

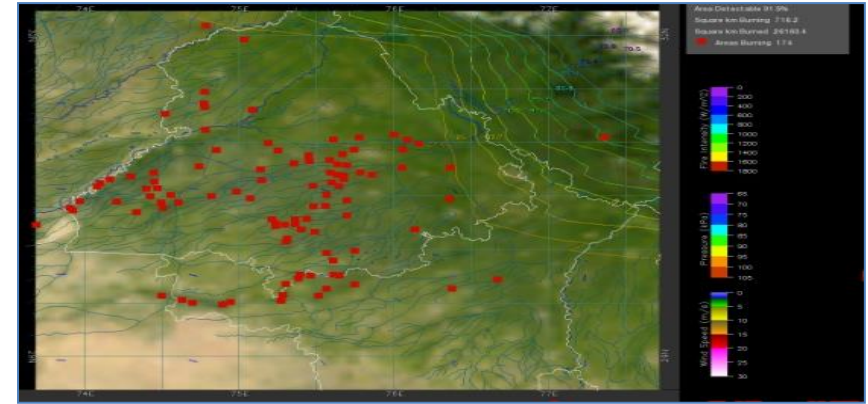
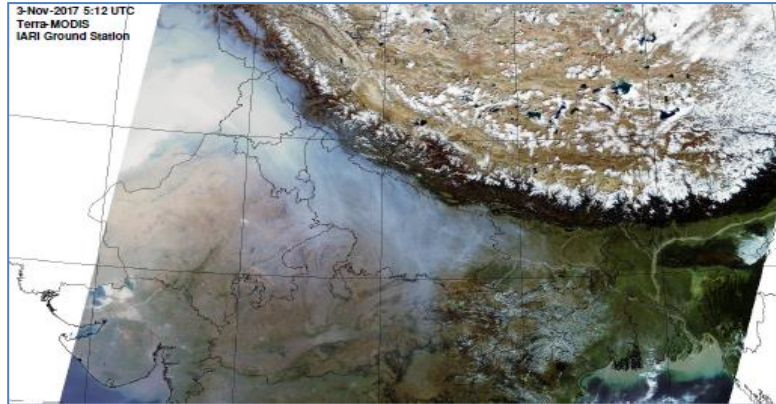


# MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin  
No. 44

Events Date:  
28-Oct-2024

Issued on:  
28-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

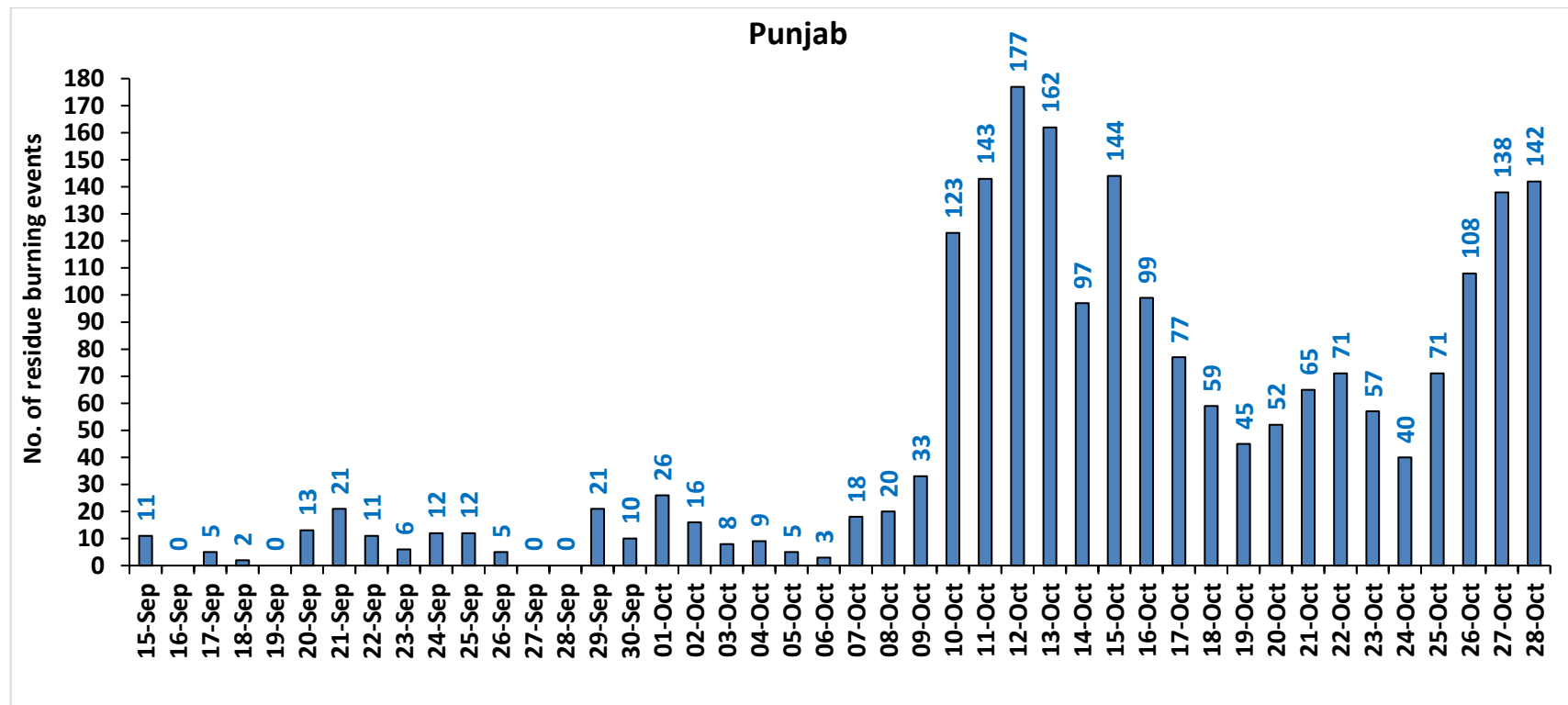
<https://creams.iari.res.in>



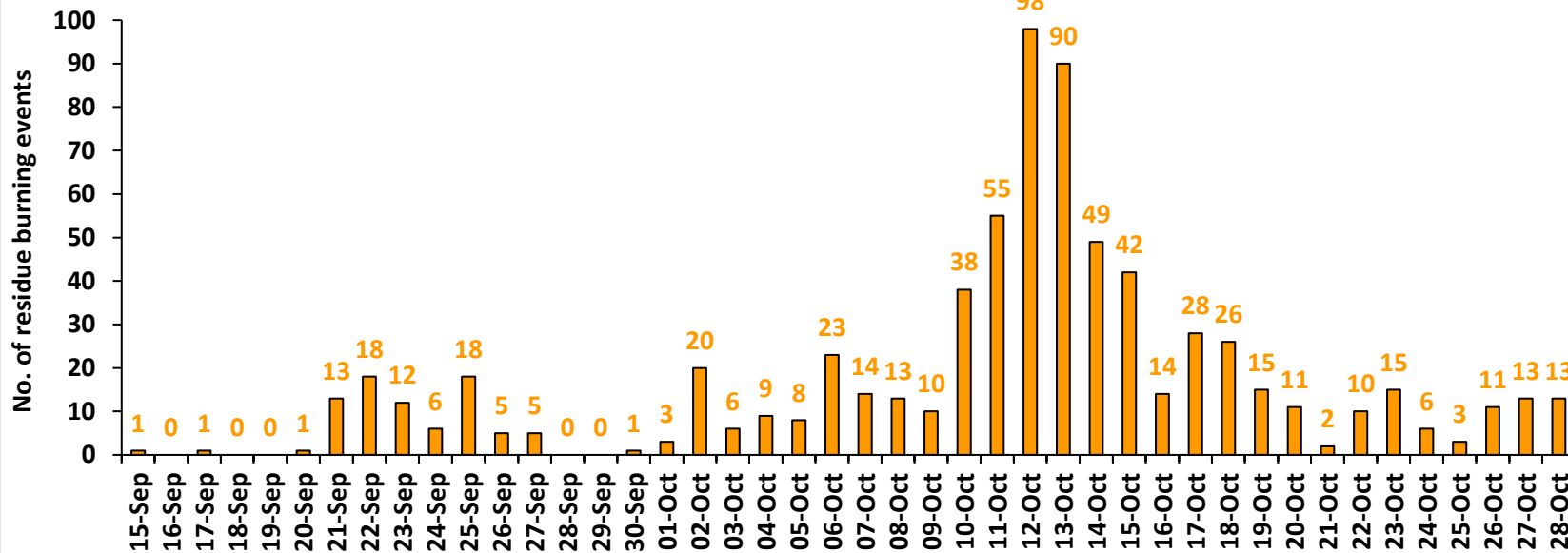
## Highlights for 28-Oct-2024

- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol " recommended by CAQM.
- Satellites detected **408** residue burning events in the six study States on **28-Oct-2024**.
- The state wise events detected on **28-Oct-2024** were **142** in Punjab, **13** in Haryana, **28** in UP, **00** in Delhi, **65** in Rajasthan and **160** in MP.
- Total **5745** burning events were detected in the six states between **15-Sept-2024** and **28-Oct-2024**, which are distributed as **2137**, **726**, **920**, **12**, **621** and **1329** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

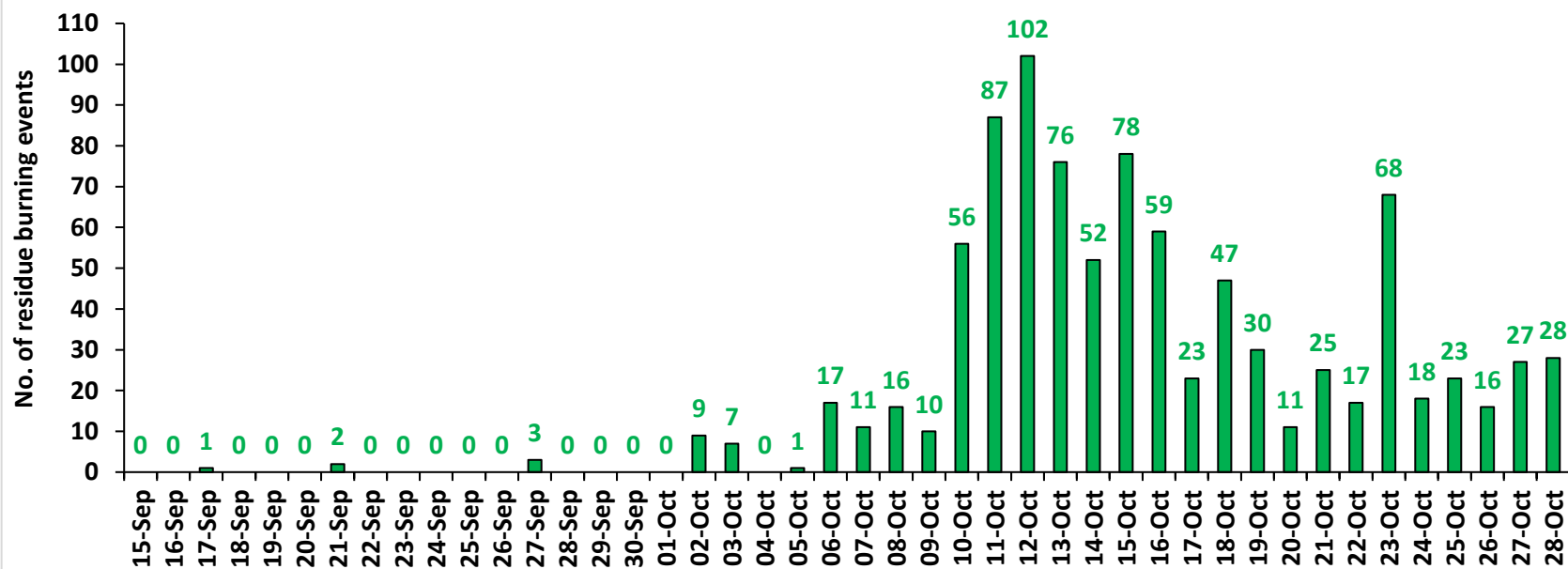
### Temporal distribution of rice residue burning events for the study States in 2024



