



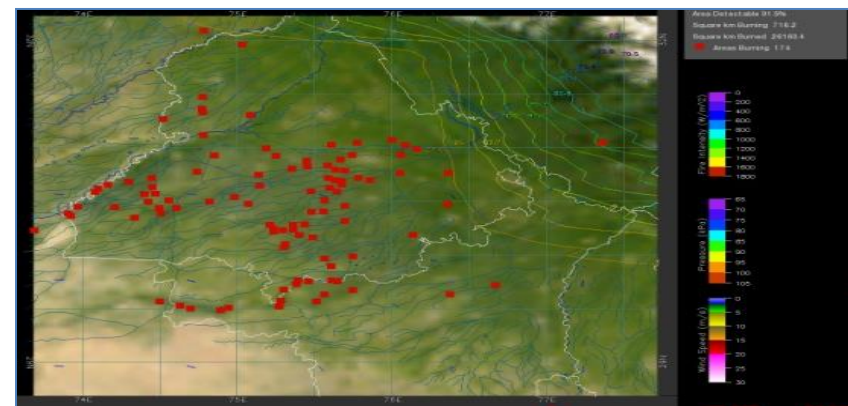
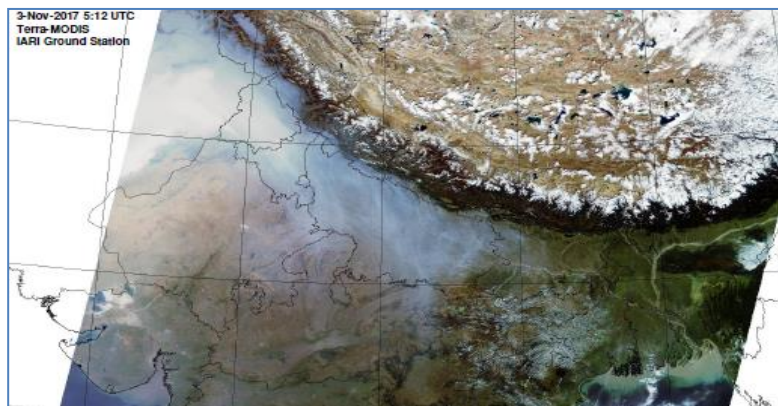
**Bulletin
No. 40**

**Events Date:
24-Oct-2023**

**Issued on:
24-Oct-2023**



MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2023



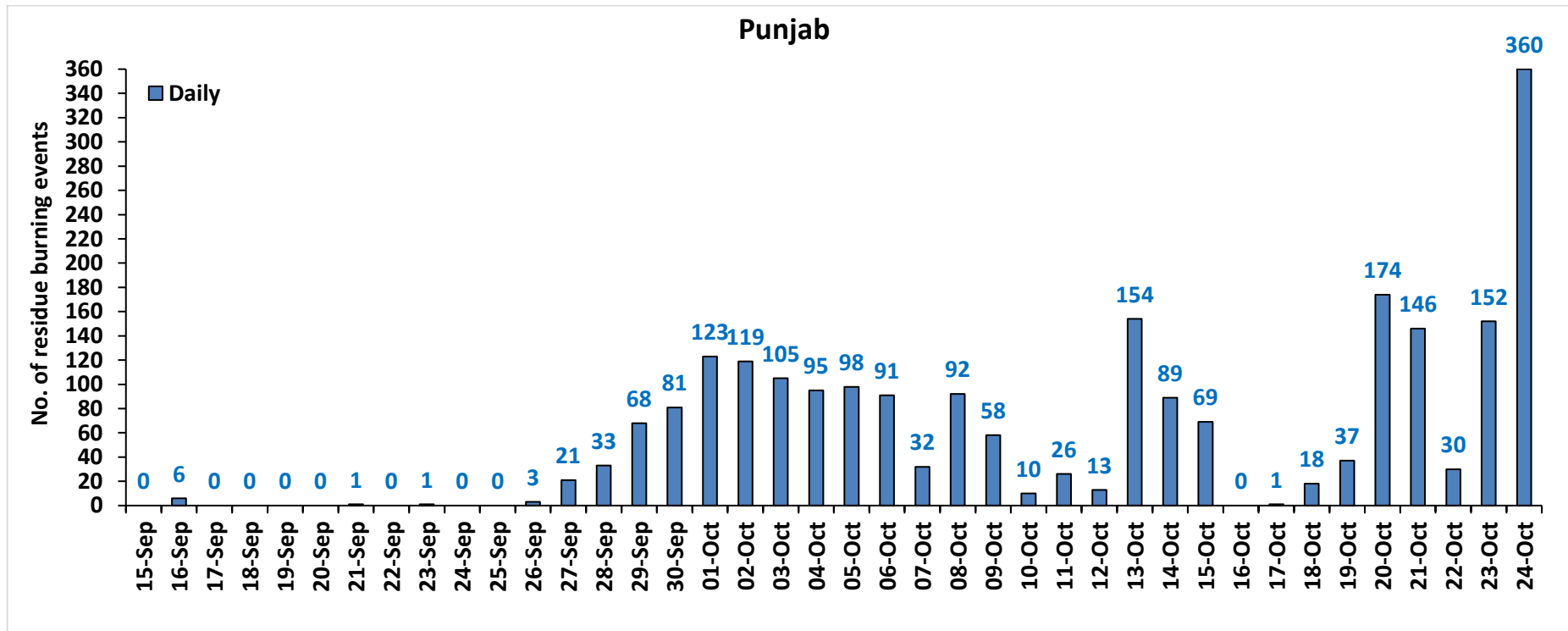
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

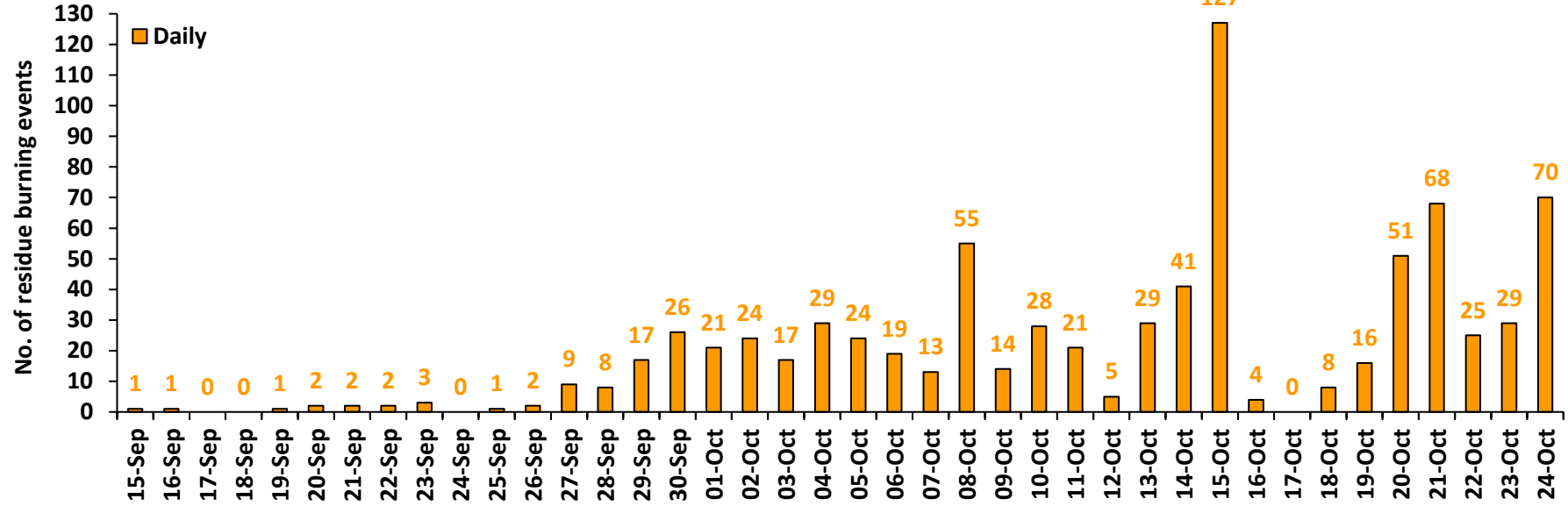
Highlights for 24-Oct-2023

- 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 **638** residue burning events in the six study States on 24-Oct-2023.
- The state wise events detected on 24-Oct-2023 were **360** in Punjab, **70** in Haryana, **38** in UP, **00** in Delhi, **38** in Rajasthan and **132** in MP.
- Total **5331** burning events were detected in the six states between 15-Sept-2023 and 24-Oct-2023, which are distributed as **2306**, **813**, **598**, **02**, **510** and **1102** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

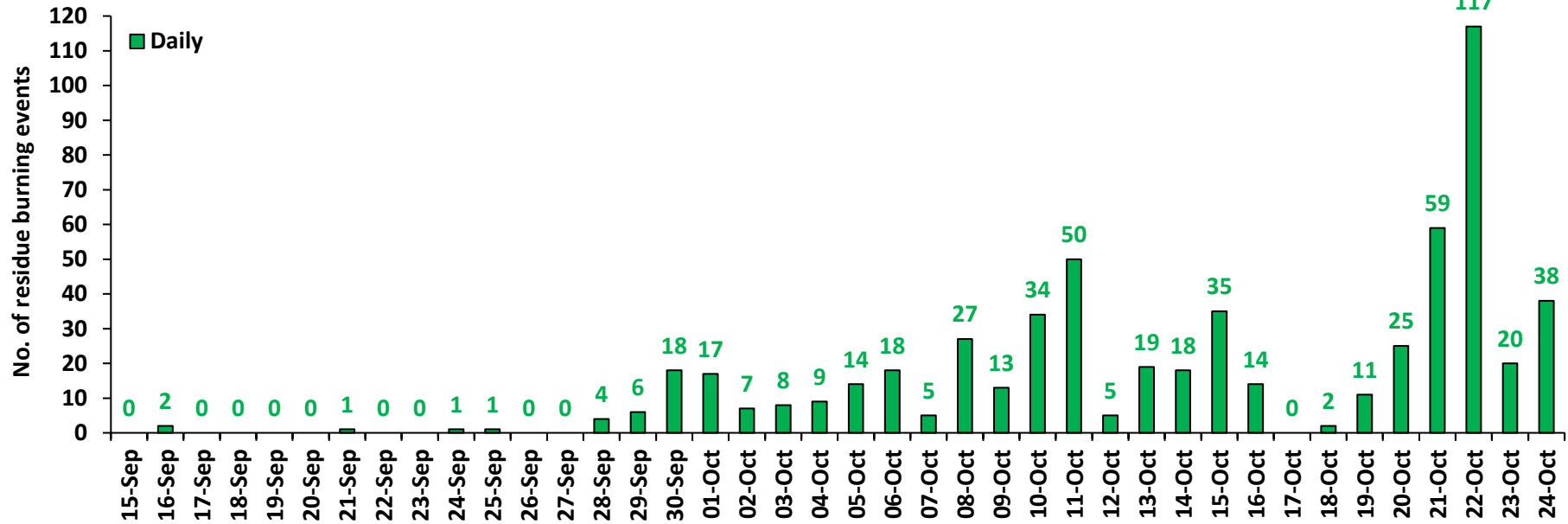
Temporal distribution of rice residue burning events for the study States in 2023



