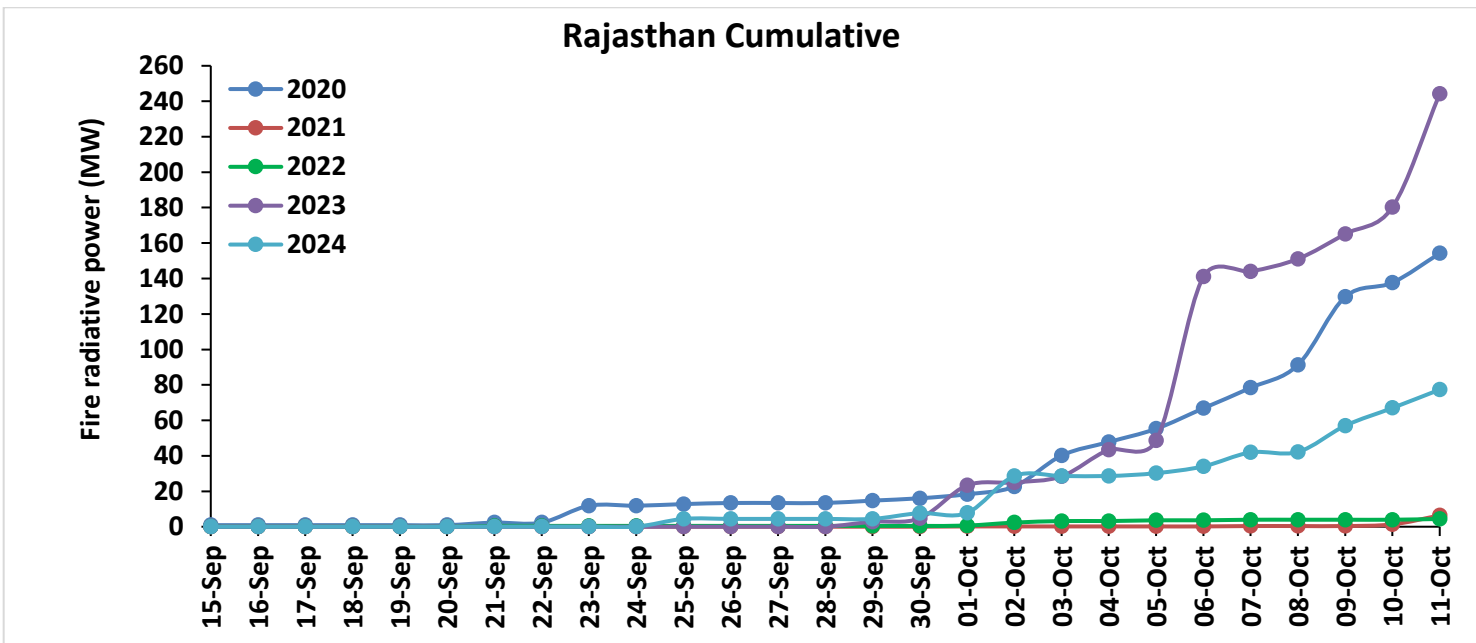
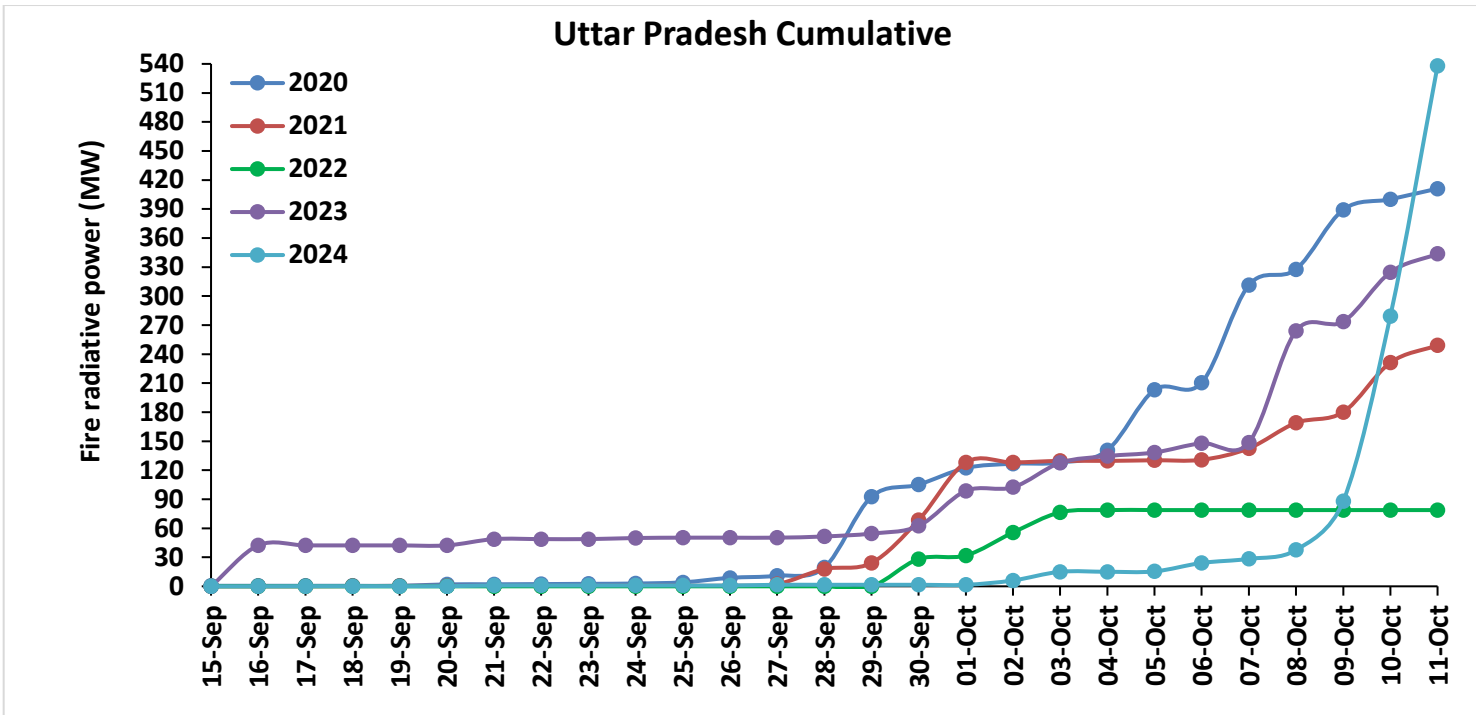




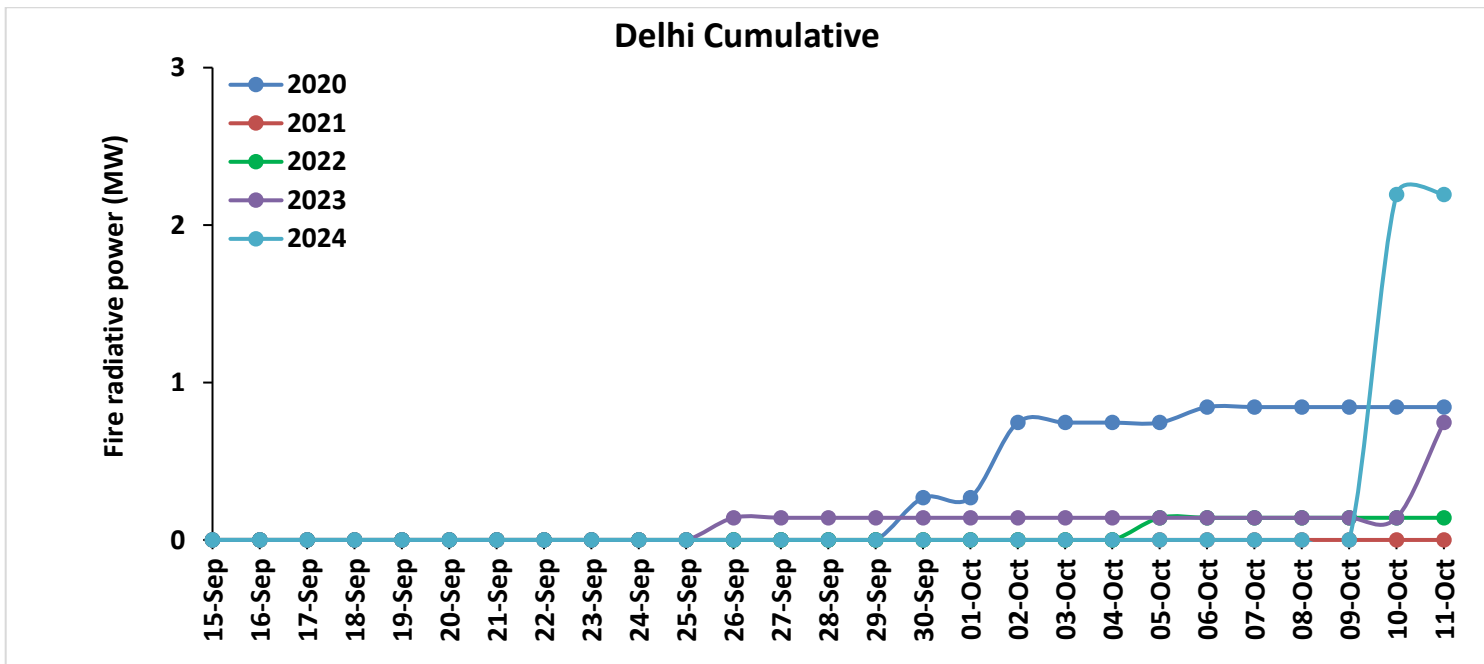
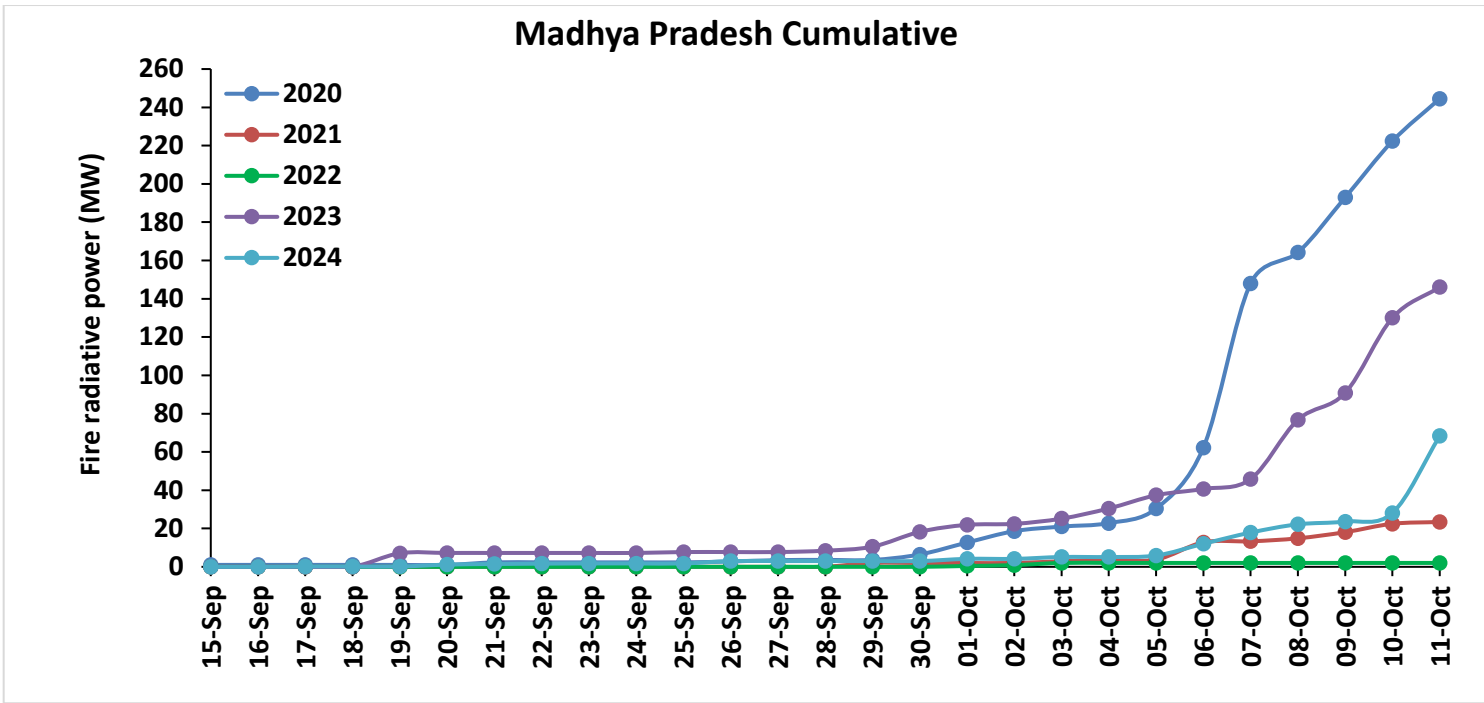
**Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States**