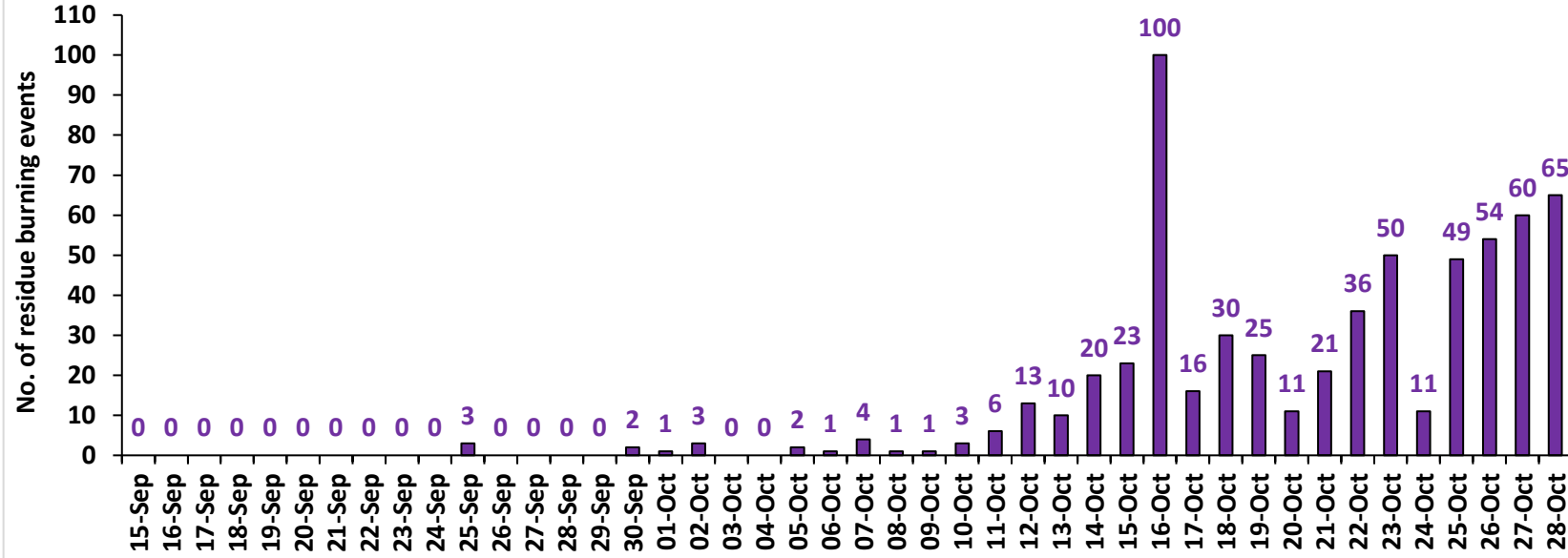
### Haryana



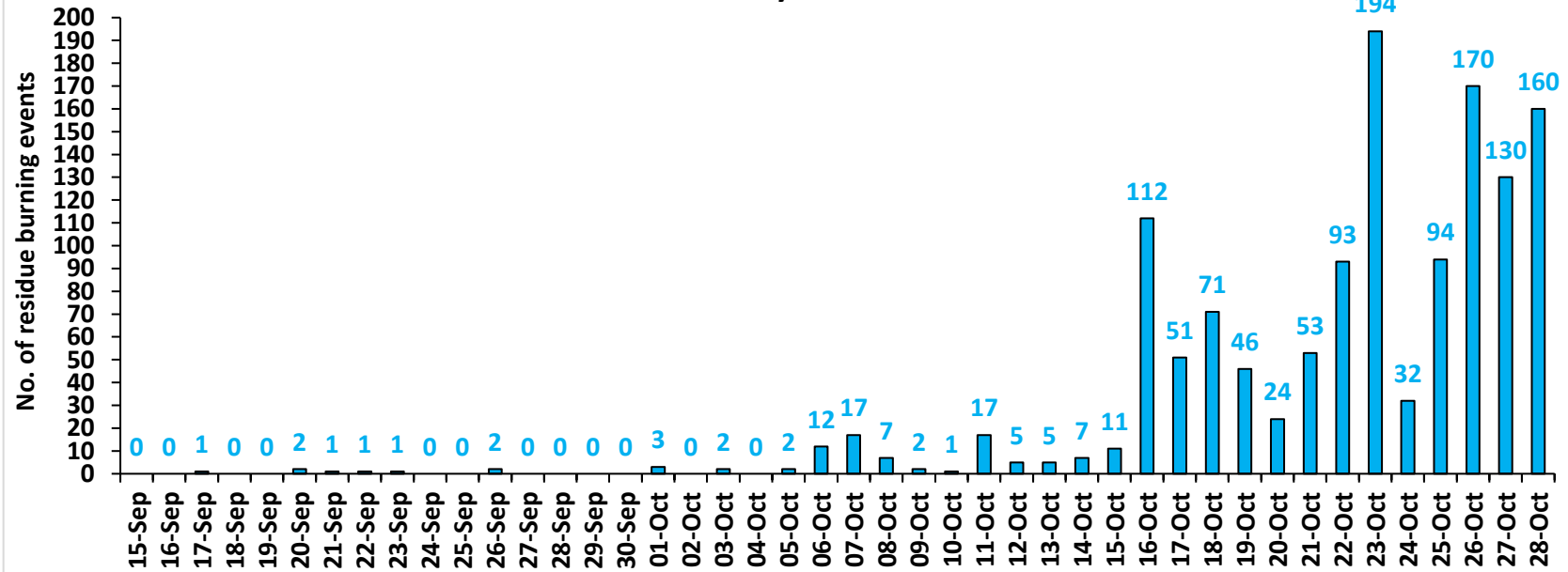
### Uttar Pradesh



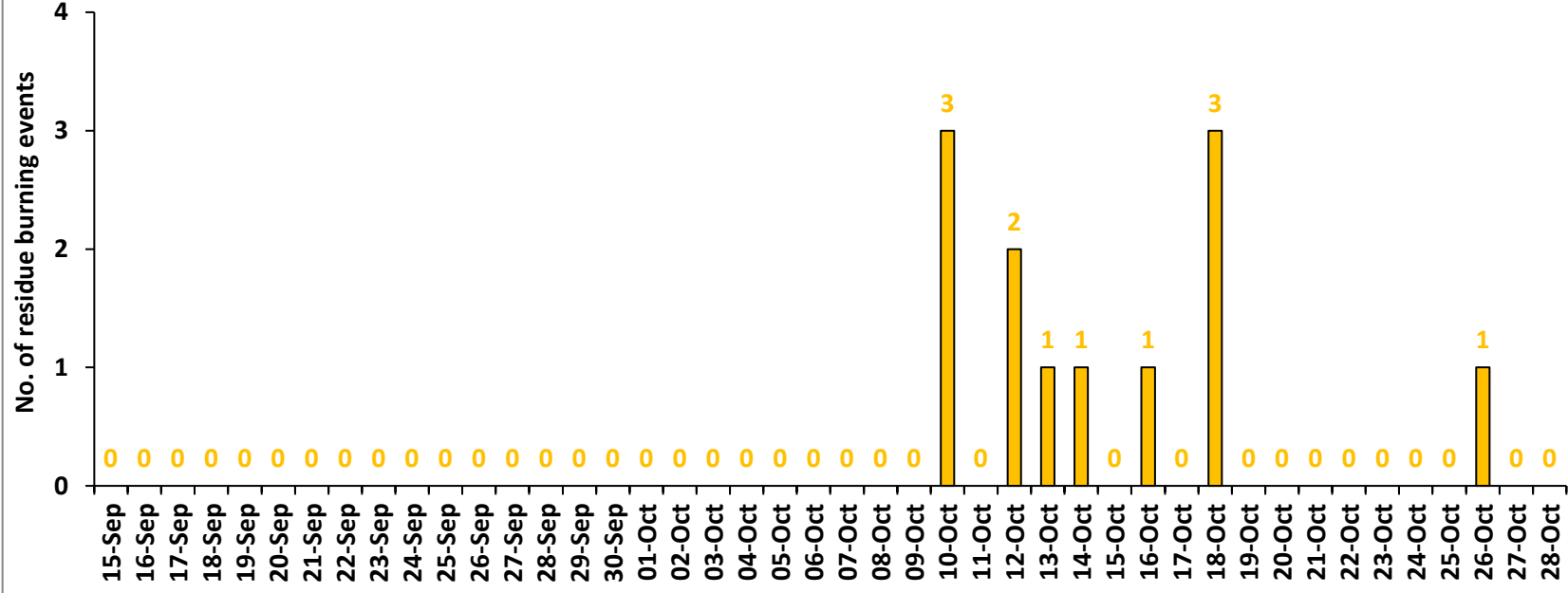
### Rajasthan



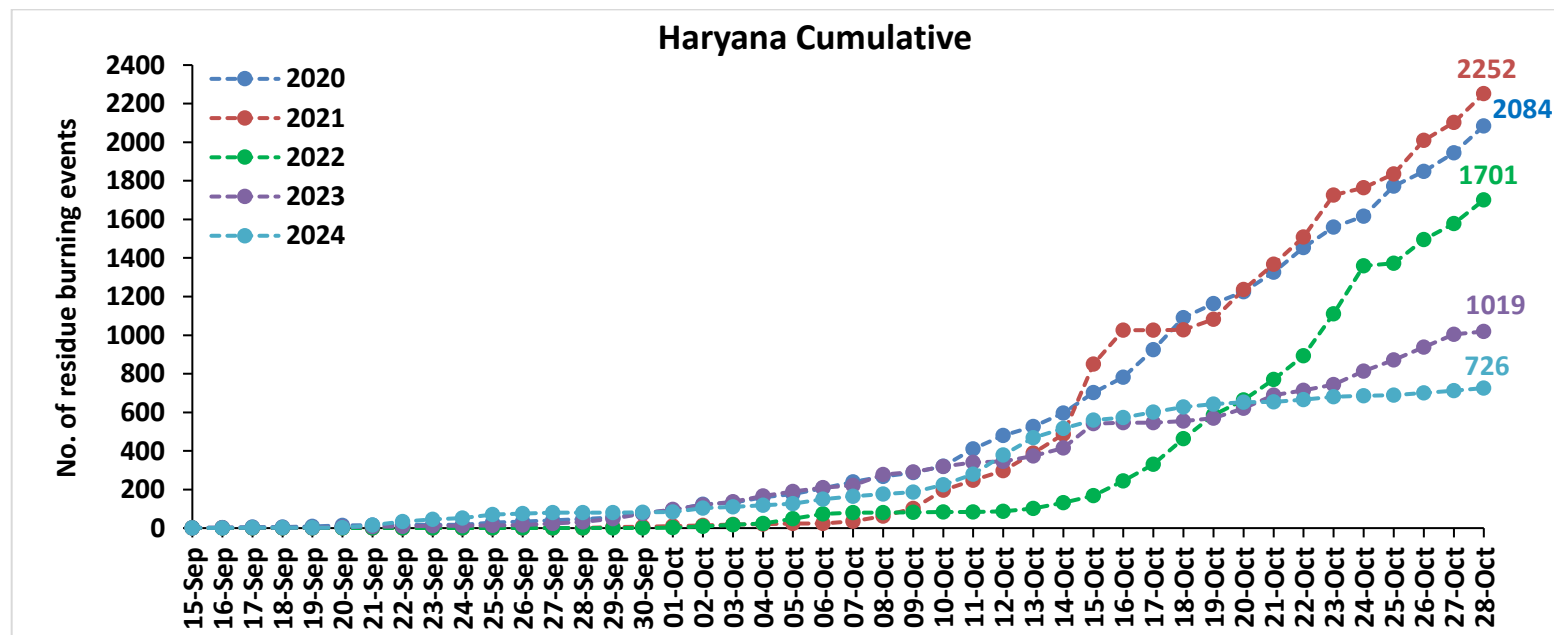
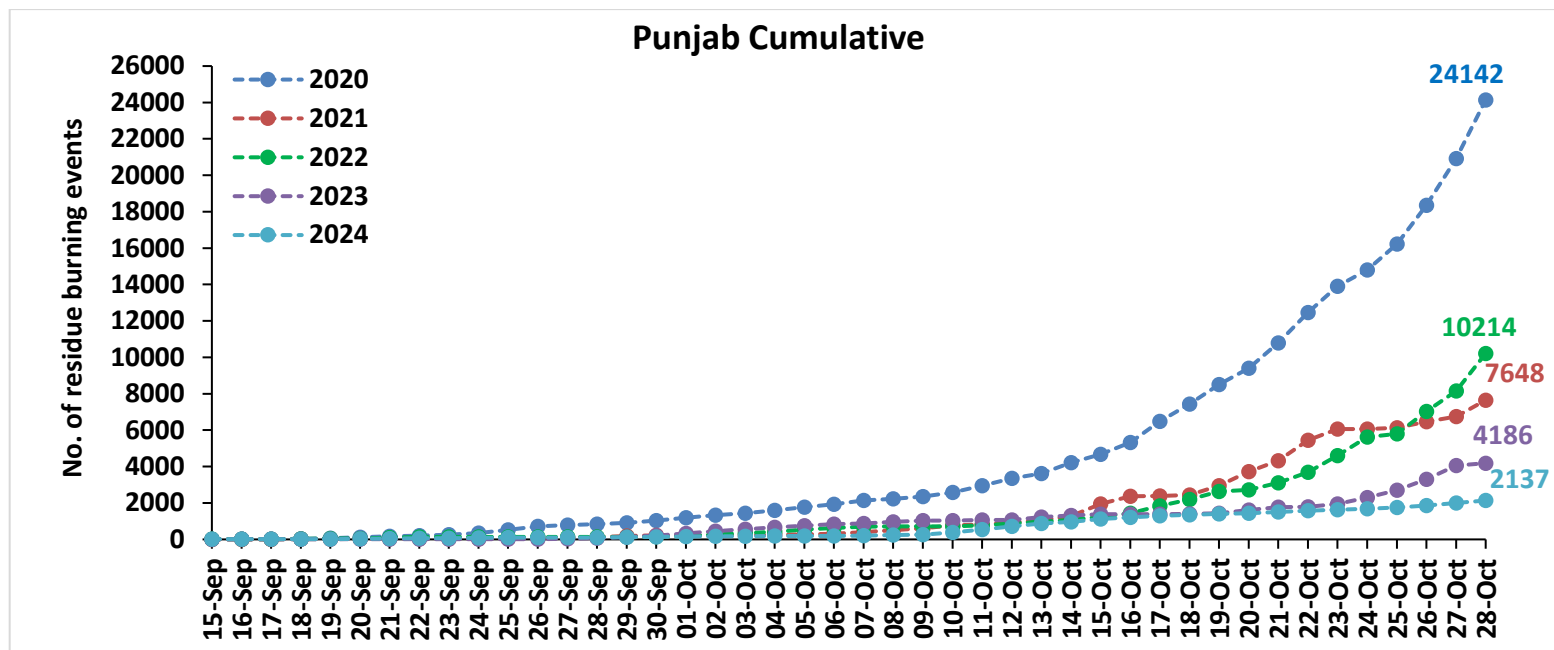
### Madhya Pradesh

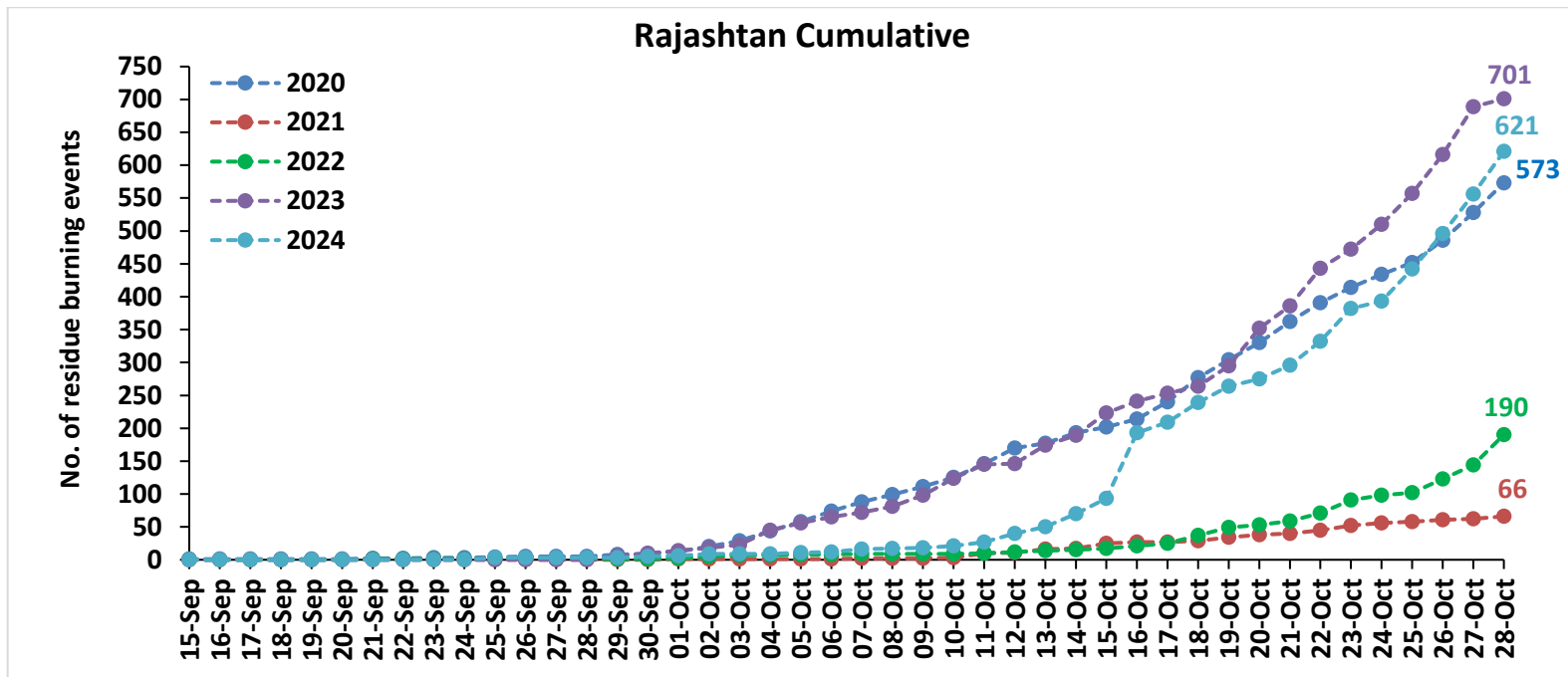
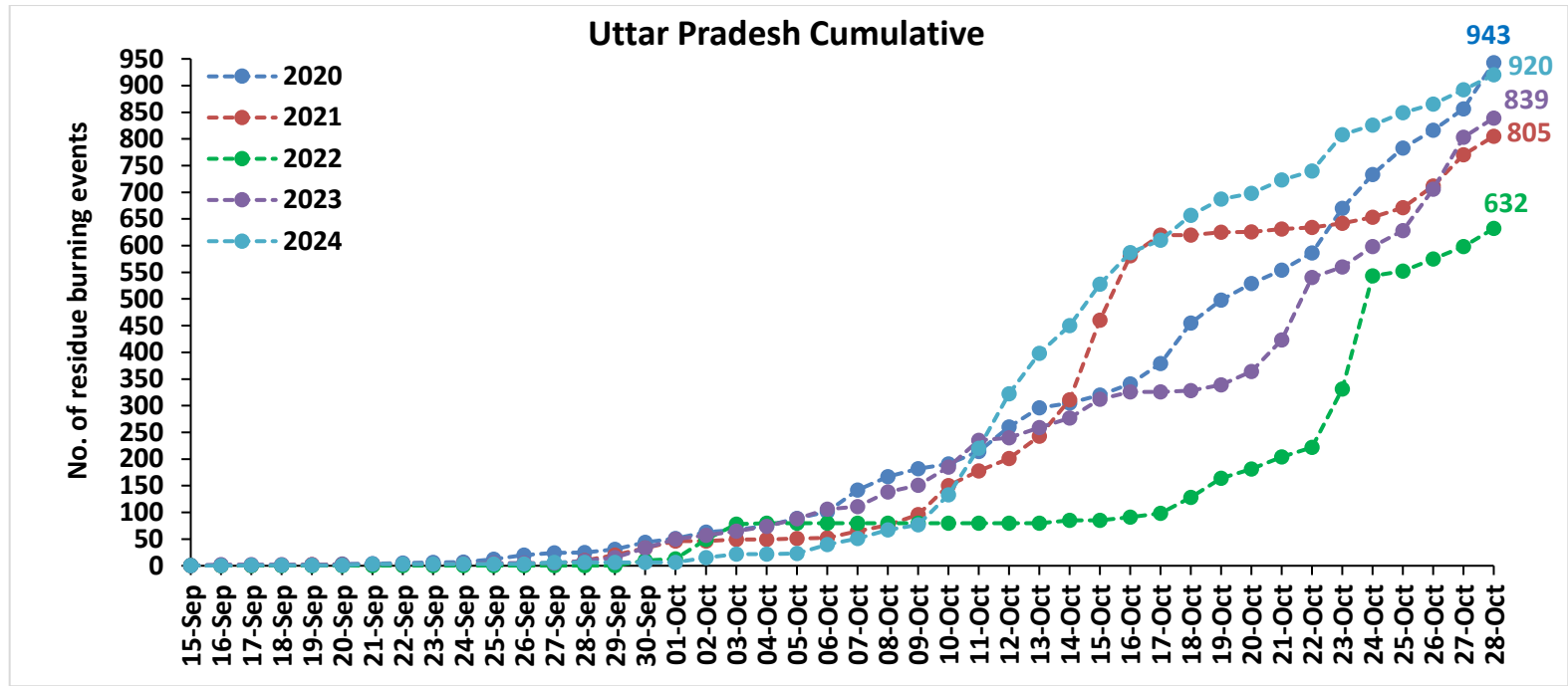


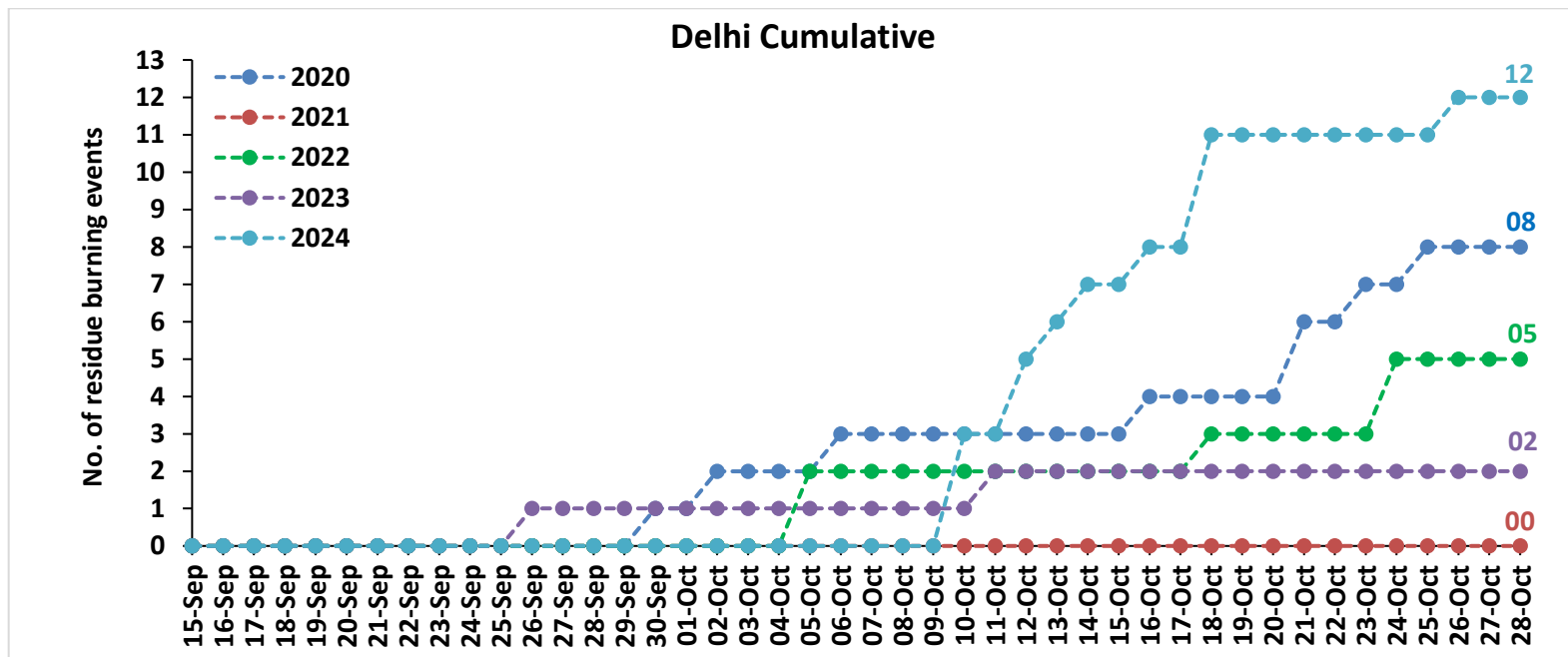
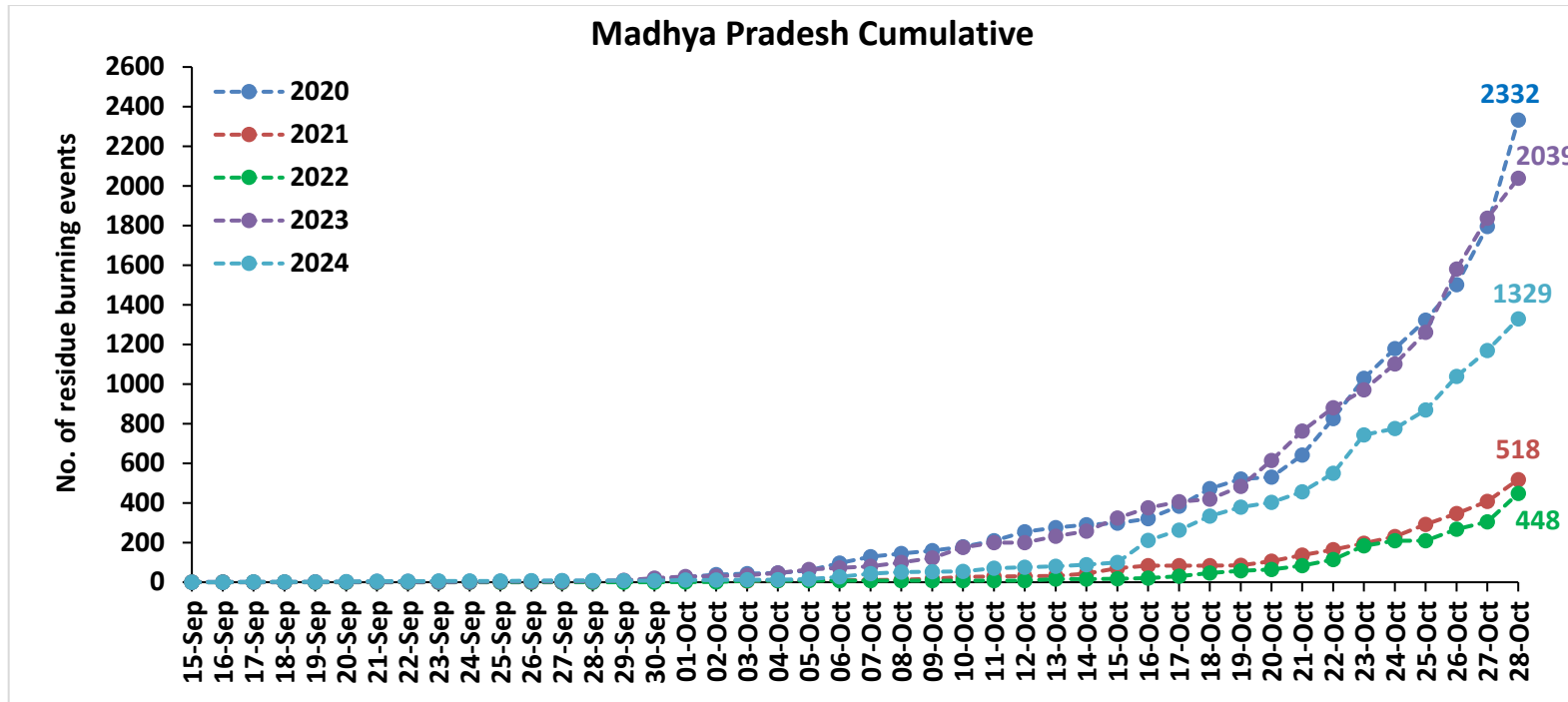
# Delhi