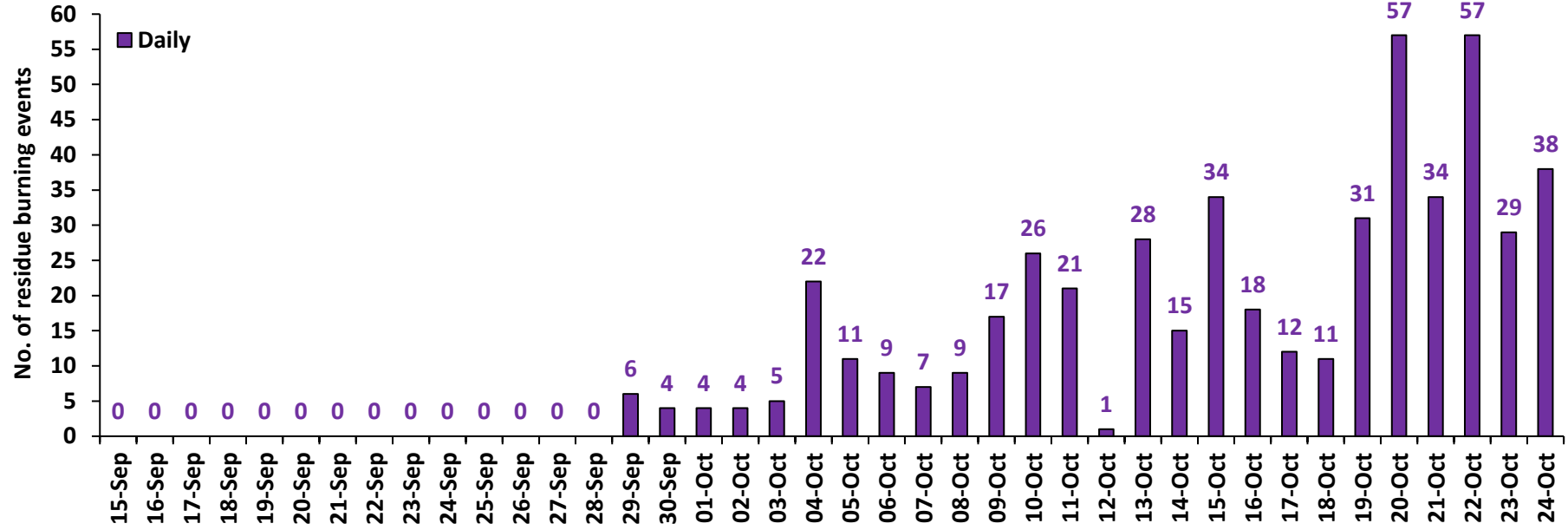
Haryana



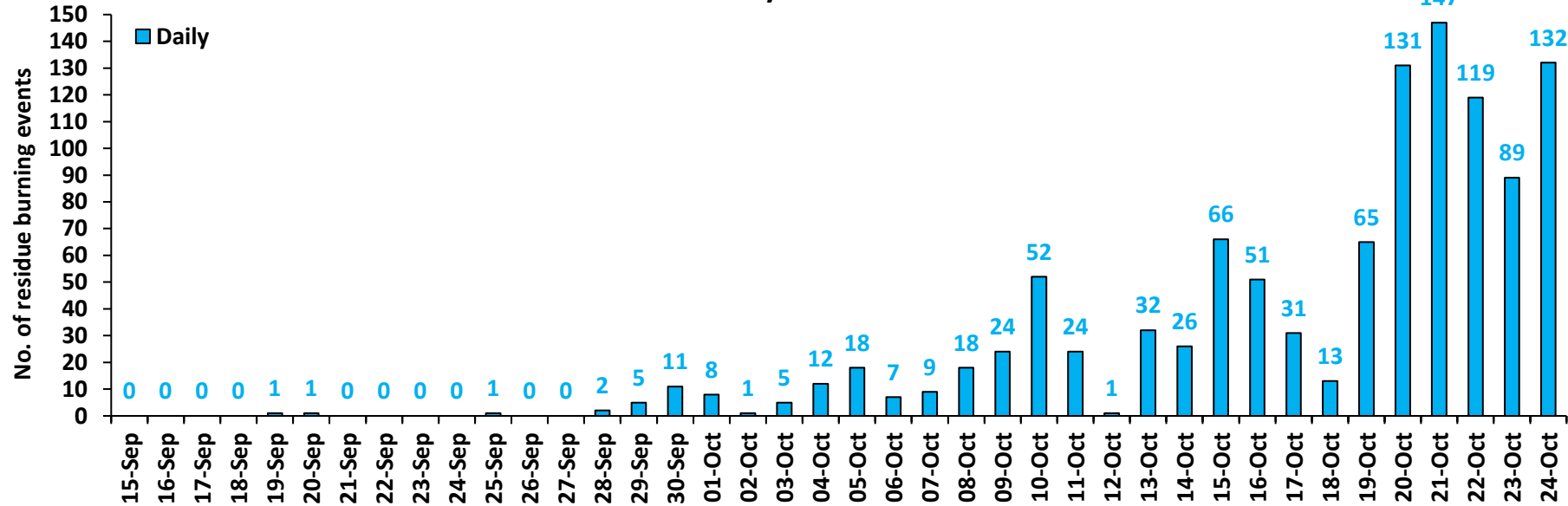
Uttar Pradesh



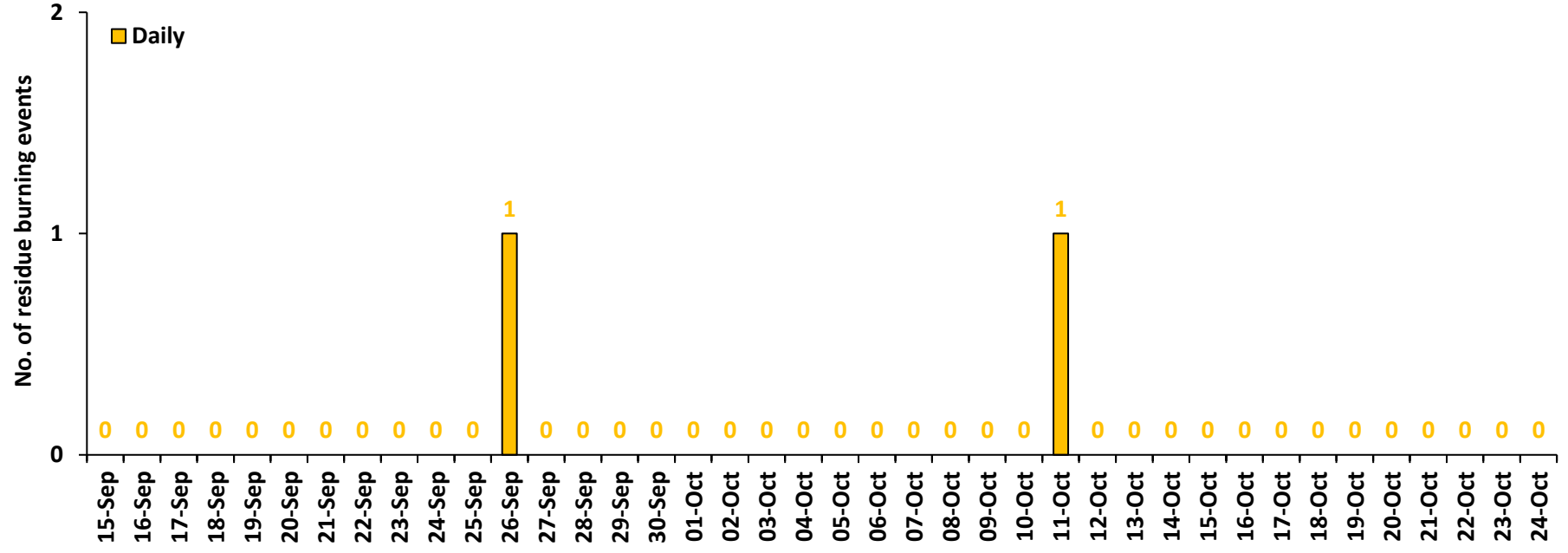
Rajasthan



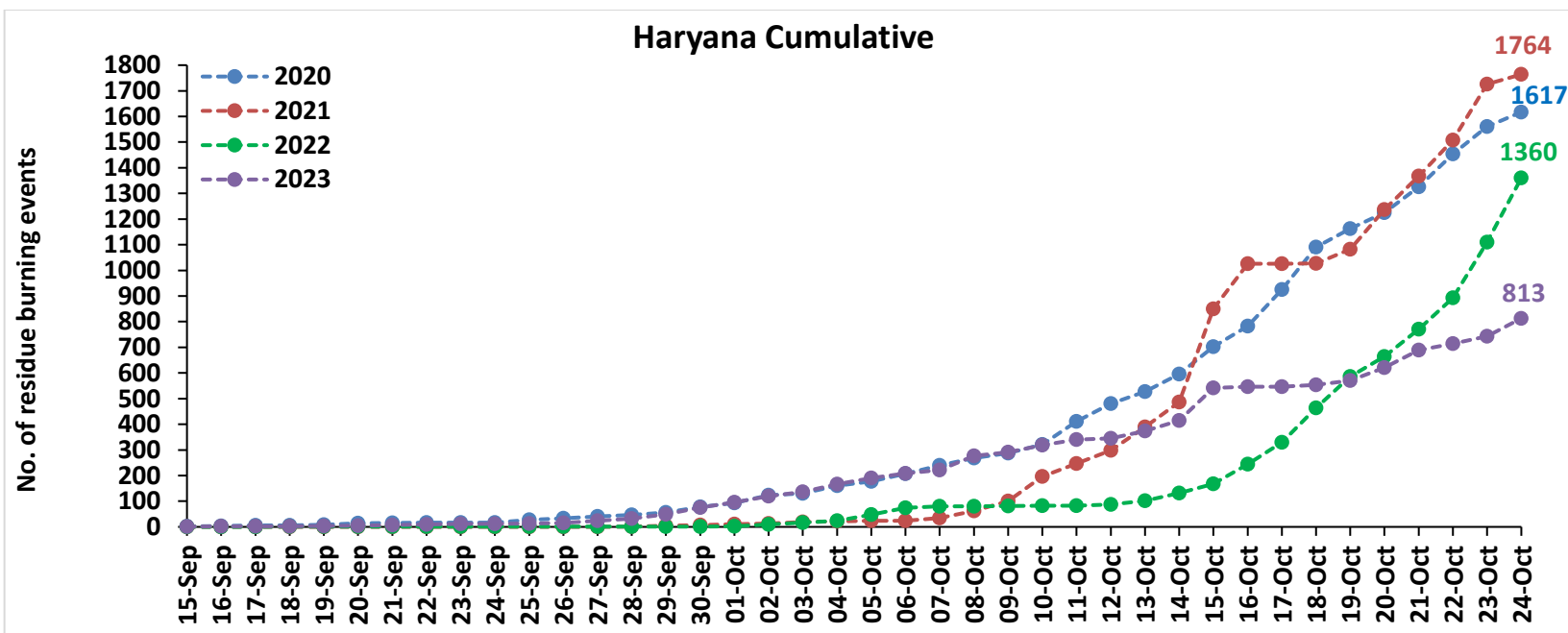
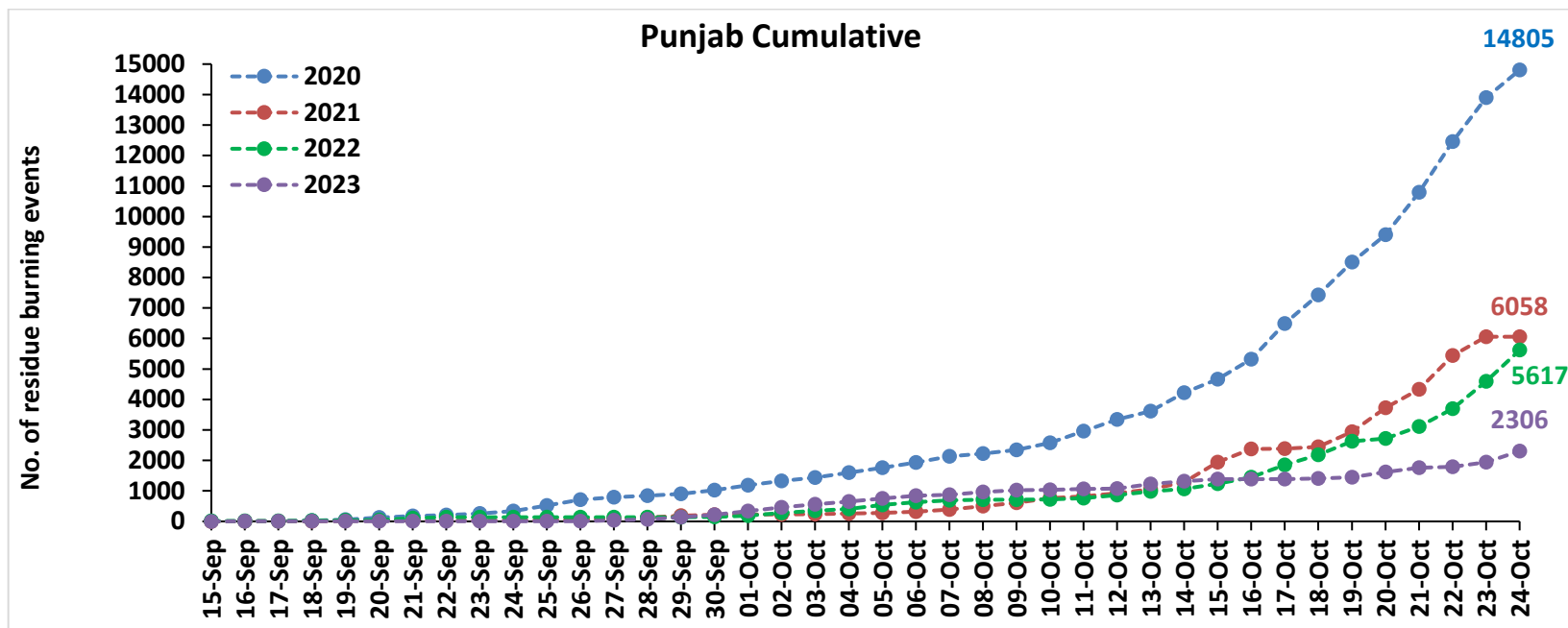
Madhya Pradesh

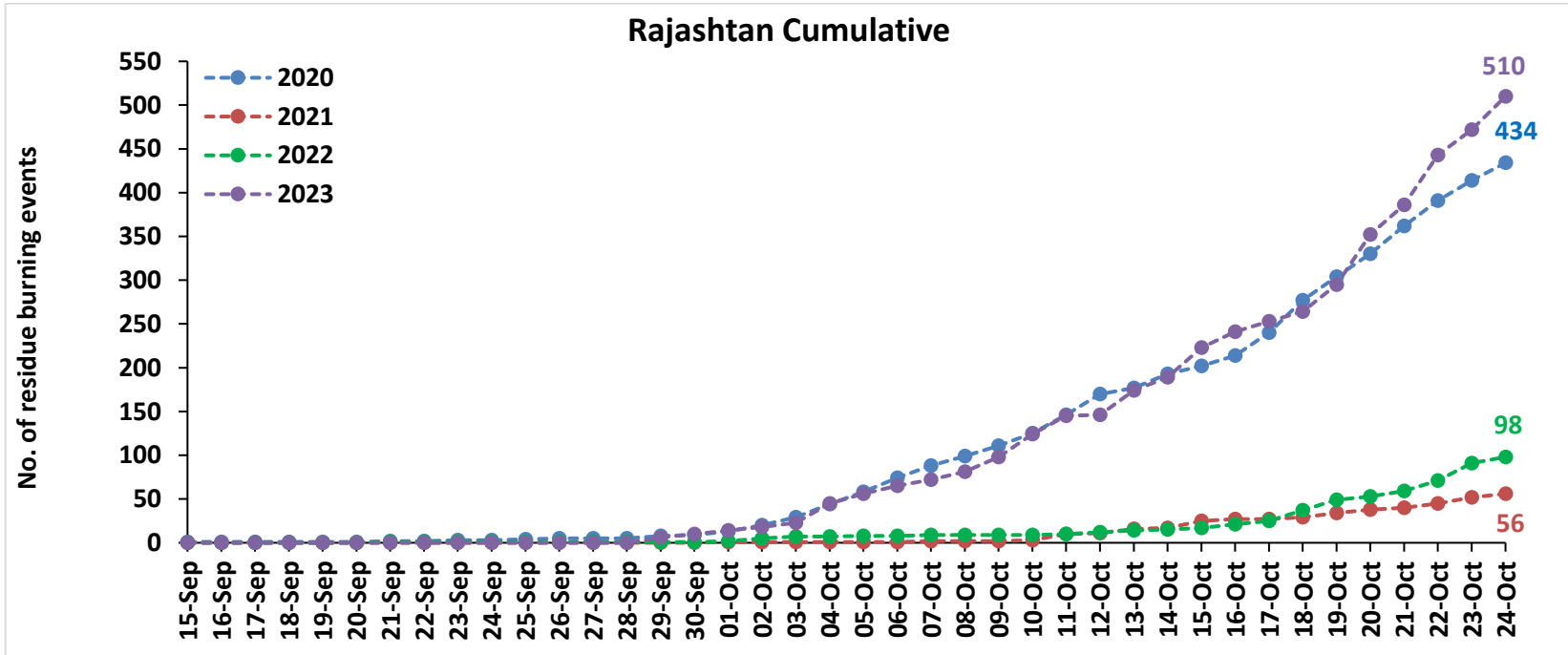
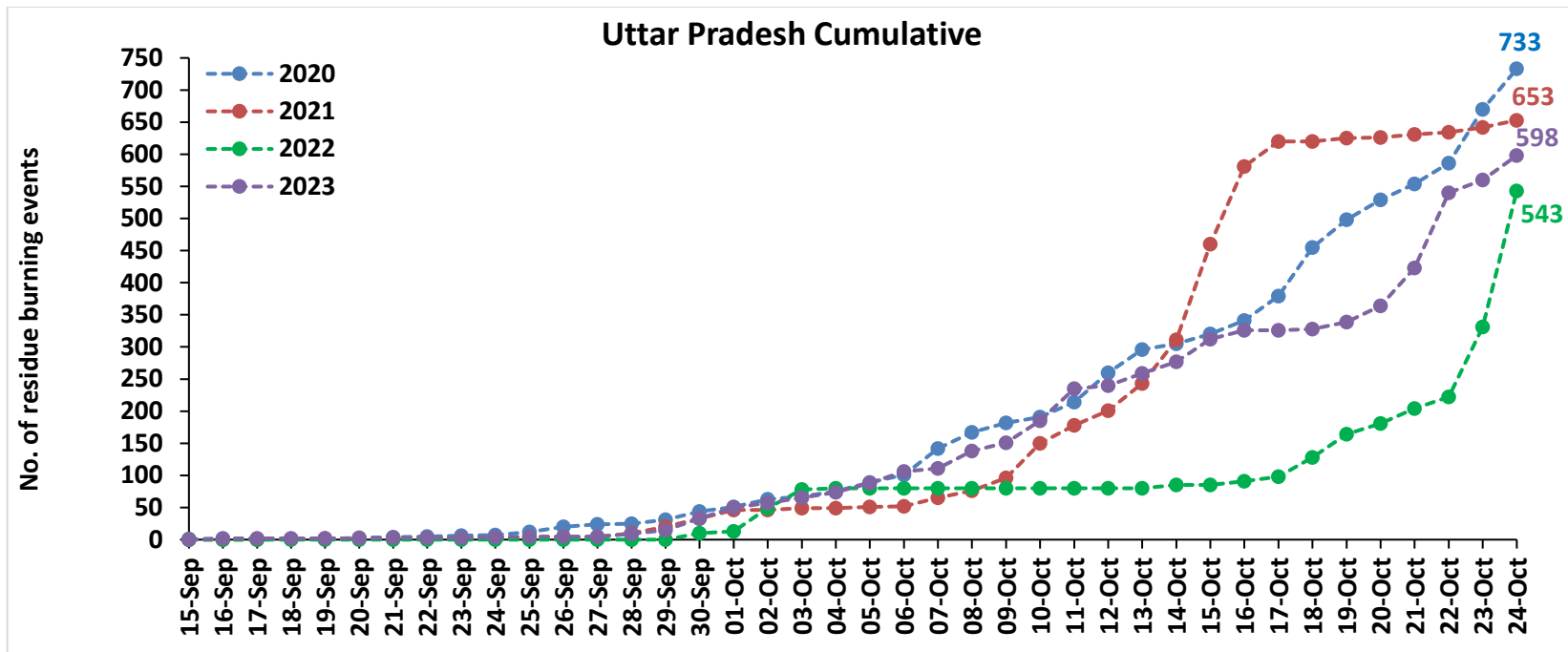


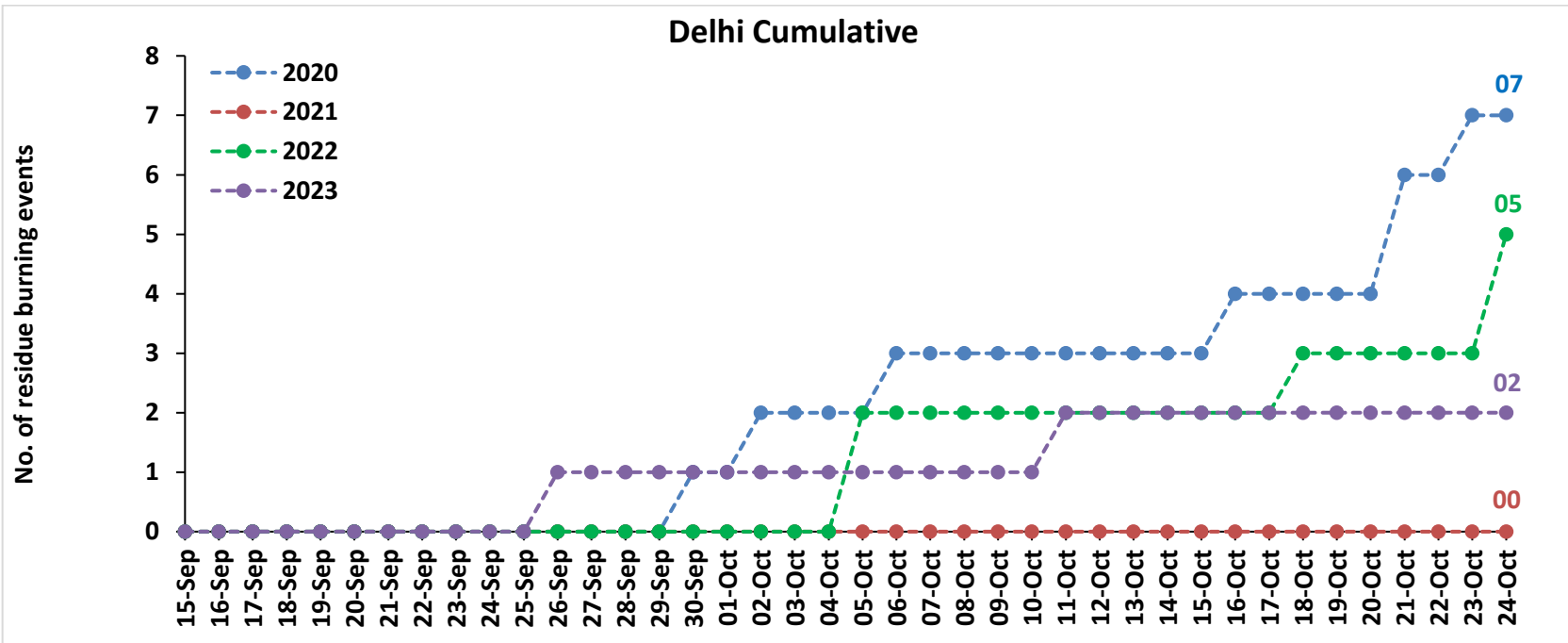
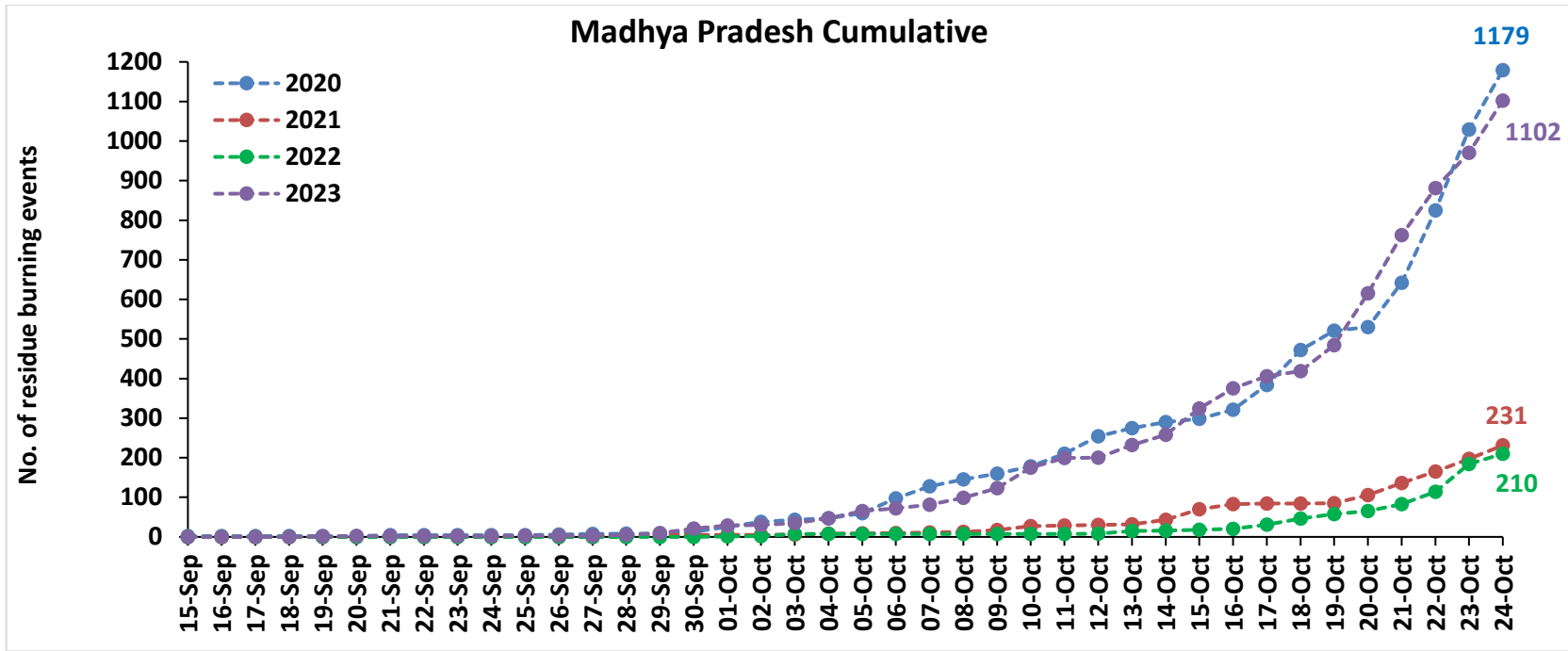
Delhi



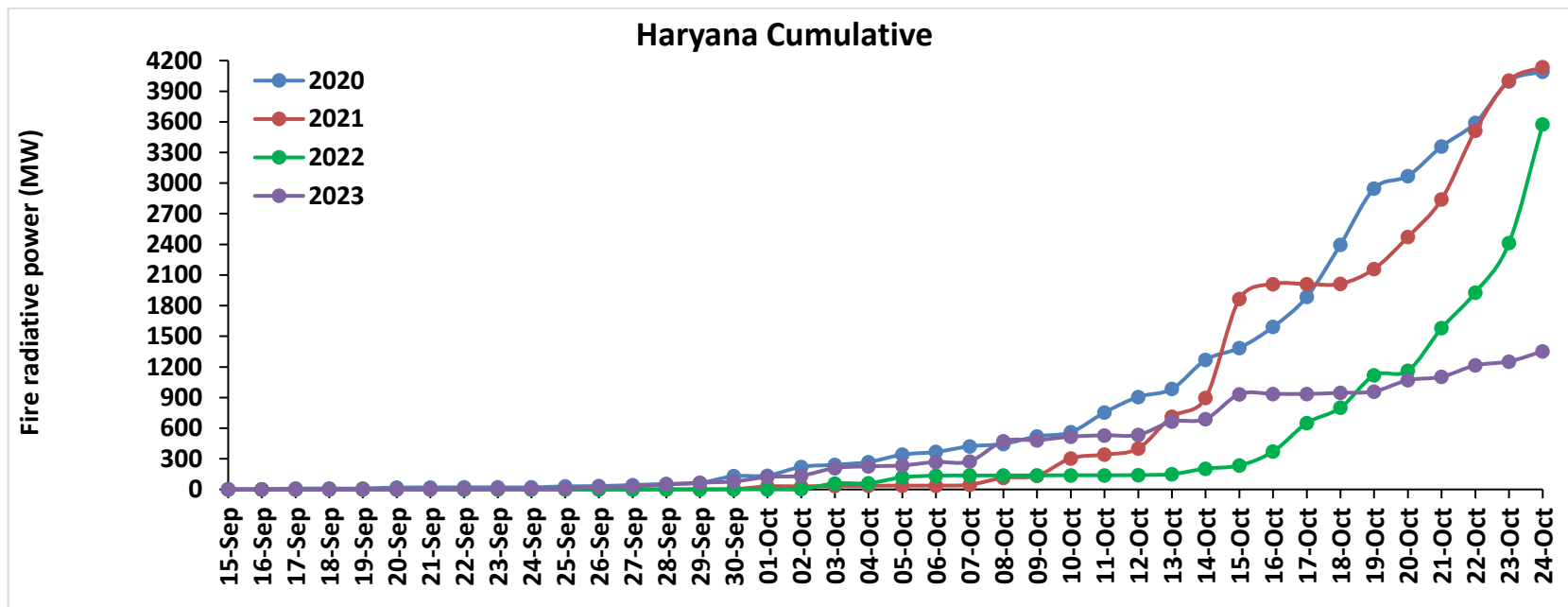
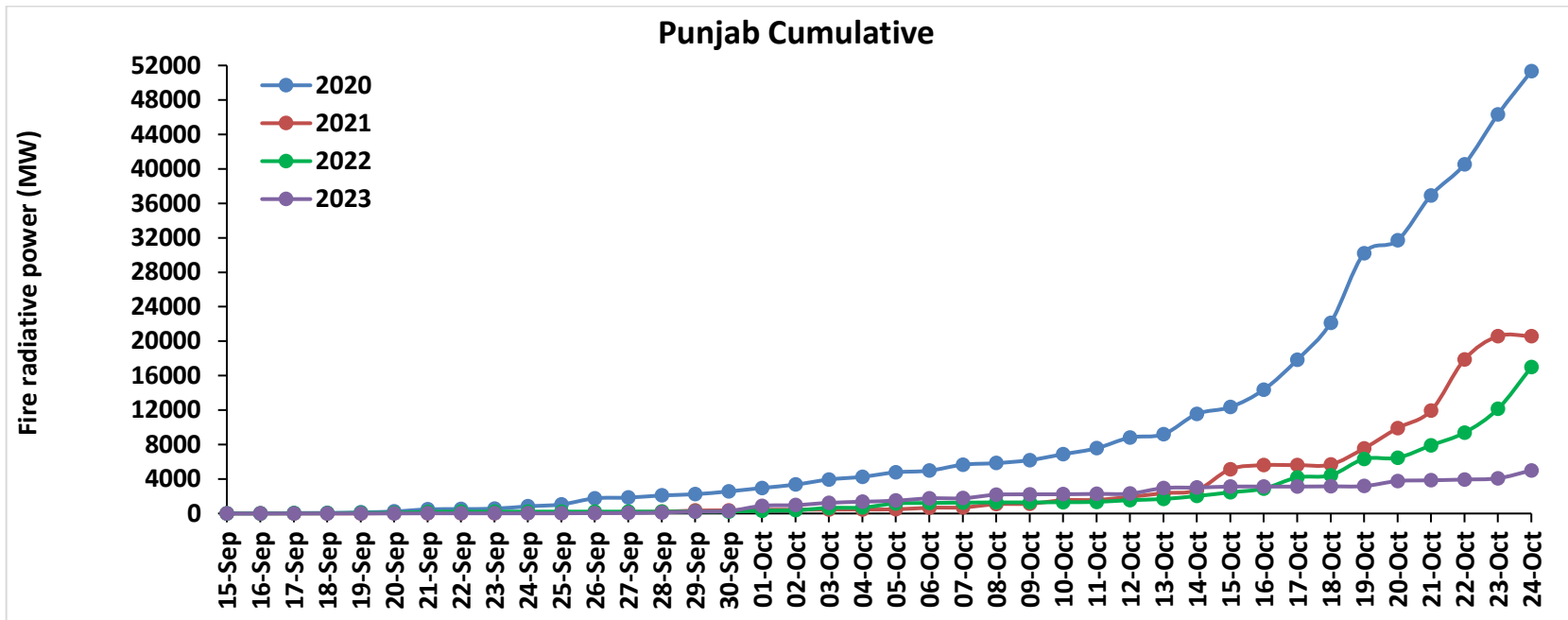
Comparison of residue burning events in current year (2023) with previous years (2020, 2021 and 2022) for the study State