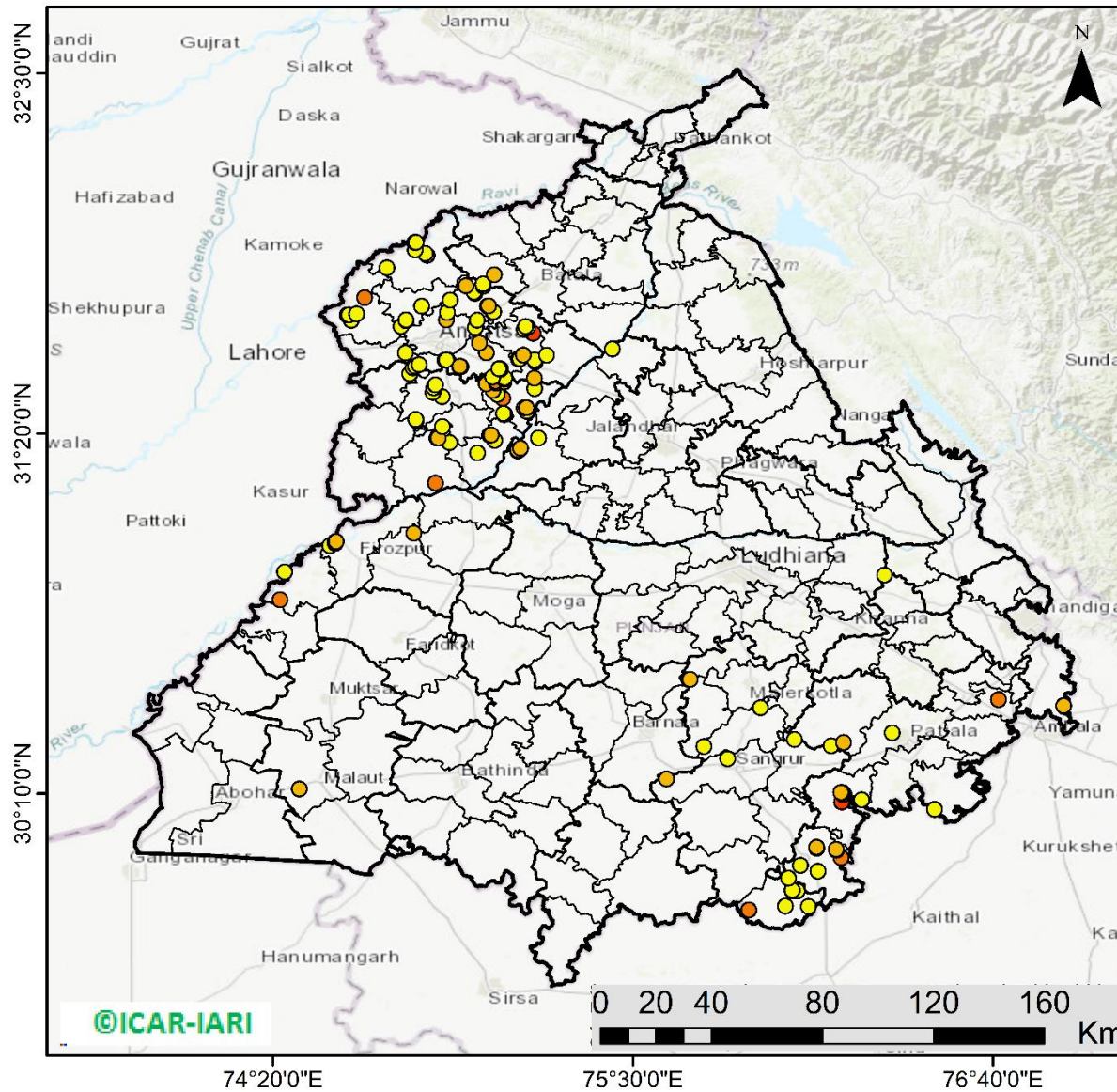






# Punjab

## RICE RESIDUE BURNING IN PUNJAB



**143** burning events detected in Punjab during (11th Oct 2024)

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

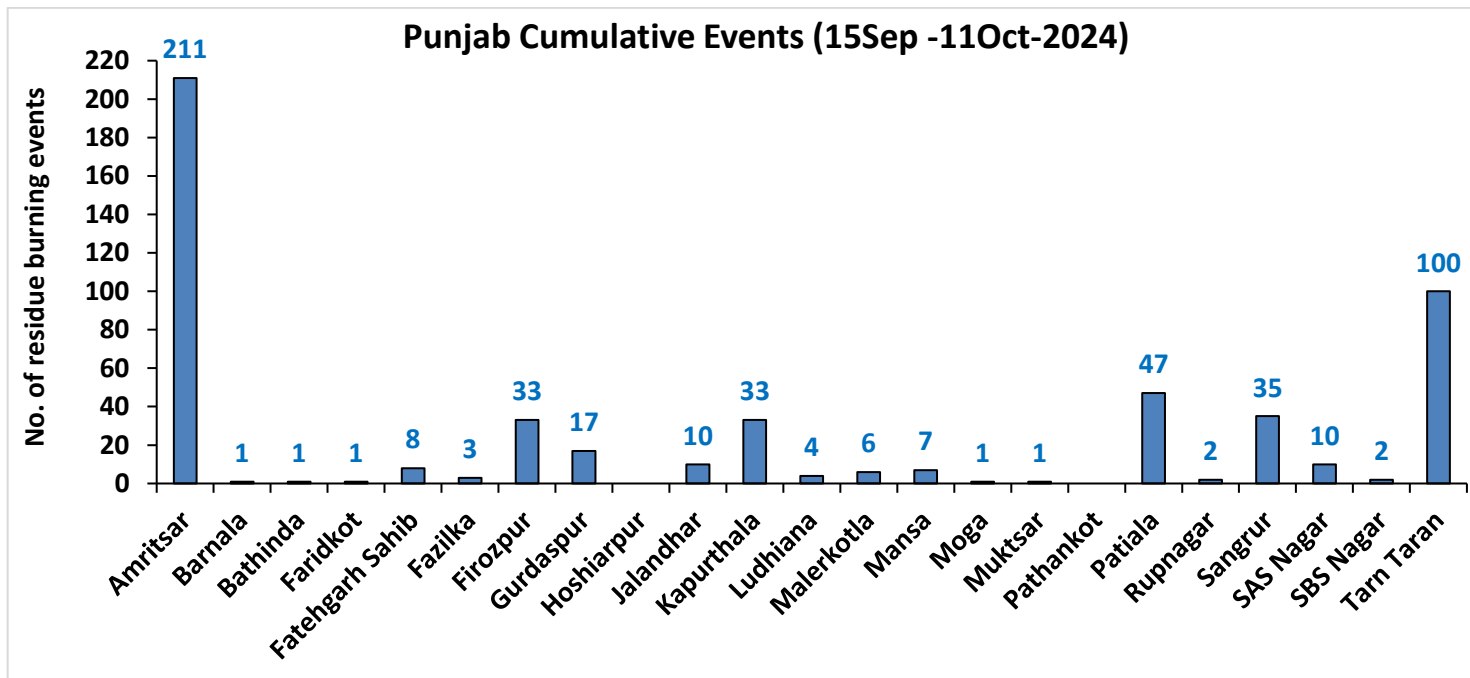
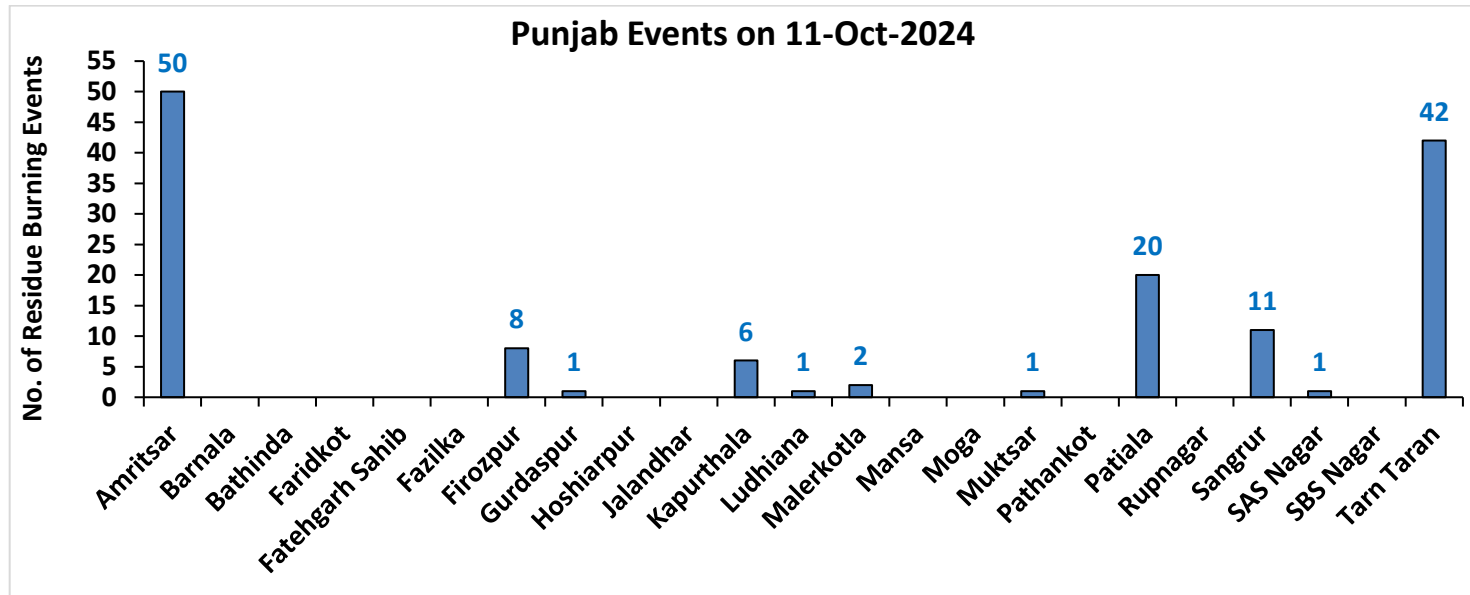
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



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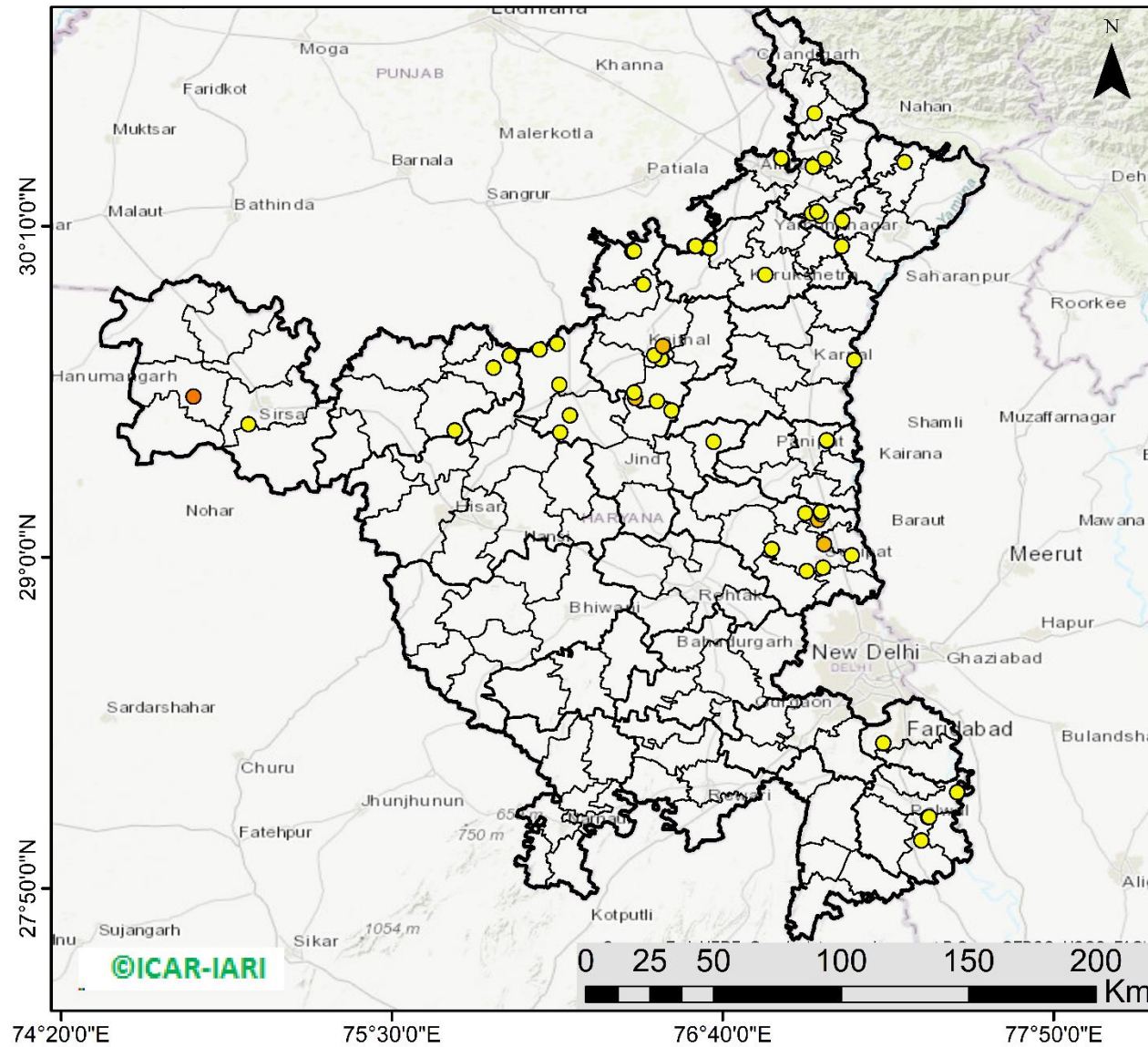
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Punjab (15Sep-11Oct-2024)