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

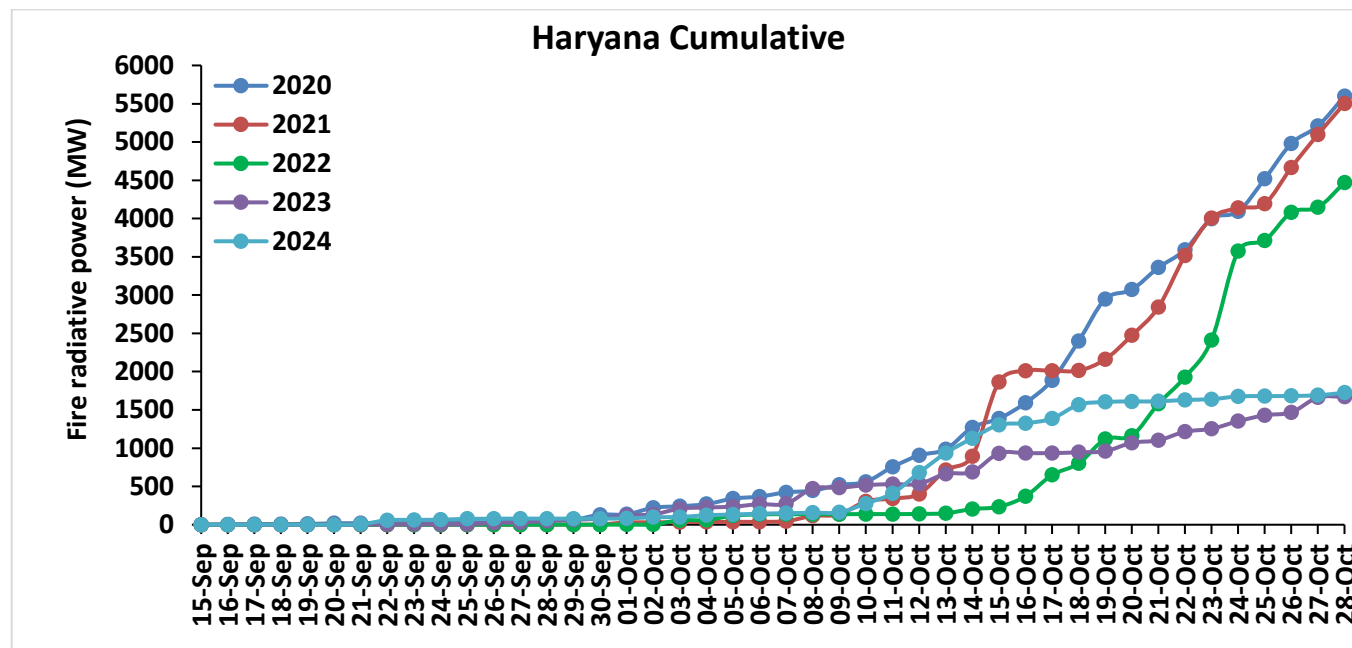
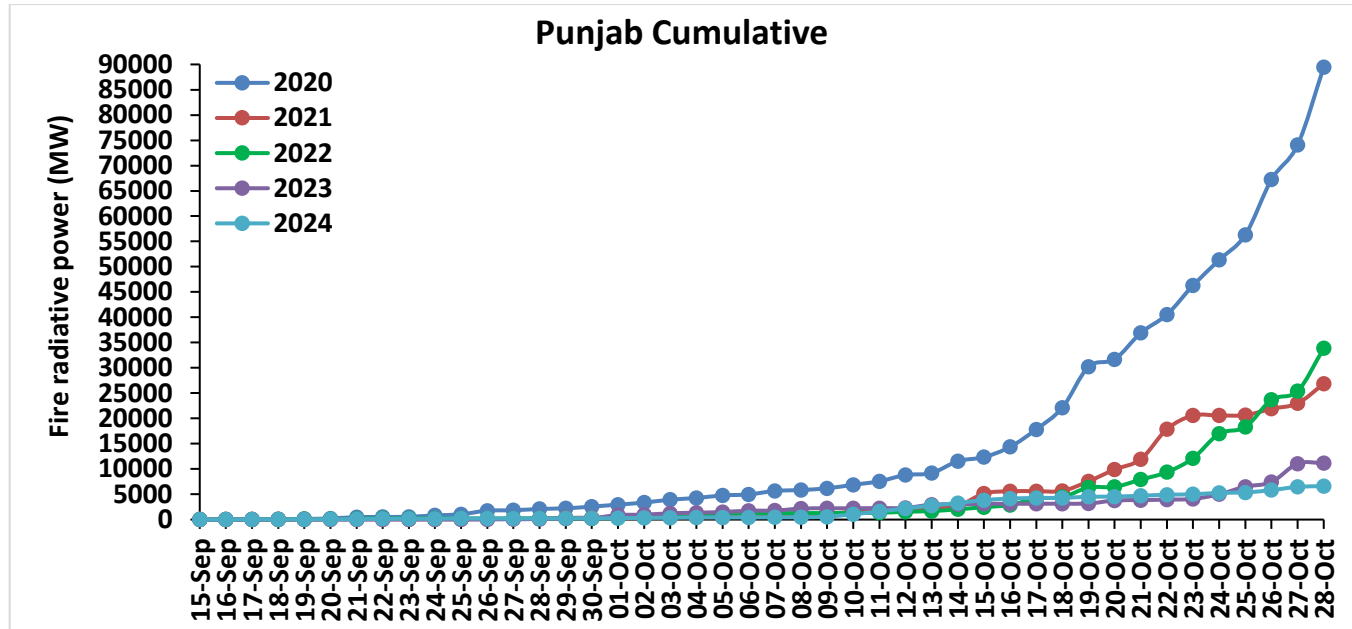




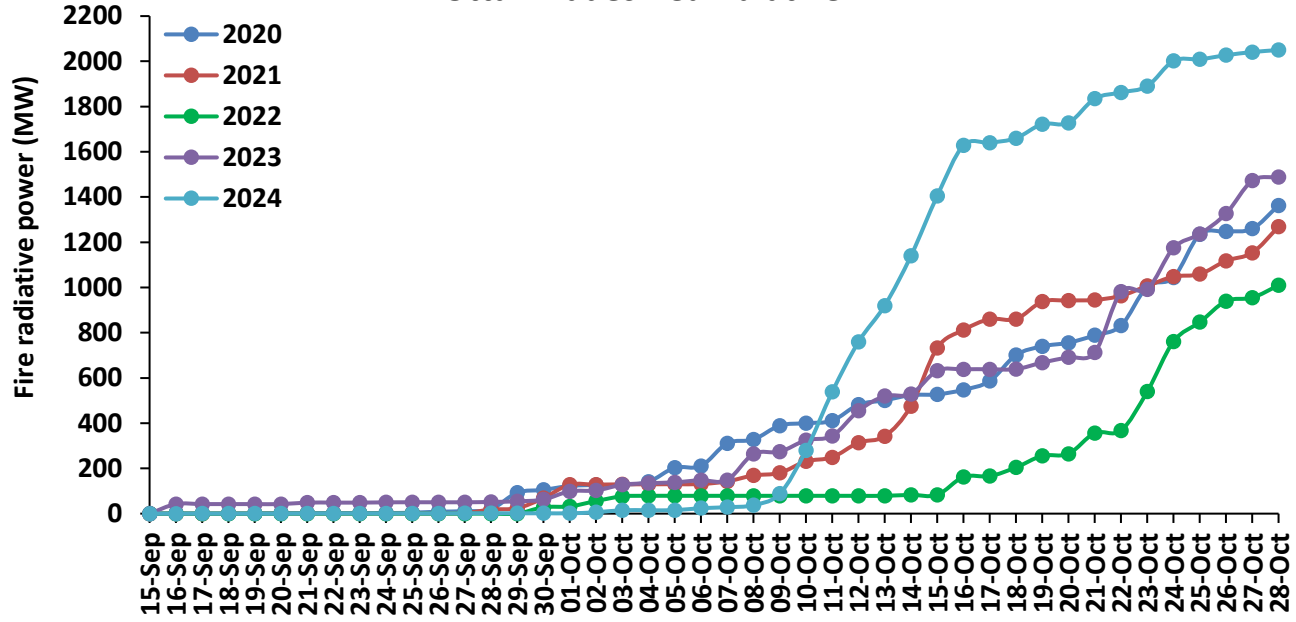




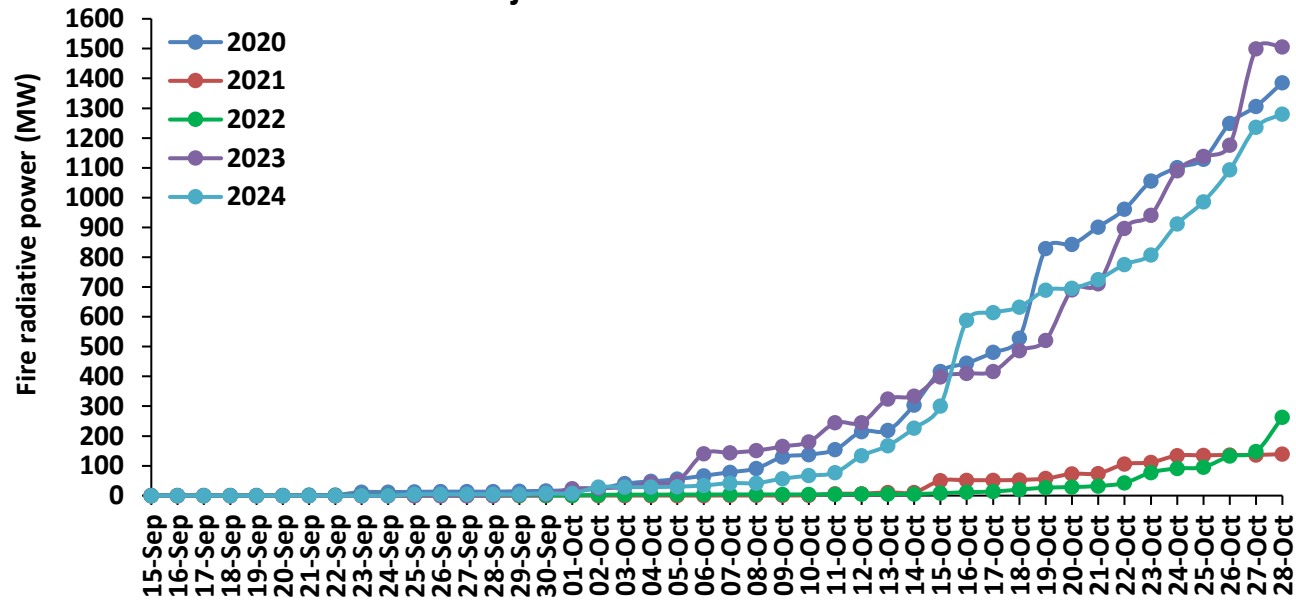
**Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States**