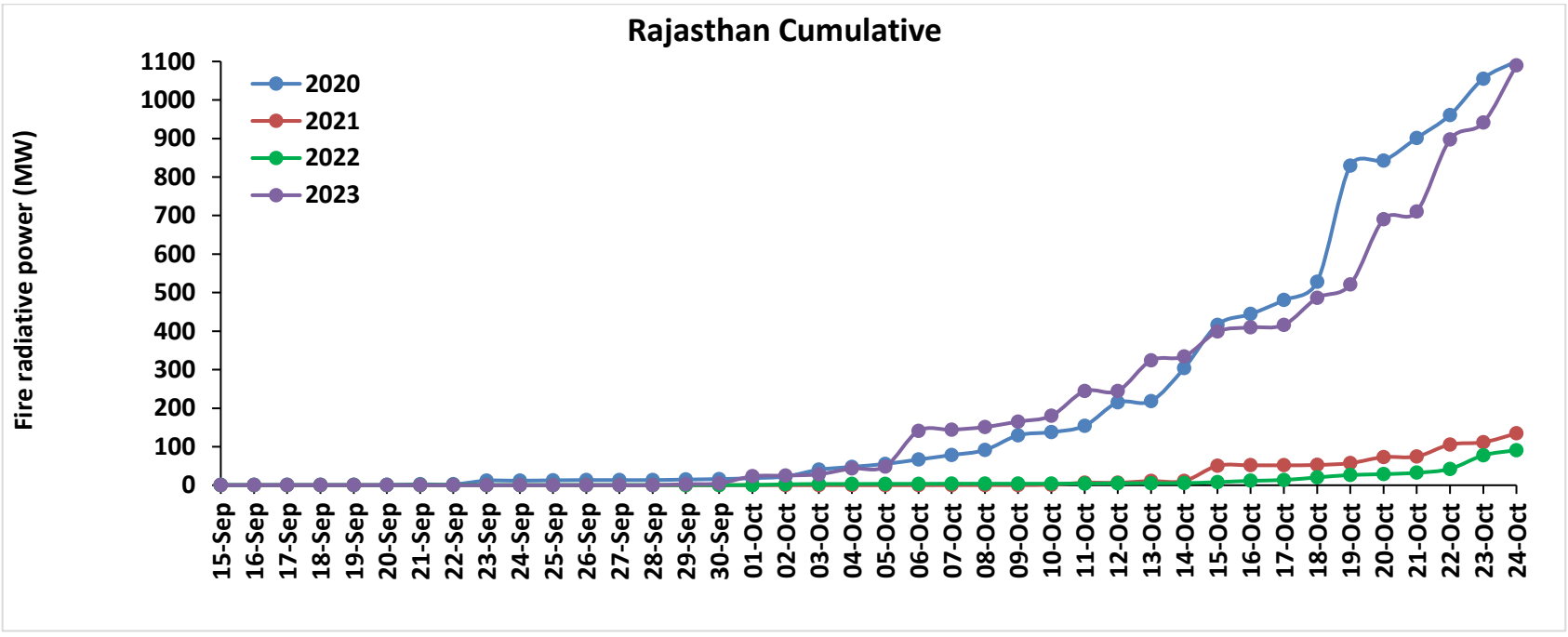
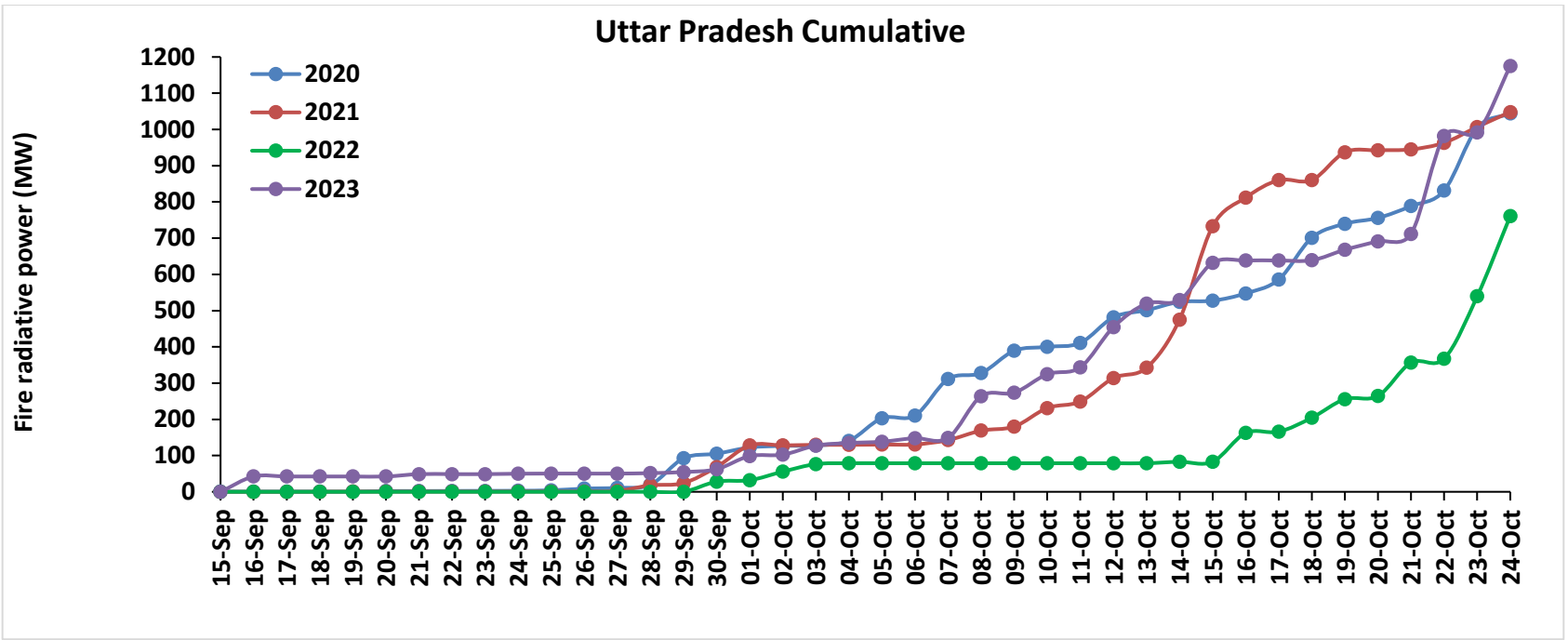


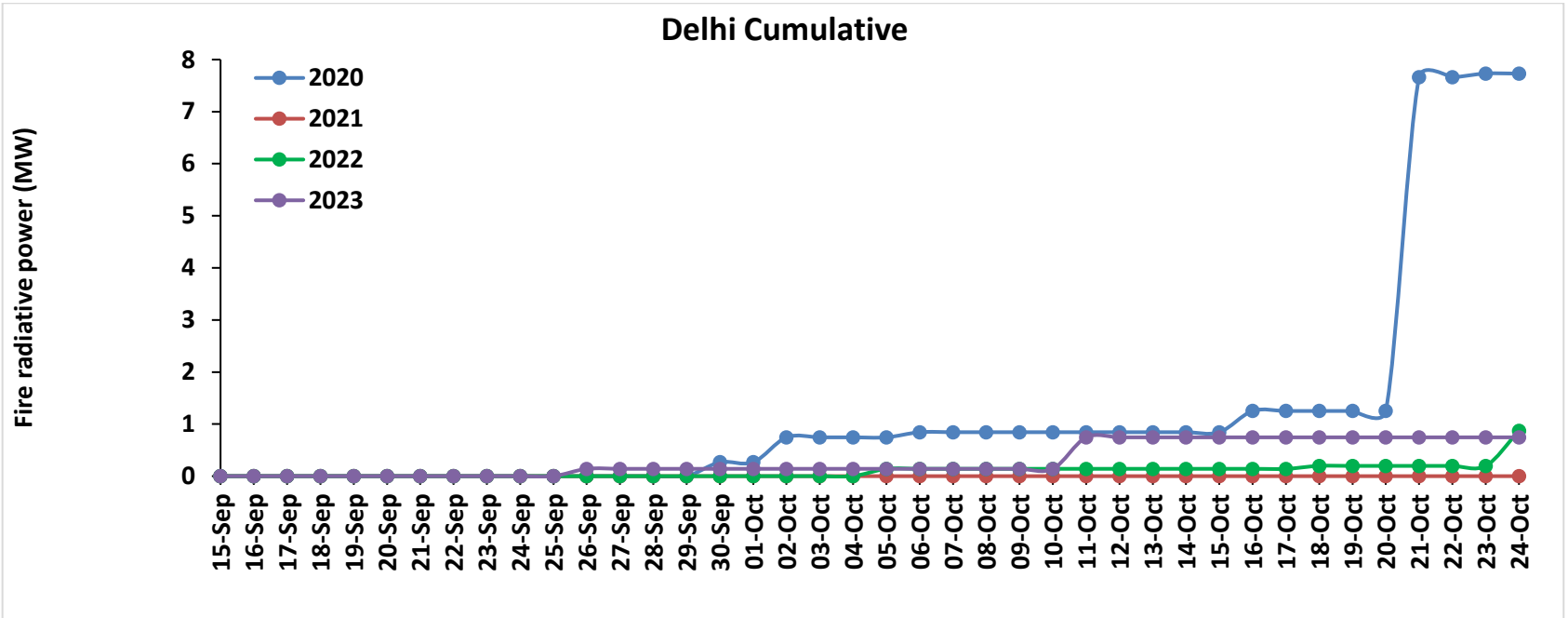
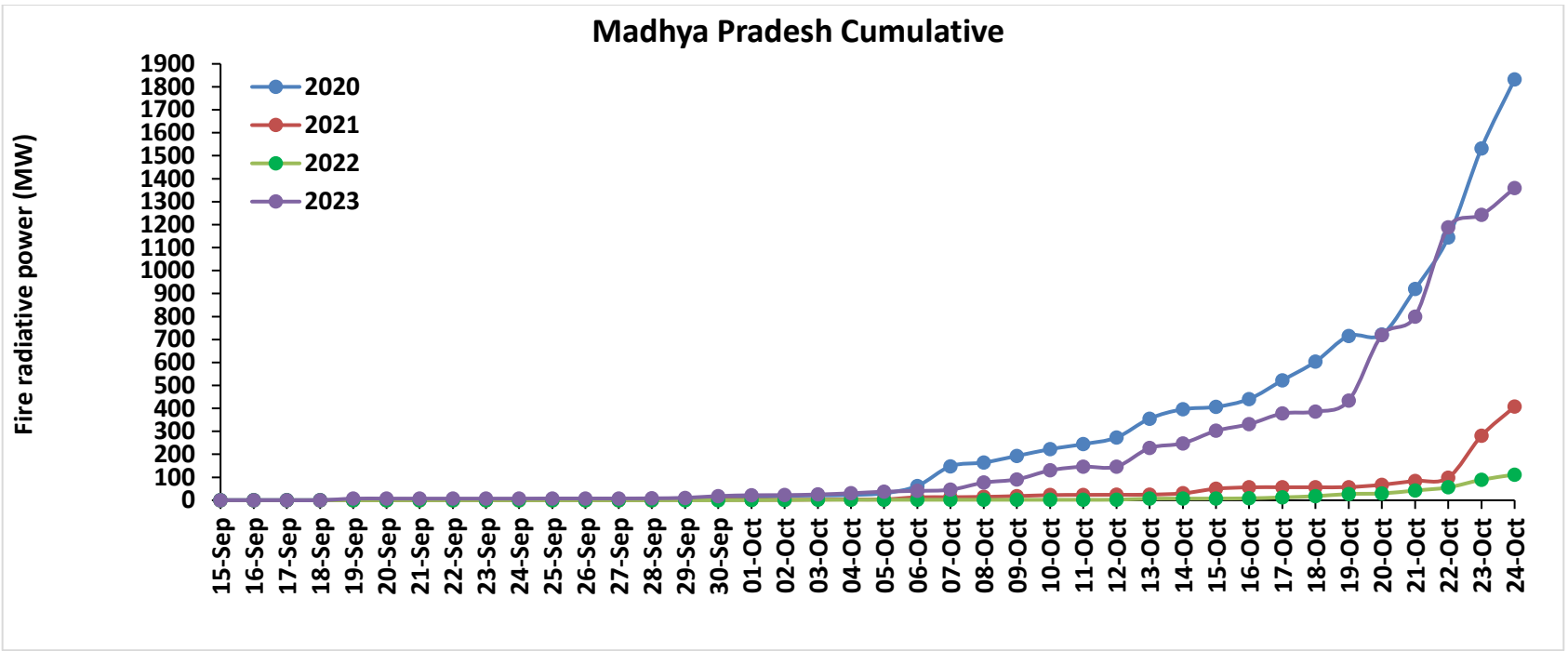




Comparison of residue burning fire power in current year (2023) with previous years (2020, 2021 and 2022) for the study States

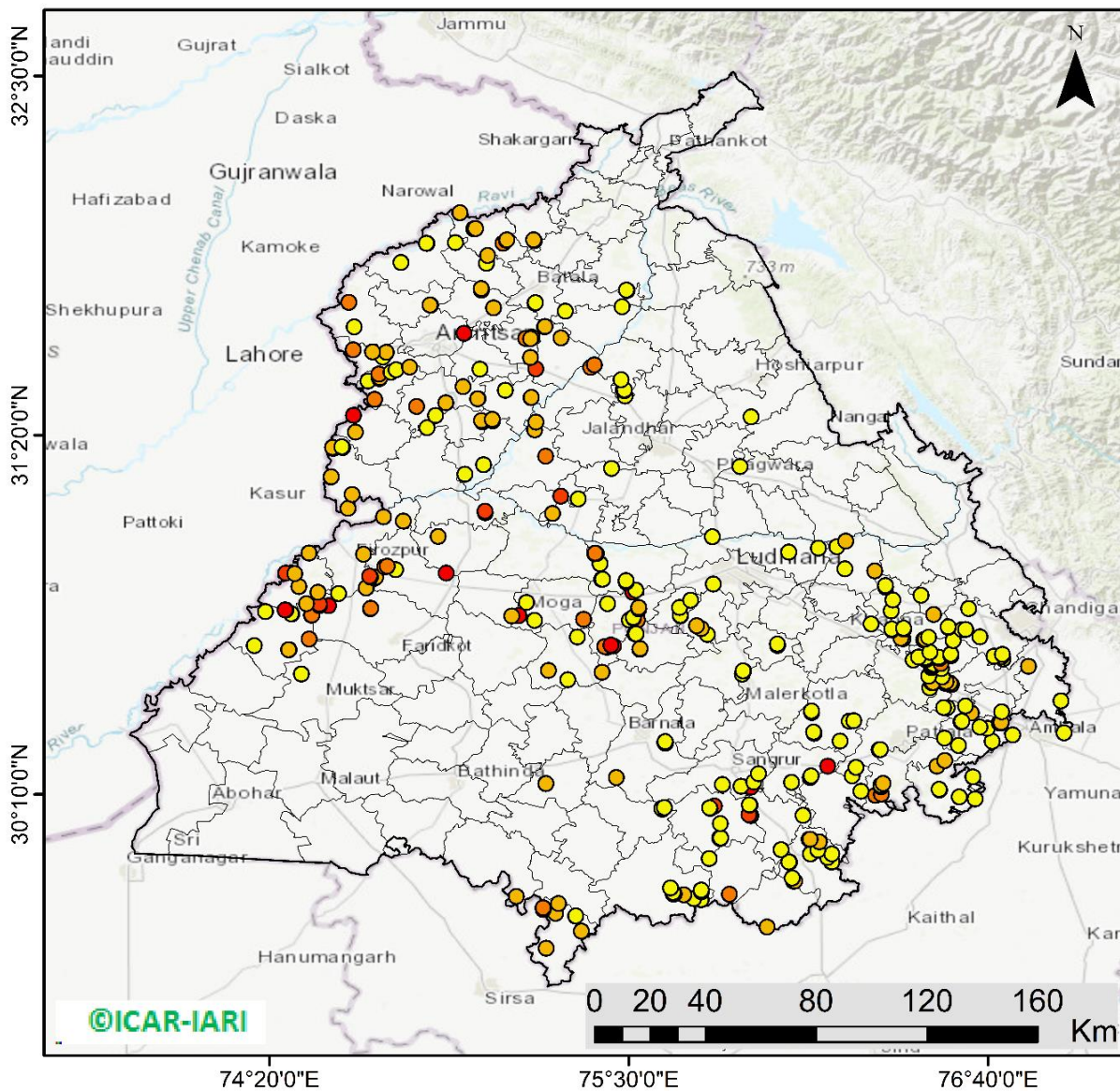






Punjab

RICE RESIDUE BURNING IN PUNJAB



360 burning events detected in Punjab during (24th Oct 2023)