# Haryana

## RICE RESIDUE BURNING IN HARYANA



**55** burning events detected in Haryana on (11th Oct 2024)

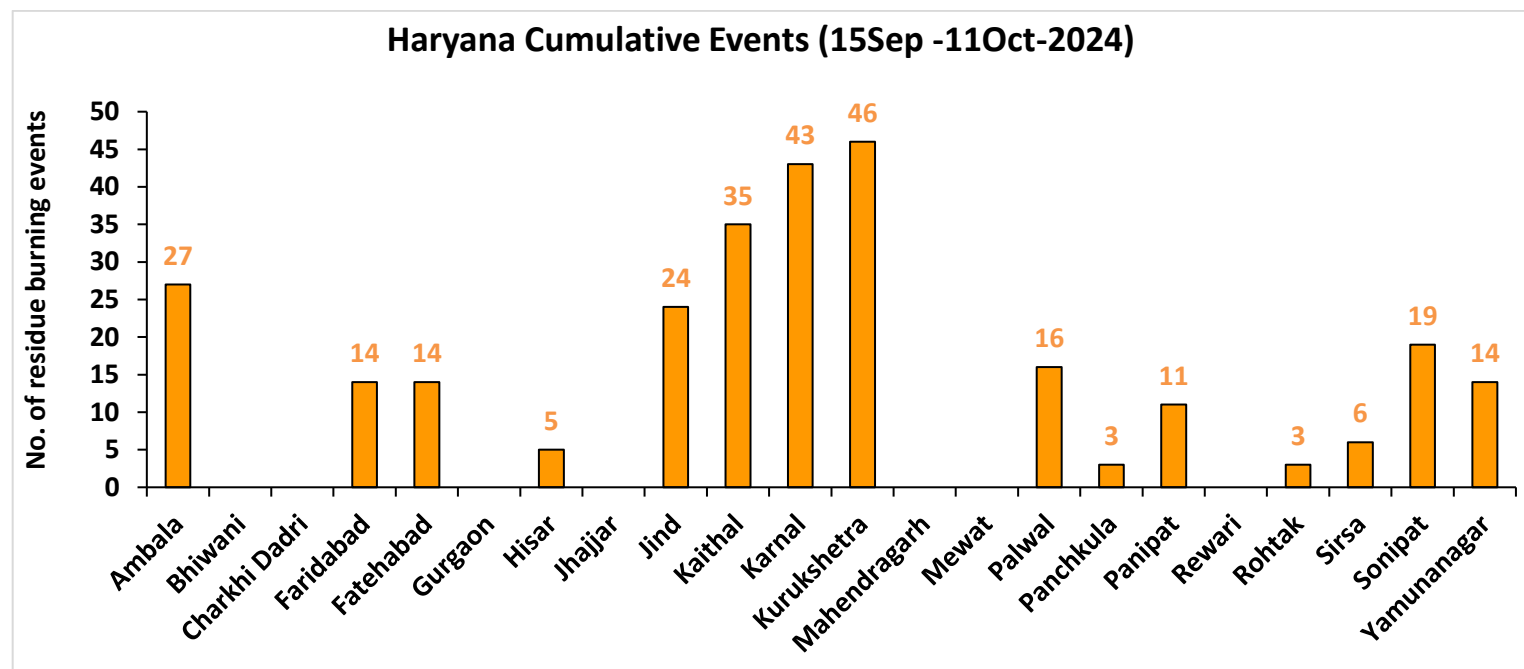
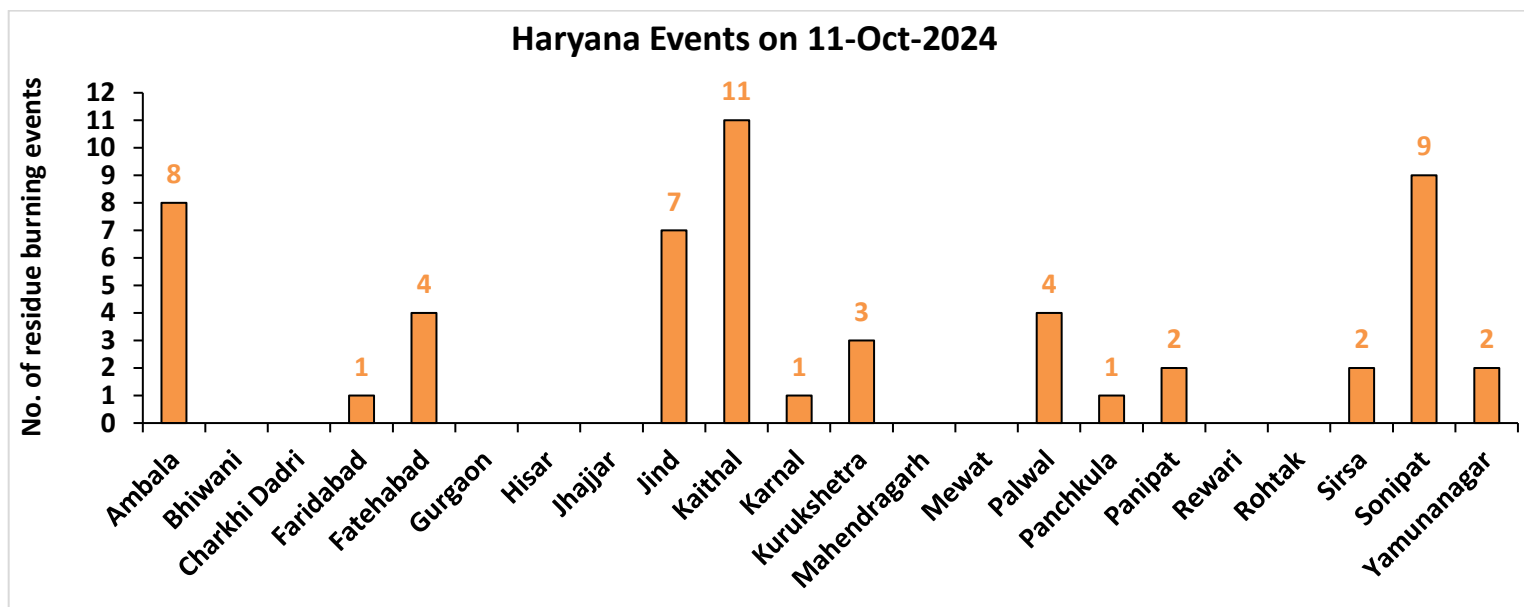
### Fire Intensity (W/m<sup>2</sup>)

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



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

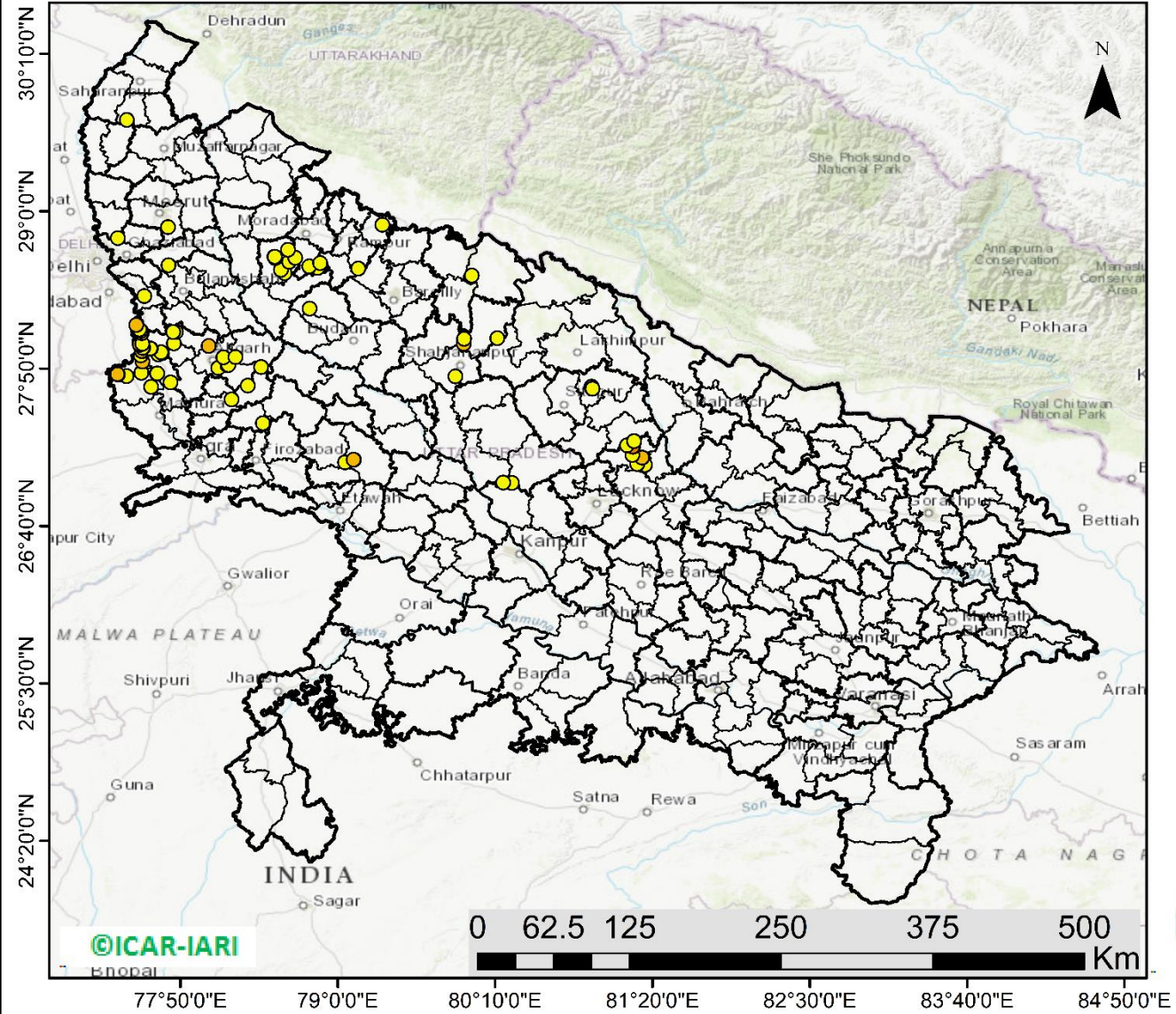
## District-wise cumulative number of residues burning events in Haryana (15Sep-11Oct-2024)





Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



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

Fire Intensity (W/m2)

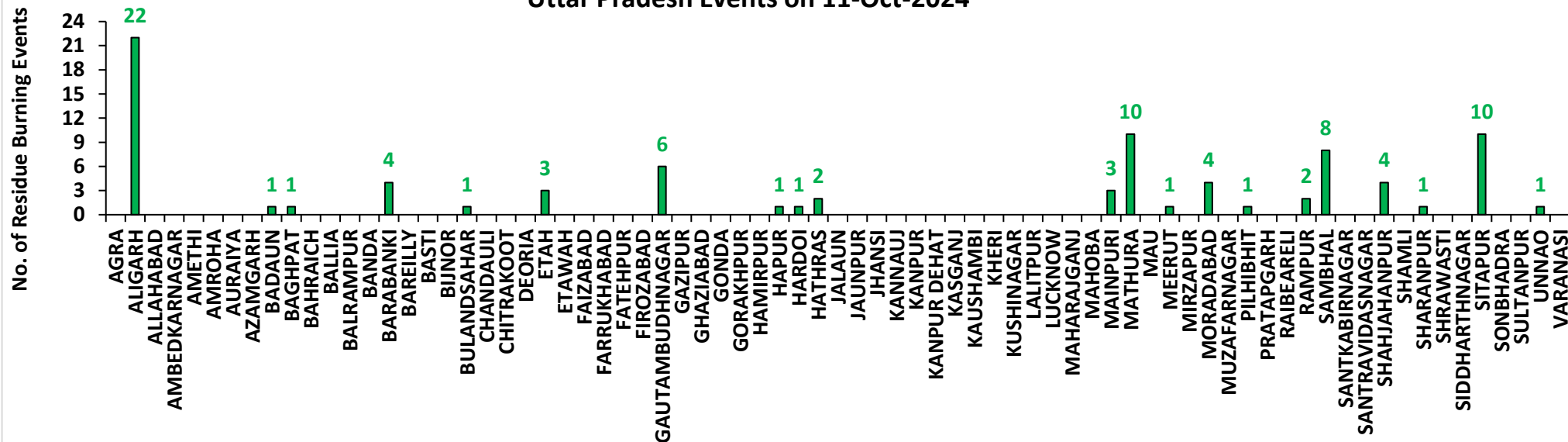
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