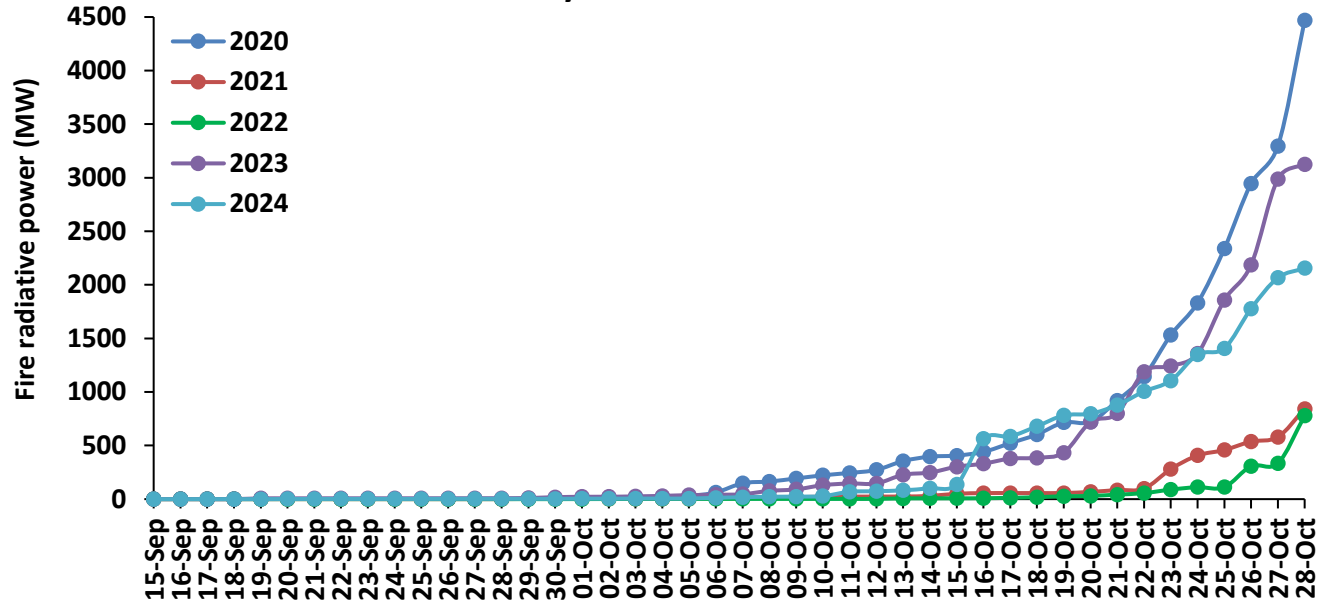
### Uttar Pradesh Cumulative



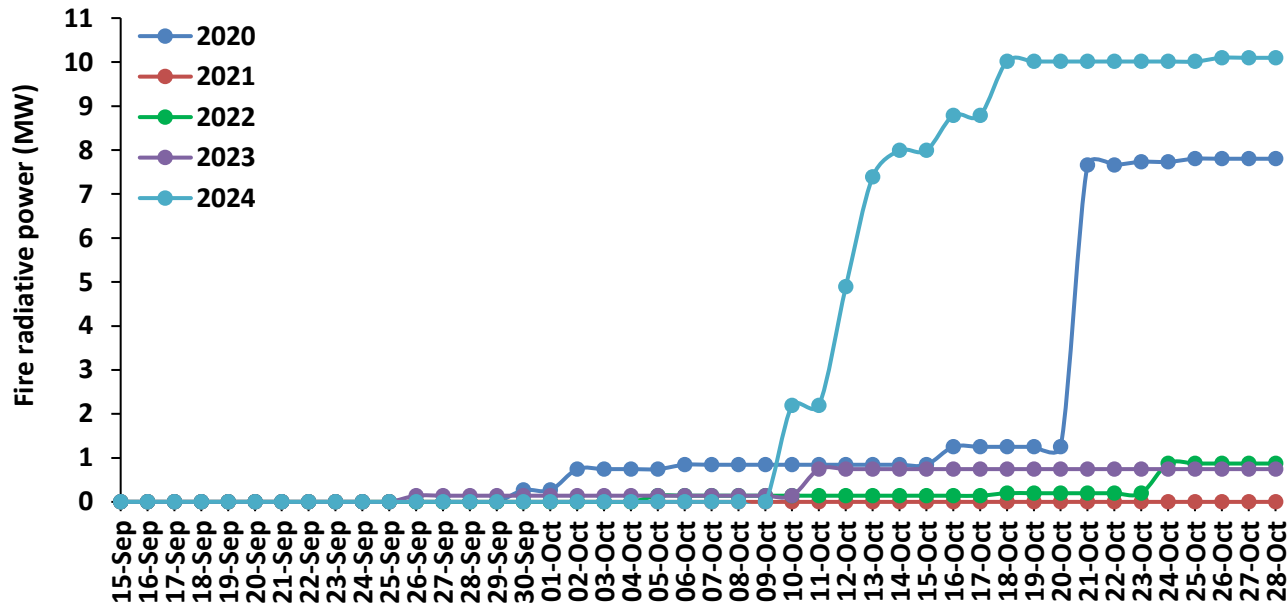
### Rajasthan Cumulative



### Madhya Pradesh Cumulative

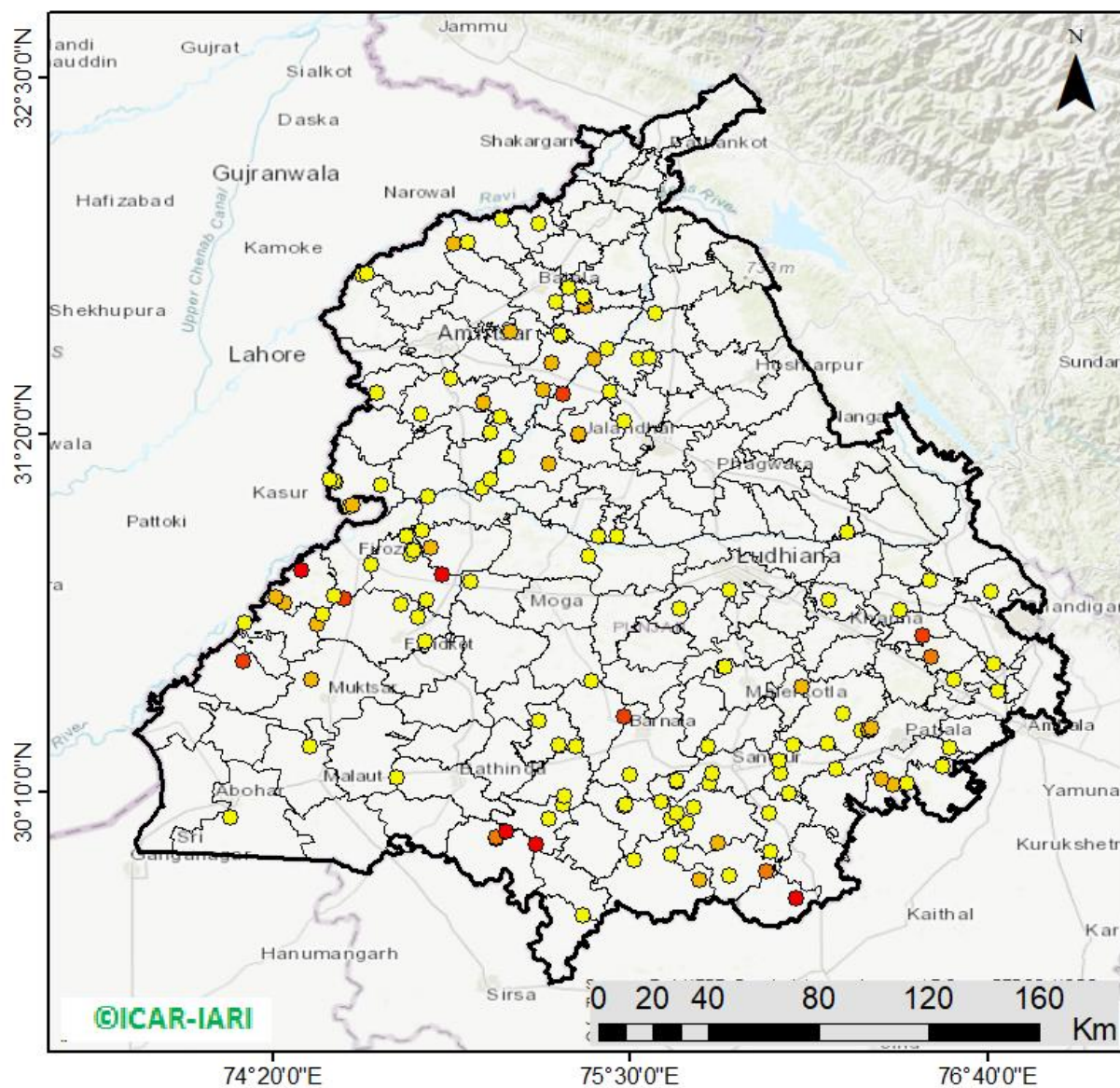


### Delhi Cumulative



## Punjab

### RICE RESIDUE BURNING IN PUNJAB



**142** burning events  
detected in Punjab during  
(28th Oct 2024)

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

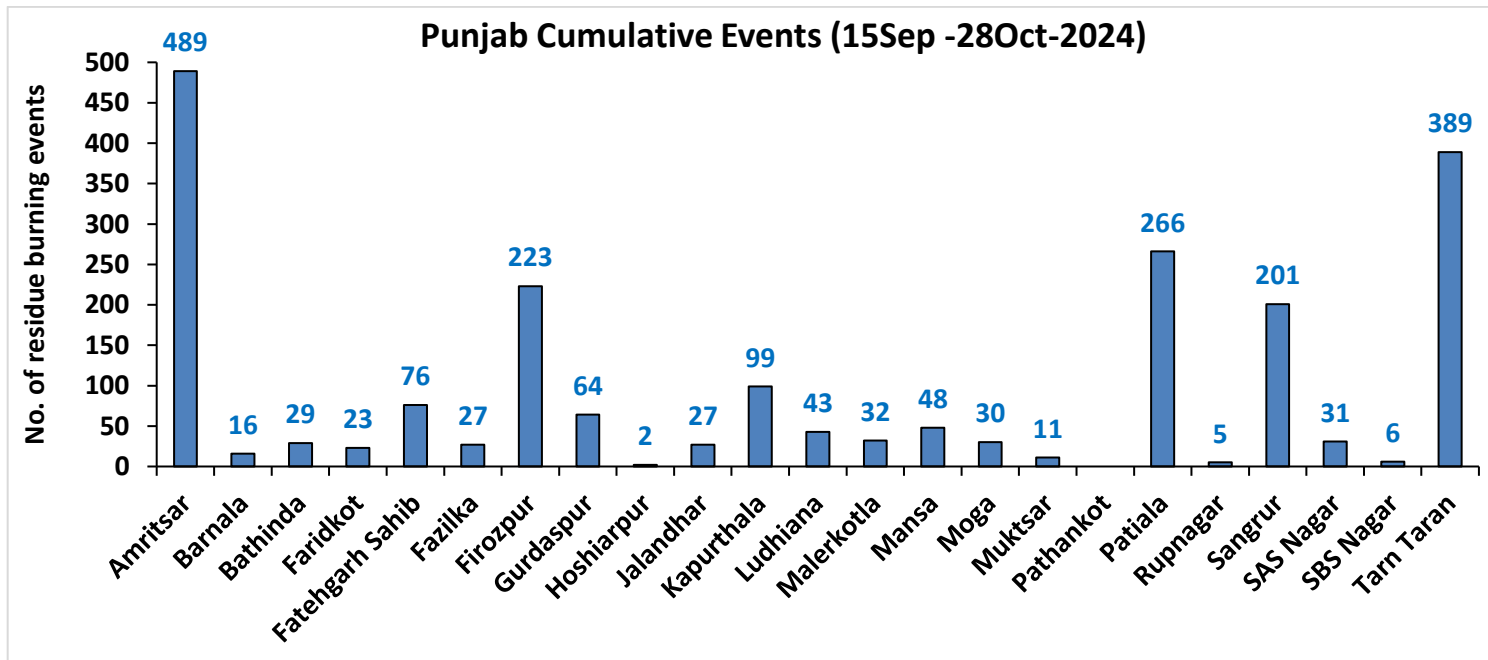
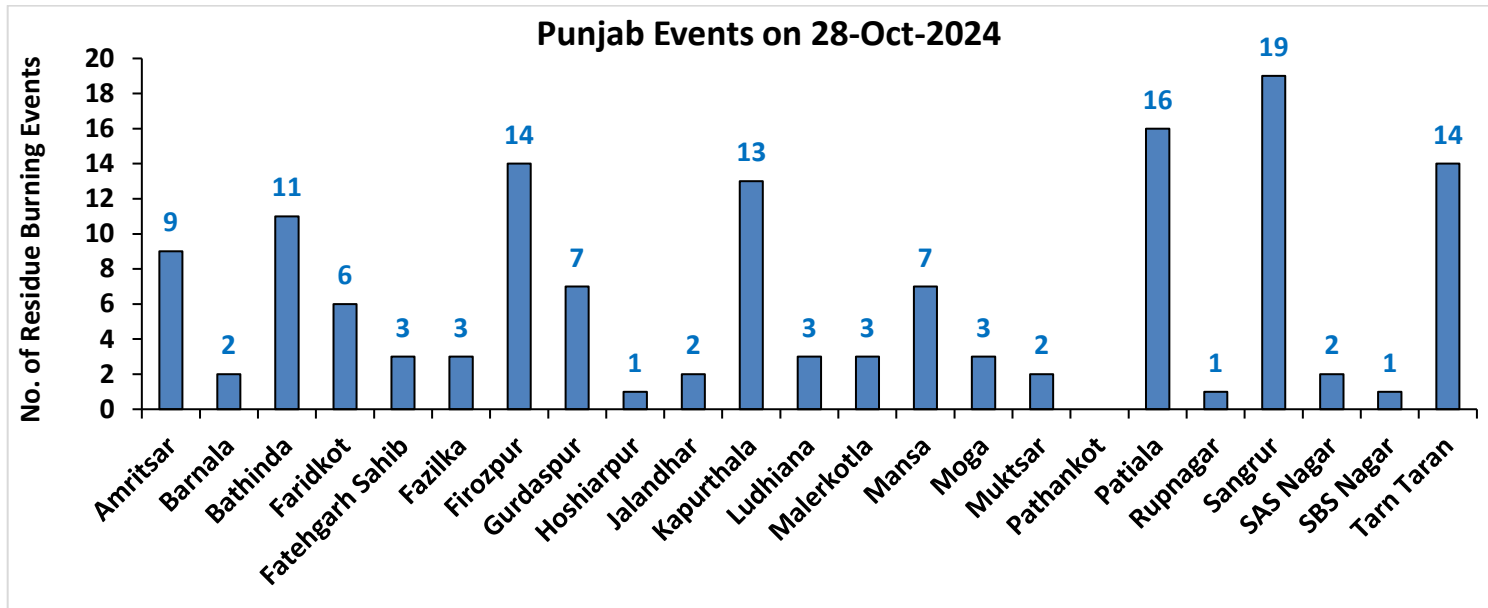
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



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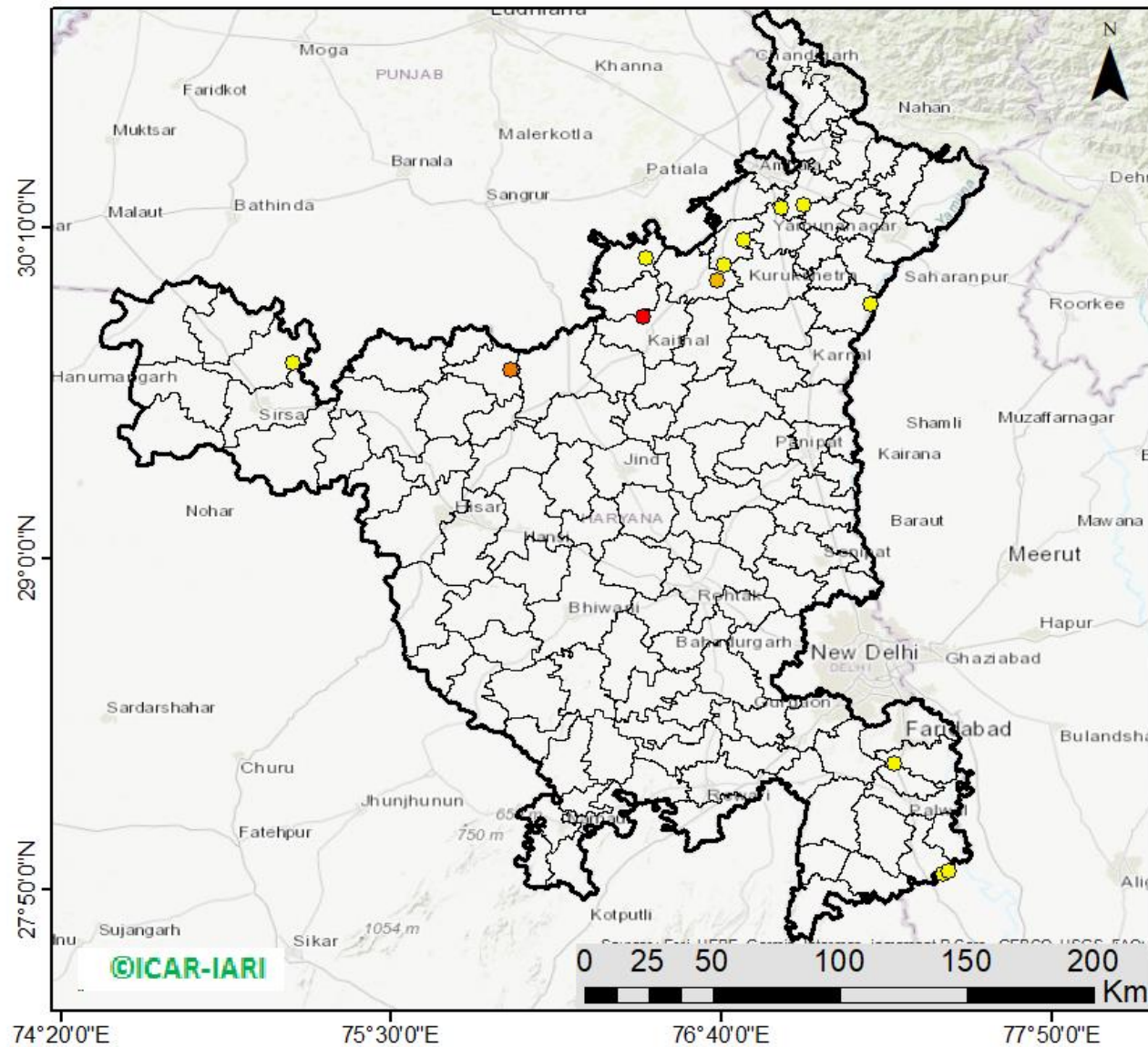
[http://103.111.37.126/icar\\_geportal/](http://103.111.37.126/icar_geportal/)

## District-wise cumulative number of residues burning events in Punjab (15Sep-28Oct-2024)



# Haryana

## RICE RESIDUE BURNING IN HARYANA



**13** burning events detected in Haryana on (28th Oct 2024)

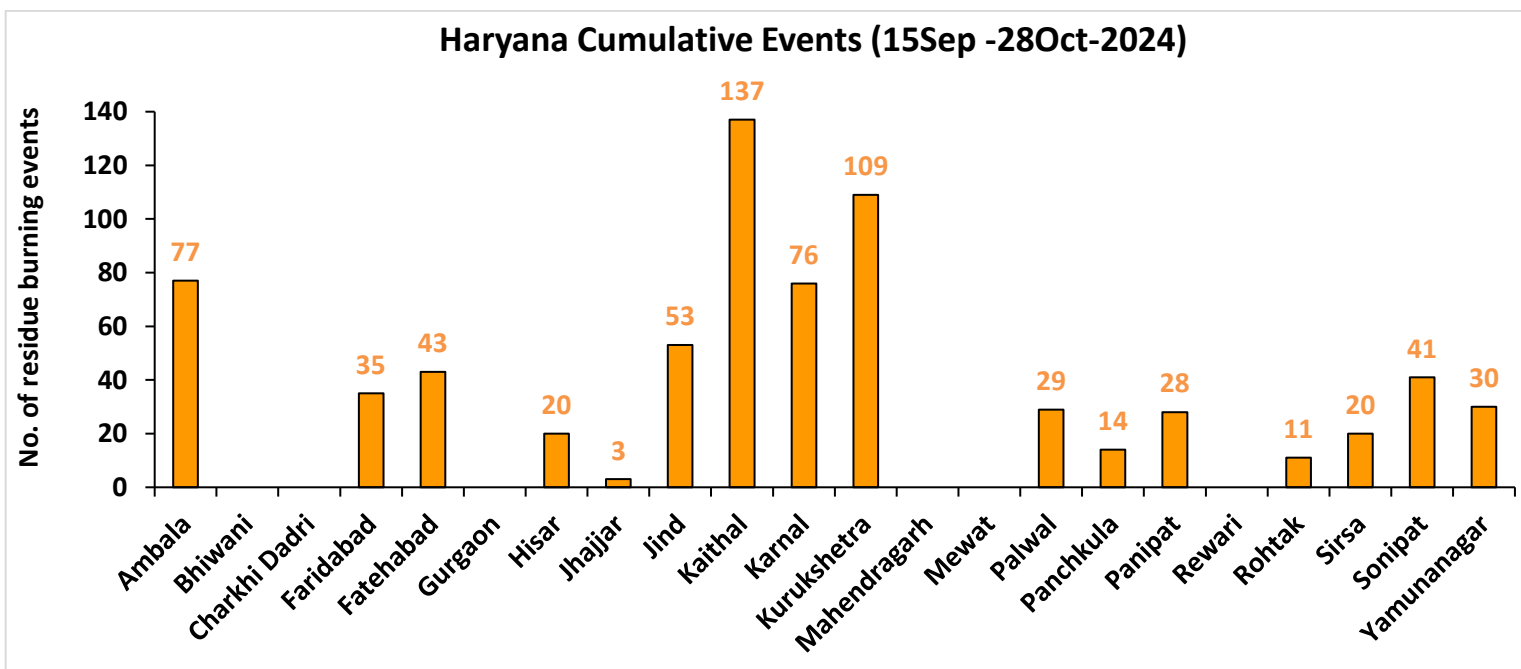
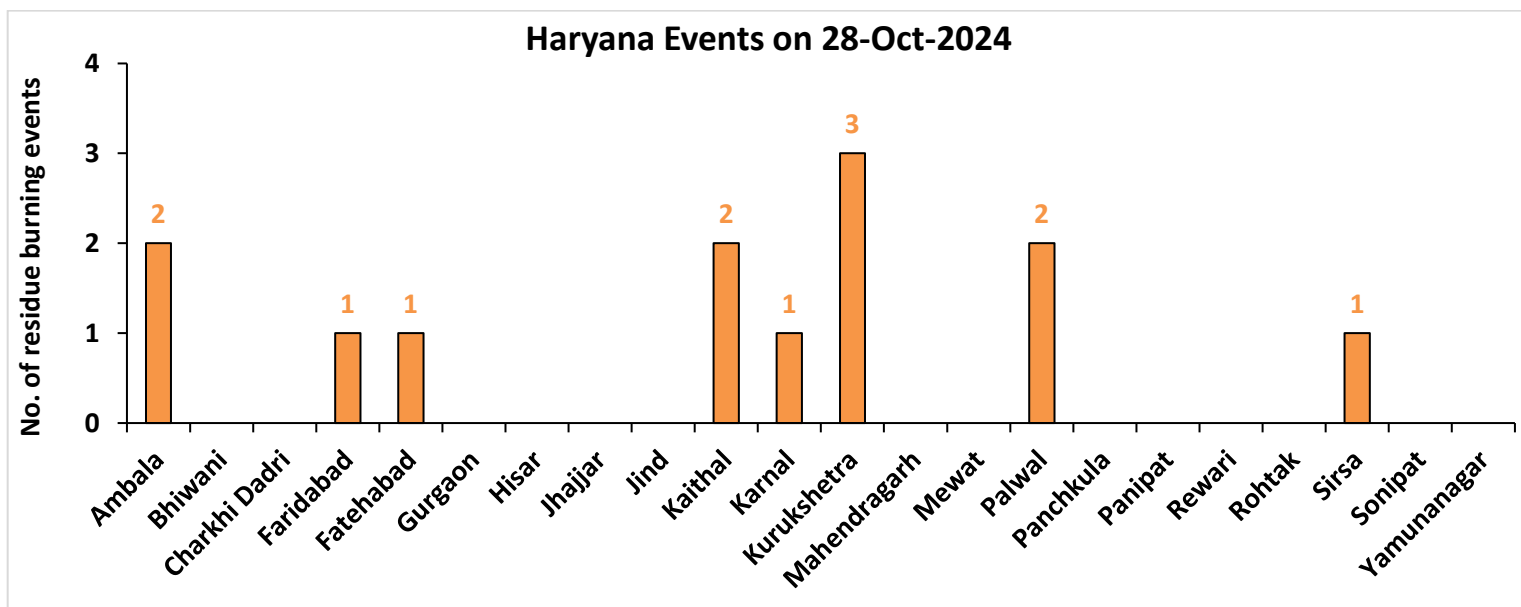
### Fire Intensity (W/m<sup>2</sup>)

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



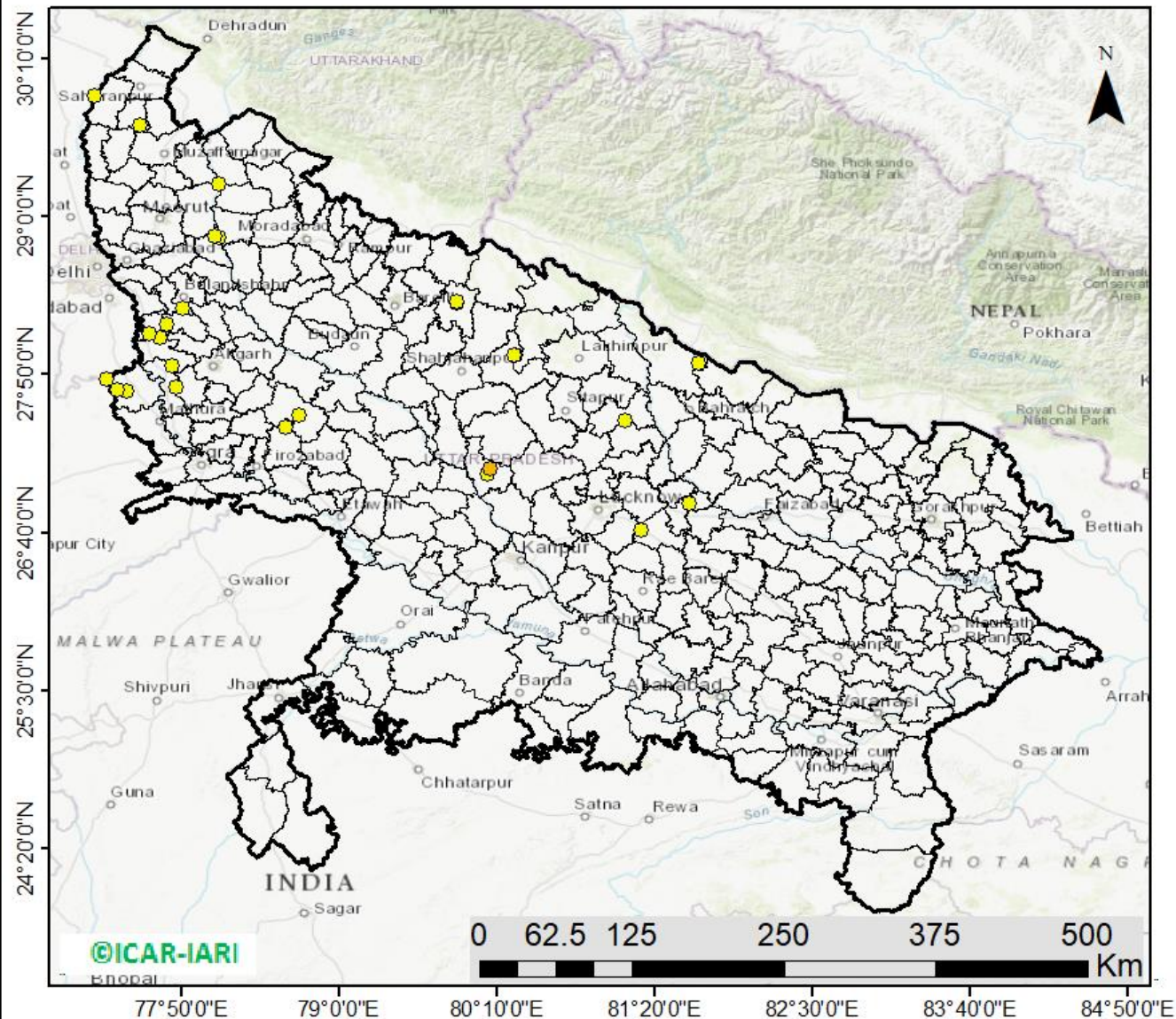
[http://103.111.37.126/icar\\_geoportal/](http://103.111.37.126/icar_geoportal/)