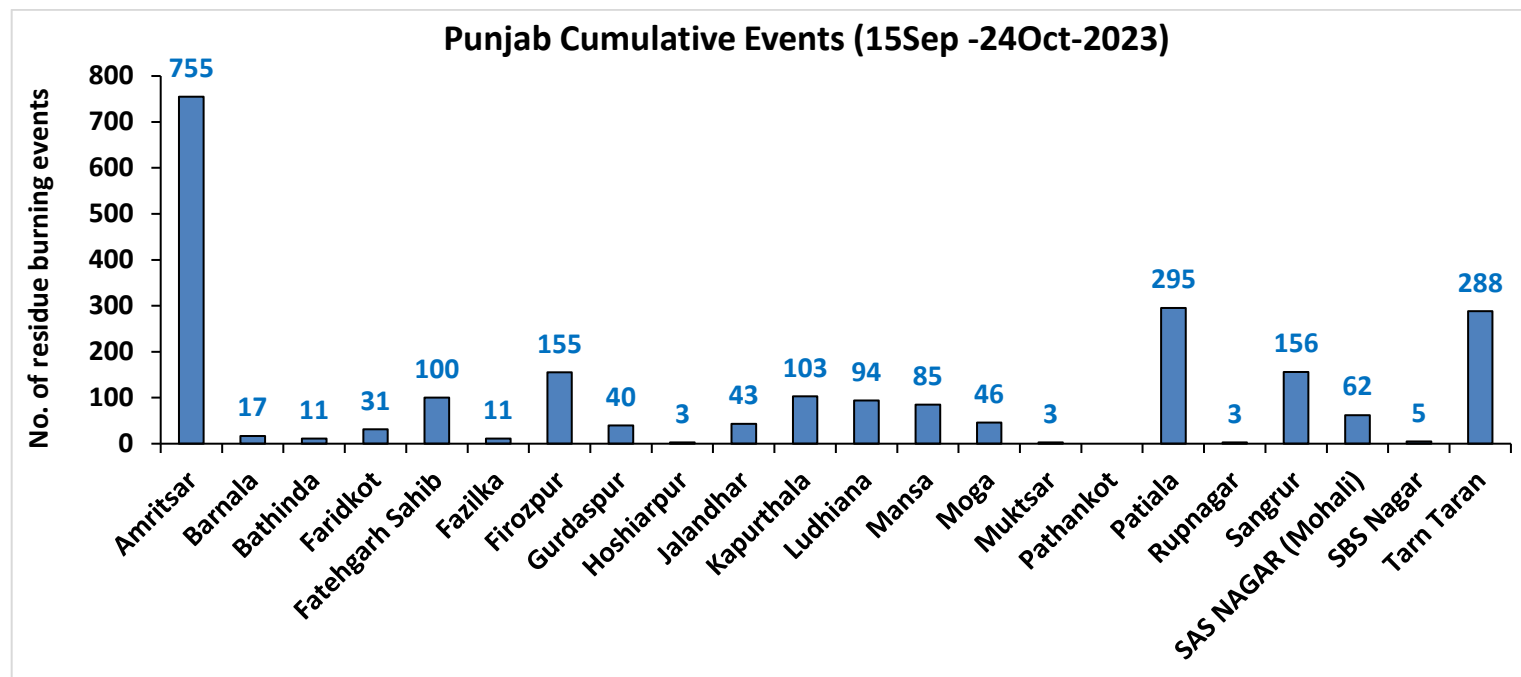
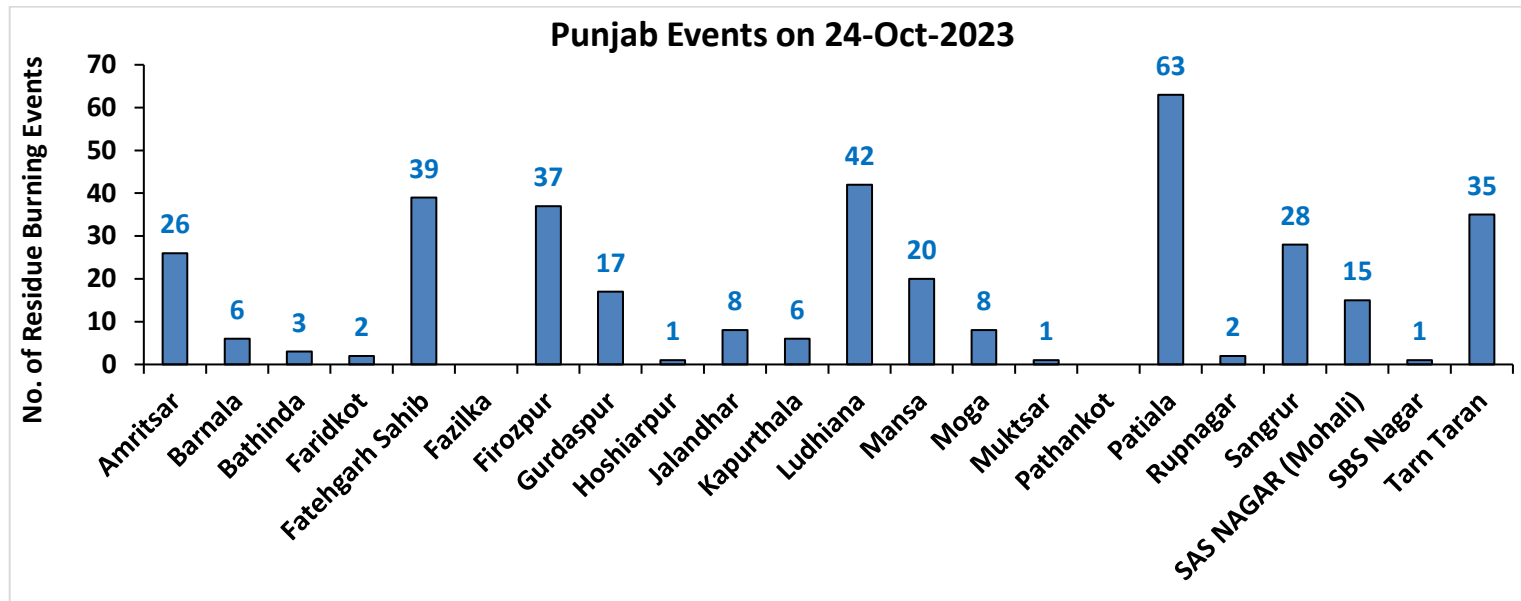
Fire Intensity (W/m²)

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



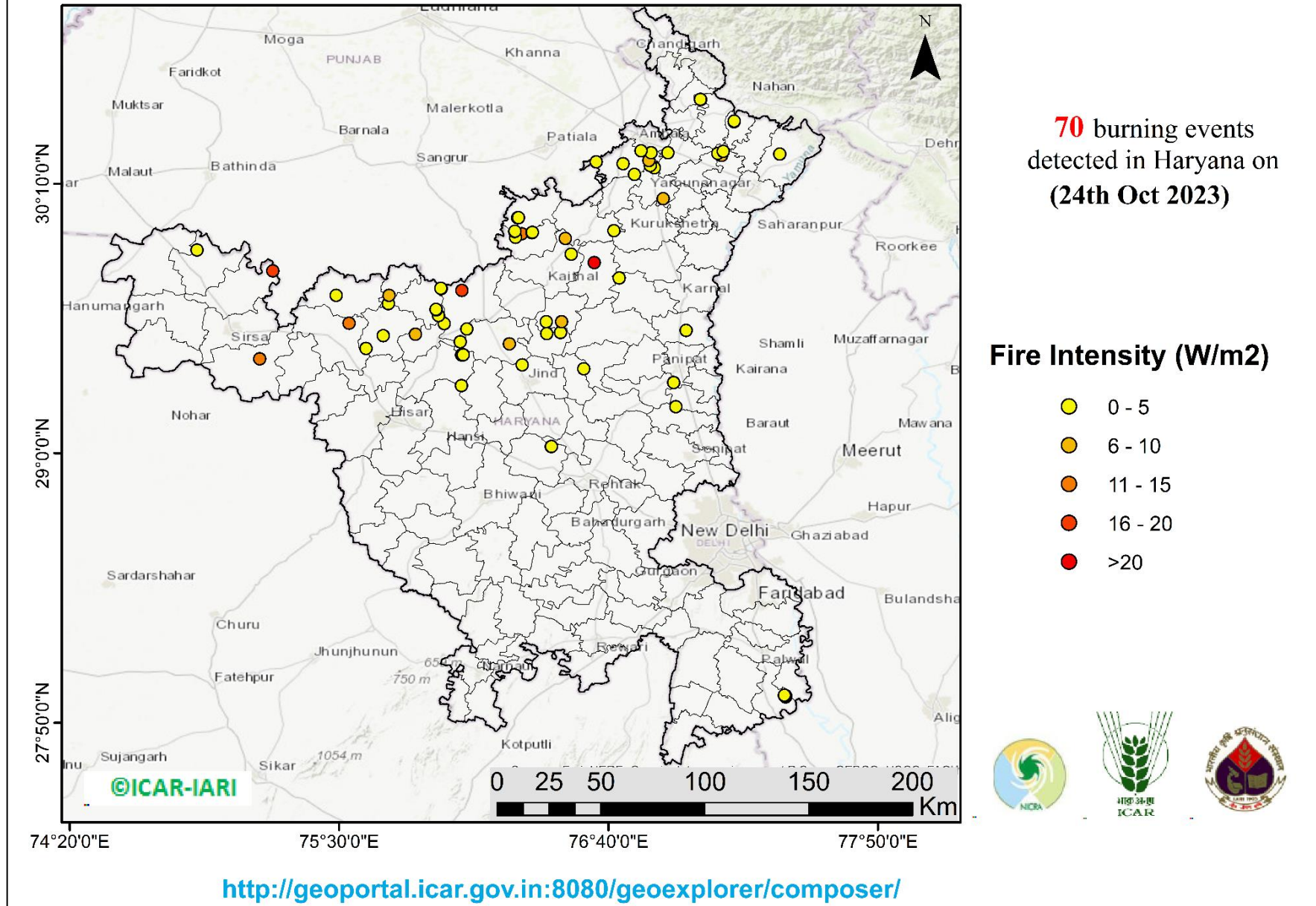
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15Sep- 24Oct-2023)

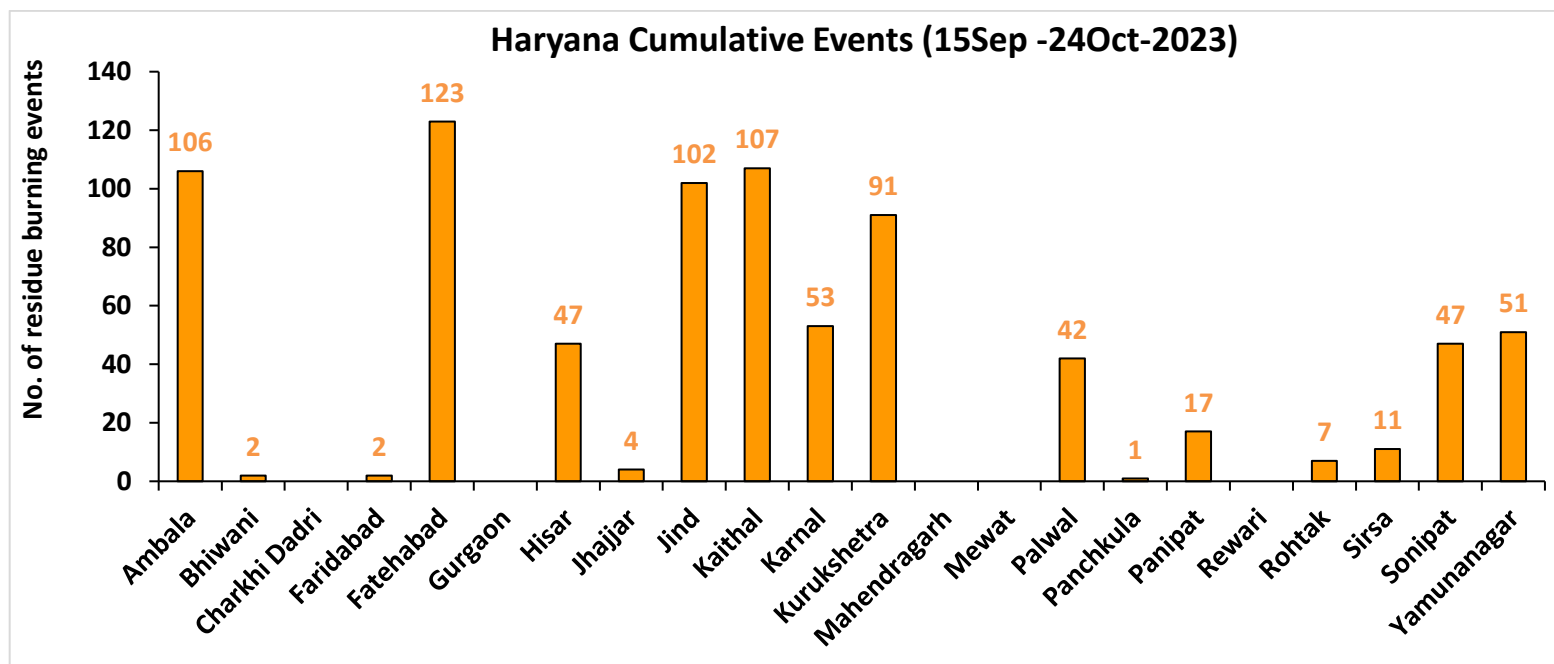
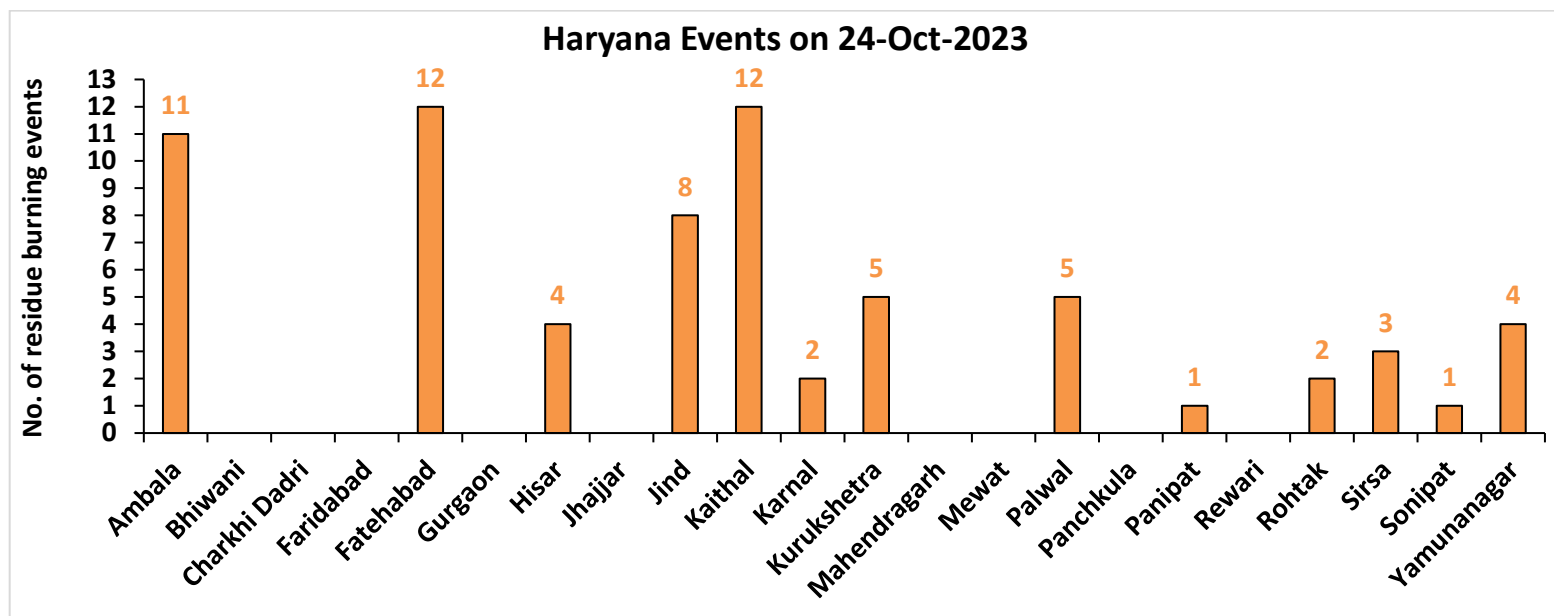


Haryana

RICE RESIDUE BURNING IN HARYANA

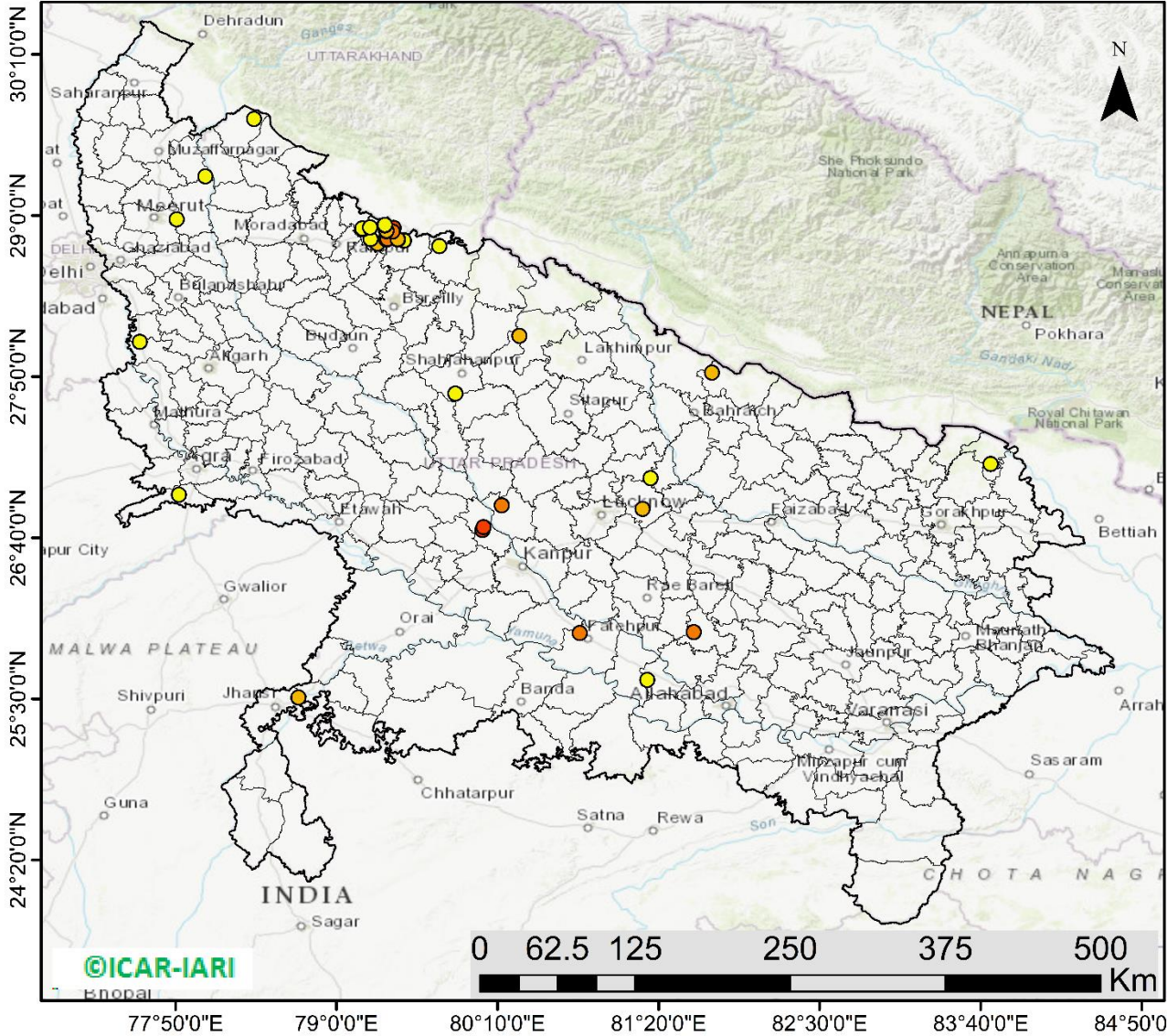


District-wise cumulative number of residues burning events in Haryana (15Sep-24Oct -2023)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



38 burning events detected in Uttar Pradesh on (24th Oct 2023)