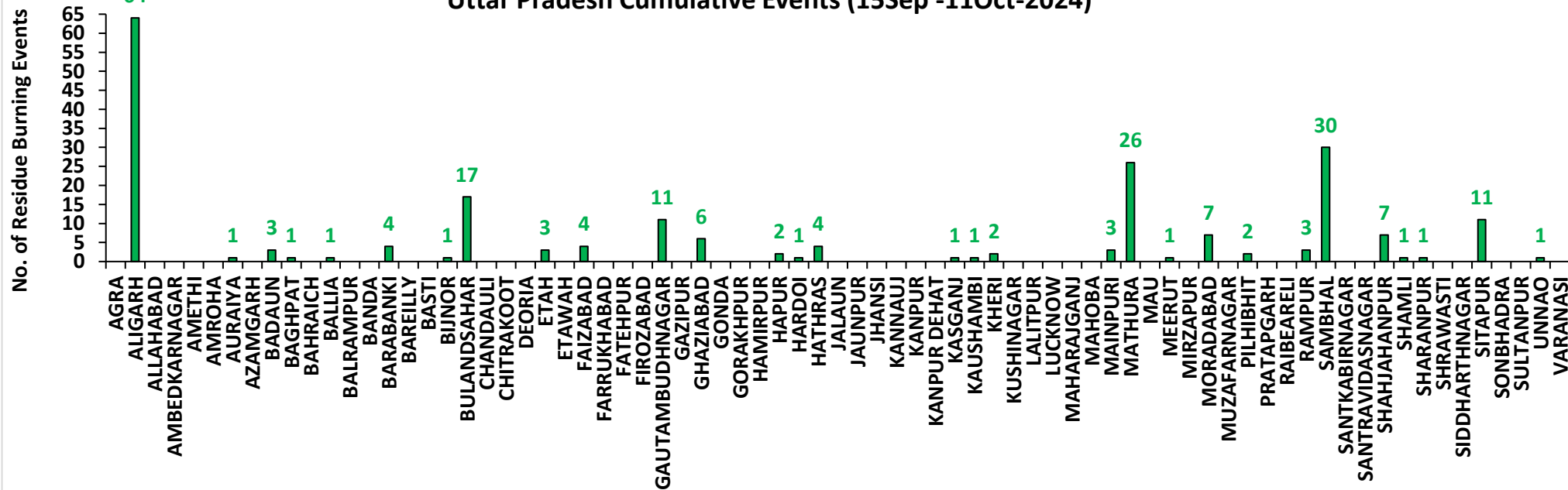
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-11Oct-2024)

### Uttar Pradesh Events on 11-Oct-2024



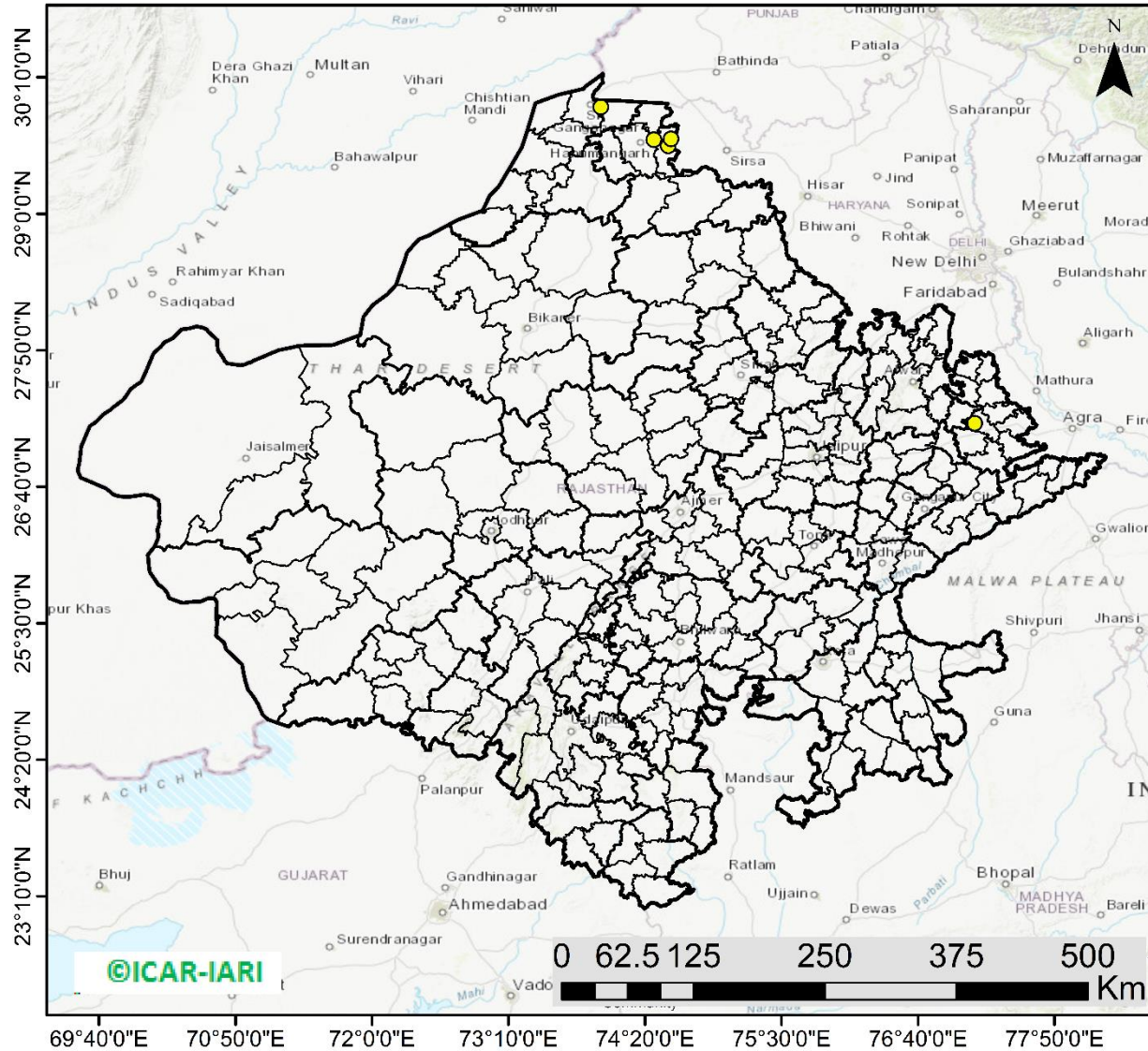
### Uttar Pradesh Cumulative Events (15Sep -11Oct-2024)





# Rajasthan

## RICE RESIDUE BURNING IN RAJASTHAN



**06** burning events  
detected in Rajasthan on  
(11th Oct 2024)

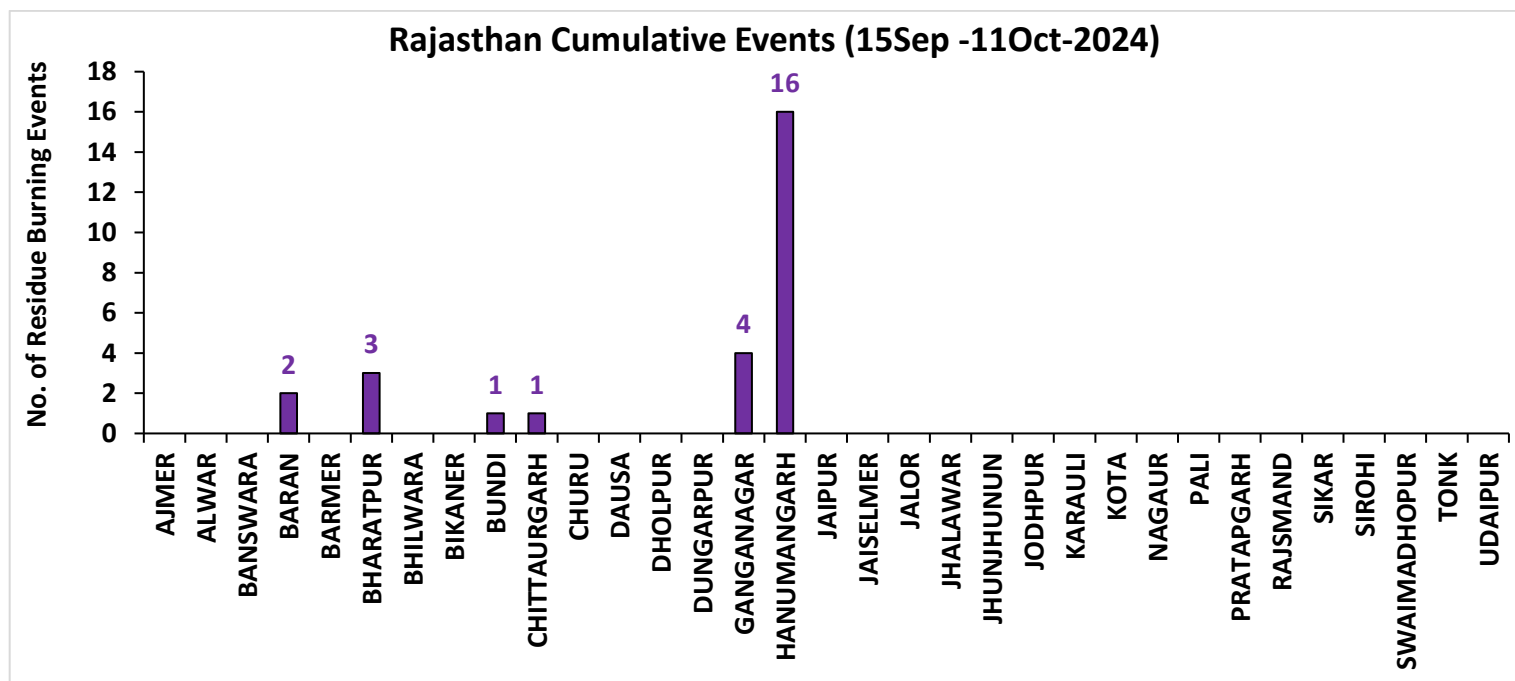
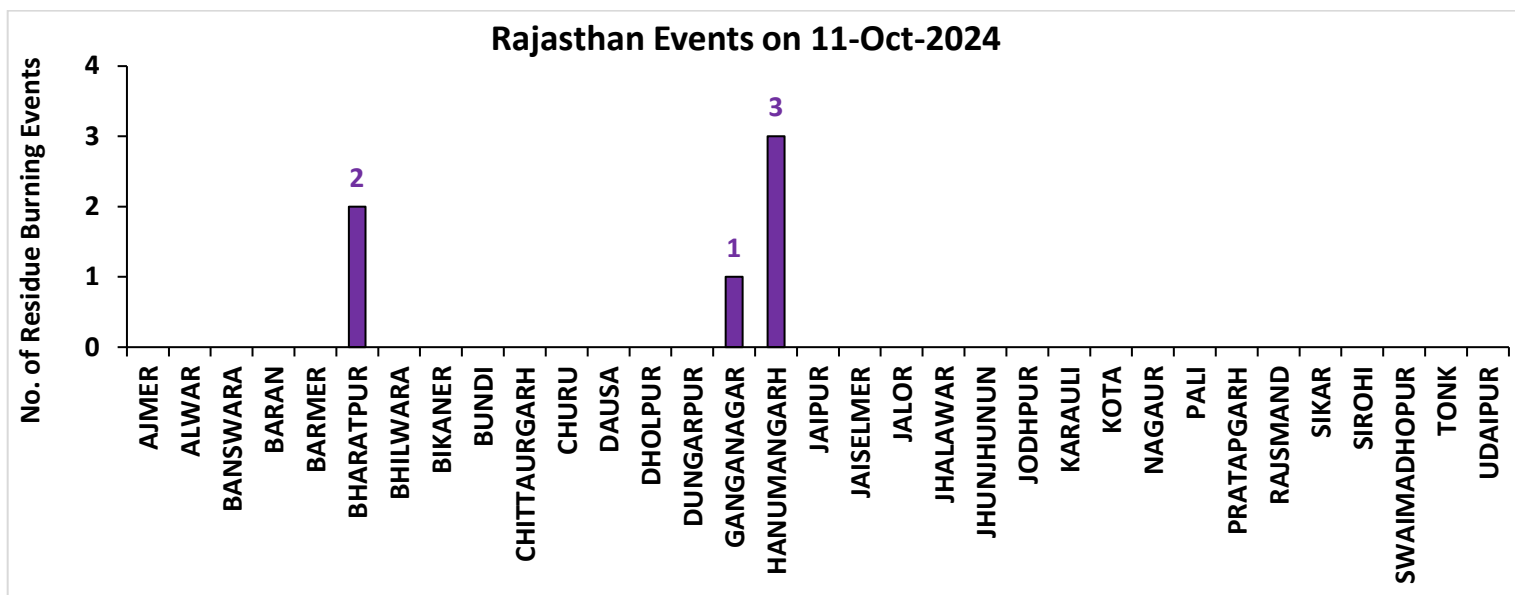
### Fire Intensity (W/m<sup>2</sup>)