## District-wise cumulative number of residues burning events in Haryana (15Sep-28Oct-2024)



## Uttar Pradesh

### RICE RESIDUE BURNING IN UTTAR PRADESH



**28** burning events  
detected in Uttar Pradesh on  
(28th Oct 2024)

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

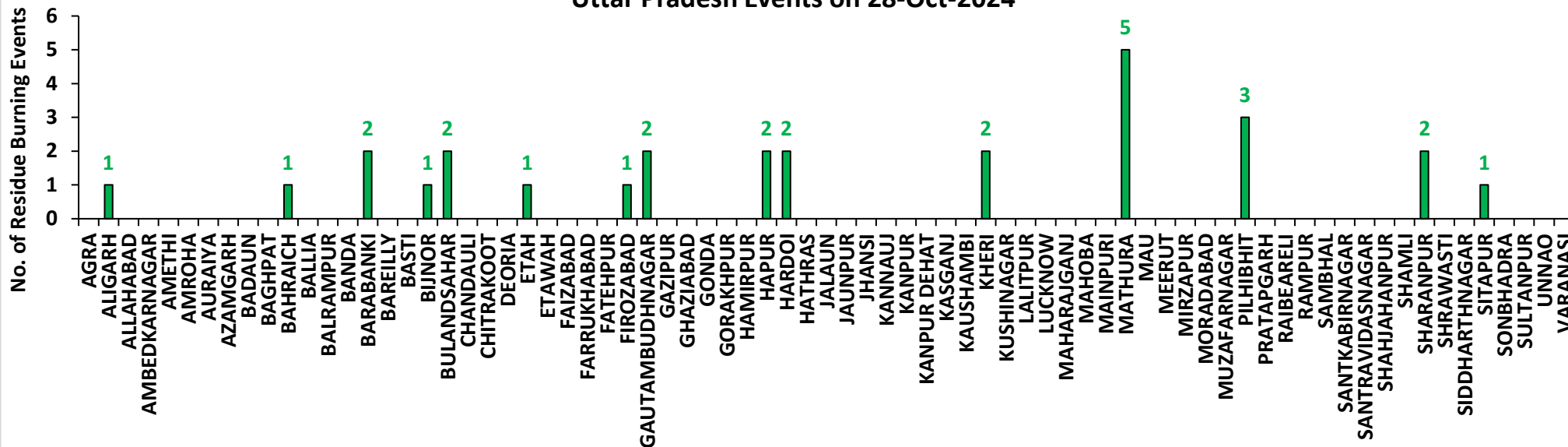
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

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

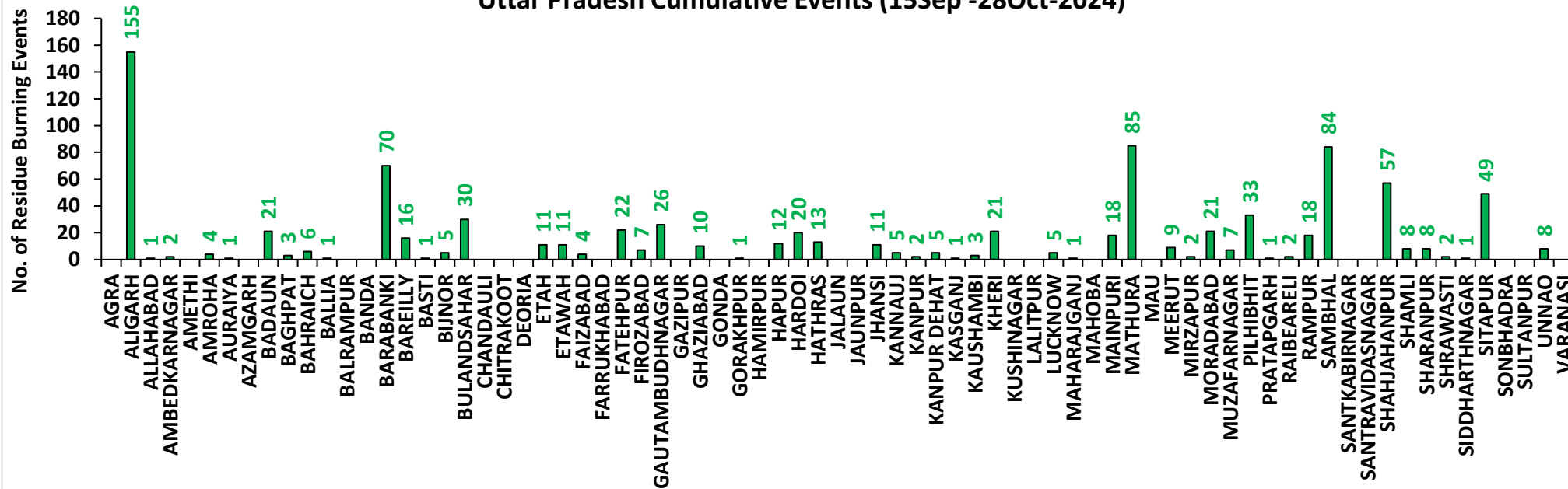


## District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-28Oct-2024)

### Uttar Pradesh Events on 28-Oct-2024

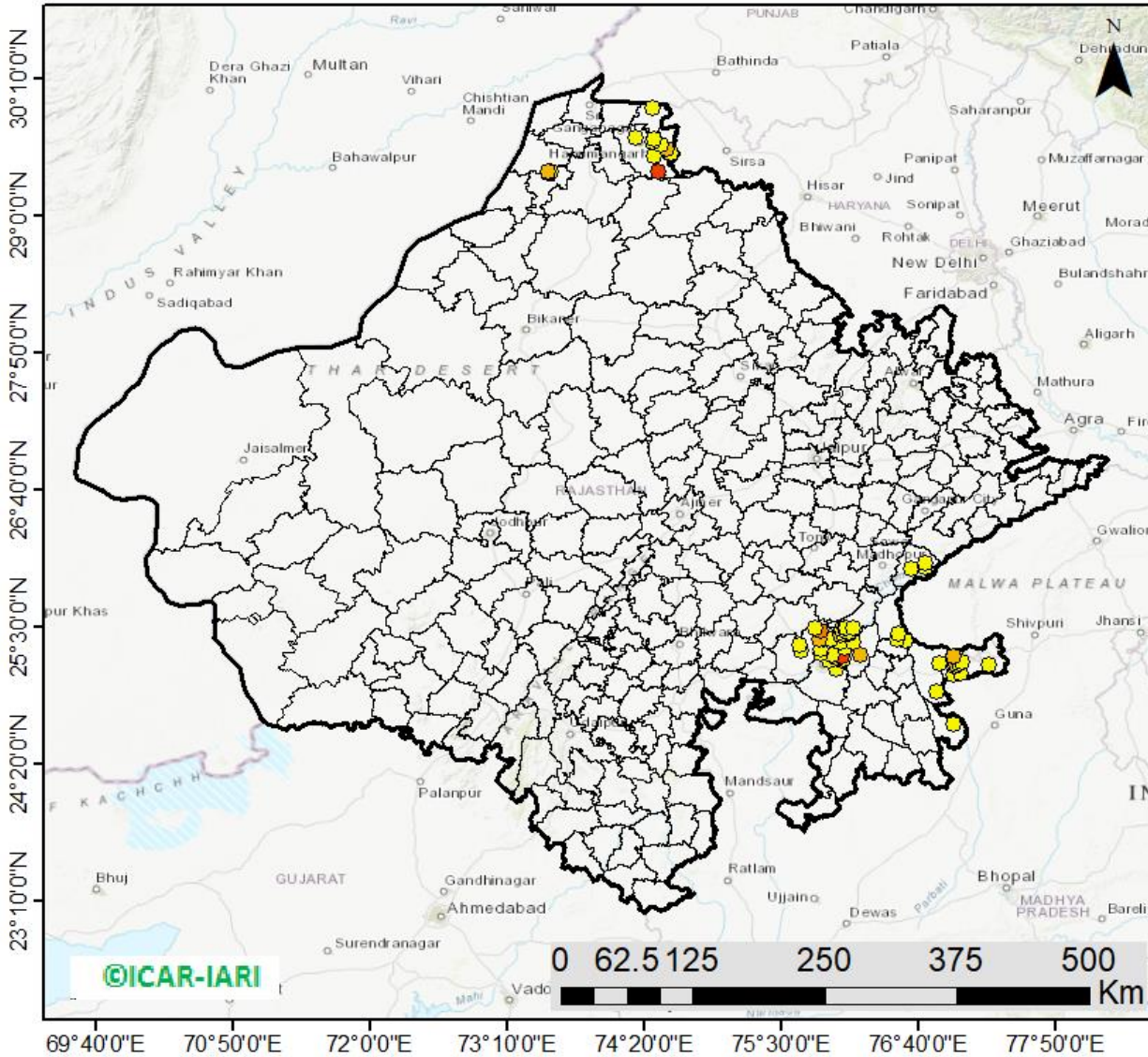


### Uttar Pradesh Cumulative Events (15Sep -28Oct-2024)



# Rajasthan

## RICE RESIDUE BURNING IN RAJASTHAN



**65** burning events  
detected in Rajasthan on  
(28th Oct 2024)

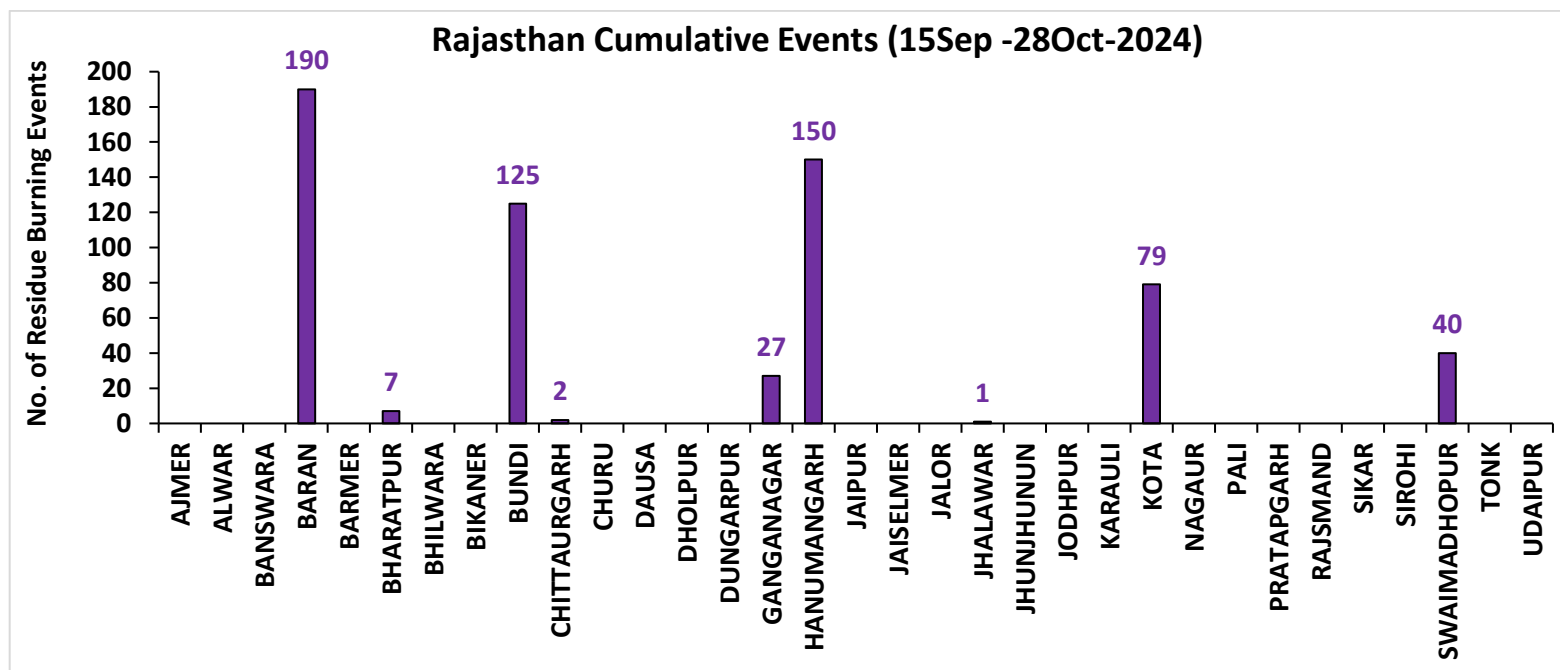
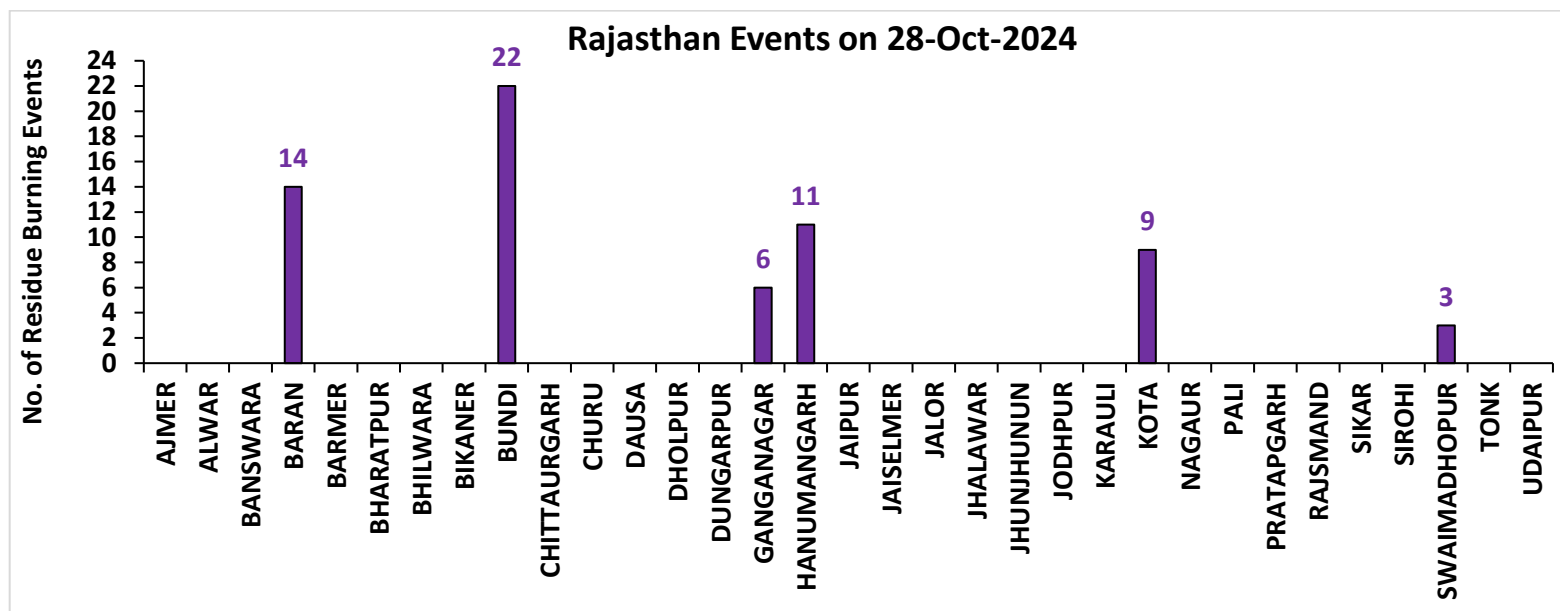
### Fire Intensity (W/m<sup>2</sup>)

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



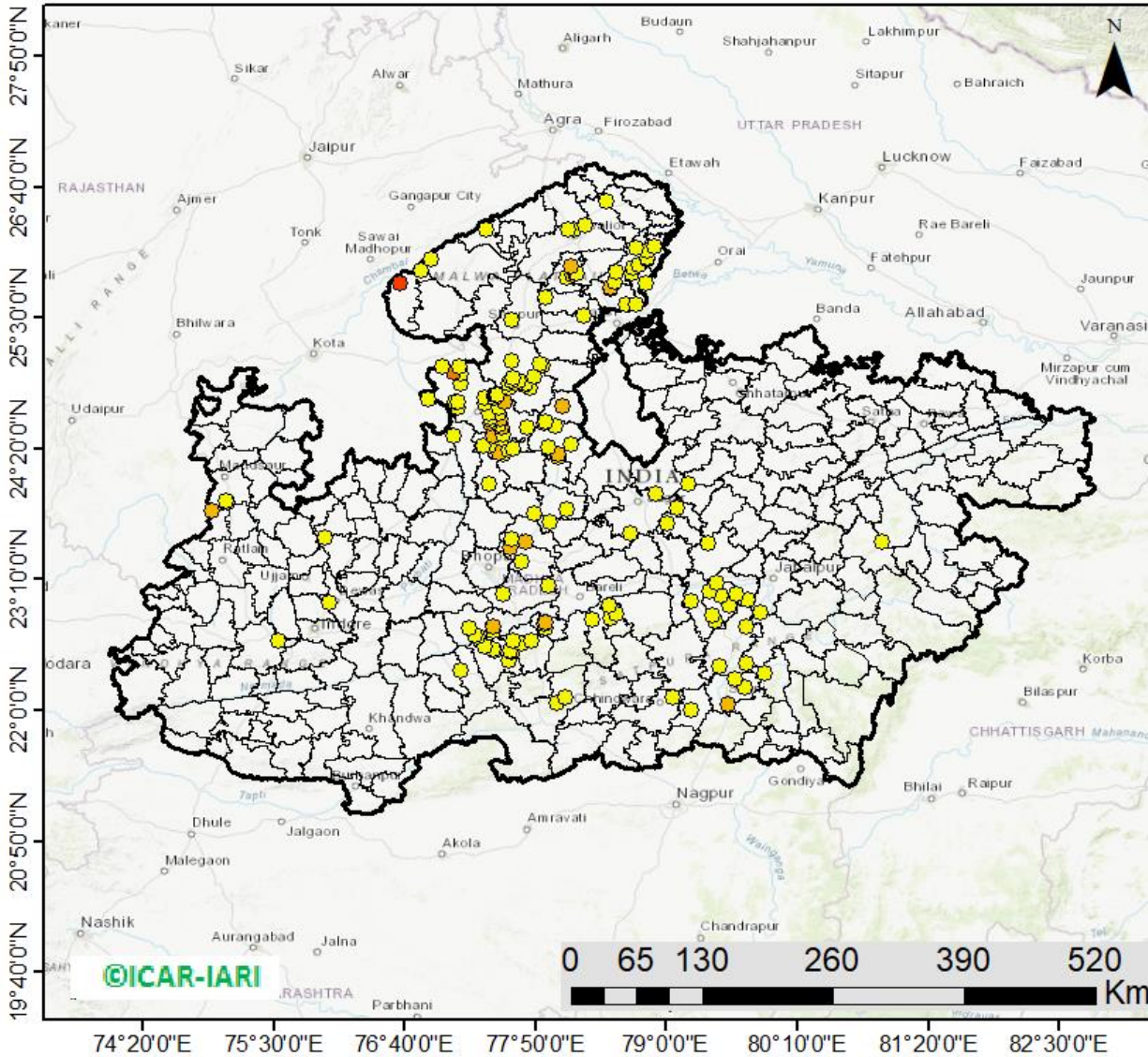
[http://103.111.37.126/icar\\_geoportal/](http://103.111.37.126/icar_geoportal/)