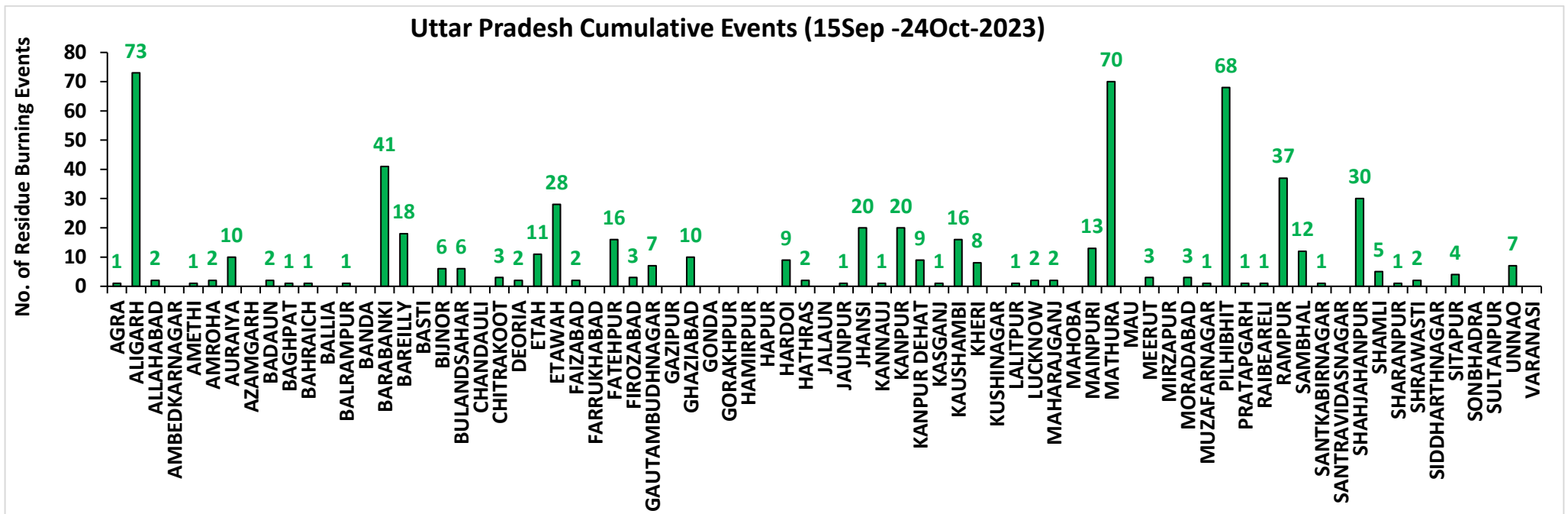
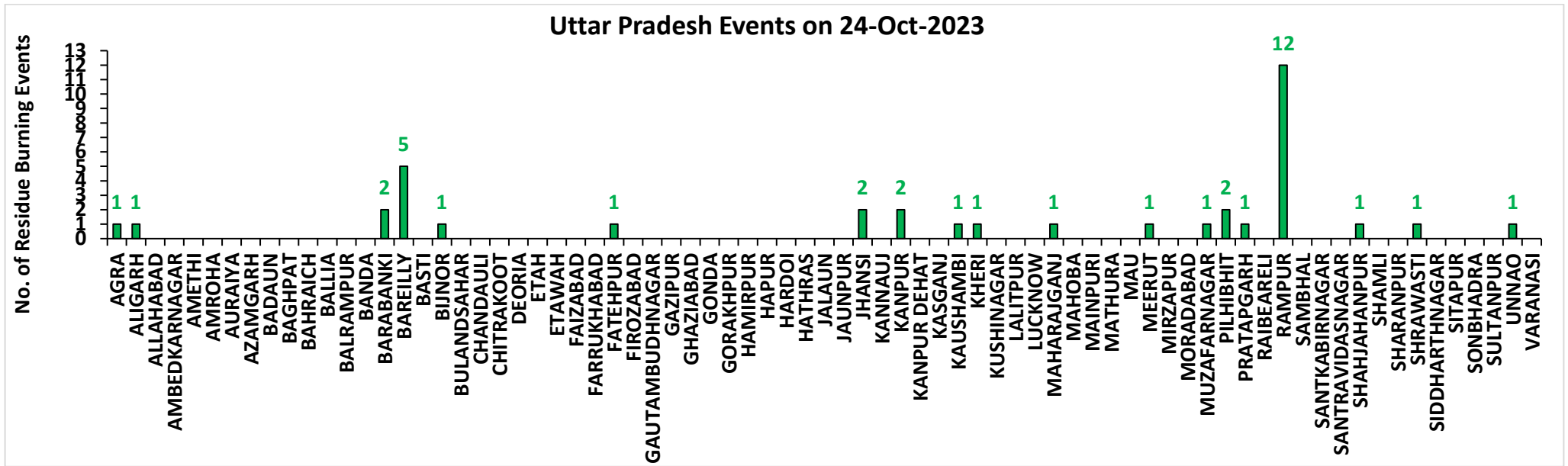
Fire Intensity (W/m2)

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



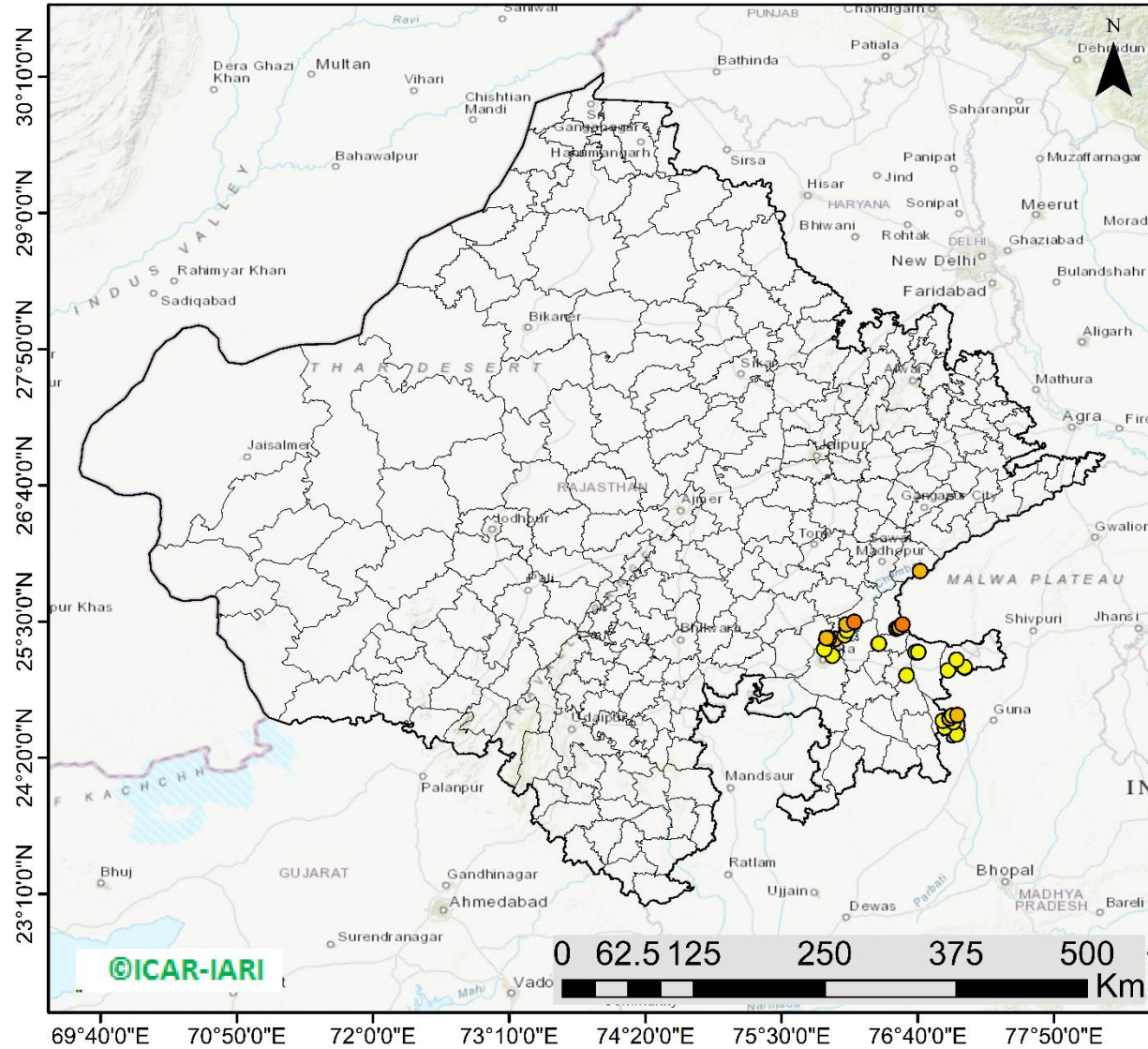
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-24Oct -2023)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



38 burning events
detected in Rajasthan on
(24th Oct 2023)

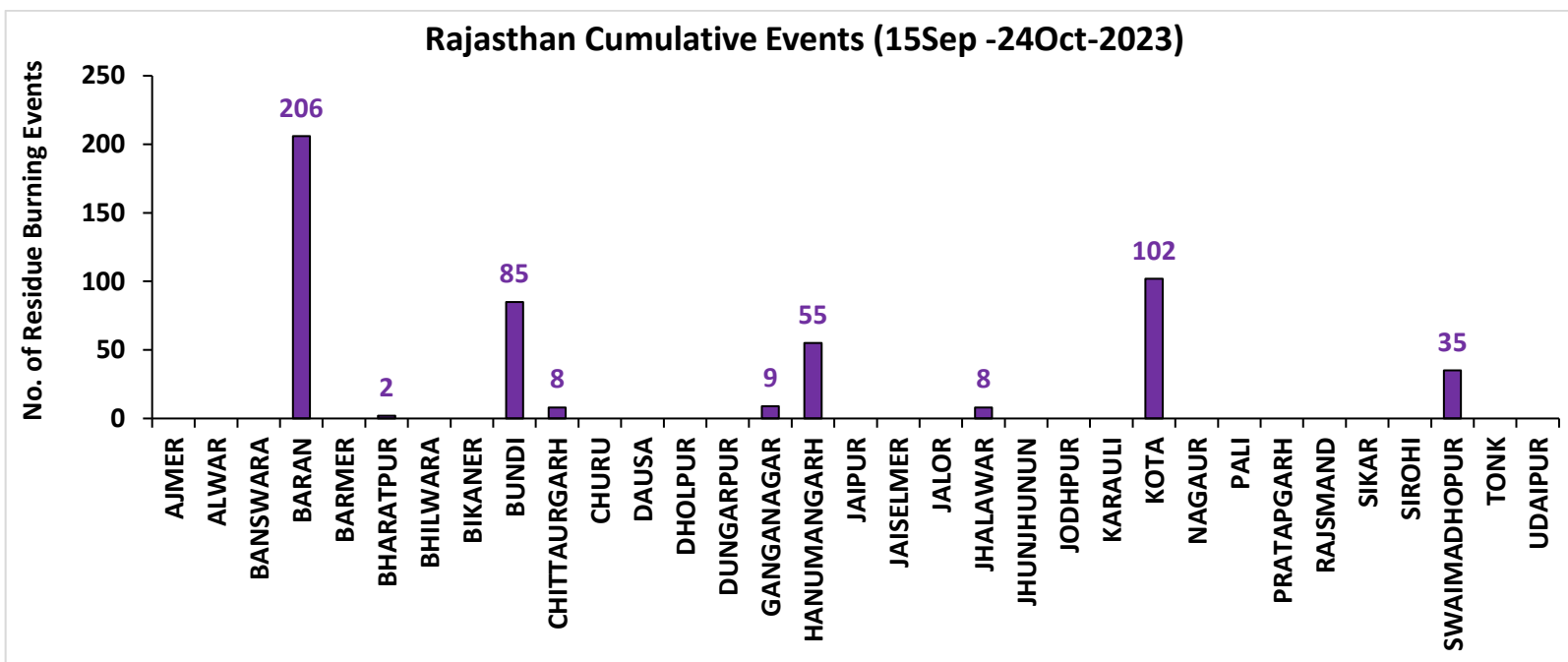
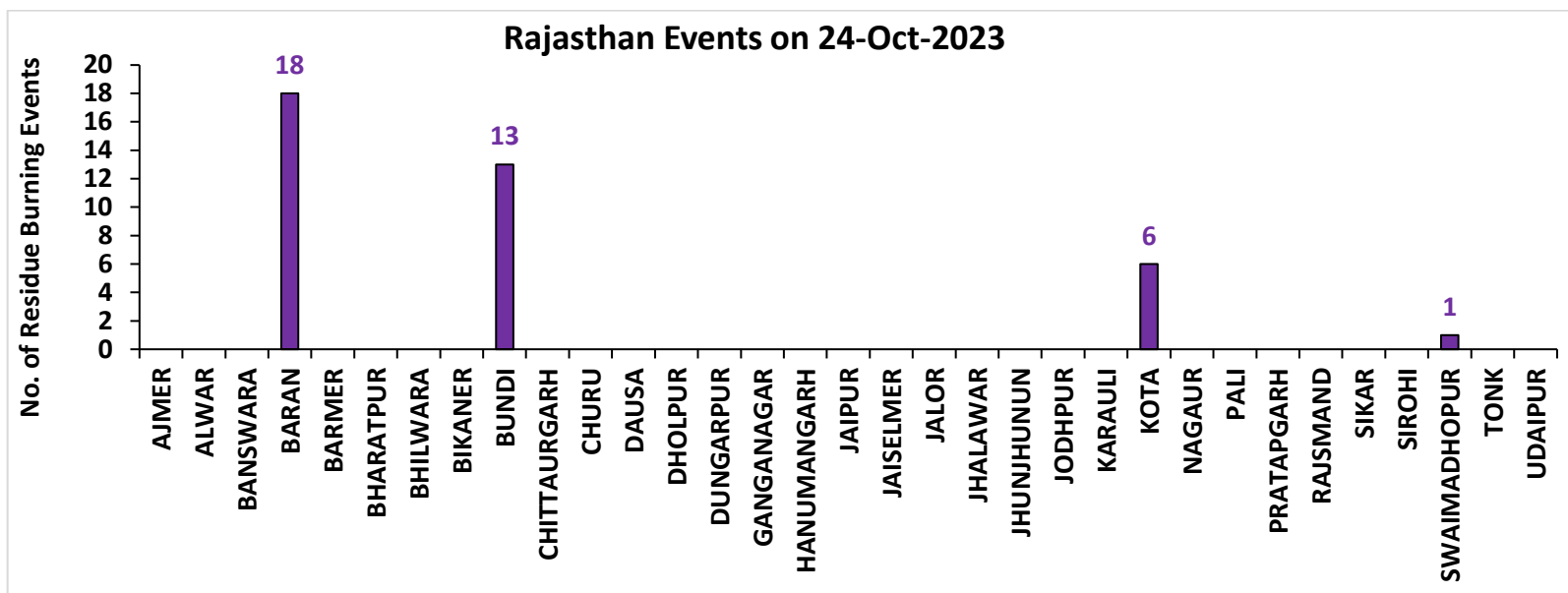
Fire Intensity (W/m²)

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



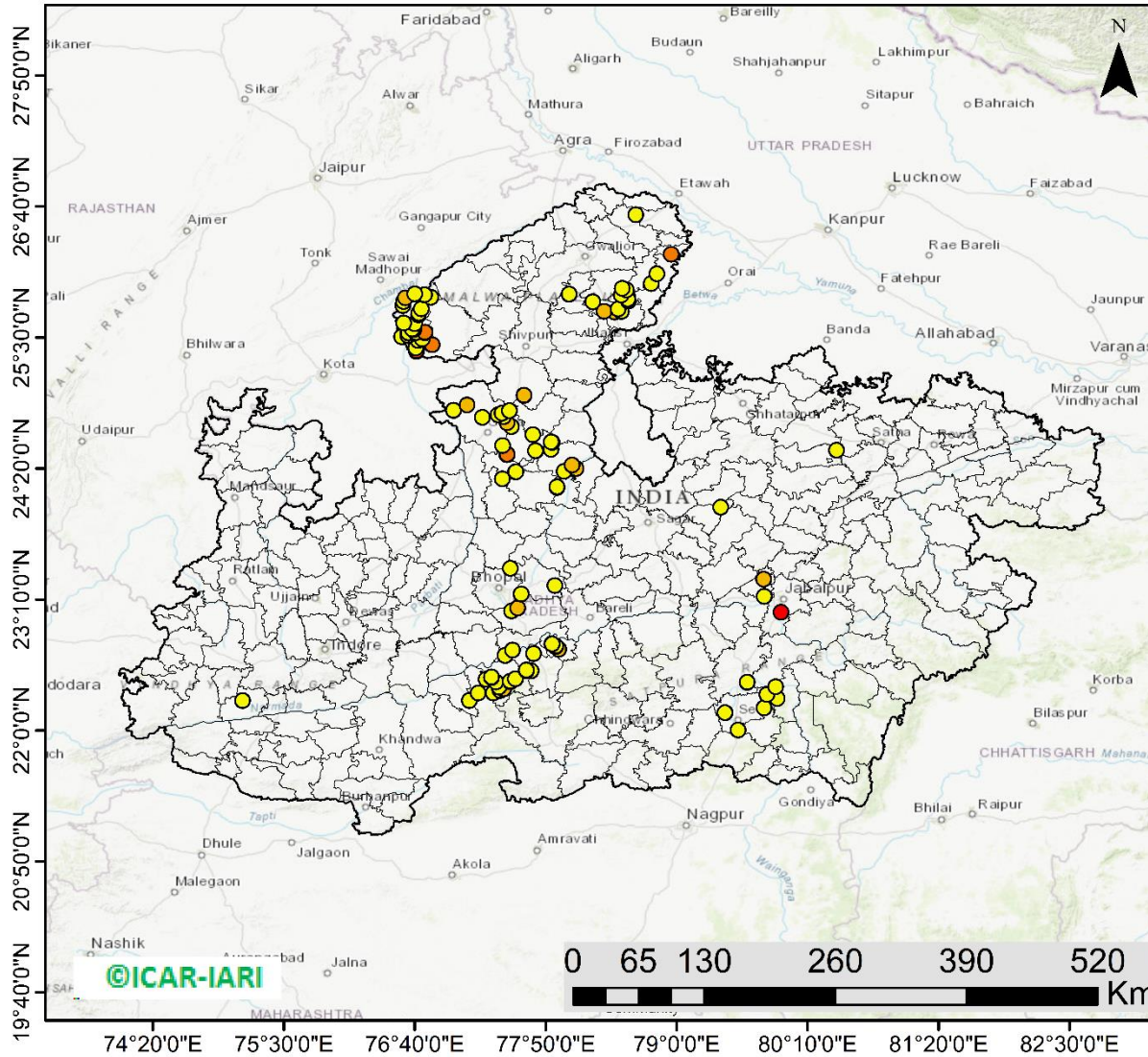
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15Sep-24Oct -2023)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



132 burning events detected in MP on (24th Oct 2023)

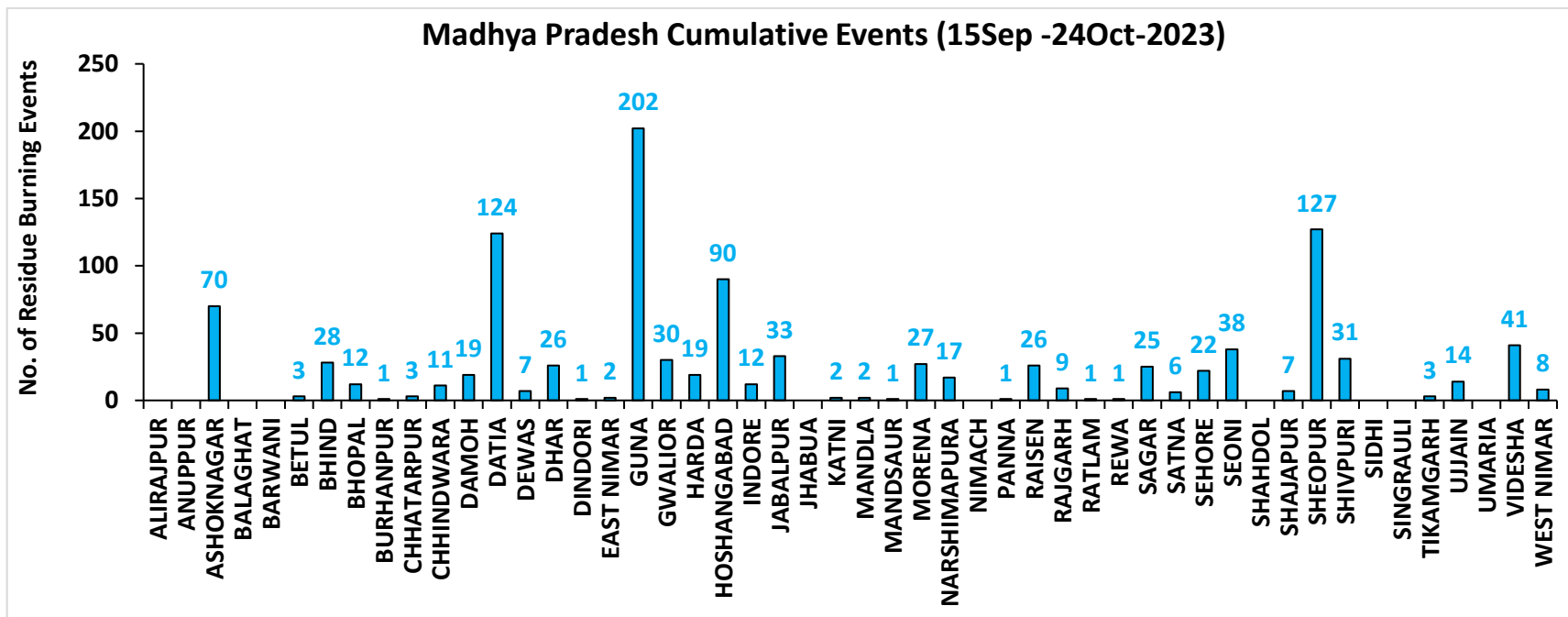
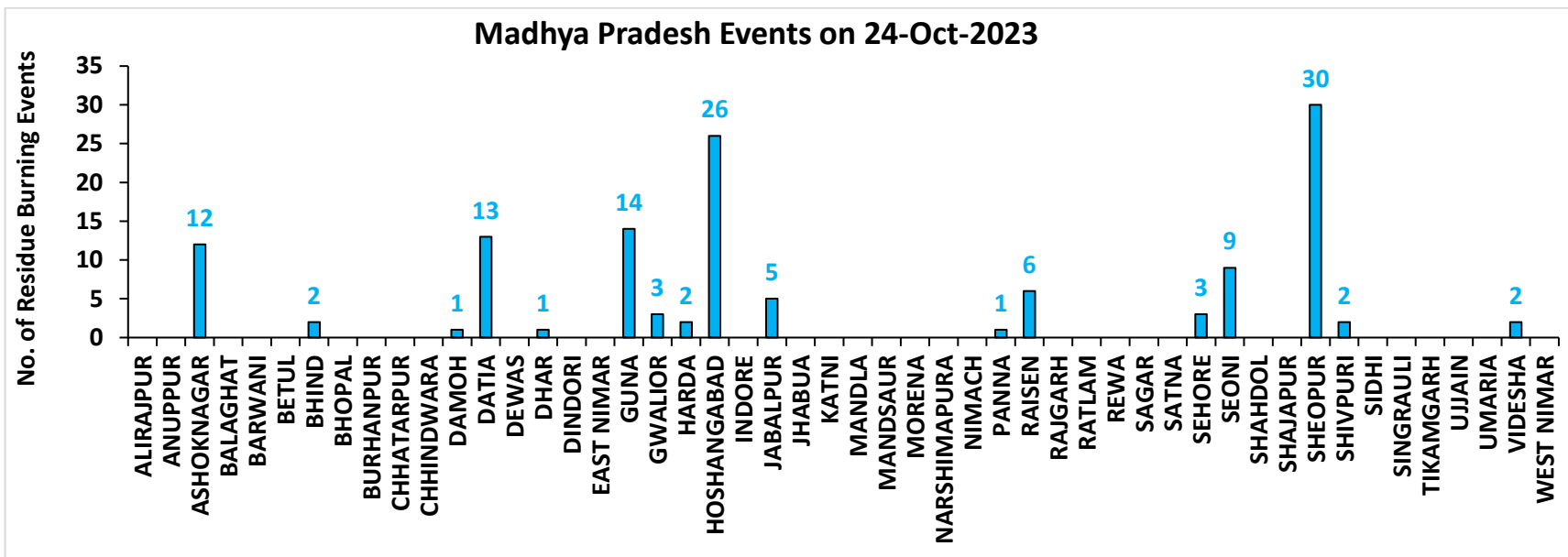
Fire Intensity (W/m²)