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



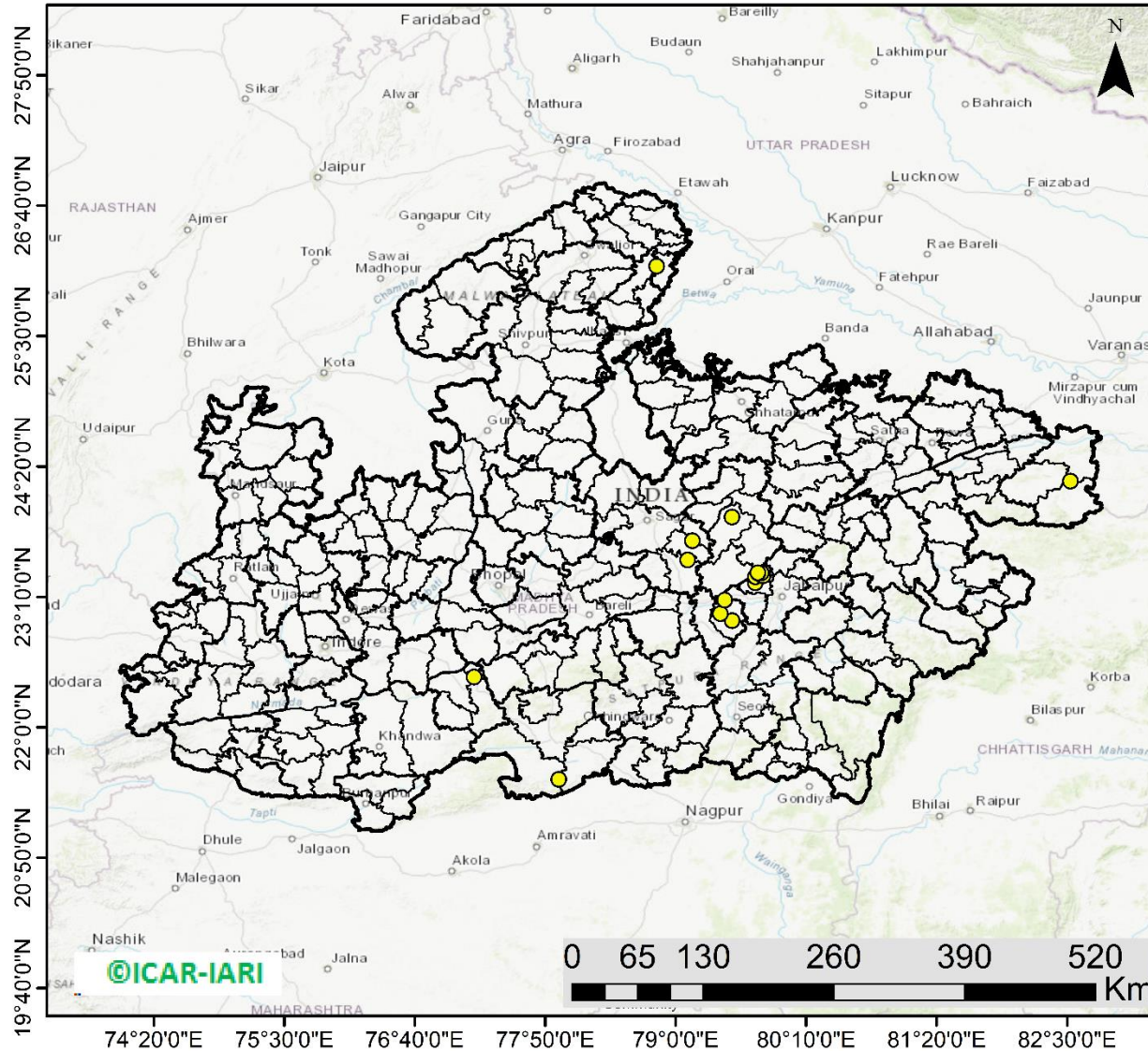
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Rajasthan (15Sep-11Oct-2024)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



17 burning events detected in MP on (11th Oct 2024)

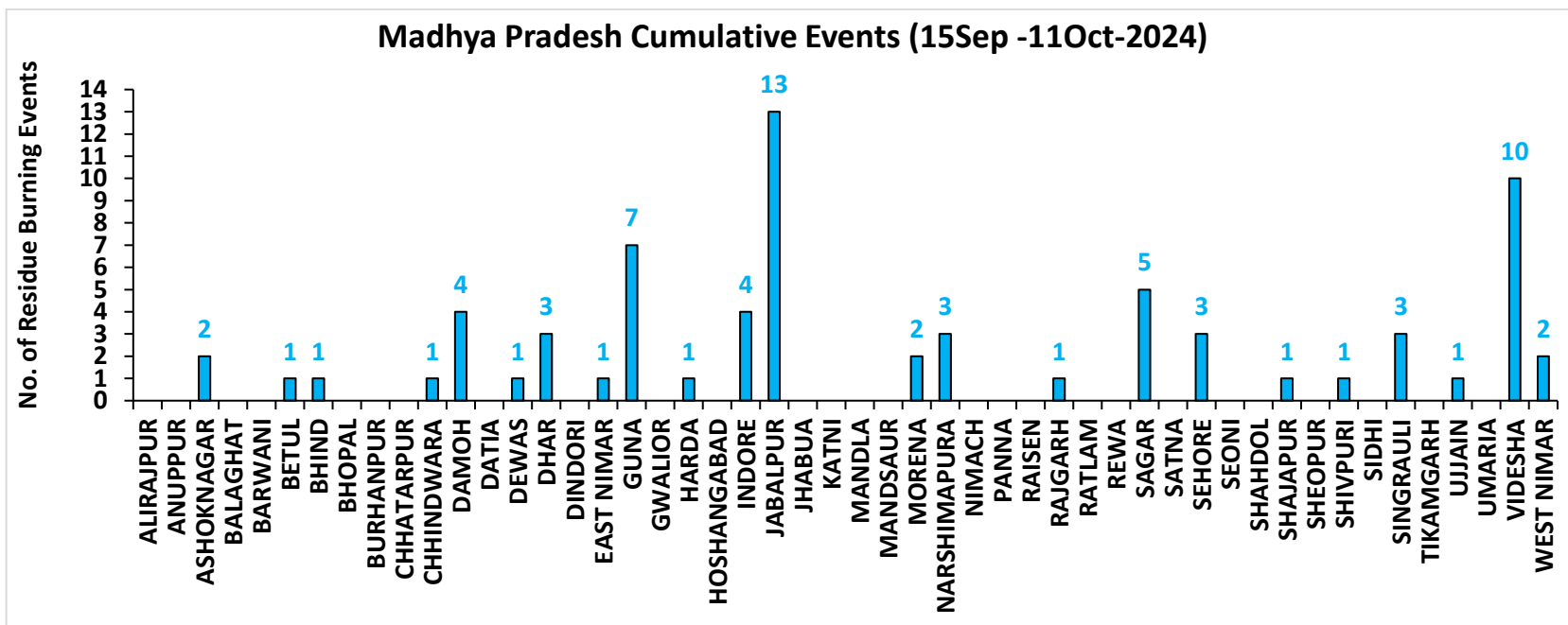
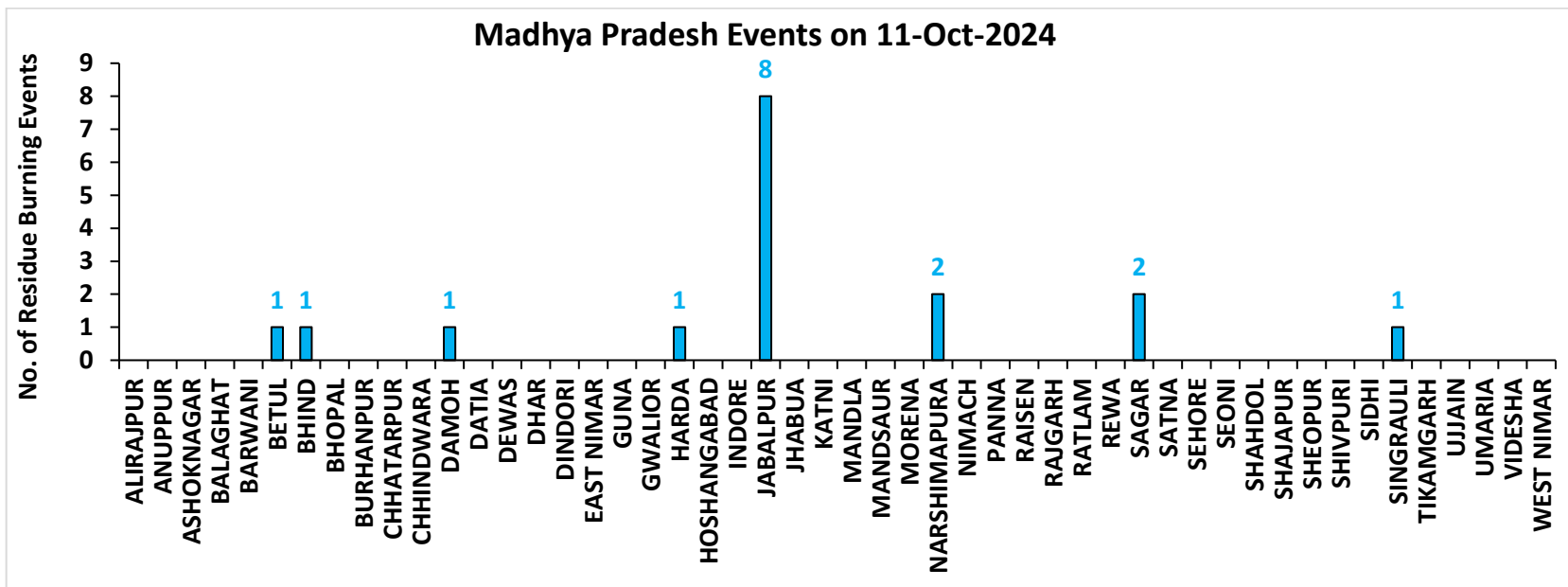
### Fire Intensity (W/m<sup>2</sup>)

- 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-11Oct-2024)





**District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024**  
**(Period: 15 September-11 October)**

**(a) Punjab**

District	15 Sep-11 Oct				
	2020	2021	2022	2023	2024
Amritsar	1426	343	470	572	211
Barnala	6	5	3	6	1
Bathinda	10	0	0	0	1
Faridkot	27	20	3	8	1
Fatehgarh Sahib	45	28	4	12	8
Fazilka	7	7	0	4	3
Firozpur	98	25	17	27	33
Gurdaspur	155	27	12	10	17
Hoshiarpur	6	1	0	2	0
Jalandhar	40	19	13	16	10
Kapurthala	63	26	25	61	33
Ludhiana	85	61	12	9	4
Malerkotla	0	0	0	2	6
Mansa	8	1	1	8	7
Moga	22	8	5	2	1
Muktsar	4	2	1	0	1
Pathankot	0	0	0	0	0
Patiala	209	67	26	83	47
Rupnagar	10	4	0	1	2
Sangrur	70	11	12	40	35
SAS NAGAR (Mohali)	17	11	4	40	10
SBS Nagar	9	2	2	2	2
Tarn Taran	640	160	153	158	100
<b>Total</b>	<b>2957</b>	<b>828</b>	<b>763</b>	<b>1063</b>	<b>533</b>

**(b) Haryana**

District	15 Sep-11 Oct				
	2020	2021	2022	2023	2024
AMBALA	57	13	10	59	27
BHIWANI	0	0	0	1	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	1	0	2	14
FATEHABAD	29	9	3	46	14
GURGAON	0	0	0	0	0
HISAR	4	0	0	13	5
JHAJJAR	1	0	0	2	0
JIND	9	9	8	36	24
KAITHAL	65	50	9	25	35
KARNAL	116	94	20	21	43
KURUKSHETRA	81	49	27	49	46
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	5	7	0	10	16
PANCHKULA	0	0	0	0	3
PANIPAT	6	3	1	11	11
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	3
SIRSA	3	0	0	1	6
SONIPAT	6	1	2	34	19
YAMUNANAGAR	29	11	3	29	14
<b>Total</b>	<b>411</b>	<b>247</b>	<b>83</b>	<b>340</b>	<b>280</b>