## District-wise cumulative number of residues burning events in Rajasthan (15Sep-28Oct-2024)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



**160** burning events  
detected in MP on  
(28th Oct 2024)

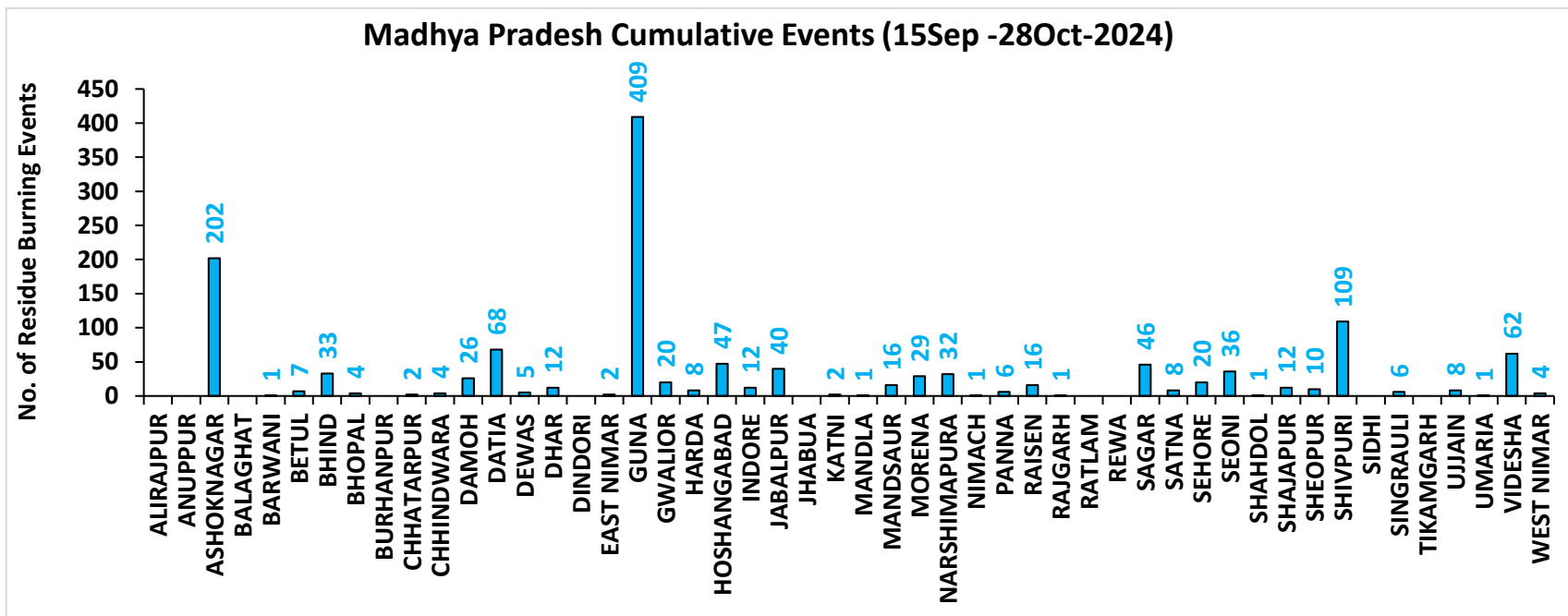
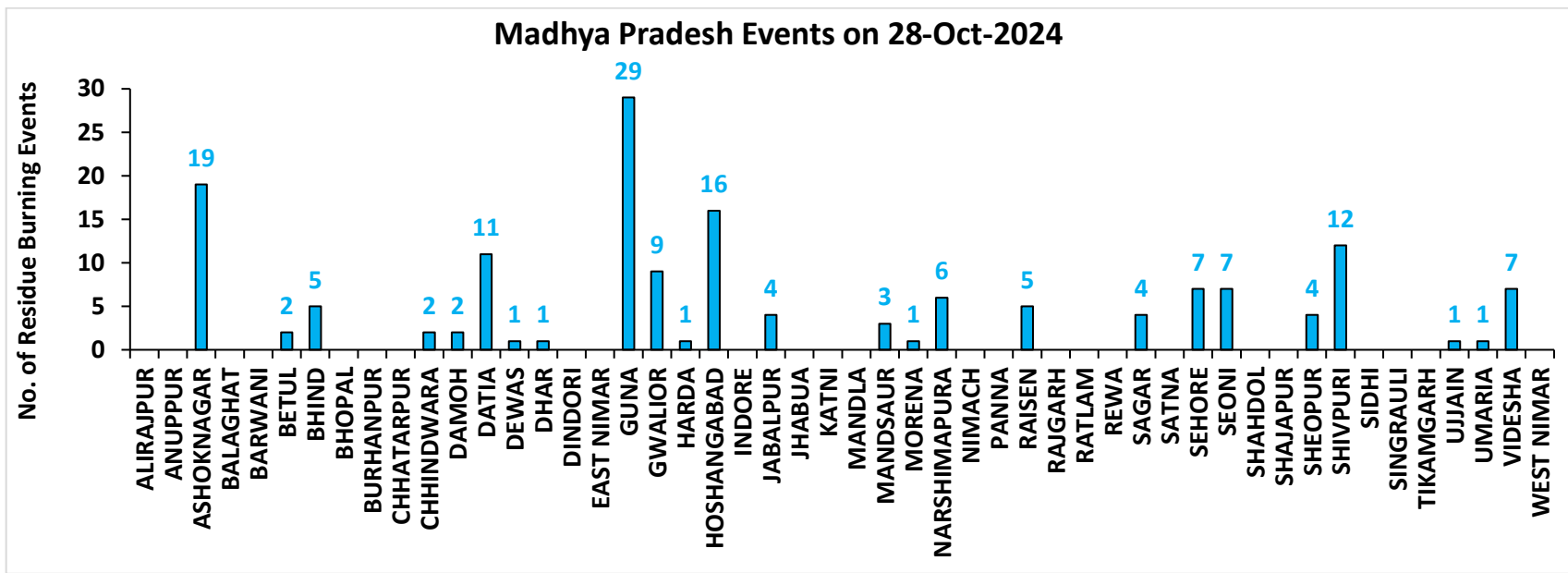
### Fire Intensity (W/m<sup>2</sup>)

- 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-28Oct-2024)



**District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024**  
**(Period: 15 September-28 October)**

**(a) Punjab**

District	15 Sep-28 Oct				
	2020	2021	2022	2023	2024
Amritsar	2581	991	1245	1003	489
Barnala	367	142	198	41	16
Bathinda	533	172	320	49	29
Faridkot	1197	452	130	64	23
Fatehgarh Sahib	792	288	440	201	76
Fazilka	322	107	102	38	27
Firozpur	3253	522	626	350	223
Gurdaspur	1729	395	732	83	64
Hoshiarpur	292	75	117	6	2
Jalandhar	664	314	510	111	27
Kapurthala	1202	484	687	184	99
Ludhiana	876	482	453	167	43
Malerkotla	0	0	0	18	32
Mansa	379	66	171	205	48
Moga	628	254	244	136	30
Muktsar	692	194	116	23	11
Pathankot	8	0	0	1	0
Patiala	2367	711	1093	507	266
Rupnagar	102	46	98	8	5
Sangrur	1675	238	844	359	201
SAS NAGAR (Mohali)	102	56	65	101	31
SBS Nagar	54	36	27	18	6
Tarn Taran	4327	1623	1996	513	389
<b>Total</b>	<b>24142</b>	<b>7648</b>	<b>10214</b>	<b>4186</b>	<b>2137</b>

**(b) Haryana**

District	15 Sep-28 Oct				
	2020	2021	2022	2023	2024
AMBALA	280	123	133	137	77
BHIWANI	0	0	0	2	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	1	2	1	3	35
FATEHABAD	176	186	221	157	43
GURGAON	0	0	0	0	0
HISAR	11	9	29	61	20
JHAJJAR	3	0	0	5	3
JIND	69	110	161	125	53
KAITHAL	467	622	464	136	137
KARNAL	481	635	234	59	76
KURUKSHETRA	366	396	269	119	109
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	34	33	22	49	29
PANCHKULA	0	0	0	1	14
PANIPAT	16	27	24	20	28
REWARI	0	0	0	0	0
ROHTAK	6	0	0	9	11
SIRSA	47	23	36	20	20
SONIPAT	18	8	13	53	41
YAMUNANAGAR	109	78	94	63	30
<b>Total</b>	<b>2084</b>	<b>2252</b>	<b>1701</b>	<b>1019</b>	<b>726</b>

**(c) Uttar Pradesh**

District	15 Sep-28 Oct																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	6	9	8	9	26	MUZAFARNAGAR	3	3	1	2	7
AGRA	2	0	0	4	0	GAZIPUR	0	0	0	1	0	PILHIBHIT	10	113	87	80	33
ALIGARH	72	25	26	78	155	GHAZIABAD	6	3	2	13	10	PRATAPGARH	4	0	1	5	1
ALLAHABAD	0	2	2	2	1	GONDA	0	0	0	0	0	RAIBEARELI	1	1	2	3	2
AMBEDKARNAGAR	0	0	0	0	2	GORAKHPUR	1	0	0	1	1	RAMPUR	72	55	46	55	18
AMETHI	2	2	4	2	0	HAMIRPUR	1	0	0	0	0	SAMBHAL	7	7	7	13	84
AMROHA	3	0	0	2	4	HAPUR	7	3	1	0	12	SANTKABIRNAGAR	0	0	1	1	0
AURAIYA	19	10	7	12	1	HARDOI	22	7	9	29	20	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	1	0	HATHRAS	0	0	0	2	13	SHAHJAHANPUR	55	199	200	43	57
BADAUN	2	6	0	4	21	JALAUN	2	0	0	0	0	SHAMLI	24	17	6	5	8
BAGHPAT	5	1	1	1	3	JAUNPUR	1	1	0	1	0	SHARANPUR	56	29	8	8	8
BAHRAICH	36	8	5	5	6	JHANSI	35	7	1	38	11	SHRAWASTI	14	3	0	6	2
BALLIA	1	0	0	0	1	KANNAUJ	12	2	0	1	5	SIDDHARTHANAGAR	0	0	0	0	1
BALRAMPUR	8	3	1	2	0	KANPUR	6	7	10	21	2	SITAPUR	26	19	5	8	49
BANDA	0	0	0	0	0	KANPUR DEHAT	20	2	1	24	5	SONBHADRA	0	0	0	0	0
BARABANKI	23	24	23	46	70	KASGANJ	2	2	0	3	1	SULTANPUR	1	1	0	2	0
BAREILLY	26	18	11	26	16	KAUSHAMBI	19	11	3	21	3	UNNAO	7	1	0	13	8
BASTI	5	1	0	1	1	KHERI	56	67	75	11	21	VARANASI	1	0	0	0	0
BIJNOR	8	5	2	6	5	KUSHINAGAR	0	0	0	2	0	<b>Total</b>	<b>943</b>	<b>805</b>	<b>632</b>	<b>839</b>	<b>920</b>
BULANDSAHAR	25	2	7	6	30	LALITPUR	0	1	3	2	0						
CHANDAULI	0	0	0	0	0	LUCKNOW	4	5	1	4	5						
CHITRAKOOT	0	3	2	3	0	MAHARAJGANJ	0	0	1	2	1						
DEORIA	3	0	1	2	0	MAHOBA	12	0	0	0	0						
ETAH	13	6	1	12	11	MAINPURI	18	10	11	22	18						
ETAWAH	13	8	6	42	11	MATHURA	81	64	16	84	85						
FAIZABAD	3	0	0	3	4	MAU	0	0	0	0	0						
FARRUKHABAD	2	0	0	1	0	MEERUT	16	5	4	3	9						
FATEHPUR	36	14	21	31	22	MIRZAPUR	6	5	2	0	2						
FIROZABAD	14	5	0	5	7	MORADABAD	8	3	0	4	21						

**(d) Delhi**

District	15 Sep-28 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-28 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	122	0	26	265	190
BARMER	3	0	0	0	0
BHARATPUR	2	0	0	2	7
BHILWARA	5	0	0	0	0
BIKANER	1	0	0	0	0
BUNDI	45	5	70	135	125
CHITTAURGARH	0	4	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	9	15	27
HANUMANGARH	270	52	29	78	150
JAIPUR	2	0	0	0	0
JAISELMER	3	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	2	0	2	8	1
JHUNJHUNUN	1	0	0	0	0
JODHPUR	2	0	0	0	0
KARAULI	1	0	0	0	0
KOTA	62	3	36	146	79
NAGAU	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	26	0	16	44	40
TONK	3	0	0	0	0
UDAIPUR	0	0	0	0	0
<b>Total</b>	<b>573</b>	<b>66</b>	<b>190</b>	<b>701</b>	<b>621</b>



(f) Madhya Pradesh

District	15 Sep-28 Oct										
	2020	2021	2022	2023	2024	PANNA	12	1	0	3	6
ALIRAJPUR	0	0	0	0	0	RAISEN	125	5	14	57	16
ANUPPUR	0	0	0	0	0	RAJGARH	9	1	3	9	1
ASHOKNAGAR	63	2	12	115	202	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	27	2	2	2	0
BARWANI	0	0	0	0	1	SAGAR	22	18	20	53	46
BETUL	10	3	1	8	7	SATNA	77	12	2	18	8
BHIND	43	1	14	44	33	SEHORE	37	17	34	52	20
BHOPAL	25	6	7	19	4	SEONI	363	225	68	134	36
BURHANPUR	0	0	0	3	0	SHAHDOL	0	0	0	2	1
CHHATARPUR	4	0	0	3	2	SHAJAPUR	7	0	0	11	12
CHHINDWARA	30	15	10	20	4	SHEOPUR	144	2	29	329	10
DAMOH	48	18	16	34	26	SHIVPURI	53	2	11	51	109
DATIA	228	10	20	202	68	SIDHI	0	0	0	0	0
DEWAS	4	0	0	8	5	SINGRAULI	0	0	1	0	6
DHAR	26	0	0	29	12	TIKAMGARH	3	0	0	3	0
DINDORI	0	0	0	1	0	UJJAIN	5	0	0	14	8
EAST NIMAR	13	5	5	4	2	UMARIA	0	0	0	0	1
GUNA	39	2	36	299	409	VIDESHA	86	15	23	63	62
GWALIOR	273	4	5	53	20	WEST NIMAR	26	1	2	17	4
HARDA	12	18	7	25	8	<b>Total</b>	<b>2332</b>	<b>518</b>	<b>448</b>	<b>2039</b>	<b>1329</b>
HOSHANGABAD	330	76	63	204	47						
INDORE	3	0	0	12	12						
JABALPUR	63	18	12	50	40						
JHABUA	0	0	0	0	0						
KATNI	36	1	0	13	2						
MANDLA	6	15	4	4	1						
MANDSAUR	6	0	0	2	16						
MORENA	37	5	3	38	29						
NARSHIMAPURA	37	18	24	30	32						
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-28 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>28-Oct</b>	3232	906	2067	127	142	139	149	123	14	13	87	35	34	36	28
<b>Total</b>	<b>24142</b>	<b>7648</b>	<b>10214</b>	<b>4186</b>	<b>2137</b>	<b>2084</b>	<b>2252</b>	<b>1701</b>	<b>1019</b>	<b>726</b>	<b>943</b>	<b>805</b>	<b>632</b>	<b>839</b>	<b>920</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
28-Oct	0	0	0	0	0	45	4	46	12	65	537	110	143	202	160
<b>Total</b>	<b>8</b>	<b>0</b>	<b>5</b>	<b>2</b>	<b>12</b>	<b>573</b>	<b>66</b>	<b>190</b>	<b>701</b>	<b>621</b>	<b>2332</b>	<b>518</b>	<b>448</b>	<b>2039</b>	<b>1329</b>

### Details of residue burning events in Punjab on 28-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	S-NPP	31.95879	74.92559	13:27:49	D	5.10
2	AMRITSAR	AJNALA	S-NPP	31.96565	74.97012	13:27:49	D	3.10
3	AMRITSAR	CHOGAWAN	S-NPP	31.85734	74.62494	13:27:49	D	2.30
4	AMRITSAR	CHOGAWAN	S-NPP	31.85990	74.64117	13:27:49	D	3.10
5	AMRITSAR	RAYYA	S-NPP	31.57069	75.24261	13:27:49	D	5.80
6	AMRITSAR	RAYYA	S-NPP	31.58162	75.38171	13:27:49	D	5.50
7	AMRITSAR	RAYYA	S-NPP	31.65685	75.27501	13:27:49	D	2.90
8	AMRITSAR	RAYYA	S-NPP	31.66015	75.27432	13:27:49	D	2.90
9	AMRITSAR	TARSIKKA	S-NPP	31.66913	75.11008	13:27:49	D	5.40
10	BARNALA	BARNALA	S-NPP	30.22224	75.50130	13:27:49	D	4.40
11	BARNALA	SEHNA	S-NPP	30.41506	75.47906	13:27:49	D	15.40
12	BATHINDA	BATHINDA	S-NPP	30.21440	74.73650	13:27:49	D	2.30
13	BATHINDA	MAUR	S-NPP	29.99392	75.19093	13:27:49	D	22.00
14	BATHINDA	MAUR	S-NPP	30.07931	75.23495	13:27:49	D	2.50
15	BATHINDA	PHUL	S-NPP	30.31643	75.32211	13:27:49	D	2.40
16	BATHINDA	PHUL	S-NPP	30.32117	75.26818	13:27:49	D	1.50
17	BATHINDA	PHUL	S-NPP	30.39970	75.20267	13:27:49	D	2.40
18	BATHINDA	RAMPURA	S-NPP	30.12713	75.28282	13:27:49	D	1.90
19	BATHINDA	RAMPURA	S-NPP	30.15151	75.28603	13:27:49	D	2.20
20	BATHINDA	TALWANDI SABO	S-NPP	30.01487	75.06320	13:27:49	D	2.60
21	BATHINDA	TALWANDI SABO	S-NPP	30.01818	75.06252	13:27:49	D	14.30
22	BATHINDA	TALWANDI SABO	S-NPP	30.03706	75.09566	13:27:49	D	36.50
23	FARIDKOT	FARIDKOT	S-NPP	30.65998	74.83163	13:27:49	D	4.80
24	FARIDKOT	FARIDKOT	S-NPP	30.71598	74.47808	13:27:49	D	6.40
25	FARIDKOT	FARIDKOT	S-NPP	30.73744	74.80745	13:27:49	D	2.50
26	FARIDKOT	FARIDKOT	S-NPP	30.74820	74.49664	13:27:49	D	3.80
27	FARIDKOT	FARIDKOT	S-NPP	30.77891	74.75318	13:27:49	D	1.20
28	FARIDKOT	FARIDKOT	S-NPP	30.79706	74.56572	13:27:49	D	18.40
29	FATEHGARH SAHIB	BASSI PATHANAN	AQUA	30.68000	76.45800	13:48:17	D	18.30
30	FATEHGARH SAHIB	KHAMANON	S-NPP	30.76279	76.38003	13:27:49	D	3.40