- 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 Madhya Pradesh (15Sep-24Oct -2023)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022 and 2023
(Period: 15 September-24 October)

(a) Punjab

District	15 Sep-24 Oct			
	2020	2021	2022	2023
Amritsar	2343	945	1073	755
Barnala	81	47	36	17
Bathinda	197	71	84	11
Faridkot	787	285	52	31
Fatehgarh Sahib	468	286	231	100
Fazilka	229	82	48	11
Firozpur	1884	394	293	155
Gurdaspur	1215	394	565	40
Hoshiarpur	200	58	49	3
Jalandhar	354	273	269	43
Kapurthala	771	391	368	103
Ludhiana	373	389	238	94
Mansa	132	32	44	85
Moga	282	131	132	46
Muktsar	254	85	26	3
Pathankot	7	0	0	0
Patiala	1323	500	474	295
Rupnagar	64	46	52	3
Sangrur	470	146	218	156
SAS NAGAR (Mohali)	75	54	45	62
SBS Nagar	27	34	9	5
Tarn Taran	3269	1415	1311	288
Total	14805	6058	5617	2306

(b) Haryana

District	15 Sep-24 Oct			
	2020	2021	2022	2023
AMBALA	197	85	93	106
BHIWANI	0	0	0	2
CHARKHI DADRI	0	0	0	0
FARIDABAD	1	1	1	2
FATEHABAD	99	110	132	123
GURGAON	0	0	0	0
HISAR	10	8	23	47
JHAJJAR	1	0	0	4
JIND	51	76	110	102
KAITHAL	332	479	379	107
KARNAL	413	554	224	53
KURUKSHETRA	338	319	246	91
MAHENDRAGARH	0	0	0	0
MEWAT	0	0	0	0
PALWAL	27	26	16	42
PANCHKULA	0	0	0	1
PANIPAT	12	22	20	17
REWARI	0	0	0	0
ROHTAK	2	0	0	7
SIRSA	32	17	27	11
SONIPAT	15	7	10	47
YAMUNANAGAR	87	60	79	51
Total	1617	1764	1360	813

(c) Uttar Pradesh

District	15 Sep-24 Oct													
	2020	2021	2022	2023	GAUTAMBUDHNAGAR	6	7	7	7	MUZAFARNAGAR	3	2	1	1
AGRA	2	0	0	1	GAZIPUR	0	0	0	0	PILHIBHIT	10	108	81	68
ALIGARH	50	21	22	73	GHAZIABAD	3	2	2	10	PRATAPGARH	4	0	0	1
ALLAHABAD	0	1	2	2	GONDA	0	0	0	0	RAIBEARELI	1	0	2	1
AMBEDKARNAGAR	0	0	0	0	GORAKHPUR	1	0	0	0	RAMPUR	55	50	40	37
AMETHI	0	1	4	1	HAMIRPUR	1	0	0	0	SAMBHAL	7	7	6	12
AMROHA	2	0	0	2	HAPUR	7	1	1	0	SANTKABIRNAGAR	0	0	0	1
AURAIYA	19	7	7	10	HARDOI	19	6	7	9	SANTRAVIDASNAGAR	0	0	0	0
AZAMGARH	0	0	0	0	HATHRAS	0	0	0	2	SHAHJAHANPUR	51	181	178	30
BADAUN	2	6	0	2	JALAUN	0	0	0	0	SHAMLI	21	15	5	5
BAGHPAT	4	1	1	1	JAUNPUR	0	0	0	1	SHARANPUR	44	20	4	1
BAHRAICH	20	2	5	1	JHANSI	26	6	0	20	SHRAWASTI	8	0	0	2
BALLIA	0	0	0	0	KANNAUJ	6	2	0	1	SIDDHARTHANAGAR	0	0	0	0
BALRAMPUR	5	1	1	1	KANPUR	5	7	10	20	SITAPUR	21	9	3	4
BANDA	0	0	0	0	KANPUR DEHAT	15	1	0	9	SONBHADRA	0	0	0	0
BARABANKI	21	20	18	41	KASGANJ	2	2	0	1	SULTANPUR	1	0	0	0
BAREILLY	25	15	9	18	KAUSHAMBI	14	3	2	16	UNNAO	6	1	0	7
BASTI	3	1	0	0	KHERI	50	54	60	8	VARANASI	1	0	0	0
BIJNOR	6	4	2	6	KUSHINAGAR	0	0	0	0	Total	733	653	543	598
BULANDSAHAR	16	2	7	6	LALITPUR	0	1	3	1					
CHANDAUJI	0	0	0	0	LUCKNOW	2	0	1	2					
CHITRAKOOT	0	1	2	3	MAHARAJGANJ	0	0	1	2					
DEORIA	0	0	0	2	MAHOBA	12	0	0	0					
ETAH	12	6	1	11	MAINPURI	15	7	11	13					
ETAWAH	8	7	6	28	MATHURA	49	43	9	70					
FAIZABAD	3	0	0	2	MAU	0	0	0	0					
FARRUKHABAD	1	0	0	0	MEERUT	16	4	4	3					
FATEHPUR	26	6	16	16	MIRZAPUR	6	5	2	0					
FIROZABAD	12	4	0	3	MORADABAD	8	3	0	3					

(d) Delhi

District	15 Sep-24 Oct			
	2020	2021	2022	2023
CENTRAL	0	0	0	0
EAST	0	0	0	0
NEW DELHI	0	0	0	0
NORTH	2	0	5	2
NORTH EAST	0	0	0	0
NORTH WEST DELHI	3	0	0	0
SHAHADRA	0	0	0	0
SOUTH	1	0	0	0
SOUTH EAST	0	0	0	0
SOUTH WEST DELHI	0	0	0	0
WEST DELHI	1	0	0	0
Total	7	0	5	2

(e) Rajasthan

District	15 Sep-24 Oct			
	2020	2021	2022	2023
AJMER	2	0	0	0
ALWAR	2	0	0	0
BANSWARA	0	0	0	0
BARAN	106	0	10	206
BARMER	2	0	0	0
BHARATPUR	2	0	0	2
BHILWARA	4	0	0	0
BIKANER	1	0	0	0
BUNDI	25	3	35	85
CHITTAURGARH	0	2	2	8
CHURU	0	0	0	0
DAUSA	0	0	0	0
DHOLPUR	0	0	0	0
DUNGARPUR	0	0	0	0
GANGANAGAR	4	2	5	9
HANUMANGARH	216	47	18	55
JAIPUR	2	0	0	0
JAISELMER	2	0	0	0
JALOR	0	0	0	0
JHALAWAR	1	0	2	8
JHUNJHUNUN	1	0	0	0
JODHPUR	1	0	0	0
KARAULI	1	0	0	0
KOTA	42	2	23	102
NAGAU	0	0	0	0
PALI	2	0	0	0
PRATAPGARH	4	0	0	0
RAJSMAND	0	0	0	0
SIKAR	0	0	0	0
SIROHI	1	0	0	0
SWAIMADHOPUR	10	0	3	35
TONK	3	0	0	0
UDAIPUR	0	0	0	0
Total	434	56	98	510

(f) Madhya Pradesh

District	15 Sep-24 Oct								
	2020	2021	2022	2023					
					PANNA	8	1	0	1
ALIRAJPUR	0	0	0	0	RAISEN	73	3	7	26
ANUPPUR	0	0	0	0	RAJGARH	7	1	3	9
ASHOKNAGAR	42	1	5	70	RATLAM	0	0	0	1
BALAGHAT	0	0	0	0	REWA	19	0	1	1
BARWANI	0	0	0	0	SAGAR	19	13	14	25
BETUL	4	1	1	3	SATNA	40	8	1	6
BHIND	14	1	7	28	SEHORE	19	8	25	22
BHOPAL	12	5	3	12	SEONI	121	74	26	38
BURHANPUR	0	0	0	1	SHAHDOL	0	0	0	0
CHHATARPUR	4	0	0	3	SHAJAPUR	5	0	0	7
CHHINDWARA	15	9	4	11	SHEOPUR	41	0	3	127
DAMOH	38	15	13	19	SHIVPURI	22	0	9	31
DATIA	127	8	11	124	SIDHI	0	0	0	0
DEWAS	3	0	0	7	SINGRAULI	0	0	0	0
DHAR	22	0	0	26	TIKAMGARH	1	0	0	3
DINDORI	0	0	0	1	UJJAIN	5	0	0	14
EAST NIMAR	10	5	4	2	UMARIA	0	0	0	0
GUNA	26	2	11	202	VIDESHA	73	10	16	41
GWALIOR	115	0	4	30	WEST NIMAR	16	1	0	8
HARDA	10	15	4	19	Total	1179	231	210	1102
HOSHANGABAD	155	28	17	90					
INDORE	2	0	0	12					
JABALPUR	36	7	6	33					
JHABUA	0	0	0	0					
KATNI	21	0	0	2					
MANDLA	5	2	0	2					
MANDSAUR	3	0	0	1					
MORENA	23	5	3	27					
NARSHIMAPURA	23	8	12	17					
NIMACH	0	0	0	0					

State-wise and date-wise number of paddy residue burning events detected in 2020, 2021, 2022 and 2023
(Period: 15 September-24 October)

Number of Paddy Residue Burning Events Detected

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

12-Oct	388	97	104	13	69	51	4	5	46	23	0	5
13-Oct	266	132	120	154	47	91	15	29	36	42	0	19
14-Oct	605	229	82	89	69	98	30	41	9	68	5	18
15-Oct	449	660	169	69	106	363	36	127	15	149	0	35
16-Oct	654	429	206	0	80	176	76	4	21	121	6	14
17-Oct	1172	14	403	1	143	0	86	0	38	39	7	0
18-Oct	938	57	342	18	166	1	134	8	76	0	30	2
19-Oct	1080	496	436	37	72	55	122	16	43	5	36	11
20-Oct	890	788	96	174	62	155	78	51	31	1	17	25
21-Oct	1392	597	393	146	101	131	107	68	25	5	23	59
22-Oct	1665	1111	582	30	128	140	122	25	32	3	18	117
23-Oct	1438	620	902	152	106	218	217	29	84	8	109	20
24-Oct	911	0	1019	360	57	38	250	70	63	11	212	38
Total	14805	6058	5617	2306	1617	1764	1360	813	733	653	543	598

Number of Paddy Residue Burning Events Detected

Date	Delhi				Rajasthan				Madhya Pradesh			
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
15-Sep	0	0	0	0	1	0	0	0	2	0	0	0
16-Sep	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
18-Sep	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	1
20-Sep	0	0	0	0	0	0	0	0	0	0	0	1
21-Sep	0	0	0	0	1	0	1	0	2	0	0	0
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep	0	0	0	0	1	0	0	0	0	0	0	0
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep	0	0	0	0	1	0	0	0	0	0	0	1
26-Sep	0	0	0	1	1	0	0	0	2	0	0	0
27-Sep	0	0	0	0	0	0	0	0	1	0	0	0
28-Sep	0	0	0	0	0	0	0	0	1	1	0	2
29-Sep	0	0	0	0	3	0	0	6	0	4	0	5

30-Sep	1	0	0	0	1	0	0	4	5	0	0	11
01-Oct	0	0	0	0	4	1	1	4	13	0	1	8
02-Oct	1	0	0	0	7	0	3	4	12	0	1	1
03-Oct	0	0	0	0	9	0	2	5	5	1	5	5
04-Oct	0	0	0	0	15	0	0	22	4	2	0	12
05-Oct	0	0	2	0	14	0	1	11	13	1	0	18
06-Oct	1	0	0	0	16	0	0	9	37	1	0	7
07-Oct	0	0	0	0	14	1	1	7	31	1	0	9
08-Oct	0	0	0	0	11	0	0	9	17	2	0	18
09-Oct	0	0	0	0	12	0	0	17	15	4	0	24
10-Oct	0	0	0	0	14	1	0	26	18	10	0	52
11-Oct	0	0	0	1	21	7	1	21	32	2	0	24
12-Oct	0	0	0	0	24	1	2	1	44	1	1	1
13-Oct	0	0	0	0	7	5	2	28	21	2	7	32
14-Oct	0	0	0	0	16	1	1	15	15	11	1	26
15-Oct	0	0	0	0	9	8	2	34	8	27	2	66
16-Oct	1	0	0	0	12	2	4	18	23	13	2	51
17-Oct	0	0	0	0	26	0	4	12	63	1	11	31
18-Oct	0	0	1	0	37	2	12	11	88	0	15	13
19-Oct	0	0	0	0	27	5	12	31	49	1	12	65
20-Oct	0	0	0	0	26	4	4	57	9	21	7	131
21-Oct	2	0	0	0	32	2	6	34	112	30	18	147
22-Oct	0	0	0	0	29	5	12	57	183	29	31	119
23-Oct	1	0	0	0	23	7	20	29	204	32	70	89
24-Oct	0	0	2	0	20	4	7	38	150	34	26	132
Total	7	0	5	2	434	56	98	510	1179	231	210	1102

Details of residue burning events in Punjab on 24-Oct-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	S-NPP	31.89405	74.76027	14:06:43	D	4.00
2	AMRITSAR	AJNALA	S-NPP	31.95586	74.84484	14:06:43	D	7.70
3	AMRITSAR	AJNALA	S-NPP	31.95631	74.84264	14:06:43	D	4.00
4	AMRITSAR	AJNALA	S-NPP	31.95856	74.93697	14:06:43	D	4.30
5	AMRITSAR	ATTARI	AQUA	31.61000	74.60500	13:33:02	D	14.90
6	AMRITSAR	ATTARI	S-NPP	31.58643	74.70148	14:06:43	D	4.00
7	AMRITSAR	ATTARI	S-NPP	31.60216	74.71248	14:06:43	D	6.40
8	AMRITSAR	ATTARI	S-NPP	31.60330	74.66798	14:06:43	D	9.90
9	AMRITSAR	CHOGAWAN	S-NPP	31.68471	74.60838	14:06:43	D	3.50
10	AMRITSAR	CHOGAWAN	S-NPP	31.76417	74.59102	14:06:43	D	10.60
11	AMRITSAR	HARSHA CHHINA	S-NPP	31.75532	74.85690	14:06:43	D	11.60
12	AMRITSAR	HARSHA CHHINA	S-NPP	31.75577	74.85465	14:06:43	D	5.20
13	AMRITSAR	JANDIALA GURU	S-NPP	31.54720	75.01691	14:06:43	D	4.40
14	AMRITSAR	MAJITHA	S-NPP	31.74661	75.06080	14:06:43	D	5.50
15	AMRITSAR	MAJITHA	S-NPP	31.80406	75.02124	14:06:43	D	8.00
16	AMRITSAR	MAJITHA	S-NPP	31.80906	75.02071	14:06:43	D	8.00
17	AMRITSAR	RAYYA	AQUA	31.54800	75.19800	13:33:02	D	16.20
18	AMRITSAR	RAYYA	S-NPP	31.64899	75.28001	12:27:08	D	5.80
19	AMRITSAR	TARSIKKA	AQUA	31.64700	75.16500	13:33:02	D	13.10
20	AMRITSAR	TARSIKKA	AQUA	31.65100	75.18600	13:33:02	D	14.40
21	AMRITSAR	TARSIKKA	S-NPP	31.58517	75.18046	14:06:43	D	5.60
22	AMRITSAR	TARSIKKA	S-NPP	31.64613	75.18089	14:06:43	D	7.80
23	AMRITSAR	TARSIKKA	S-NPP	31.68487	75.22627	12:27:08	D	8.80
24	AMRITSAR	TARSIKKA	S-NPP	31.68565	75.22774	12:27:08	D	6.00
25	AMRITSAR	VERKA	S-NPP	31.66345	74.96497	14:06:43	D	16.90
26	AMRITSAR	VERKA	S-NPP	31.66415	74.96503	14:06:43	D	21.90
27	BARNALA	BARNALA	S-NPP	30.22063	75.45955	14:06:43	D	7.10
28	BARNALA	BARNALA	S-NPP	30.33232	75.61840	14:06:43	D	3.10
29	BARNALA	BARNALA	S-NPP	30.33479	75.61658	14:06:43	D	3.50

30	BARNALA	BARNALA	S-NPP	30.33508	75.61998	14:06:43	D	3.50
31	BARNALA	BARNALA	S-NPP	30.33742	75.61787	14:06:43	D	3.10
32	BARNALA	MAHAL KALAN	S-NPP	30.56275	75.41312	14:06:43	D	6.40
33	BATHINDA	RAMPURA	S-NPP	30.20066	75.23064	14:06:43	D	4.60
34	BATHINDA	RAMPURA	S-NPP	30.20125	75.23083	14:06:43	D	5.80
35	BATHINDA	TALWANDI SABO	S-NPP	29.83486	75.13490	14:06:43	D	8.30
36	FARIDKOT	FARIDKOT	S-NPP	30.76914	74.66058	14:06:43	D	11.60
37	FARIDKOT	FARIDKOT	S-NPP	30.77047	74.66220	14:06:43	D	10.70
38	FATEHGARH SAHIB	AMLOH	S-NPP	30.69985	76.35418	14:06:43	D	3.40
39	FATEHGARH SAHIB	AMLOH	S-NPP	30.70304	76.35365	14:06:43	D	3.40
40	FATEHGARH SAHIB	BASSI PATHANAN	AQUA	30.66800	76.45700	13:33:02	D	16.40
41	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.67018	76.46203	14:06:43	D	5.40
42	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.67178	76.39056	12:27:08	D	6.10
43	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.67338	76.38370	12:27:08	D	6.60
44	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.67643	76.47321	14:06:43	D	2.40
45	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.70281	76.39262	14:06:43	D	1.20
46	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.70576	76.39221	14:06:43	D	2.30
47	FATEHGARH SAHIB	KHAMANON	S-NPP	30.71974	76.28663	14:06:43	D	4.20
48	FATEHGARH SAHIB	KHAMANON	S-NPP	30.76220	76.35198	14:06:43	D	2.70
49	FATEHGARH SAHIB	KHAMANON	S-NPP	30.79756	76.35726	14:06:43	D	1.90
50	FATEHGARH SAHIB	KHAMANON	S-NPP	30.83902	76.33391	14:06:43	D	2.10
51	FATEHGARH SAHIB	KHAMANON	S-NPP	30.84438	76.33341	14:06:43	D	2.10
52	FATEHGARH SAHIB	KHERA	AQUA	30.60300	76.48100	13:33:02	D	11.80
53	FATEHGARH SAHIB	KHERA	S-NPP	30.57470	76.51463	14:06:43	D	1.20
54	FATEHGARH SAHIB	KHERA	S-NPP	30.57776	76.48292	14:06:43	D	5.90
55	FATEHGARH SAHIB	KHERA	S-NPP	30.58344	76.48631	14:06:43	D	6.80
56	FATEHGARH SAHIB	KHERA	S-NPP	30.58852	76.48192	14:06:43	D	4.90
57	FATEHGARH SAHIB	KHERA	S-NPP	30.58882	76.48582	14:06:43	D	4.90
58	FATEHGARH SAHIB	KHERA	S-NPP	30.58912	76.48970	14:06:43	D	4.90
59	FATEHGARH SAHIB	KHERA	S-NPP	30.59088	76.51311	14:06:43	D	12.00
60	FATEHGARH SAHIB	KHERA	S-NPP	30.60349	76.46490	14:06:43	D	5.40
61	FATEHGARH SAHIB	KHERA	S-NPP	30.60531	76.46419	14:06:43	D	4.20
62	FATEHGARH SAHIB	KHERA	S-NPP	30.60769	76.50890	12:27:08	D	2.30