(c) Uttar Pradesh

District	15 Sep-11 Oct																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	4	0	4	11	MUZAFARNAGAR	2	0	0	0	0
AGRA	1	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	4	7	2	24	2
ALIGARH	17	3	1	48	64	GHAZIABAD	1	2	1	6	6	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	8	16	0	11	3
AMETHI	0	1	0	1	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	6	1	4	8	30
AMROHA	1	0	0	2	0	HAPUR	3	0	0	0	2	SANTKABIRNAGAR	0	0	0	0	0
AURAIYA	12	1	4	3	1	HARDOI	2	4	0	4	1	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	4	SHAHJAHANPUR	16	87	53	19	7
BADAUN	0	0	0	1	3	JALAUN	0	0	0	0	0	SHAMLI	17	5	2	2	1
BAGHPAT	1	0	0	1	1	JAUNPUR	0	0	0	0	0	SHARANPUR	15	0	0	0	1
BAHRAICH	2	2	0	0	0	JHANSI	5	0	0	2	0	SHRAWASTI	0	0	0	0	0
BALLIA	0	0	0	0	1	KANNAUJ	2	0	0	0	0	SIDDHARTHANAGAR	0	0	0	0	0
BALRAMPUR	0	0	0	0	0	KANPUR	0	1	0	2	0	SITAPUR	8	1	0	1	11
BANDA	0	0	0	0	0	KANPUR DEHAT	2	0	0	1	0	SONBHADRA	0	0	0	0	0
BARABANKI	10	0	0	13	4	KASGANJ	1	0	0	1	1	SULTANPUR	0	0	0	0	0
BAREILLY	7	4	0	7	0	KAUSHAMBI	7	1	0	4	1	UNNAO	2	0	0	2	1
BASTI	2	0	0	0	0	KHERI	16	16	8	3	2	VARANASI	0	0	0	0	0
BIJNOR	3	1	1	5	1	KUSHINAGAR	0	0	0	0	0	<b>Total</b>	<b>214</b>	<b>178</b>	<b>80</b>	<b>235</b>	<b>220</b>
BULANDSAHAR	3	1	2	4	17	LALITPUR	0	1	2	0	0						
CHANDAULI	0	0	0	0	0	LUCKNOW	2	0	0	1	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	4	2	0	8	3	MAINPURI	0	2	0	4	3						
ETAWAH	2	3	0	8	0	MATHURA	5	6	0	24	26						
FAIZABAD	0	0	0	0	4	MAU	0	0	0	0	0						
FARRUKHABAD	0	0	0	0	0	MEERUT	9	0	0	2	1						
FATEHPUR	7	0	0	2	0	MIRZAPUR	5	5	0	0	0						
FIROZABAD	1	0	0	1	0	MORADABAD	1	1	0	2	7						

**(d) Delhi**

District	15 Sep-11 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	2	3
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>2</b>	<b>3</b>

**(e) Rajasthan**

District	15 Sep-11 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	67	0	3	59	2
BARMER	2	0	0	0	0
BHARATPUR	0	0	0	2	3
BHILWARA	2	0	0	0	0
BIKANER	0	0	0	0	0
BUNDI	3	0	3	7	1
CHITTAURGARH	0	1	0	4	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	7	4
HANUMANGARH	40	9	3	23	16
JAIPUR	0	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	0	0	0	4	0
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARAULI	1	0	0	0	0
KOTA	19	0	1	36	0
NAGAU	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	1	0	0	0	0
SWAIMADHOPUR	2	0	0	3	0
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
<b>Total</b>	<b>146</b>	<b>10</b>	<b>10</b>	<b>145</b>	<b>27</b>



**(f) Madhya Pradesh**

District	15 Sep-11 Oct										
	2020	2021	2022	2023	2024	PANNA	1	0	0	0	0
ALIRAJPUR	0	0	0	0	0	RAISEN	3	0	0	1	0
ANUPPUR	0	0	0	0	0	RAJGARH	6	1	2	5	1
ASHOKNAGAR	7	0	0	8	2	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	2	0	0	0	0
BARWANI	0	0	0	0	0	SAGAR	10	3	1	5	5
BETUL	0	0	0	0	1	SATNA	3	0	0	1	0
BHIND	0	0	0	6	1	SEHORE	4	0	1	8	3
BHOPAL	3	2	0	6	0	SEONI	2	2	0	0	0
BURHANPUR	0	0	0	0	0	SHAHDOL	0	0	0	0	0
CHHATARPUR	3	0	0	2	0	SHAJAPUR	4	0	0	6	1
CHHINDWARA	0	0	0	1	1	SHEOPUR	5	0	0	3	0
DAMOH	11	1	0	8	4	SHIVPURI	3	0	0	1	1
DATIA	17	2	0	11	0	SIDHI	0	0	0	0	0
DEWAS	3	0	0	5	1	SINGRAULI	0	0	0	0	3
DHAR	16	0	0	17	3	TIKAMGARH	1	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	5	0	0	6	1
EAST NIMAR	1	1	0	0	1	UMARIA	0	0	0	0	0
GUNA	9	1	1	39	7	VIDESHA	42	5	1	13	10
GWALIOR	18	0	1	4	0	WEST NIMAR	2	0	0	0	2
HARDA	8	7	0	8	1	<b>Total</b>	<b>210</b>	<b>29</b>	<b>7</b>	<b>199</b>	<b>71</b>
HOSHANGABAD	7	0	0	5	0						
INDORE	2	0	0	10	4						
JABALPUR	6	1	0	5	13						
JHABUA	0	0	0	0	0						
KATNI	0	0	0	0	0						
MANDLA	0	0	0	0	0						
MANDSAUR	0	0	0	1	0						
MORENA	5	2	0	12	2						
NARSHIMAPURA	1	1	0	1	3						
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-11 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
<b>Total</b>	<b>2957</b>	<b>828</b>	<b>763</b>	<b>1063</b>	<b>533</b>	<b>411</b>	<b>247</b>	<b>83</b>	<b>340</b>	<b>280</b>	<b>214</b>	<b>178</b>	<b>80</b>	<b>235</b>	<b>220</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
<b>Total</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>146</b>	<b>10</b>	<b>10</b>	<b>145</b>	<b>27</b>	<b>210</b>	<b>29</b>	<b>7</b>	<b>199</b>	<b>71</b>

### Details of residue burning events in Punjab on 11-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	AMRITSAR	AJNALA	S-NPP	31.86944	74.70319	13:46:30	D	2.80
2	AMRITSAR	AJNALA	JPSS-2	31.90992	74.83357	01:10:07	N	6.50
3	AMRITSAR	AJNALA	JPSS-2	31.91590	74.82782	01:10:07	N	3.10
4	AMRITSAR	AJNALA	JPSS-2	31.92767	74.79450	01:10:07	N	1.60
5	AMRITSAR	AJNALA	JPSS-1	31.95185	74.79338	02:10:41	N	2.60
6	AMRITSAR	AJNALA	JPSS-1	31.95213	74.79738	02:10:41	N	2.70
7	AMRITSAR	ATTARI	JPSS-2	31.57037	74.89144	01:10:07	N	3.40
8	AMRITSAR	ATTARI	JPSS-2	31.57108	74.89564	01:10:07	N	3.40
9	AMRITSAR	ATTARI	JPSS-2	31.59400	74.76343	01:10:07	N	3.00
10	AMRITSAR	CHOGAWAN	JPSS-2	31.68004	74.74860	01:10:07	N	4.10
11	AMRITSAR	CHOGAWAN	JPSS-1	31.69949	74.58784	02:10:41	N	2.20
12	AMRITSAR	CHOGAWAN	S-NPP	31.71669	74.57490	13:46:30	D	4.00
13	AMRITSAR	CHOGAWAN	S-NPP	31.71730	74.57996	13:46:30	D	4.00
14	AMRITSAR	CHOGAWAN	S-NPP	31.72036	74.60529	13:46:30	D	4.80
15	AMRITSAR	CHOGAWAN	JPSS-2	31.77302	74.63084	01:10:07	N	10.10
16	AMRITSAR	HARSHA CHHINA	JPSS-1	31.69830	74.76546	02:10:41	N	2.40
17	AMRITSAR	HARSHA CHHINA	JPSS-1	31.70088	74.76485	02:10:41	N	1.90
18	AMRITSAR	HARSHA CHHINA	S-NPP	31.74551	74.81572	13:46:30	D	4.50
19	AMRITSAR	HARSHA CHHINA	JPSS-1	31.76510	74.90806	02:10:41	N	3.10
20	AMRITSAR	JANDIALA GURU	JPSS-2	31.54091	75.07151	02:10:11	N	1.90
21	AMRITSAR	JANDIALA GURU	S-NPP	31.54217	75.07135	02:36:30	N	0.90
22	AMRITSAR	JANDIALA GURU	JPSS-1	31.54265	75.06616	03:10:41	N	0.60
23	AMRITSAR	JANDIALA GURU	JPSS-2	31.54879	74.93867	01:10:07	N	3.30
24	AMRITSAR	JANDIALA GURU	JPSS-2	31.54949	74.94286	01:10:07	N	3.30
25	AMRITSAR	JANDIALA GURU	JPSS-2	31.55070	74.93950	01:10:07	N	6.60
26	AMRITSAR	JANDIALA GURU	S-NPP	31.59419	75.02580	13:46:30	D	6.70
27	AMRITSAR	JANDIALA GURU	S-NPP	31.62574	75.00282	13:46:30	D	5.30
28	AMRITSAR	MAJITHA	JPSS-1	31.69983	74.99560	02:10:41	N	2.70
29	AMRITSAR	MAJITHA	S-NPP	31.72663	75.04608	13:46:30	D	4.80
30	AMRITSAR	MAJITHA	S-NPP	31.72692	75.04898	13:46:30	D	3.50

31	AMRITSAR	MAJITHA	JPSS-1	31.74596	75.02874	02:10:41	N	5.70
32	AMRITSAR	MAJITHA	JPSS-1	31.74623	75.03285	02:10:41	N	5.70
33	AMRITSAR	MAJITHA	JPSS-1	31.78712	74.98801	02:10:41	N	5.00
34	AMRITSAR	MAJITHA	JPSS-2	31.79135	74.98565	01:10:07	N	2.00
35	AMRITSAR	MAJITHA	JPSS-2	31.81030	75.01599	01:10:07	N	4.00
36	AMRITSAR	MAJITHA	JPSS-2	31.81119	74.95941	01:10:07	N	6.00
37	AMRITSAR	MAJITHA	JPSS-2	31.81697	75.01447	01:10:07	N	1.90
38	AMRITSAR	RAYYA	JPSS-1	31.56493	75.18410	12:10:07	D	3.40
39	AMRITSAR	RAYYA	JPSS-1	31.57109	75.18180	12:10:07	D	3.40
40	AMRITSAR	RAYYA	JPSS-1	31.58674	75.22081	02:10:41	N	2.40
41	AMRITSAR	TARSIKKA	JPSS-1	31.57491	75.12949	02:10:41	N	6.40
42	AMRITSAR	TARSIKKA	JPSS-1	31.57519	75.13364	02:10:41	N	4.70
43	AMRITSAR	TARSIKKA	JPSS-1	31.58704	75.14513	02:10:41	N	7.40
44	AMRITSAR	TARSIKKA	S-NPP	31.65735	75.17685	13:46:30	D	15.50
45	AMRITSAR	TARSIKKA	JPSS-1	31.67068	75.14759	02:10:41	N	3.00
46	AMRITSAR	TARSIKKA	JPSS-1	31.67704	75.15966	02:10:41	N	2.30
47	AMRITSAR	TARSIKKA	JPSS-2	31.67986	75.15246	01:10:07	N	1.40
48	AMRITSAR	VERKA	JPSS-2	31.67563	74.98974	01:10:07	N	3.30
49	AMRITSAR	VERKA	JPSS-1	31.70058	74.89560	12:10:07	D	5.60
50	AMRITSAR	VERKA	S-NPP	31.72486	74.89876	13:46:30	D	2.80
51	FIROZPUR	FIROZPUR	S-NPP	30.96916	74.51818	13:46:30	D	4.00
52	FIROZPUR	FIROZPUR	JPSS-1	30.97733	74.53542	02:10:41	N	8.20
53	FIROZPUR	FIROZPUR	S-NPP	30.97887	74.53660	13:46:30	D	2.70
54	FIROZPUR	FIROZPUR	S-NPP	30.98251	74.53600	13:46:30	D	5.20
55	FIROZPUR	FIROZPUR	JPSS-1	30.98287	74.53865	02:10:41	N	5.50
56	FIROZPUR	MAMDOT	JPSS-1	30.79429	74.35711	02:10:41	N	15.00
57	FIROZPUR	MAMDOT	S-NPP	30.88425	74.37169	13:46:30	D	3.20
58	FIROZPUR	ZIRA	S-NPP	31.01004	74.79039	13:46:30	D	5.40
59	GURDASPUR	FATEHGARH CHURIAN	JPSS-2	31.84726	75.05083	01:10:07	N	5.40
60	KAPURTHALA	NADALA	JPSS-1	31.60681	75.43375	02:10:41	N	4.00
61	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.27659	75.12684	13:46:30	D	5.60
62	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.27863	75.12924	12:10:07	D	4.30
63	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.27917	75.12735	12:10:07	D	6.80
64	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.28538	75.13621	13:46:30	D	5.80