31	FATEHGARH SAHIB	KHERA	S-NPP	30.60801	76.48446	13:27:49	D	15.00
32	FAZILKA	ABOHAR	S-NPP	30.08197	74.19398	13:27:49	D	1.80
33	FAZILKA	JALALABAD	S-NPP	30.59394	74.23485	13:27:49	D	18.70
34	FAZILKA	JALALABAD	S-NPP	30.59461	74.23893	13:27:49	D	18.70
35	FIROZPUR	GHALL KHURD	S-NPP	30.79560	74.83697	13:27:49	D	3.40
36	FIROZPUR	GHALL KHURD	S-NPP	30.87521	74.88661	13:27:49	D	23.20
37	FIROZPUR	GHALL KHURD	S-NPP	30.90982	74.65569	13:27:49	D	2.60
38	FIROZPUR	GHALL KHURD	S-NPP	30.94081	74.78665	13:27:49	D	2.00
39	FIROZPUR	GHALL KHURD	S-NPP	30.95531	74.79189	13:27:49	D	2.70
40	FIROZPUR	GHALL KHURD	S-NPP	31.00200	74.76972	13:27:49	D	3.10
41	FIROZPUR	GURUHAR SAHAI	S-NPP	30.72068	74.24152	13:27:49	D	2.90
42	FIROZPUR	MAKHU	S-NPP	31.02019	74.81998	13:27:49	D	2.90
43	FIROZPUR	MAKHU	S-NPP	31.13179	74.83842	13:27:49	D	1.40
44	FIROZPUR	MAMDOT	S-NPP	30.78643	74.37077	13:27:49	D	6.60
45	FIROZPUR	MAMDOT	S-NPP	30.80247	74.34201	13:27:49	D	9.20
46	FIROZPUR	MAMDOT	S-NPP	30.80914	74.53384	13:27:49	D	1.90
47	FIROZPUR	MAMDOT	S-NPP	30.89086	74.42944	13:27:49	D	42.10
48	FIROZPUR	ZIRA	S-NPP	30.96748	74.84754	13:27:49	D	5.30
49	GURDASPUR	DERA BABA NANAK	S-NPP	32.03679	75.08092	13:27:49	D	3.00
50	GURDASPUR	KALANAUR	S-NPP	32.02530	75.20413	13:27:49	D	2.50
51	GURDASPUR	QADIAN	S-NPP	31.75644	75.35461	13:27:49	D	5.60
52	GURDASPUR	QADIAN	S-NPP	31.76939	75.26025	13:27:49	D	2.00
53	GURDASPUR	QADIAN	S-NPP	31.78287	75.34913	13:27:49	D	2.90
54	GURDASPUR	QADIAN	S-NPP	31.78617	75.34845	13:27:49	D	2.90
55	GURDASPUR	QADIAN	S-NPP	31.81491	75.30067	02:17:49	N	0.60
56	HOSHIARPUR	TANDA	S-NPP	31.73080	75.58451	13:27:49	D	2.50
57	JALANDHAR	MEHATPUR	S-NPP	31.00175	75.39938	13:27:49	D	3.60
58	JALANDHAR	MEHATPUR	S-NPP	31.00369	75.45682	13:27:49	D	2.00
59	KAPURTHALA	DHILWAN	S-NPP	31.46497	75.28091	13:27:49	D	17.20
60	KAPURTHALA	DHILWAN	S-NPP	31.47830	75.43597	13:27:49	D	3.90
61	KAPURTHALA	KAPURTHALA	S-NPP	31.33341	75.33183	13:27:49	D	6.00
62	KAPURTHALA	KAPURTHALA	S-NPP	31.33671	75.33115	13:27:49	D	6.00
63	KAPURTHALA	KAPURTHALA	S-NPP	31.37643	75.48058	13:27:49	D	3.50
64	KAPURTHALA	NADALA	S-NPP	31.58310	75.52697	13:27:49	D	1.70

65	KAPURTHALA	NADALA	S-NPP	31.58854	75.56323	13:27:49	D	3.40
66	KAPURTHALA	NADALA	S-NPP	31.61538	75.42464	13:27:49	D	2.00
67	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.15944	75.01531	13:27:49	D	3.30
68	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.18819	75.04664	13:27:49	D	4.70
69	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.24105	75.23466	13:27:49	D	5.50
70	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.26335	75.09753	13:27:49	D	4.10
71	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.26397	75.10155	13:27:49	D	4.10
72	LUDHIANA	LUDHIANA 1	S-NPP	30.82632	75.82541	13:27:49	D	1.40
73	LUDHIANA	SAMRALA	S-NPP	30.79439	76.15128	02:17:49	N	1.00
74	LUDHIANA	SUDHAR	S-NPP	30.76405	75.66062	13:27:49	D	2.30
75	MALERKOTLA	AHMEDGARH	S-NPP	30.57602	75.80488	13:27:49	D	1.90
76	MALERKOTLA	AHMEDGARH	S-NPP	30.57662	75.80887	13:27:49	D	1.90
77	MALERKOTLA	AMARGARH	S-NPP	30.50955	76.06001	13:27:49	D	5.50
78	MANSA	BHIKHI	S-NPP	30.12073	75.48069	13:27:49	D	6.20
79	MANSA	BHIKHI	S-NPP	30.12526	75.48797	13:27:49	D	2.90
80	MANSA	BHIKHI	S-NPP	30.13569	75.60052	13:27:49	D	2.10
81	MANSA	BUDHLADA	S-NPP	29.88062	75.72842	13:27:49	D	5.90
82	MANSA	BUDHLADA	S-NPP	29.94244	75.51198	13:27:49	D	3.30
83	MANSA	BUDHLADA	S-NPP	29.96462	75.63424	13:27:49	D	3.50
84	MANSA	SARDULGARH	S-NPP	29.76485	75.34737	13:27:49	D	3.40
85	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.93918	75.36564	13:27:49	D	2.20
86	MOGA	MOGA 2	S-NPP	30.85203	74.97859	13:27:49	D	3.40
87	MOGA	NIHAL SINGH	S-NPP	30.53092	75.37402	13:27:49	D	3.90
88	MUKTSAR	MALOUT	S-NPP	30.31389	74.45379	13:27:49	D	2.30
89	MUKTSAR	MUKTSAR	S-NPP	30.53581	74.46169	13:27:49	D	5.10
90	PATIALA	BHUNARHERI	S-NPP	30.24895	76.51846	13:27:49	D	3.00
91	PATIALA	GHANAUR	S-NPP	30.31308	76.54378	13:27:49	D	1.90
92	PATIALA	NABHA	S-NPP	30.32292	76.14556	13:27:49	D	5.00
93	PATIALA	NABHA	S-NPP	30.42138	76.19639	13:27:49	D	3.00
94	PATIALA	PATIALA	S-NPP	30.24188	76.17384	13:27:49	D	4.10
95	PATIALA	PATIALA	S-NPP	30.36547	76.25684	13:27:49	D	2.30
96	PATIALA	PATIALA	S-NPP	30.36900	76.28088	13:27:49	D	4.50
97	PATIALA	PATIALA	S-NPP	30.37232	76.28024	13:27:49	D	6.10
98	PATIALA	PATIALA	S-NPP	30.37682	76.28761	13:27:49	D	7.50

99	PATIALA	PATRAN	S-NPP	29.90643	75.94374	13:27:49	D	13.40
100	PATIALA	RAJPURA	S-NPP	30.53441	76.55595	13:27:49	D	1.60
101	PATIALA	SANAUR	S-NPP	30.19106	76.35628	13:27:49	D	6.20
102	PATIALA	SANAUR	S-NPP	30.19165	76.36028	13:27:49	D	6.20
103	PATIALA	SANAUR	S-NPP	30.19479	76.40501	13:27:49	D	2.10
104	PATIALA	SANAUR	S-NPP	30.20958	76.31972	13:27:49	D	5.20
105	PATIALA	SHAMBU KALAN	S-NPP	30.49494	76.70052	13:27:49	D	4.80
106	RUPNAGAR	MORINDA	S-NPP	30.85830	76.47724	02:17:49	N	0.40
107	SANGRUR	ANDANA	AQUA	29.82000	76.04100	13:48:17	D	21.30
108	SANGRUR	BHAWANIGARH	S-NPP	30.16126	76.01717	13:27:49	D	3.70
109	SANGRUR	BHAWANIGARH	S-NPP	30.22845	75.99185	13:27:49	D	0.80
110	SANGRUR	BHAWANIGARH	S-NPP	30.26875	75.98795	13:27:49	D	3.80
111	SANGRUR	BHAWANIGARH	S-NPP	30.32243	76.03485	13:27:49	D	2.80
112	SANGRUR	DHURI	S-NPP	30.31425	75.75342	13:27:49	D	1.20
113	SANGRUR	DIRBA	S-NPP	29.97345	75.95903	13:27:49	D	3.70
114	SANGRUR	DIRBA	S-NPP	30.09760	75.95605	13:27:49	D	2.20
115	SANGRUR	LEHRA GAGA	S-NPP	29.89177	75.82417	13:27:49	D	2.20
116	SANGRUR	SANGRUR	S-NPP	30.19373	75.76109	13:27:49	D	1.80
117	SANGRUR	SANGRUR	S-NPP	30.20117	75.65311	13:27:49	D	2.60
118	SANGRUR	SANGRUR	S-NPP	30.20447	75.65244	13:27:49	D	4.80
119	SANGRUR	SANGRUR	S-NPP	30.22919	75.77036	13:27:49	D	1.90
120	SANGRUR	SUNAM	S-NPP	30.00140	75.78623	13:27:49	D	7.80
121	SANGRUR	SUNAM	S-NPP	30.06338	75.68468	13:27:49	D	4.90
122	SANGRUR	SUNAM	S-NPP	30.06669	75.68402	13:27:49	D	2.50
123	SANGRUR	SUNAM	S-NPP	30.07925	75.63240	13:27:49	D	4.30
124	SANGRUR	SUNAM	S-NPP	30.09941	75.65288	13:27:49	D	1.90
125	SANGRUR	SUNAM	S-NPP	30.11779	75.70646	13:27:49	D	3.50
126	SAS NAGAR	KHARAR	S-NPP	30.58429	76.68824	13:27:49	D	2.60
127	SAS NAGAR	MAJRI	S-NPP	30.82295	76.67767	13:27:49	D	3.60
128	SBS NAGAR	NAWAN SHAHR	S-NPP	31.01778	76.21057	13:27:49	D	1.90
129	TARN TARAN	CHOHLA SAHIB	S-NPP	31.34366	75.04333	13:27:49	D	2.90
130	TARN TARAN	GANDIWIND TATLA	S-NPP	31.47198	74.67187	13:27:49	D	1.50
131	TARN TARAN	KHADUR SAHIB	S-NPP	31.39273	75.07637	02:17:49	N	0.40
132	TARN TARAN	KHADUR SAHIB	S-NPP	31.43860	75.02044	13:27:49	D	10.00



133	TARN TARAN	KHADUR SAHIB	S-NPP	31.47886	75.21571	13:27:49	D	6.50
134	TARN TARAN	KHADUR SAHIB	S-NPP	31.48217	75.21502	13:27:49	D	6.50
135	TARN TARAN	TARN TARAN	S-NPP	31.40005	74.81631	13:27:49	D	2.90
136	TARN TARAN	TARN TARAN	S-NPP	31.51711	74.91676	13:27:49	D	3.50
137	TARN TARAN	VALTOHA	S-NPP	31.10216	74.58606	13:27:49	D	4.20
138	TARN TARAN	VALTOHA	S-NPP	31.10345	74.59415	13:27:49	D	5.20
139	TARN TARAN	VALTOHA	S-NPP	31.16978	74.68862	13:27:49	D	2.50
140	TARN TARAN	VALTOHA	S-NPP	31.17924	74.54050	13:27:49	D	4.40
141	TARN TARAN	VALTOHA	S-NPP	31.18191	74.53573	13:27:49	D	2.80
142	TARN TARAN	VALTOHA	S-NPP	31.18660	74.52215	13:27:49	D	2.50

### Details of residue burning events in Haryana on 28-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	AMBALA	SAHA	S-NPP	30.23513	76.87463	13:27:49	D	3.00
2	AMBALA	SAHA	S-NPP	30.24611	76.95213	13:27:49	D	2.80
3	FARIDABAD	BALLABGARH	S-NPP	28.27210	77.27271	02:17:49	N	0.40
4	FATEHABAD	TOHANA	S-NPP	29.66540	75.91786	13:27:49	D	11.00
5	KAITHAL	GUHLA	S-NPP	30.05849	76.39761	13:27:49	D	3.40
6	KAITHAL	KAITHAL	AQUA	29.85100	76.38900	13:48:17	D	27.10
7	KARNAL	INDRI	S-NPP	29.89598	77.19160	13:27:49	D	2.80
8	KURUKSHETRA	ISMAILABAD	S-NPP	30.12251	76.74493	13:27:49	D	3.20
9	KURUKSHETRA	PEHOWA	S-NPP	29.97958	76.64742	13:27:49	D	6.20
10	KURUKSHETRA	PEHOWA	S-NPP	30.03476	76.67408	13:27:49	D	3.50
11	PALWAL	HODAL	S-NPP	27.88668	77.44758	13:27:49	D	1.70
12	PALWAL	HODAL	S-NPP	27.89623	77.46625	13:27:49	D	3.70
13	SIRSA	BARAGUNDA	S-NPP	29.68533	75.15150	02:17:49	N	1.80

### Details of residue burning events in Uttar Pradesh on 28-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	KHAIR	S-NPP	27.89815	77.76989	13:27:49	D	2.20
2	BAHRAICH	NANPARA	S-NPP	27.91404	81.65616	02:17:49	N	0.60
3	BARABANKI	H AidARGARH	S-NPP	26.68406	81.23620	13:27:49	D	2.40
4	BARABANKI	RAMSANEHIGHAT	S-NPP	26.87749	81.59507	02:17:49	N	0.70
5	BIJNOR	BIJNOR	S-NPP	29.23665	78.11237	13:27:49	D	3.70
6	BULANSAHAR	KHURJA	S-NPP	28.20067	77.73338	02:17:49	N	0.70
7	BULANSAHAR	KHURJA	S-NPP	28.31874	77.84772	02:17:49	N	0.70
8	ETAH	ETAH	S-NPP	27.53029	78.70857	13:27:49	D	3.00
9	FIROZABAD	JASRANA	S-NPP	27.44395	78.60652	13:27:49	D	2.00
10	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.10888	77.68380	13:27:49	D	2.50
11	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.13344	77.60385	02:17:49	N	0.80
12	HAPUR	GARHMUKTESAR	S-NPP	28.84401	78.11316	13:27:49	D	3.80
13	HAPUR	GARHMUKTESAR	S-NPP	28.85822	78.08916	13:27:49	D	3.10
14	HARDOI	BILGRAM	S-NPP	27.10081	80.09673	13:27:49	D	1.50
15	HARDOI	BILGRAM	S-NPP	27.13376	80.12217	13:27:49	D	6.70
16	KHERI	GOLA	S-NPP	27.97335	80.30354	02:17:49	N	1.40
17	KHERI	GOLA	S-NPP	27.97367	80.30065	02:17:49	N	1.40
18	MATHURA	CHHATA	S-NPP	27.70980	77.43447	13:27:49	D	3.30
19	MATHURA	CHHATA	S-NPP	27.71784	77.36002	13:27:49	D	1.20
20	MATHURA	CHHATA	S-NPP	27.79987	77.28826	13:27:49	D	2.80
21	MATHURA	CHHATA	S-NPP	27.80205	77.28819	13:27:49	D	2.60
22	MATHURA	MAT	S-NPP	27.74464	77.79662	13:27:49	D	3.80
23	PILHIBHIT	BISALPUR	S-NPP	28.36568	79.87123	13:27:49	D	6.40
24	PILHIBHIT	BISALPUR	S-NPP	28.36568	79.87312	13:27:49	D	3.20
25	PILHIBHIT	BISALPUR	S-NPP	28.36933	79.87254	13:27:49	D	3.40
26	SHARANPUR	NAKUR	S-NPP	29.89598	77.19160	13:27:49	D	2.80
27	SHARANPUR	RAMPUR MANIHARRAN	S-NPP	29.67260	77.53538	13:27:49	D	2.30
28	SITAPUR	MAHMUDABAD	S-NPP	27.48953	81.11546	02:17:49	N	1.00

### Details of residue burning events in Rajasthan on 28-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARAN	CHHABRA	S-NPP	24.66729	76.96561	13:27:49	D	3.20
2	BARAN	KISHANGUNJ	S-NPP	24.93652	76.82295	13:27:49	D	2.40
3	BARAN	KISHANGUNJ	S-NPP	25.18619	76.83899	13:27:49	D	2.80
4	BARAN	MANGROL	S-NPP	25.37699	76.56055	13:27:49	D	2.40
5	BARAN	MANGROL	S-NPP	25.37901	76.48561	13:27:49	D	2.10
6	BARAN	MANGROL	S-NPP	25.42754	76.49660	13:27:49	D	2.90
7	BARAN	SHAHBAD	S-NPP	25.08915	76.95834	13:27:49	D	3.80
8	BARAN	SHAHBAD	S-NPP	25.09178	77.02028	13:27:49	D	3.80
9	BARAN	SHAHBAD	S-NPP	25.15959	76.97661	13:27:49	D	3.80
10	BARAN	SHAHBAD	S-NPP	25.17067	76.98238	13:27:49	D	7.70
11	BARAN	SHAHBAD	S-NPP	25.17410	77.26134	02:17:49	N	0.50
12	BARAN	SHAHBAD	S-NPP	25.17918	77.01595	13:27:49	D	4.60
13	BARAN	SHAHBAD	S-NPP	25.18926	77.03752	13:27:49	D	4.70
14	BARAN	SHAHBAD	S-NPP	25.24346	76.96899	13:27:49	D	8.50
15	BUNDI	BUNDI	S-NPP	25.26224	75.83092	13:27:49	D	1.80
16	BUNDI	BUNDI	S-NPP	25.29281	75.66909	13:27:49	D	2.30
17	BUNDI	BUNDI	S-NPP	25.29747	75.83609	13:27:49	D	2.10
18	BUNDI	BUNDI	S-NPP	25.33171	75.65345	13:27:49	D	3.90
19	BUNDI	BUNDI	S-NPP	25.38653	75.82347	13:27:49	D	7.50
20	BUNDI	BUNDI	S-NPP	25.45897	75.83360	13:27:49	D	12.50
21	BUNDI	BUNDI	S-NPP	25.47883	75.78571	13:27:49	D	2.70
22	BUNDI	KESHORAIPATAN	S-NPP	25.35910	75.99630	13:27:49	D	2.90
23	BUNDI	KESHORAIPATAN	S-NPP	25.35960	76.10731	13:27:49	D	3.30
24	BUNDI	KESHORAIPATAN	S-NPP	25.38208	75.86032	13:27:49	D	1.50
25	BUNDI	KESHORAIPATAN	S-NPP	25.38343	75.91196	13:27:49	D	3.30
26	BUNDI	KESHORAIPATAN	S-NPP	25.42599	76.00728	13:27:49	D	9.70
27	BUNDI	KESHORAIPATAN	S-NPP	25.42814	76.04261	13:27:49	D	1.40
28	BUNDI	KESHORAIPATAN	S-NPP	25.42936	76.05032	13:27:49	D	17.30
29	BUNDI	KESHORAIPATAN	S-NPP	25.43361	76.07729	13:27:49	D	3.20
30	BUNDI	KESHORAIPATAN	S-NPP	25.43569	76.02528	13:27:49	D	1.10
31	BUNDI	KESHORAIPATAN	S-NPP	25.44509	76.06318	13:27:49	D	7.40