63	FATEHGARH SAHIB	KHERA	S-NPP	30.60887	76.46439	14:06:43	D	4.20
64	FATEHGARH SAHIB	KHERA	S-NPP	30.61069	76.46368	14:06:43	D	4.20
65	FATEHGARH SAHIB	KHERA	S-NPP	30.61171	76.50570	12:27:08	D	2.70
66	FATEHGARH SAHIB	KHERA	S-NPP	30.61245	76.44067	14:06:43	D	2.10
67	FATEHGARH SAHIB	KHERA	S-NPP	30.61646	76.54578	14:06:43	D	2.50
68	FATEHGARH SAHIB	KHERA	S-NPP	30.62057	76.54589	14:06:43	D	4.90
69	FATEHGARH SAHIB	KHERA	S-NPP	30.62187	76.54526	14:06:43	D	4.00
70	FATEHGARH SAHIB	KHERA	S-NPP	30.62794	76.47771	14:06:43	D	2.40
71	FATEHGARH SAHIB	KHERA	S-NPP	30.66599	76.55302	14:06:43	D	4.40
72	FATEHGARH SAHIB	SIRHIND	S-NPP	30.51231	76.47733	14:06:43	D	2.20
73	FATEHGARH SAHIB	SIRHIND	S-NPP	30.52902	76.48358	14:06:43	D	5.90
74	FATEHGARH SAHIB	SIRHIND	S-NPP	30.52930	76.48745	14:06:43	D	5.90
75	FATEHGARH SAHIB	SIRHIND	S-NPP	30.54998	76.47376	14:06:43	D	2.20
76	FATEHGARH SAHIB	SIRHIND	S-NPP	30.60273	76.42313	12:27:08	D	3.40
77	FIROZPUR	FIROZPUR	AQUA	31.02900	74.76000	13:33:02	D	52.10
78	FIROZPUR	FIROZPUR	S-NPP	30.81879	74.55750	14:06:43	D	4.80
79	FIROZPUR	FIROZPUR	S-NPP	30.94615	74.63834	14:06:43	D	8.80
80	FIROZPUR	FIROZPUR	S-NPP	31.05363	74.76762	14:06:43	D	5.90
81	FIROZPUR	FIROZPUR	S-NPP	31.06780	74.70345	14:06:43	D	9.10
82	FIROZPUR	GHALL KHURD	S-NPP	30.83628	74.64693	14:06:43	D	7.60
83	FIROZPUR	GHALL KHURD	S-NPP	30.86796	74.67417	14:06:43	D	12.40
84	FIROZPUR	GHALL KHURD	S-NPP	30.87129	74.67753	14:06:43	D	8.40
85	FIROZPUR	GHALL KHURD	S-NPP	30.87172	74.66145	14:06:43	D	7.60
86	FIROZPUR	GHALL KHURD	S-NPP	30.87463	74.65865	14:06:43	D	17.70
87	FIROZPUR	GHALL KHURD	S-NPP	30.89625	74.74295	14:06:43	D	2.70
88	FIROZPUR	GHALL KHURD	S-NPP	30.90496	74.70774	12:27:08	D	12.10
89	FIROZPUR	GHALL KHURD	S-NPP	30.90732	74.71573	12:27:08	D	12.10
90	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63580	74.39644	14:06:43	D	4.50
91	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63601	74.39514	14:06:43	D	7.20
92	FIROZPUR	GURUHAR SAHAI	S-NPP	30.64930	74.28399	14:06:43	D	4.20
93	FIROZPUR	GURUHAR SAHAI	S-NPP	30.67054	74.46217	14:06:43	D	10.10
94	FIROZPUR	GURUHAR SAHAI	S-NPP	30.74840	74.46928	14:06:43	D	13.50
95	FIROZPUR	GURUHAR SAHAI	S-NPP	30.74845	74.47121	14:06:43	D	10.50

96	FIROZPUR	GURUHAR SAHAI	S-NPP	30.75210	74.40546	14:06:43	D	3.80
97	FIROZPUR	GURUHAR SAHAI	S-NPP	30.75248	74.40344	14:06:43	D	3.90
98	FIROZPUR	GURUHAR SAHAI	S-NPP	30.75973	74.32019	14:06:43	D	2.40
99	FIROZPUR	MAKHU	S-NPP	31.08090	75.03358	14:06:43	D	10.50
100	FIROZPUR	MAKHU	S-NPP	31.08587	75.03305	14:06:43	D	17.70
101	FIROZPUR	MAMDOT	AQUA	30.77900	74.52500	13:33:02	D	25.60
102	FIROZPUR	MAMDOT	AQUA	30.88500	74.38600	13:33:02	D	17.90
103	FIROZPUR	MAMDOT	S-NPP	30.76475	74.38631	14:06:43	D	12.40
104	FIROZPUR	MAMDOT	S-NPP	30.76524	74.38421	14:06:43	D	20.90
105	FIROZPUR	MAMDOT	S-NPP	30.77958	74.49563	14:06:43	D	16.40
106	FIROZPUR	MAMDOT	S-NPP	30.78437	74.49509	14:06:43	D	16.40
107	FIROZPUR	MAMDOT	S-NPP	30.78559	74.45310	14:06:43	D	7.90
108	FIROZPUR	MAMDOT	S-NPP	30.82264	74.49074	14:06:43	D	5.10
109	FIROZPUR	MAMDOT	S-NPP	30.84127	74.42888	14:06:43	D	8.10
110	FIROZPUR	MAMDOT	S-NPP	30.88331	74.41549	14:06:43	D	6.60
111	FIROZPUR	MAMDOT	S-NPP	30.95005	74.46175	14:06:43	D	8.20
112	FIROZPUR	ZIRA	AQUA	30.88500	74.90700	13:33:02	D	21.60
113	FIROZPUR	ZIRA	S-NPP	31.00369	74.88070	14:06:43	D	7.80
114	GURDASPUR	BATALA	S-NPP	31.76176	75.19471	14:06:43	D	7.10
115	GURDASPUR	BATALA	S-NPP	31.76353	75.19643	14:06:43	D	3.80
116	GURDASPUR	DERA BABA NANAK	S-NPP	31.91669	75.04156	14:06:43	D	5.50
117	GURDASPUR	DERA BABA NANAK	S-NPP	31.95612	75.09156	14:06:43	D	11.80
118	GURDASPUR	DERA BABA NANAK	S-NPP	31.96604	75.10218	14:06:43	D	7.60
119	GURDASPUR	DERA BABA NANAK	S-NPP	31.96728	75.10400	14:06:43	D	6.60
120	GURDASPUR	DERA BABA NANAK	S-NPP	32.00292	74.99671	12:27:08	D	6.10
121	GURDASPUR	DERA BABA NANAK	S-NPP	32.00393	75.00256	12:27:08	D	5.80
122	GURDASPUR	DERA BABA NANAK	S-NPP	32.05523	74.95130	14:06:43	D	10.00
123	GURDASPUR	DERA BABA NANAK	S-NPP	32.05553	74.95182	14:06:43	D	8.50
124	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.89112	75.03751	14:06:43	D	3.60
125	GURDASPUR	KAHNUWAN	S-NPP	31.80304	75.49426	14:06:43	D	2.60
126	GURDASPUR	KAHNUWAN	S-NPP	31.80442	75.49239	14:06:43	D	1.90
127	GURDASPUR	KALANAUR	S-NPP	31.96432	75.19311	14:06:43	D	10.50
128	GURDASPUR	KALANAUR	S-NPP	31.96756	75.19089	14:06:43	D	9.90

129	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.73561	75.29385	14:06:43	D	4.60
130	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.75000	75.47816	14:06:43	D	2.80
131	HOSHIARPUR	HOSHIARPUR-2	S-NPP	31.39215	75.89678	14:06:43	D	1.60
132	JALANDHAR	JALANDHAR WEST	S-NPP	31.45986	75.48780	14:06:43	D	2.50
133	JALANDHAR	JALANDHAR WEST	S-NPP	31.47755	75.48543	14:06:43	D	7.70
134	JALANDHAR	JALANDHAR WEST	S-NPP	31.48006	75.48232	14:06:43	D	3.60
135	JALANDHAR	JALANDHAR WEST	S-NPP	31.48034	75.48581	14:06:43	D	3.60
136	JALANDHAR	LOHIAN	AQUA	31.13500	75.27900	13:33:02	D	16.60
137	JALANDHAR	NAKODAR	S-NPP	31.22479	75.44395	14:06:43	D	3.60
138	JALANDHAR	SHAHKOT	S-NPP	31.07860	75.25239	14:06:43	D	6.70
139	JALANDHAR	SHAHKOT	S-NPP	31.12599	75.33548	14:06:43	D	4.90
140	KAPURTHALA	DHILWAN	AQUA	31.55300	75.37600	13:33:02	D	15.00
141	KAPURTHALA	DHILWAN	S-NPP	31.37557	75.19845	14:06:43	D	7.30
142	KAPURTHALA	NADALA	AQUA	31.56100	75.38800	13:33:02	D	12.20
143	KAPURTHALA	NADALA	S-NPP	31.51287	75.47487	14:06:43	D	2.30
144	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.26460	75.23022	12:27:08	D	10.30
145	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.34992	75.19441	14:06:43	D	8.40
146	LUDHIANA	JAGRAON	AQUA	30.64400	75.42900	13:33:02	D	29.70
147	LUDHIANA	JAGRAON	AQUA	30.64600	75.42200	13:33:02	D	14.40
148	LUDHIANA	JAGRAON	AQUA	30.64800	75.45000	13:33:02	D	21.20
149	LUDHIANA	JAGRAON	AQUA	30.65100	75.44200	13:33:02	D	39.20
150	LUDHIANA	JAGRAON	S-NPP	30.73215	75.50188	14:06:43	D	1.60
151	LUDHIANA	JAGRAON	S-NPP	30.73837	75.51501	14:06:43	D	2.70
152	LUDHIANA	JAGRAON	S-NPP	30.74114	75.51460	14:06:43	D	2.60
153	LUDHIANA	JAGRAON	S-NPP	30.76820	75.53250	14:06:43	D	5.20
154	LUDHIANA	JAGRAON	S-NPP	30.77329	75.53197	14:06:43	D	5.20
155	LUDHIANA	JAGRAON	S-NPP	30.78577	75.43109	14:06:43	D	3.40
156	LUDHIANA	JAGRAON	S-NPP	30.82314	75.51310	14:06:43	D	32.60
157	LUDHIANA	LUDHIANA-1	S-NPP	30.84941	75.77428	14:06:43	D	2.50
158	LUDHIANA	LUDHIANA-2	S-NPP	30.95326	76.01920	14:06:43	D	3.70
159	LUDHIANA	LUDHIANA-2	S-NPP	30.96589	76.11538	14:06:43	D	1.20
160	LUDHIANA	LUDHIANA-2	S-NPP	31.00283	75.77118	14:06:43	D	4.20
161	LUDHIANA	MACHHIWARA	S-NPP	30.89207	76.29861	12:27:08	D	5.20

162	LUDHIANA	MACHHIWARA	S-NPP	30.89891	76.20168	14:06:43	D	1.60
163	LUDHIANA	MACHHIWARA	S-NPP	30.97046	76.17560	14:06:43	D	1.90
164	LUDHIANA	MACHHIWARA	S-NPP	30.98870	76.20440	14:06:43	D	7.00
165	LUDHIANA	MALoud	S-NPP	30.64958	75.98277	14:06:43	D	2.00
166	LUDHIANA	MALoud	S-NPP	30.65481	75.98227	14:06:43	D	4.10
167	LUDHIANA	PAKHOWAL	S-NPP	30.68525	75.75478	14:06:43	D	4.60
168	LUDHIANA	PAKHOWAL	S-NPP	30.70451	75.73508	14:06:43	D	8.20
169	LUDHIANA	PAKHOWAL	S-NPP	30.71371	75.71998	14:06:43	D	6.00
170	LUDHIANA	RAIKOT	AQUA	30.73200	75.52800	13:33:02	D	13.50
171	LUDHIANA	RAIKOT	S-NPP	30.63740	75.53568	14:06:43	D	3.90
172	LUDHIANA	RAIKOT	S-NPP	30.63933	75.53648	14:06:43	D	6.70
173	LUDHIANA	RAIKOT	S-NPP	30.68749	75.52017	14:06:43	D	3.00
174	LUDHIANA	RAIKOT	S-NPP	30.68776	75.52358	14:06:43	D	3.00
175	LUDHIANA	SIDHWAN BET	S-NPP	30.82907	75.52286	14:06:43	D	2.40
176	LUDHIANA	SIDHWAN BET	S-NPP	30.85542	75.49147	14:06:43	D	2.80
177	LUDHIANA	SIDHWAN BET	S-NPP	30.86051	75.49094	14:06:43	D	3.60
178	LUDHIANA	SIDHWAN BET	S-NPP	30.86456	75.41163	14:06:43	D	2.00
179	LUDHIANA	SIDHWAN BET	S-NPP	30.86482	75.41502	14:06:43	D	2.00
180	LUDHIANA	SIDHWAN BET	S-NPP	30.91521	75.40643	14:06:43	D	1.50
181	LUDHIANA	SIDHWAN BET	S-NPP	30.94781	75.38931	14:06:43	D	5.50
182	LUDHIANA	SIDHWAN BET	S-NPP	30.94820	75.39438	14:06:43	D	7.20
183	LUDHIANA	SIDHWAN BET	S-NPP	30.94967	75.39103	14:06:43	D	12.40
184	LUDHIANA	SUDHAR	S-NPP	30.74578	75.66735	14:06:43	D	3.70
185	LUDHIANA	SUDHAR	S-NPP	30.74757	75.66721	14:06:43	D	3.10
186	LUDHIANA	SUDHAR	S-NPP	30.77326	75.66459	14:06:43	D	2.80
187	LUDHIANA	SUDHAR	S-NPP	30.79681	75.70108	14:06:43	D	2.40
188	MANSA	BHIKHI	S-NPP	30.11774	75.60925	14:06:43	D	4.20
189	MANSA	BHIKHI	S-NPP	30.12046	75.60706	14:06:43	D	3.30
190	MANSA	BHIKHI	S-NPP	30.12340	75.61551	14:06:43	D	2.90
191	MANSA	BUDHLADA	S-NPP	29.82418	75.73488	14:06:43	D	1.80
192	MANSA	BUDHLADA	S-NPP	29.82738	75.71049	14:06:43	D	2.70
193	MANSA	BUDHLADA	S-NPP	29.84022	75.67838	14:06:43	D	7.20
194	MANSA	BUDHLADA	S-NPP	29.84255	75.64403	14:06:43	D	14.70

195	MANSA	BUDHLADA	S-NPP	29.84283	75.64742	14:06:43	D	14.70
196	MANSA	BUDHLADA	S-NPP	29.84763	75.64349	14:06:43	D	4.00
197	MANSA	BUDHLADA	S-NPP	29.84999	75.73565	14:06:43	D	2.30
198	MANSA	BUDHLADA	S-NPP	29.85509	75.73512	14:06:43	D	2.00
199	MANSA	BUDHLADA	S-NPP	29.86231	75.63518	14:06:43	D	2.10
200	MANSA	SARDULGARH	S-NPP	29.66641	75.23178	14:06:43	D	6.70
201	MANSA	SARDULGARH	S-NPP	29.72191	75.34573	14:06:43	D	6.90
202	MANSA	SARDULGARH	S-NPP	29.77058	75.32758	14:06:43	D	5.80
203	MANSA	SARDULGARH	S-NPP	29.77120	75.32769	14:06:43	D	4.60
204	MANSA	SARDULGARH	S-NPP	29.77982	75.26208	14:06:43	D	7.20
205	MANSA	SARDULGARH	S-NPP	29.79254	75.22224	14:06:43	D	13.60
206	MANSA	SARDULGARH	S-NPP	29.79749	75.22171	14:06:43	D	13.60
207	MANSA	SARDULGARH	S-NPP	29.81169	75.27155	14:06:43	D	6.90
208	MOGA	MOGA-1	AQUA	30.73500	75.35300	13:33:02	D	13.60
209	MOGA	MOGA-1	AQUA	30.74700	75.14300	13:33:02	D	22.70
210	MOGA	MOGA-1	S-NPP	30.73124	75.19375	14:06:43	D	3.20
211	MOGA	MOGA-1	S-NPP	30.78949	75.16785	14:06:43	D	2.50
212	MOGA	MOGA-2	S-NPP	30.74536	75.12010	14:06:43	D	6.40
213	MOGA	NIHAL SINGH	S-NPP	30.53856	75.30182	14:06:43	D	3.00
214	MOGA	NIHAL SINGH	S-NPP	30.56875	75.23908	14:06:43	D	5.40
215	MOGA	NIHAL SINGH	S-NPP	30.67742	75.33273	14:06:43	D	4.40
216	MUKTSAR	MUKTSAR	S-NPP	30.55717	74.43685	14:06:43	D	4.60
217	PATIALA	BHUNARHERI	S-NPP	30.15121	76.62483	14:06:43	D	2.30
218	PATIALA	BHUNARHERI	S-NPP	30.15821	76.57313	14:06:43	D	4.20
219	PATIALA	BHUNARHERI	S-NPP	30.18036	76.50868	14:06:43	D	2.20
220	PATIALA	BHUNARHERI	S-NPP	30.18255	76.50735	14:06:43	D	2.20
221	PATIALA	BHUNARHERI	S-NPP	30.22299	76.61715	14:06:43	D	2.90
222	PATIALA	BHUNARHERI	S-NPP	30.27596	76.52586	14:06:43	D	8.10
223	PATIALA	GHANAUR	S-NPP	30.32498	76.57029	14:06:43	D	3.20
224	PATIALA	GHANAUR	S-NPP	30.33833	76.68005	14:06:43	D	2.10
225	PATIALA	GHANAUR	S-NPP	30.34880	76.52483	14:06:43	D	3.10
226	PATIALA	GHANAUR	S-NPP	30.35955	76.74640	14:06:43	D	2.60
227	PATIALA	GHANAUR	S-NPP	30.38093	76.66418	14:06:43	D	2.20

228	PATIALA	GHANAUR	S-NPP	30.38459	76.63990	14:06:43	D	2.20
229	PATIALA	GHANAUR	S-NPP	30.39778	76.70741	12:27:08	D	6.00
230	PATIALA	GHANAUR	S-NPP	30.39793	76.70251	12:27:08	D	5.20
231	PATIALA	GHANAUR	S-NPP	30.39969	76.70890	12:27:08	D	5.20
232	PATIALA	GHANAUR	S-NPP	30.40178	76.57887	14:06:43	D	3.30
233	PATIALA	GHANAUR	S-NPP	30.40349	76.58162	14:06:43	D	4.20
234	PATIALA	NABHA	S-NPP	30.33915	76.18578	14:06:43	D	1.40
235	PATIALA	NABHA	S-NPP	30.36434	76.10175	14:06:43	D	1.50
236	PATIALA	NABHA	S-NPP	30.36880	76.09985	14:06:43	D	1.70
237	PATIALA	NABHA	S-NPP	30.40393	76.21558	14:06:43	D	2.10
238	PATIALA	NABHA	S-NPP	30.40504	76.23051	14:06:43	D	1.20
239	PATIALA	NABHA	S-NPP	30.43183	76.09370	14:06:43	D	2.20
240	PATIALA	NABHA	S-NPP	30.43708	76.09318	14:06:43	D	2.20
241	PATIALA	PATIALA	S-NPP	30.25359	76.23743	14:06:43	D	2.80
242	PATIALA	PATIALA	S-NPP	30.31146	76.31261	14:06:43	D	3.40
243	PATIALA	PATIALA	S-NPP	30.31174	76.31639	14:06:43	D	3.40
244	PATIALA	PATRAN	AQUA	29.83700	76.18900	13:33:02	D	66.30
245	PATIALA	PATRAN	S-NPP	29.88430	76.03491	14:06:43	D	6.40
246	PATIALA	PATRAN	S-NPP	29.88459	76.03850	14:06:43	D	6.90
247	PATIALA	PATRAN	S-NPP	29.89442	76.03030	14:06:43	D	3.80
248	PATIALA	PATRAN	S-NPP	29.94616	76.02158	14:06:43	D	3.80
249	PATIALA	PATRAN	S-NPP	29.94642	76.15807	14:06:43	D	1.40
250	PATIALA	PATRAN	S-NPP	29.94653	76.01994	14:06:43	D	2.80
251	PATIALA	PATRAN	S-NPP	29.94695	76.15945	14:06:43	D	2.50
252	PATIALA	PATRAN	S-NPP	29.96134	76.14559	14:06:43	D	4.70
253	PATIALA	PATRAN	S-NPP	29.97289	76.08968	14:06:43	D	2.50
254	PATIALA	PATRAN	S-NPP	29.97294	76.15912	14:06:43	D	2.70
255	PATIALA	PATRAN	S-NPP	29.98531	76.11394	14:06:43	D	2.10
256	PATIALA	PATRAN	S-NPP	30.01205	76.11861	14:06:43	D	8.00
257	PATIALA	PATRAN	S-NPP	30.01993	76.08504	14:06:43	D	5.40
258	PATIALA	PATRAN	S-NPP	30.02022	76.08864	14:06:43	D	7.90
259	PATIALA	RAJPURA	S-NPP	30.52242	76.54313	14:06:43	D	7.40
260	PATIALA	RAJPURA	S-NPP	30.52270	76.54707	14:06:43	D	7.60