65	KAPURTHALA	SULTANPUR LODHI	JPSS-2	31.31805	75.19421	02:10:11	N	0.90
66	LUDHIANA	MACHHIWARA	S-NPP	30.87434	76.31544	13:46:30	D	3.80
67	MALERKOTLA	AHMEDGARH	JPSS-1	30.53599	75.68147	02:10:41	N	6.80
68	MALERKOTLA	AHMEDGARH	JPSS-1	30.53628	75.68579	02:10:41	N	5.90
69	MUKTSAR	MALOUT	JPSS-2	30.18121	74.41927	01:10:07	N	5.10
70	PATIALA	BHUNARHERI	JPSS-2	30.11539	76.47761	01:10:07	N	3.80
71	PATIALA	NABHA	JPSS-2	30.32120	76.14253	01:10:07	N	4.00
72	PATIALA	NABHA	S-NPP	30.33208	76.18285	13:46:30	D	7.20
73	PATIALA	NABHA	S-NPP	30.34174	76.02381	13:46:30	D	3.30
74	PATIALA	PATIALA	JPSS-2	30.36328	76.34036	01:10:07	N	1.40
75	PATIALA	PATRAN	JPSS-1	29.91489	76.10017	02:10:41	N	3.30
76	PATIALA	PATRAN	JPSS-1	29.93356	76.04307	12:10:07	D	3.60
77	PATIALA	PATRAN	S-NPP	29.95851	76.17499	13:46:30	D	10.20
78	PATIALA	PATRAN	JPSS-2	29.98258	76.15945	01:10:07	N	6.60
79	PATIALA	PATRAN	JPSS-2	29.98588	76.15876	01:10:07	N	6.60
80	PATIALA	PATRAN	JPSS-2	29.98942	76.09587	01:10:07	N	9.30
81	PATIALA	PATRAN	JPSS-2	29.99261	76.09541	01:10:07	N	7.90
82	PATIALA	SAMANA	AQUA	30.13900	76.17700	03:03:29	N	16.50
83	PATIALA	SAMANA	JPSS-2	30.14603	76.24160	01:10:07	N	2.50
84	PATIALA	SAMANA	S-NPP	30.16389	76.17975	02:36:30	N	5.00
85	PATIALA	SAMANA	JPSS-2	30.16405	76.18410	02:10:11	N	11.40
86	PATIALA	SAMANA	JPSS-1	30.16831	76.17715	03:10:41	N	6.10
87	PATIALA	SAMANA	JPSS-1	30.16991	76.17996	01:10:07	N	5.50
88	PATIALA	SAMANA	JPSS-1	30.17023	76.17429	01:10:07	N	5.50
89	PATIALA	SHAMBU KALAN	S-NPP	30.47094	76.68468	13:46:30	D	10.90
90	SANGRUR	ANDANA	JPSS-2	29.78955	75.87591	01:10:07	N	10.10
91	SANGRUR	ANDANA	JPSS-2	29.80062	76.06940	01:10:07	N	4.00
92	SANGRUR	ANDANA	JPSS-2	29.80207	75.99427	01:10:07	N	3.00
93	SANGRUR	ANDANA	JPSS-2	29.85036	76.01723	01:10:07	N	4.70
94	SANGRUR	ANDANA	JPSS-1	29.85103	76.03296	02:10:41	N	4.00
95	SANGRUR	ANDANA	JPSS-2	29.85367	76.01653	01:10:07	N	4.70
96	SANGRUR	ANDANA	JPSS-2	29.89244	76.00440	01:10:07	N	2.50
97	SANGRUR	DHURI	JPSS-2	30.44460	75.91356	01:10:07	N	2.40
98	SANGRUR	SANGRUR	JPSS-2	30.21397	75.60931	01:10:07	N	5.80

99	SANGRUR	SANGRUR	JPSS-1	30.27957	75.80743	02:10:41	N	3.60
100	SANGRUR	SHER PUR	JPSS-2	30.31905	75.73019	01:10:07	N	4.00
101	SAS NAGAR	DERABASSI	JPSS-2	30.45071	76.89591	01:10:07	N	7.90
102	TARN TARAN	CHOHLA SAHIB	JPSS-2	31.27014	74.99655	01:10:07	N	3.20
103	TARN TARAN	CHOHLA SAHIB	JPSS-2	31.31078	75.05240	01:10:07	N	3.00
104	TARN TARAN	CHOHLA SAHIB	S-NPP	31.32741	75.03588	13:46:30	D	8.20
105	TARN TARAN	CHOHLA SAHIB	S-NPP	31.32802	75.04111	13:46:30	D	8.20
106	TARN TARAN	GANDIWIND TATLA	S-NPP	31.52639	74.77689	13:46:30	D	5.00
107	TARN TARAN	GANDIWIND TATLA	JPSS-2	31.54578	74.78770	01:10:07	N	4.50
108	TARN TARAN	GANDIWIND TATLA	JPSS-2	31.55058	74.79536	01:10:07	N	2.60
109	TARN TARAN	GANDIWIND TATLA	JPSS-2	31.55609	74.80726	01:10:07	N	2.70
110	TARN TARAN	KHADUR SAHIB	S-NPP	31.39432	75.08414	13:46:30	D	1.70
111	TARN TARAN	KHADUR SAHIB	S-NPP	31.39442	75.08298	02:36:30	N	0.90
112	TARN TARAN	KHADUR SAHIB	JPSS-1	31.39449	75.08224	03:10:41	N	0.70
113	TARN TARAN	KHADUR SAHIB	S-NPP	31.39561	75.08506	02:36:30	N	0.90
114	TARN TARAN	KHADUR SAHIB	JPSS-2	31.39724	75.08100	01:10:07	N	2.60
115	TARN TARAN	KHADUR SAHIB	JPSS-1	31.40438	75.15559	02:10:41	N	3.90
116	TARN TARAN	KHADUR SAHIB	JPSS-1	31.41556	75.14744	02:10:41	N	6.70
117	TARN TARAN	KHADUR SAHIB	JPSS-1	31.41611	75.15572	02:10:41	N	6.70
118	TARN TARAN	KHADUR SAHIB	S-NPP	31.44703	75.07848	13:46:30	D	10.10
119	TARN TARAN	KHADUR SAHIB	JPSS-1	31.45925	75.06087	02:10:41	N	2.50
120	TARN TARAN	KHADUR SAHIB	JPSS-1	31.47225	75.04693	12:10:07	D	5.50
121	TARN TARAN	KHADUR SAHIB	S-NPP	31.47834	75.18181	13:46:30	D	3.30
122	TARN TARAN	KHADUR SAHIB	JPSS-1	31.49595	75.05810	12:10:07	D	2.30
123	TARN TARAN	KHADUR SAHIB	JPSS-1	31.49925	75.08218	02:10:41	N	8.00
124	TARN TARAN	KHADUR SAHIB	JPSS-1	31.50005	75.08203	02:10:41	N	6.90
125	TARN TARAN	KHADUR SAHIB	JPSS-1	31.50217	75.05580	12:10:07	D	10.20
126	TARN TARAN	KHADUR SAHIB	S-NPP	31.50888	75.08251	13:46:30	D	5.00
127	TARN TARAN	KHADUR SAHIB	JPSS-1	31.51200	75.18092	02:10:41	N	6.40
128	TARN TARAN	KHADUR SAHIB	S-NPP	31.51224	75.07893	13:46:30	D	3.30
129	TARN TARAN	KHADUR SAHIB	S-NPP	31.51265	75.08192	13:46:30	D	5.00
130	TARN TARAN	KHADUR SAHIB	S-NPP	31.51288	75.08421	13:46:30	D	3.40
131	TARN TARAN	PATTI	JPSS-2	31.17251	74.86034	01:10:07	N	12.90
132	TARN TARAN	PATTI	JPSS-2	31.30363	74.90618	01:10:07	N	3.80



133	TARN TARAN	PATTI	JPSS-1	31.31807	74.86572	02:10:41	N	12.40
134	TARN TARAN	PATTI	JPSS-1	31.31835	74.86968	02:10:41	N	9.50
135	TARN TARAN	PATTI	S-NPP	31.35489	74.88324	13:46:30	D	3.10
136	TARN TARAN	TARN TARAN	JPSS-1	31.37573	74.79790	02:10:41	N	2.50
137	TARN TARAN	TARN TARAN	JPSS-1	31.37809	74.79683	02:10:41	N	2.30
138	TARN TARAN	TARN TARAN	JPSS-2	31.45235	74.88222	01:10:07	N	2.20
139	TARN TARAN	TARN TARAN	S-NPP	31.46580	74.85212	13:46:30	D	4.40
140	TARN TARAN	TARN TARAN	S-NPP	31.48130	74.85489	13:46:30	D	3.20
141	TARN TARAN	TARN TARAN	JPSS-2	31.49044	74.86040	01:10:07	N	3.10
142	TARN TARAN	TARN TARAN	JPSS-2	31.49384	75.02503	01:10:07	N	7.00
143	TARN TARAN	TARN TARAN	S-NPP	31.51593	75.04602	13:46:30	D	3.40

### Details of residue burning events in Haryana on 11-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-I	S-NPP	30.40510	76.87332	13:46:30	D	2.80
2	AMBALA	AMBALA-II	JPSS-1	30.08875	76.62020	02:10:41	N	2.30
3	AMBALA	BARARA	JPSS-2	30.18696	77.08738	01:10:07	N	3.30
4	AMBALA	BARARA	S-NPP	30.20241	77.01186	13:46:30	D	2.40
5	AMBALA	BARARA	S-NPP	30.21154	76.98055	13:46:30	D	2.60
6	AMBALA	BARARA	JPSS-2	30.21744	76.99968	01:10:07	N	2.40
7	AMBALA	SAHA	S-NPP	30.37532	76.98454	13:46:30	D	1.70
8	AMBALA	SHAHZADPUR	JPSS-2	30.40267	77.02801	01:10:07	N	2.20
9	FARIDABAD	FARIDABAD	JPSS-2	28.34518	77.23298	02:10:11	N	0.80
10	FATEHABAD	BHUNA	JPSS-1	29.44533	75.72224	02:10:41	N	2.80
11	FATEHABAD	BHUNA	JPSS-1	29.44640	75.72219	02:10:41	N	1.30
12	FATEHABAD	TOHANA	S-NPP	29.66730	75.85871	13:46:30	D	2.90
13	FATEHABAD	TOHANA	S-NPP	29.71102	75.91608	13:46:30	D	3.60
14	JIND	ALEWA	JPSS-2	29.51648	76.48657	01:10:07	N	1.10
15	JIND	NARWANA	S-NPP	29.60788	76.09042	13:46:30	D	4.50
16	JIND	NARWANA	JPSS-2	29.73141	76.02088	01:10:07	N	1.70
17	JIND	NARWANA	JPSS-2	29.75177	76.08300	01:10:07	N	4.40
18	JIND	SAFIDON	JPSS-1	29.40652	76.63454	12:10:07	D	2.70
19	JIND	UCHANA	JPSS-2	29.43953	76.09401	01:10:07	N	4.00
20	JIND	UCHANA	JPSS-2	29.49947	76.12791	01:10:07	N	3.20
21	KAITHAL	GUHLA	JPSS-1	30.07705	76.34772	02:10:41	N	2.60
22	KAITHAL	GUHLA	JPSS-2	30.07867	76.35387	01:10:07	N	2.80
23	KAITHAL	KAITHAL	JPSS-2	29.69792	76.44882	01:10:07	N	3.60
24	KAITHAL	KAITHAL	JPSS-2	29.71123	76.42553	01:10:07	N	2.40
25	KAITHAL	KAITHAL	S-NPP	29.74152	76.45766	13:46:30	D	7.70
26	KAITHAL	KAITHAL	S-NPP	29.74364	76.45544	13:46:30	D	6.70
27	KAITHAL	RAJOUND	JPSS-2	29.54904	76.43472	01:10:07	N	4.40
28	KAITHAL	RAJOUND	JPSS-2	29.56066	76.35841	01:10:07	N	7.80
29	KAITHAL	RAJOUND	JPSS-2	29.58045	76.35425	01:10:07	N	1.90
30	KAITHAL	RAJOUND	S-NPP	29.69658	76.45236	13:46:30	D	7.40

31	KAITHAL	SIWAN	JPSS-2	29.96110	76.38667	01:10:07	N	2.60
32	KARNAL	KARNAL	S-NPP	29.69410	77.13060	13:46:30	D	4.90
33	KURUKSHETRA	PEHOWA	JPSS-2	30.09572	76.56777	01:10:07	N	2.80
34	KURUKSHETRA	PEHOWA	JPSS-2	30.09634	76.57173	01:10:07	N	2.80
35	KURUKSHETRA	THANESAR	JPSS-2	29.99465	76.81704	01:10:07	N	4.70
36	PALWAL	HODAL	JPSS-2	28.00142	77.36724	01:10:07	N	3.20
37	PALWAL	PALWAL	JPSS-2	28.08367	77.39088	01:10:07	N	3.80
38	PALWAL	PALWAL	JPSS-2	28.08427	77.39475	01:10:07	N	3.80
39	PALWAL	PALWAL	JPSS-2	28.17142	77.49341	01:10:07	N	4.50
40	PANCHKULA	RAIPUR RANI	S-NPP	30.56427	76.99055	13:46:30	D	2.70
41	PANIPAT	PANIPAT	JPSS-1	29.41219	77.03293	02:10:41	N	2.50
42	PANIPAT	SANAULI KHURD	JPSS-1	29.40987	77.03493	02:10:41	N	2.00
43	SIRSA	RANIA	JPSS-2	29.56562	74.80076	01:10:07	N	10.30
44	SIRSA	SIRSA	JPSS-1	29.46836	74.99435	02:10:41	N	3.00
45	SONIPAT	GANAUR	JPSS-2	29.13070	77.00296	01:10:07	N	5.50
46	SONIPAT	GANAUR	JPSS-1	29.15045	77.01626	02:10:41	N	1.50
47	SONIPAT	GANAUR	JPSS-2	29.15475	76.95773	01:10:07	N	2.10
48	SONIPAT	GANAUR	JPSS-2	29.16008	77.01324	01:10:07	N	1.90
49	SONIPAT	MURTHAL	JPSS-2	29.04531	77.02422	01:10:07	N	5.20
50	SONIPAT	SONIPAT	JPSS-2	28.95089	76.96262	01:10:07	N	2.40
51	SONIPAT	SONIPAT	JPSS-2	28.96341	77.02064	01:10:07	N	2.90
52	SONIPAT	SONIPAT	S-NPP	29.00631	77.12145	13:46:30	D	2.70
53	SONIPAT	SONIPAT	S-NPP	29.02837	76.83965	13:46:30	D	2.90
54	YAMUNANAGAR	BILASPUR	S-NPP	30.39203	77.30776	13:46:30	D	3.20
55	YAMUNANAGAR	RADAUR	S-NPP	30.09554	77.08656	13:46:30	D	2.70