32	BUNDI	KESHORAIPATAN	S-NPP	25.44691	76.07473	13:27:49	D	2.70
33	BUNDI	KESHORAIPATAN	S-NPP	25.47460	76.01791	13:27:49	D	2.60
34	BUNDI	KESHORAIPATAN	S-NPP	25.47766	76.03718	13:27:49	D	2.90
35	BUNDI	KESHORAIPATAN	S-NPP	25.47949	76.04874	13:27:49	D	2.90
36	BUNDI	KESHORAIPATAN	S-NPP	25.48199	76.10774	13:27:49	D	2.30
37	GANGANAGAR	RAISINGHNAGAR	S-NPP	29.35036	73.50928	13:27:49	D	7.30
38	GANGANAGAR	RAISINGHNAGAR	S-NPP	29.36136	73.51126	13:27:49	D	10.60
39	GANGANAGAR	RAISINGHNAGAR	S-NPP	29.36426	73.52837	13:27:49	D	5.80
40	GANGANAGAR	RAISINGHNAGAR	S-NPP	29.36696	73.52333	13:27:49	D	7.80
41	GANGANAGAR	RAISINGHNAGAR	S-NPP	29.36913	73.53615	13:27:49	D	2.20
42	GANGANAGAR	RAISINGHNAGAR	S-NPP	29.36966	73.51830	13:27:49	D	7.80
43	HANUMANGARH	HANUMANGARH	S-NPP	29.65045	74.25483	13:27:49	D	4.80
44	HANUMANGARH	SANGHRIYA	S-NPP	29.62256	74.40831	13:27:49	D	3.30
45	HANUMANGARH	SANGHRIYA	S-NPP	29.64510	74.41221	13:27:49	D	4.30
46	HANUMANGARH	SANGHRIYA	S-NPP	29.90269	74.40500	13:27:49	D	4.00
47	HANUMANGARH	TIBI	S-NPP	29.36619	74.44544	13:27:49	D	16.80
48	HANUMANGARH	TIBI	S-NPP	29.50123	74.41692	13:27:49	D	4.00
49	HANUMANGARH	TIBI	S-NPP	29.51830	74.54340	13:27:49	D	3.80
50	HANUMANGARH	TIBI	S-NPP	29.52491	74.56293	13:27:49	D	3.90
51	HANUMANGARH	TIBI	S-NPP	29.56087	74.51804	13:27:49	D	5.80
52	HANUMANGARH	TIBI	S-NPP	29.59167	74.47374	13:27:49	D	4.50
53	HANUMANGARH	TIBI	S-NPP	29.59501	74.47302	13:27:49	D	4.50
54	KOTA	DIGOD	S-NPP	25.25512	76.17424	13:27:49	D	7.40
55	KOTA	DIGOD	S-NPP	25.31543	76.03590	13:27:49	D	2.60
56	KOTA	LADPURA	S-NPP	25.13744	75.96662	13:27:49	D	3.40
57	KOTA	LADPURA	S-NPP	25.20066	75.91061	13:27:49	D	3.80
58	KOTA	LADPURA	S-NPP	25.20932	76.00851	13:27:49	D	7.20
59	KOTA	LADPURA	S-NPP	25.21902	76.02650	13:27:49	D	5.00
60	KOTA	LADPURA	S-NPP	25.22870	75.96509	13:27:49	D	6.60
61	KOTA	LADPURA	S-NPP	25.23671	76.01527	13:27:49	D	19.40
62	KOTA	LADPURA	S-NPP	25.25313	75.92455	13:27:49	D	0.90
63	SWAIMADHOPUR	KHANDAR	S-NPP	25.98990	76.60743	13:27:49	D	2.40
64	SWAIMADHOPUR	KHANDAR	S-NPP	25.99694	76.72015	13:27:49	D	1.40
65	SWAIMADHOPUR	KHANDAR	S-NPP	26.03780	76.72039	13:27:49	D	2.30

### Details of residue burning events in Madhya Pradesh on 28-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.41213	77.53584	13:27:49	D	4.00
2	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.44808	77.54884	13:27:49	D	3.50
3	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.50959	77.53369	13:27:49	D	5.00
4	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.51735	77.76225	13:27:49	D	1.90
5	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.51896	77.52812	13:27:49	D	10.00
6	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.53600	77.50565	13:27:49	D	3.30
7	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.58908	77.51948	13:27:49	D	5.30
8	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.63731	77.50372	13:27:49	D	4.80
9	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.74327	77.55856	13:27:49	D	6.60
10	ASHOKNAGAR	CHANDERI	S-NPP	24.70393	78.07098	13:27:49	D	6.90
11	ASHOKNAGAR	ISAGARH	S-NPP	24.86166	77.78765	13:27:49	D	2.70
12	ASHOKNAGAR	ISAGARH	S-NPP	24.87058	77.59436	13:27:49	D	4.90
13	ASHOKNAGAR	ISAGARH	S-NPP	24.90487	77.59606	13:27:49	D	4.90
14	ASHOKNAGAR	ISAGARH	S-NPP	24.96358	77.81657	13:27:49	D	3.20
15	ASHOKNAGAR	MUNGAOLI	S-NPP	24.33455	77.95063	13:27:49	D	4.20
16	ASHOKNAGAR	MUNGAOLI	S-NPP	24.35722	78.14268	13:27:49	D	1.80
17	ASHOKNAGAR	MUNGAOLI	S-NPP	24.52625	78.00707	13:27:49	D	3.40
18	ASHOKNAGAR	MUNGAOLI	S-NPP	24.55420	77.90403	13:27:49	D	6.40
19	ASHOKNAGAR	MUNGAOLI	S-NPP	24.56032	77.92254	13:27:49	D	1.90
20	BETUL	BETUL	S-NPP	22.06441	78.02346	13:27:49	D	5.00
21	BETUL	BETUL	S-NPP	22.10620	78.09992	13:27:49	D	1.50
22	BHIND	LAHAR	S-NPP	26.01906	78.82623	13:27:49	D	4.20
23	BHIND	LAHAR	S-NPP	26.02248	78.82565	13:27:49	D	4.40
24	BHIND	LAHAR	S-NPP	26.09218	78.82706	13:27:49	D	3.40
25	BHIND	LAHAR	S-NPP	26.12975	78.89661	13:27:49	D	2.30
26	BHIND	MAHGAWAN	S-NPP	26.53260	78.46204	13:27:49	D	2.50
27	CHHINDWARA	CHAURAI	S-NPP	21.99308	79.21520	13:27:49	D	2.00
28	CHHINDWARA	CHHINDWARA	S-NPP	22.10631	79.05920	13:27:49	D	1.90
29	DAMOH	BATIAGARH	S-NPP	24.01341	79.19209	13:27:49	D	1.90

30	DAMOH	TENDUKHERA	S-NPP	23.48131	79.37159	13:27:49	D	2.10
31	DATIA	BHANDER	S-NPP	25.61255	78.73017	13:27:49	D	3.30
32	DATIA	BHANDER	S-NPP	25.80198	78.81590	13:27:49	D	3.70
33	DATIA	BHANDER	S-NPP	25.88616	78.69402	13:27:49	D	4.40
34	DATIA	BHANDER	S-NPP	25.96737	78.75546	13:27:49	D	2.50
35	DATIA	DATIA	S-NPP	25.60573	78.63243	13:27:49	D	1.60
36	DATIA	DATIA	S-NPP	25.74675	78.49481	13:27:49	D	2.10
37	DATIA	DATIA	S-NPP	25.76141	78.50050	13:27:49	D	6.20
38	DATIA	SEONDHA	S-NPP	25.81785	78.53184	13:27:49	D	4.60
39	DATIA	SEONDHA	S-NPP	25.89754	78.55152	13:27:49	D	2.70
40	DATIA	SEONDHA	S-NPP	25.94291	78.70100	13:27:49	D	3.20
41	DATIA	SEONDHA	S-NPP	26.11682	78.72646	13:27:49	D	3.30
42	DEWAS	DEWAS	S-NPP	22.94839	75.99762	13:27:49	D	2.90
43	DHAR	DHAR	S-NPP	22.61419	75.53938	13:27:49	D	2.00
44	GUNA	ARON	S-NPP	24.27834	77.54813	13:27:49	D	4.90
45	GUNA	ARON	S-NPP	24.29312	77.51060	13:27:49	D	5.90
46	GUNA	ARON	S-NPP	24.31824	77.58757	13:27:49	D	3.40
47	GUNA	ARON	S-NPP	24.32170	77.63353	13:27:49	D	3.60
48	GUNA	ARON	S-NPP	24.35286	77.41075	13:27:49	D	3.90
49	GUNA	ARON	S-NPP	24.35350	77.37179	13:27:49	D	3.10
50	GUNA	ARON	S-NPP	24.44108	77.45690	13:27:49	D	6.00
51	GUNA	GUNA	S-NPP	24.55444	77.42464	13:27:49	D	5.80
52	GUNA	GUNA	S-NPP	24.58075	77.44386	13:27:49	D	3.40
53	GUNA	GUNA	S-NPP	24.59834	77.42515	13:27:49	D	3.40
54	GUNA	GUNA	S-NPP	24.64080	77.41363	13:27:49	D	4.80
55	GUNA	GUNA	S-NPP	24.68812	77.50240	13:27:49	D	5.00
56	GUNA	GUNA	S-NPP	24.69110	77.14397	13:27:49	D	3.70
57	GUNA	GUNA	S-NPP	24.72654	77.37854	13:27:49	D	1.90
58	GUNA	GUNA	S-NPP	24.73843	77.11979	13:27:49	D	2.60
59	GUNA	GUNA	S-NPP	24.74404	77.13433	13:27:49	D	4.90
60	GUNA	GUNA	S-NPP	24.76177	76.87425	13:27:49	D	4.60
61	GUNA	GUNA	S-NPP	24.77676	77.37338	13:27:49	D	3.20
62	GUNA	GUNA	S-NPP	24.77718	77.46675	13:27:49	D	4.50
63	GUNA	GUNA	S-NPP	24.80107	77.47023	13:27:49	D	8.30

64	GUNA	GUNA	S-NPP	24.80277	77.48162	13:27:49	D	23.10
65	GUNA	GUNA	S-NPP	24.80721	77.48862	13:27:49	D	1.90
66	GUNA	GUNA	S-NPP	24.80778	77.49242	13:27:49	D	2.50
67	GUNA	GUNA	S-NPP	24.90431	77.16714	13:27:49	D	4.60
68	GUNA	GUNA	S-NPP	24.99460	77.15916	13:27:49	D	4.90
69	GUNA	GUNA	S-NPP	25.00037	77.10743	13:27:49	D	12.70
70	GUNA	GUNA	S-NPP	25.06137	77.15089	13:27:49	D	2.20
71	GUNA	GUNA	S-NPP	25.06185	77.00237	13:27:49	D	2.80
72	GUNA	KUMBHRAJ	S-NPP	24.44064	77.09985	13:27:49	D	3.90
73	GWALIOR	BHITARWAR	S-NPP	25.84488	78.10887	13:27:49	D	2.50
74	GWALIOR	BHITARWAR	S-NPP	25.94508	78.15191	13:27:49	D	5.70
75	GWALIOR	DABRA	S-NPP	25.88070	78.15913	13:27:49	D	7.40
76	GWALIOR	DABRA	S-NPP	25.88181	78.19127	13:27:49	D	4.80
77	GWALIOR	DABRA	S-NPP	25.88293	78.19916	13:27:49	D	4.10
78	GWALIOR	GWALIOR	S-NPP	26.27238	78.17327	13:27:49	D	2.10
79	GWALIOR	GWALIOR	S-NPP	26.28241	78.12271	13:27:49	D	3.70
80	GWALIOR	GWALIOR	S-NPP	26.32029	78.26706	13:27:49	D	1.70
81	GWALIOR	GWALIOR	S-NPP	26.32087	78.26712	13:27:49	D	1.50
82	HARDA	TIMURNI	S-NPP	22.34178	77.16091	13:27:49	D	3.60
83	HOSHANGABAD	BABAI	S-NPP	22.72932	77.92661	13:27:49	D	3.50
84	HOSHANGABAD	BABAI	S-NPP	22.76133	77.91335	13:27:49	D	2.80
85	HOSHANGABAD	BANKHERI	S-NPP	22.81096	78.50170	13:27:49	D	3.00
86	HOSHANGABAD	BANKHERI	S-NPP	22.85484	78.54472	13:27:49	D	3.10
87	HOSHANGABAD	BANKHERI	S-NPP	22.92282	78.48242	13:27:49	D	1.90
88	HOSHANGABAD	HOSHANGABAD	S-NPP	22.61442	77.63633	13:27:49	D	4.60
89	HOSHANGABAD	ITARSI	S-NPP	22.58156	77.71095	13:27:49	D	3.70
90	HOSHANGABAD	ITARSI	S-NPP	22.61883	77.79996	13:27:49	D	3.70
91	HOSHANGABAD	PIPARIYA	S-NPP	22.79662	78.33392	13:27:49	D	2.30
92	HOSHANGABAD	SEONI MALWA	S-NPP	22.43778	77.58765	13:27:49	D	5.00
93	HOSHANGABAD	SEONI MALWA	S-NPP	22.51078	77.62057	13:27:49	D	2.00
94	HOSHANGABAD	SEONI MALWA	S-NPP	22.51853	77.62685	13:27:49	D	5.10
95	HOSHANGABAD	SEONI MALWA	S-NPP	22.52227	77.47329	13:27:49	D	4.80
96	HOSHANGABAD	SEONI MALWA	S-NPP	22.52951	77.60962	13:27:49	D	2.90
97	HOSHANGABAD	SEONI MALWA	S-NPP	22.53634	77.45897	13:27:49	D	2.90

98	HOSHANGABAD	SEONI MALWA	S-NPP	22.55799	77.37856	13:27:49	D	4.30
99	JABALPUR	JABALPUR	S-NPP	22.86750	79.83012	13:27:49	D	4.30
100	JABALPUR	SAHPURA	S-NPP	22.97276	79.71925	13:27:49	D	1.70
101	JABALPUR	SAHPURA	S-NPP	23.03206	79.61496	13:27:49	D	4.90
102	JABALPUR	SAHPURA	S-NPP	23.12338	79.44883	13:27:49	D	1.50
103	MANDSAUR	MANDSAUR	S-NPP	23.76941	74.95197	13:27:49	D	7.80
104	MANDSAUR	MANDSAUR	S-NPP	23.85199	75.08387	13:27:49	D	4.30
105	MANDSAUR	MANDSAUR	S-NPP	23.85474	75.07911	13:27:49	D	2.50
106	MORENA	SABALGARH	S-NPP	26.27306	77.38684	13:27:49	D	1.80
107	NARSHIMAPURA	GOTECAON	S-NPP	22.84545	79.40370	13:27:49	D	3.00
108	NARSHIMAPURA	GOTECAON	S-NPP	22.92576	79.55314	13:27:49	D	4.30
109	NARSHIMAPURA	GOTECAON	S-NPP	23.02034	79.48180	13:27:49	D	2.40
110	NARSHIMAPURA	GOTECAON	S-NPP	23.05766	79.37824	13:27:49	D	2.60
111	NARSHIMAPURA	NARSIMHAPUR	S-NPP	22.79453	79.43614	13:27:49	D	3.00
112	NARSHIMAPURA	NARSIMHAPUR	S-NPP	22.96871	79.21546	13:27:49	D	2.80
113	RAISEN	GOHARGANJ	S-NPP	23.02655	77.54392	13:27:49	D	4.50
114	RAISEN	GOHARGANJ	S-NPP	23.10674	77.94055	13:27:49	D	4.10
115	RAISEN	RAISEN	S-NPP	23.31429	77.70048	13:27:49	D	3.10
116	RAISEN	RAISEN	S-NPP	23.44421	77.60016	13:27:49	D	5.90
117	RAISEN	RAISEN	S-NPP	23.49214	77.73798	13:27:49	D	7.10
118	SAGAR	GARHAKOTA	S-NPP	23.79409	79.09278	13:27:49	D	2.00
119	SAGAR	REHLI	S-NPP	23.65246	79.00300	13:27:49	D	3.50
120	SAGAR	SAGAR	S-NPP	23.57571	78.68083	13:27:49	D	3.50
121	SAGAR	SAGAR	S-NPP	23.92821	78.90572	13:27:49	D	2.60
122	SEHORE	BUDHNI	S-NPP	22.70618	77.45990	13:27:49	D	3.00
123	SEHORE	BUDHNI	S-NPP	22.74123	77.44949	13:27:49	D	18.10
124	SEHORE	BUDHNI	S-NPP	22.74180	77.45321	13:27:49	D	7.70
125	SEHORE	BUDHNI	S-NPP	22.77957	77.92168	13:27:49	D	6.10
126	SEHORE	NASRULLAHGANJ	S-NPP	22.65075	77.32038	13:27:49	D	1.50
127	SEHORE	NASRULLAHGANJ	S-NPP	22.66659	77.29070	13:27:49	D	2.10
128	SEHORE	NASRULLAHGANJ	S-NPP	22.72619	77.24130	13:27:49	D	2.50
129	SEONI	GHANSAUR	S-NPP	22.41229	79.71169	13:27:49	D	3.20
130	SEONI	KEWLARI	S-NPP	22.32334	79.87316	13:27:49	D	1.50
131	SEONI	LAKHNADOU	S-NPP	22.38201	79.47360	13:27:49	D	4.60



132	SEONI	LAKHNADOU	S-NPP	22.73608	79.71394	13:27:49	D	2.30
133	SEONI	SEONI	S-NPP	22.05090	79.54694	13:27:49	D	6.10
134	SEONI	SEONI	S-NPP	22.19095	79.69805	13:27:49	D	2.20
135	SEONI	SEONI	S-NPP	22.27825	79.60297	13:27:49	D	2.00
136	SHEOPUR	SHEOPUR	S-NPP	25.80003	76.62681	13:27:49	D	19.60
137	SHEOPUR	SHEOPUR	S-NPP	25.90910	76.81115	13:27:49	D	2.10
138	SHEOPUR	VIJAYPUR	S-NPP	26.01763	76.90114	13:27:49	D	2.40
139	SHEOPUR	VIJAYPUR	S-NPP	26.01821	76.90497	13:27:49	D	2.30
140	SHIVPURI	KARERA	S-NPP	25.50883	78.26675	13:27:49	D	4.90
141	SHIVPURI	KOLARAS	S-NPP	24.89478	77.73475	13:27:49	D	5.10
142	SHIVPURI	KOLARAS	S-NPP	24.90367	77.74885	13:27:49	D	5.00
143	SHIVPURI	KOLARAS	S-NPP	24.90948	77.64997	13:27:49	D	5.60
144	SHIVPURI	KOLARAS	S-NPP	24.92396	77.67868	13:27:49	D	1.90
145	SHIVPURI	KOLARAS	S-NPP	24.93381	77.61415	13:27:49	D	2.00
146	SHIVPURI	KOLARAS	S-NPP	24.95321	77.63023	13:27:49	D	4.50
147	SHIVPURI	KOLARAS	S-NPP	25.06415	77.89726	13:27:49	D	3.90
148	SHIVPURI	KOLARAS	S-NPP	25.08718	77.87428	13:27:49	D	4.60
149	SHIVPURI	KOLARAS	S-NPP	25.11154	77.62232	13:27:49	D	2.40
150	SHIVPURI	NARWAR	S-NPP	25.67593	77.92596	13:27:49	D	2.70
151	SHIVPURI	SHIVPURI	S-NPP	25.47616	77.62379	13:27:49	D	4.40
152	UJJAIN	TARANA	S-NPP	23.53230	75.95207	13:27:49	D	2.90
153	UMARIA	MANPUR	S-NPP	23.49461	80.91572	13:27:49	D	2.80
154	VIDESHA	BASODA	S-NPP	23.78802	78.11223	13:27:49	D	2.10
155	VIDESHA	GYARASPUR	S-NPP	23.67685	77.95261	13:27:49	D	3.30
156	VIDESHA	KORWAI	S-NPP	24.25603	78.03486	13:27:49	D	3.70
157	VIDESHA	KORWAI	S-NPP	24.27267	78.03194	13:27:49	D	5.70
158	VIDESHA	LETERI	S-NPP	24.01629	77.42080	13:27:49	D	3.10
159	VIDESHA	VIDESHA	S-NPP	23.51824	77.61781	13:27:49	D	1.70
160	VIDESHA	VIDESHA	S-NPP	23.74483	77.82114	13:27:49	D	3.60

**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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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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