### Details of residue burning events in Uttar Pradesh on 11-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	ATRAULI	JPSS-2	27.84372	78.43302	01:10:07	N	3.80
2	ALIGARH	GABHANA	JPSS-2	27.99977	78.04433	01:10:07	N	5.10
3	ALIGARH	GABHANA	JPSS-2	28.01878	77.78638	01:10:07	N	4.50
4	ALIGARH	GABHANA	JPSS-2	28.10306	77.80189	01:10:07	N	2.50
5	ALIGARH	GABHANA	S-NPP	28.10357	77.78136	13:46:30	D	2.70
6	ALIGARH	KHAIR	JPSS-2	27.93024	77.54082	01:10:07	N	1.70
7	ALIGARH	KHAIR	JPSS-1	27.94709	77.69927	12:10:07	D	4.00
8	ALIGARH	KHAIR	JPSS-2	27.95352	77.69158	01:10:07	N	4.90
9	ALIGARH	KHAIR	JPSS-1	27.96173	77.54997	02:10:41	N	3.40
10	ALIGARH	KHAIR	JPSS-1	27.96227	77.54837	02:10:41	N	6.70
11	ALIGARH	KHAIR	S-NPP	27.97918	77.61460	13:46:30	D	2.80
12	ALIGARH	KHAIR	JPSS-2	27.98161	77.61043	01:10:07	N	2.90
13	ALIGARH	KHAIR	S-NPP	27.98571	77.55836	13:46:30	D	3.30
14	ALIGARH	KHAIR	JPSS-2	27.98637	77.55371	01:10:07	N	2.10
15	ALIGARH	KHAIR	S-NPP	28.00824	77.53407	13:46:30	D	1.70
16	ALIGARH	KHAIR	S-NPP	28.01237	77.53352	13:46:30	D	6.20
17	ALIGARH	KHAIR	JPSS-2	28.01653	77.55178	01:10:07	N	2.60
18	ALIGARH	KOL	JPSS-2	27.83729	78.11521	01:10:07	N	2.10
19	ALIGARH	KOL	S-NPP	27.85641	78.18310	13:46:30	D	3.30
20	ALIGARH	KOL	JPSS-1	27.85929	78.19014	12:10:07	D	3.40
21	ALIGARH	KOL	S-NPP	27.91621	78.15327	13:46:30	D	3.00
22	ALIGARH	KOL	JPSS-2	27.91748	78.24342	01:10:07	N	3.10
23	BADAUN	BISAULI	JPSS-2	28.27746	78.79257	01:10:07	N	5.00
24	BAGHPAT	BAGHPAT	JPSS-2	28.79979	77.37050	01:10:07	N	3.10
25	BARABANKI	FATEHPUR	JPSS-2	27.11806	81.27836	01:10:07	N	3.40
26	BARABANKI	FATEHPUR	JPSS-2	27.12517	81.22165	01:10:07	N	4.60
27	BARABANKI	FATEHPUR	JPSS-2	27.17271	81.25771	01:10:07	N	8.60
28	BARABANKI	FATEHPUR	JPSS-2	27.19238	81.18507	01:10:07	N	3.60
29	BULANDSAHAR	ANUP SHAHR	JPSS-2	28.40754	78.06235	02:10:11	N	0.10
30	ETAH	JALESAR	S-NPP	27.42311	78.45165	13:46:30	D	1.20

31	ETAH	JALESAR	S-NPP	27.42745	78.45109	13:46:30	D	3.10
32	ETAH	JALESAR	JPSS-2	27.42778	78.44658	01:10:07	N	3.40
33	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	JPSS-2	28.37032	77.56679	01:10:07	N	2.30
34	GAUTAMBUDHNAGAR	JEVAR	JPSS-2	28.09456	77.54839	01:10:07	N	5.40
35	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.11163	77.54247	13:46:30	D	3.90
36	GAUTAMBUDHNAGAR	JEVAR	JPSS-2	28.12052	77.51934	01:10:07	N	4.80
37	GAUTAMBUDHNAGAR	JEVAR	JPSS-2	28.12232	77.53096	01:10:07	N	2.70
38	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.15603	77.50730	13:46:30	D	5.30
39	HAPUR	HAPUR	JPSS-2	28.59807	77.74627	01:10:07	N	1.90
40	HARDOI	BILGRAM	JPSS-2	26.98756	80.22816	01:10:07	N	4.90
41	HATHRAS	SIKANDRA RAO	JPSS-1	27.60345	78.21365	12:10:07	D	2.10
42	HATHRAS	SIKANDRA RAO	JPSS-2	27.70661	78.33450	01:10:07	N	1.70
43	MAINPURI	BHOGAON	S-NPP	27.15642	79.12175	13:46:30	D	6.40
44	MAINPURI	BHOGAON	S-NPP	27.15721	79.11839	13:46:30	D	5.80
45	MAINPURI	MAINPURI	S-NPP	27.13732	79.05503	13:46:30	D	3.80
46	MATHURA	CHHATA	JPSS-2	27.69629	77.61783	01:10:07	N	2.70
47	MATHURA	CHHATA	JPSS-1	27.77607	77.43536	02:10:41	N	3.70
48	MATHURA	CHHATA	S-NPP	27.78877	77.37143	13:46:30	D	2.30
49	MATHURA	CHHATA	JPSS-2	27.79026	77.36847	01:10:07	N	8.90
50	MATHURA	CHHATA	S-NPP	27.79578	77.65987	13:46:30	D	3.50
51	MATHURA	CHHATA	JPSS-1	27.79646	77.66257	02:10:41	N	3.40
52	MATHURA	CHHATA	JPSS-2	27.80089	77.54559	01:10:07	N	2.10
53	MATHURA	MAT	JPSS-1	27.72979	77.76177	12:10:07	D	3.00
54	MATHURA	MAT	JPSS-2	27.88402	77.55319	01:10:07	N	6.80
55	MATHURA	MAT	S-NPP	27.93739	77.67099	13:46:30	D	4.60
56	MEERUT	MEERUT	S-NPP	28.88070	77.74222	13:46:30	D	2.30
57	MORADABAD	BILARI	JPSS-2	28.57816	78.85268	01:10:07	N	3.70
58	MORADABAD	BILARI	JPSS-2	28.58952	78.78914	01:10:07	N	2.70
59	MORADABAD	BILARI	JPSS-2	28.61487	78.87050	01:10:07	N	1.80
60	MORADABAD	BILARI	S-NPP	28.65373	78.68579	13:46:30	D	3.10
61	PILHIBHIT	PURANPUR	JPSS-2	28.52290	79.99422	01:10:07	N	2.70
62	RAMPUR	BILASPUR	JPSS-1	28.89847	79.33182	01:10:07	N	0.70
63	RAMPUR	MILAK	JPSS-2	28.57405	79.15355	01:10:07	N	3.60
64	SAMBHAL	SAMBHAL	JPSS-2	28.53933	78.60690	01:10:07	N	2.30

65	SAMBHAL	SAMBHAL	S-NPP	28.56387	78.57997	13:46:30	D	3.60
66	SAMBHAL	SAMBHAL	JPSS-1	28.62367	78.64068	02:10:41	N	2.40
67	SAMBHAL	SAMBHAL	JPSS-2	28.65158	78.53732	01:10:07	N	2.80
68	SAMBHAL	SAMBHAL	S-NPP	28.65654	78.53512	13:46:30	D	4.40
69	SAMBHAL	SAMBHAL	JPSS-2	28.66094	78.53149	01:10:07	N	6.30
70	SAMBHAL	SAMBHAL	S-NPP	28.66097	78.53456	13:46:30	D	4.60
71	SAMBHAL	SAMBHAL	JPSS-2	28.71295	78.63161	01:10:07	N	4.40
72	SHAHJAHANPUR	PUWANYA	AQUA	28.01600	79.93500	13:55:10	D	8.70
73	SHAHJAHANPUR	PUWANYA	JPSS-2	28.05332	79.93777	01:10:07	N	2.80
74	SHAHJAHANPUR	PUWANYA	JPSS-2	28.05808	80.18373	02:10:11	N	0.90
75	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.77428	79.87283	13:46:30	D	2.50
76	SHARANPUR	RAMPUR MANIHARRAN	JPSS-2	29.67511	77.43687	01:10:07	N	1.90
77	SITAPUR	LAHARPUR	AQUA	27.69900	80.88300	13:55:10	D	6.20
78	SITAPUR	LAHARPUR	S-NPP	27.68314	80.88655	13:46:30	D	2.60
79	SITAPUR	LAHARPUR	S-NPP	27.68343	80.88984	13:46:30	D	3.50
80	SITAPUR	MAHMUDABAD	AQUA	27.26700	81.19100	13:55:10	D	9.10
81	SITAPUR	MAHMUDABAD	JPSS-1	27.25272	81.19048	12:10:07	D	3.00
82	SITAPUR	MAHMUDABAD	JPSS-1	27.25357	81.18957	12:10:07	D	2.50
83	SITAPUR	MAHMUDABAD	JPSS-2	27.25405	81.19025	01:10:07	N	16.30
84	SITAPUR	MAHMUDABAD	JPSS-2	27.25453	81.18875	01:10:07	N	14.00
85	SITAPUR	MAHMUDABAD	JPSS-1	27.26371	81.14587	12:10:07	D	1.10
86	SITAPUR	MAHMUDABAD	JPSS-2	27.29490	81.19746	01:10:07	N	4.40
87	UNNAO	SAFIPUR	JPSS-1	26.98497	80.29242	12:10:07	D	2.60



### Details of residue burning events in Rajasthan on 11-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BHARATPUR	NADBAI	S-NPP	27.20790	77.14926	13:46:30	D	2.60
2	BHARATPUR	NADBAI	JPSS-1	27.20827	77.15189	02:10:41	N	4.00
3	GANGANAGAR	GANGANAGAR	S-NPP	29.91194	73.95589	13:46:30	D	2.70
4	HANUMANGARH	SANGHRIYA	S-NPP	29.63264	74.40954	13:46:30	D	4.40
5	HANUMANGARH	TIBI	JPSS-1	29.58027	74.53211	02:10:41	N	1.20
6	HANUMANGARH	TIBI	JPSS-1	29.63912	74.55566	12:10:07	D	3.80

### Details of residue burning events in Madhya Pradesh on 11-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BETUL	BHAINSDEHI	JPSS-2	21.53312	77.95548	01:10:07	N	2.90
2	BHIND	LAHAR	JPSS-2	26.12443	78.83122	01:10:07	N	1.70
3	DAMOH	DAMOH	S-NPP	23.87944	79.50410	13:46:30	D	2.90
4	HARDA	TIMURNI	JPSS-2	22.44838	77.19778	01:10:07	N	2.50
5	JABALPUR	PATAN	JPSS-1	23.29118	79.71201	12:10:07	D	4.30
6	JABALPUR	PATAN	JPSS-2	23.34480	79.71394	01:10:07	N	2.50
7	JABALPUR	PATAN	JPSS-2	23.35431	79.77791	01:10:07	N	3.90
8	JABALPUR	PATAN	S-NPP	23.35475	79.78244	13:46:30	D	4.30
9	JABALPUR	PATAN	S-NPP	23.37910	79.73721	13:46:30	D	4.90
10	JABALPUR	PATAN	JPSS-2	23.37994	79.76626	01:10:07	N	3.50
11	JABALPUR	PATAN	S-NPP	23.38129	79.73562	13:46:30	D	4.00
12	JABALPUR	SAHPURA	JPSS-2	23.13739	79.43938	01:10:07	N	2.30
13	NARSHIMAPURA	GOTECAON	JPSS-2	22.95339	79.50599	01:10:07	N	3.30
14	NARSHIMAPURA	GOTECAON	JPSS-2	23.01586	79.39986	01:10:07	N	3.30
15	SAGAR	DEVRI	JPSS-2	23.49573	79.10747	01:10:07	N	2.70
16	SAGAR	REHLI	JPSS-2	23.66844	79.14984	01:10:07	N	3.60
17	SINGRAULI	DEOSAR	JPSS-2	24.20108	82.53049	02:10:11	N	1.40

## 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.	JPSS-1	VIIRS	375	Both
3.	JPSS-2	VIIRS	375	Both
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

### Study Team

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

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

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