261	PATIALA	RAJPURA	S-NPP	30.52670	76.52695	14:06:43	D	4.70
262	PATIALA	RAJPURA	S-NPP	30.52698	76.53087	14:06:43	D	6.20
263	PATIALA	RAJPURA	S-NPP	30.52782	76.54263	14:06:43	D	5.20
264	PATIALA	RAJPURA	S-NPP	30.53238	76.53036	14:06:43	D	6.20
265	PATIALA	RAJPURA	S-NPP	30.54772	76.51711	14:06:43	D	3.20
266	PATIALA	SAMANA	S-NPP	30.17631	76.25375	14:06:43	D	2.10
267	PATIALA	SAMANA	S-NPP	30.22067	76.08864	14:06:43	D	2.20
268	PATIALA	SAMANA	S-NPP	30.22600	76.22511	14:06:43	D	2.30
269	PATIALA	SANAUR	AQUA	30.16300	76.30100	13:33:02	D	12.30
270	PATIALA	SANAUR	AQUA	30.16700	76.32000	13:33:02	D	12.00
271	PATIALA	SANAUR	S-NPP	30.19039	76.31879	14:06:43	D	2.80
272	PATIALA	SANAUR	S-NPP	30.19570	76.31826	14:06:43	D	4.00
273	PATIALA	SANAUR	S-NPP	30.20157	76.32530	14:06:43	D	7.20
274	PATIALA	SANAUR	S-NPP	30.25776	76.50027	14:06:43	D	5.30
275	PATIALA	SHAMBU KALAN	AQUA	30.43000	76.61200	13:33:02	D	8.50
276	PATIALA	SHAMBU KALAN	S-NPP	30.43441	76.71048	14:06:43	D	1.90
277	PATIALA	SHAMBU KALAN	S-NPP	30.44811	76.53381	12:27:08	D	2.30
278	PATIALA	SHAMBU KALAN	S-NPP	30.44816	76.52235	14:06:43	D	4.20
279	PATIALA	SHAMBU KALAN	S-NPP	30.45332	76.59283	14:06:43	D	3.60
280	RUPNAGAR	MORINDA	S-NPP	30.75063	76.48988	14:06:43	D	5.20
281	RUPNAGAR	MORINDA	S-NPP	30.81273	76.44872	14:06:43	D	2.10
282	SANGRUR	ANDANA	S-NPP	29.73515	75.94898	14:06:43	D	6.40
283	SANGRUR	BHAWANIGARH	AQUA	30.25800	76.14600	13:33:02	D	23.40
284	SANGRUR	BHAWANIGARH	S-NPP	30.20539	76.02812	14:06:43	D	4.40
285	SANGRUR	BHAWANIGARH	S-NPP	30.22620	76.09177	14:06:43	D	2.20
286	SANGRUR	DIRBA	S-NPP	29.98646	75.99439	14:06:43	D	4.20
287	SANGRUR	DIRBA	S-NPP	30.09783	76.06580	14:06:43	D	2.20
288	SANGRUR	DIRBA	S-NPP	30.13117	75.89349	14:06:43	D	3.70
289	SANGRUR	DIRBA	S-NPP	30.13205	75.89170	14:06:43	D	2.80
290	SANGRUR	LEHRA GAGA	S-NPP	29.84177	75.82661	14:06:43	D	11.80
291	SANGRUR	LEHRA GAGA	S-NPP	29.95747	75.76093	14:06:43	D	1.70
292	SANGRUR	MALERKOTLA-1	S-NPP	30.55684	75.86852	14:06:43	D	2.10
293	SANGRUR	MALERKOTLA-2	S-NPP	30.56713	75.87222	14:06:43	D	2.40

294	SANGRUR	MALERKOTLA-2	S-NPP	30.56748	75.87104	14:06:43	D	2.70
295	SANGRUR	SANGRUR	S-NPP	30.18951	75.89300	14:06:43	D	10.40
296	SANGRUR	SANGRUR	S-NPP	30.18979	75.89654	14:06:43	D	20.90
297	SANGRUR	SANGRUR	S-NPP	30.19245	75.86430	14:06:43	D	3.20
298	SANGRUR	SANGRUR	S-NPP	30.19799	75.80365	14:06:43	D	3.10
299	SANGRUR	SANGRUR	S-NPP	30.20617	75.90559	14:06:43	D	1.00
300	SANGRUR	SANGRUR	S-NPP	30.23352	75.92078	14:06:43	D	4.80
301	SANGRUR	SUNAM	AQUA	30.09700	75.89600	13:33:02	D	16.20
302	SANGRUR	SUNAM	AQUA	30.10000	75.89000	13:33:02	D	18.30
303	SANGRUR	SUNAM	AQUA	30.12800	75.77800	13:33:02	D	15.50
304	SANGRUR	SUNAM	S-NPP	30.02241	75.79615	14:06:43	D	5.70
305	SANGRUR	SUNAM	S-NPP	30.02461	75.79499	14:06:43	D	3.50
306	SANGRUR	SUNAM	S-NPP	30.02487	75.79847	14:06:43	D	3.50
307	SANGRUR	SUNAM	S-NPP	30.07139	75.79720	14:06:43	D	2.30
308	SANGRUR	SUNAM	S-NPP	30.12048	75.76426	14:06:43	D	3.50
309	SANGRUR	SUNAM	S-NPP	30.12220	75.76232	14:06:43	D	3.60
310	SAS NAGAR (MOHALI)	DERABASSI	S-NPP	30.36594	76.91319	14:06:43	D	1.70
311	SAS NAGAR (MOHALI)	DERABASSI	S-NPP	30.47003	76.90309	14:06:43	D	4.40
312	SAS NAGAR (MOHALI)	DERABASSI	S-NPP	30.58215	76.79763	12:27:08	D	9.50
313	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.60597	76.71523	14:06:43	D	4.70
314	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.61251	76.70885	12:27:08	D	3.70
315	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.61391	76.71050	12:27:08	D	5.50
316	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.61479	76.68614	14:06:43	D	2.30
317	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.61520	76.68581	14:06:43	D	1.20
318	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.62065	76.71288	12:27:08	D	3.70
319	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.67775	76.63966	14:06:43	D	2.20
320	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.70083	76.58163	14:06:43	D	1.50
321	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.70171	76.59351	14:06:43	D	2.80
322	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.70840	76.53725	14:06:43	D	3.90
323	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.71044	76.53709	14:06:43	D	3.60
324	SAS NAGAR (MOHALI)	KHARAR	S-NPP	30.76967	76.60323	14:06:43	D	2.60
325	SBS NAGAR	BANGA	S-NPP	31.23107	75.86121	14:06:43	D	2.60
326	TARN TARAN	BHIKHIWIND	AQUA	31.39700	74.60600	13:33:02	D	22.10

327	TARN TARAN	BHIKHIWIND	AQUA	31.40200	74.62900	13:33:02	D	52.20
328	TARN TARAN	BHIKHIWIND	S-NPP	31.34291	74.61246	14:06:43	D	9.00
329	TARN TARAN	CHOHLA SAHIB	S-NPP	31.20590	74.96766	14:06:43	D	4.70
330	TARN TARAN	CHOHLA SAHIB	S-NPP	31.23679	75.02843	14:06:43	D	3.60
331	TARN TARAN	CHOHLA SAHIB	S-NPP	31.37951	75.05749	14:06:43	D	4.60
332	TARN TARAN	GANDIWIND TATLA	S-NPP	31.44909	74.67442	14:06:43	D	11.30
333	TARN TARAN	GANDIWIND TATLA	S-NPP	31.50859	74.65316	14:06:43	D	2.30
334	TARN TARAN	GANDIWIND TATLA	S-NPP	31.51647	74.69013	14:06:43	D	8.30
335	TARN TARAN	GANDIWIND TATLA	S-NPP	31.51951	74.69196	14:06:43	D	5.20
336	TARN TARAN	GANDIWIND TATLA	S-NPP	31.53111	74.68848	14:06:43	D	15.00
337	TARN TARAN	GANDIWIND TATLA	S-NPP	31.53746	74.72806	14:06:43	D	4.90
338	TARN TARAN	GANDIWIND TATLA	S-NPP	31.54549	74.74410	14:06:43	D	3.50
339	TARN TARAN	GANDIWIND TATLA	S-NPP	31.55400	74.78799	14:06:43	D	8.10
340	TARN TARAN	KHADUR SAHIB	S-NPP	31.38450	75.05695	14:06:43	D	7.50
341	TARN TARAN	KHADUR SAHIB	S-NPP	31.45467	75.18239	14:06:43	D	8.40
342	TARN TARAN	KHADUR SAHIB	S-NPP	31.45545	75.18320	14:06:43	D	6.30
343	TARN TARAN	KHADUR SAHIB	S-NPP	31.47853	75.09926	14:06:43	D	4.20
344	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.35725	74.84470	14:06:43	D	3.20
345	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.37601	75.02513	12:27:08	D	3.90
346	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.38035	75.02174	12:27:08	D	8.10
347	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.39664	74.87248	12:27:08	D	4.00
348	TARN TARAN	TARN TARAN	AQUA	31.42600	74.81100	13:33:02	D	15.00
349	TARN TARAN	TARN TARAN	S-NPP	31.43814	74.90591	14:06:43	D	5.20
350	TARN TARAN	TARN TARAN	S-NPP	31.45095	75.01035	14:06:43	D	6.80
351	TARN TARAN	TARN TARAN	S-NPP	31.45129	75.00923	14:06:43	D	7.90
352	TARN TARAN	TARN TARAN	S-NPP	31.49049	74.96191	12:27:08	D	7.50
353	TARN TARAN	VALTOHA	S-NPP	31.09521	74.58832	14:06:43	D	5.80
354	TARN TARAN	VALTOHA	S-NPP	31.14023	74.60162	14:06:43	D	8.10
355	TARN TARAN	VALTOHA	S-NPP	31.19663	74.53236	14:06:43	D	4.40
356	TARN TARAN	VALTOHA	S-NPP	31.19766	74.53391	14:06:43	D	5.30
357	TARN TARAN	VALTOHA	S-NPP	31.28980	74.54028	14:06:43	D	4.60
358	TARN TARAN	VALTOHA	S-NPP	31.29249	74.57072	14:06:43	D	5.60
359	TARN TARAN	VALTOHA	S-NPP	31.29277	74.53770	14:06:43	D	6.10

360	TARN TARAN	VALTOHA	S-NPP	31.29527	74.56821	14:06:43	D	4.00
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Details of residue burning events in Haryana on 24-Oct-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-I	S-NPP	30.30884	76.80776	14:06:43	D	4.00
2	AMBALA	AMBALA-II	S-NPP	30.25301	76.72984	14:06:43	D	1.80
3	AMBALA	AMBALA-II	S-NPP	30.26085	76.61361	14:06:43	D	1.20
4	AMBALA	AMBALA-II	S-NPP	30.26661	76.84175	14:06:43	D	6.00
5	AMBALA	AMBALA-II	S-NPP	30.30042	76.85095	14:06:43	D	3.20
6	AMBALA	BARARA	S-NPP	30.29750	77.13996	12:27:08	D	4.50
7	AMBALA	BARARA	S-NPP	30.30632	77.16370	14:06:43	D	4.60
8	AMBALA	SAHA	S-NPP	30.23513	76.86504	14:06:43	D	4.70
9	AMBALA	SAHA	S-NPP	30.30010	76.92395	12:27:08	D	3.20
10	AMBALA	SHAHZADPUR	S-NPP	30.53045	77.06576	14:06:43	D	2.20
11	AMBALA	SHAHZADPUR	S-NPP	30.53173	77.06487	14:06:43	D	1.50
12	FATEHABAD	BHUNA	S-NPP	29.45318	75.61675	14:06:43	D	4.80
13	FATEHABAD	BHUNA	S-NPP	29.50870	75.69143	14:06:43	D	4.20
14	FATEHABAD	BHUNA	S-NPP	29.51476	75.83092	14:06:43	D	6.30
15	FATEHABAD	FATEHABAD	S-NPP	29.56259	75.54342	14:06:43	D	14.20
16	FATEHABAD	JAKHAL	S-NPP	29.68328	75.71643	14:06:43	D	8.40
17	FATEHABAD	RATIA	S-NPP	29.68318	75.48756	14:06:43	D	4.60
18	FATEHABAD	TOHANA	S-NPP	29.59537	75.93060	14:06:43	D	3.80
19	FATEHABAD	TOHANA	S-NPP	29.62055	75.92107	14:06:43	D	1.90
20	FATEHABAD	TOHANA	S-NPP	29.62236	75.91990	14:06:43	D	1.90
21	FATEHABAD	TOHANA	S-NPP	29.64708	75.71333	14:06:43	D	2.50
22	FATEHABAD	TOHANA	S-NPP	29.71259	75.94243	14:06:43	D	3.80
23	FATEHABAD	TOHANA	S-NPP	29.71368	75.94057	14:06:43	D	4.10
24	HISAR	BARWALA	S-NPP	29.42519	76.03043	14:06:43	D	3.00
25	HISAR	BARWALA	S-NPP	29.42574	76.03745	14:06:43	D	2.80
26	HISAR	NARNAUND	S-NPP	29.29232	76.03014	14:06:43	D	3.20
27	HISAR	UKLANA	S-NPP	29.56099	75.95512	14:06:43	D	2.20
28	JIND	ALEWA	S-NPP	29.51766	76.39947	14:06:43	D	3.80

29	JIND	ALEWA	S-NPP	29.52238	76.45910	14:06:43	D	4.20
30	JIND	JIND	S-NPP	29.38219	76.29272	14:06:43	D	3.30
31	JIND	NARWANA	S-NPP	29.53747	76.05306	14:06:43	D	2.50
32	JIND	NARWANA	S-NPP	29.70432	76.03201	14:06:43	D	17.20
33	JIND	PILLUKHERA	S-NPP	29.36541	76.55947	14:06:43	D	2.20
34	JIND	UCHANA	S-NPP	29.47298	76.23769	14:06:43	D	7.30
35	JIND	UCHANA	S-NPP	29.48213	76.02464	14:06:43	D	2.90
36	KAITHAL	GUHLA	AQUA	29.95000	76.29100	13:33:02	D	14.80
37	KAITHAL	GUHLA	S-NPP	29.95933	76.26028	14:06:43	D	2.90
38	KAITHAL	GUHLA	S-NPP	29.96053	76.26149	14:06:43	D	2.90
39	KAITHAL	GUHLA	S-NPP	30.01885	76.27315	14:06:43	D	3.40
40	KAITHAL	GUHLA	S-NPP	30.01914	76.27686	14:06:43	D	3.40
41	KAITHAL	KAITHAL	S-NPP	29.86137	76.50539	14:06:43	D	3.60
42	KAITHAL	PUNDRI	AQUA	29.82500	76.60500	13:33:02	D	26.80
43	KAITHAL	RAJOUND	S-NPP	29.56911	76.46355	12:27:08	D	5.70
44	KAITHAL	RAJOUND	S-NPP	29.56926	76.39699	14:06:43	D	2.00
45	KAITHAL	SIWAN	S-NPP	29.93414	76.26402	14:06:43	D	1.30
46	KAITHAL	SIWAN	S-NPP	29.95421	76.33565	14:06:43	D	3.10
47	KAITHAL	SIWAN	S-NPP	29.95592	76.33676	14:06:43	D	2.90
48	KARNAL	CHIRAO	S-NPP	29.75826	76.71275	14:06:43	D	3.70
49	KARNAL	GHARAUNDA	S-NPP	29.53104	77.00278	14:06:43	D	2.40
50	KURUKSHETRA	PEHOWA	S-NPP	29.92951	76.47967	14:06:43	D	7.50
51	KURUKSHETRA	PEHOWA	S-NPP	29.96293	76.69037	01:16:26	N	1.40
52	KURUKSHETRA	SHAHBAD	S-NPP	30.10177	76.90335	12:27:08	D	5.90
53	KURUKSHETRA	SHAHBAD	S-NPP	30.20659	76.77919	14:06:43	D	3.60
54	KURUKSHETRA	SHAHBAD	S-NPP	30.24497	76.84779	14:06:43	D	1.80
55	PALWAL	HODAL	S-NPP	27.94496	77.43369	12:27:08	D	7.30
56	PALWAL	HODAL	S-NPP	27.94877	77.43437	12:27:08	D	9.00
57	PALWAL	HODAL	S-NPP	27.95118	77.42793	14:06:43	D	4.00
58	PALWAL	HODAL	S-NPP	27.95148	77.43201	14:06:43	D	6.20
59	PALWAL	HODAL	S-NPP	27.95241	77.42847	14:06:43	D	4.30
60	PANIPAT	ISRANA	S-NPP	29.30573	76.94873	14:06:43	D	3.00
61	ROHTAK	MEHAM	S-NPP	29.02838	76.41890	14:06:43	D	4.10
62	ROHTAK	MEHAM	S-NPP	29.02906	76.41953	14:06:43	D	4.40
63	SIRSA	BARAGUNDA	AQUA	29.78900	75.21300	13:33:02	D	17.20

64	SIRSA	NATHUSARI CHOPTA	S-NPP	29.40816	75.15637	14:06:43	D	13.20
65	SIRSA	ODHAN	S-NPP	29.87939	74.88486	14:06:43	D	2.20
66	SONIPAT	GANAUR	S-NPP	29.20106	76.95840	14:06:43	D	1.60
67	YAMUNANAGAR	CHHACHHRAULI	S-NPP	30.29485	77.40814	14:06:43	D	4.70
68	YAMUNANAGAR	MUSTAFABAD	S-NPP	30.28896	77.15671	14:06:43	D	5.30
69	YAMUNANAGAR	SADHAURA	S-NPP	30.43478	77.21071	14:06:43	D	2.60
70	YAMUNANAGAR	SADHAURA	S-NPP	30.43742	77.21082	14:06:43	D	1.90

Details of residue burning events in Uttar Pradesh on 24-Oct-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AGRA	KHAIRIGARH	S-NPP	26.97743	77.85899	14:06:43	D	2.70
2	ALIGARH	KHAIR	S-NPP	28.08442	77.57603	14:06:43	D	3.70
3	BARABANKI	FATEHPUR	S-NPP	27.09781	81.27597	12:27:08	D	3.40
4	BARABANKI	NAWABGANJ	AQUA	26.87500	81.21800	13:33:02	D	7.30
5	BAREILLY	BAHERI	AQUA	28.83000	79.37100	13:33:02	D	13.20
6	BAREILLY	BAHERI	S-NPP	28.81781	79.48954	14:06:43	D	4.30
7	BAREILLY	BAHERI	S-NPP	28.82463	79.44635	14:06:43	D	6.80
8	BAREILLY	BAHERI	S-NPP	28.82789	79.44370	14:06:43	D	6.50
9	BAREILLY	BAHERI	S-NPP	28.88252	79.40622	14:06:43	D	11.50
10	BIJNOR	NAJIBABAD	S-NPP	29.69847	78.40343	12:27:08	D	2.60
11	FATEHPUR	FATEHPUR	AQUA	25.97600	80.76300	13:33:02	D	12.30
12	JHANSI	JHANSI	S-NPP	25.50822	78.72511	14:06:43	D	9.00
13	JHANSI	JHANSI	S-NPP	25.50957	78.72498	14:06:43	D	9.10
14	KANPUR	BILHAUR	AQUA	26.72200	80.05800	13:33:02	D	17.80
15	KANPUR	BILHAUR	AQUA	26.74300	80.06600	13:33:02	D	19.30
16	KAUSHAMBI	SIRATHU	S-NPP	25.63667	81.25228	12:27:08	D	3.30
17	KHERI	GOLA	S-NPP	28.12827	80.32501	12:27:08	D	6.70
18	MAHARAJGANJ	NICHLAUL	S-NPP	27.20023	83.73937	12:27:08	D	4.90
19	MEERUT	MAWANA	S-NPP	28.97205	77.84271	14:06:43	D	1.50
20	MUZAFARNAGAR	JANSATH	S-NPP	29.28310	78.05070	14:06:43	D	3.90
21	PILHIBHIT	PILHIBHIT	S-NPP	28.77778	79.74611	12:27:08	D	4.30
22	PILHIBHIT	PILHIBHIT	S-NPP	28.77787	79.74484	12:27:08	D	2.80
23	PRATAPGARH	LALGANJ	AQUA	25.98200	81.58800	13:33:02	D	10.80

24	RAMPUR	BILASPUR	AQUA	28.79700	79.30000	13:33:02	D	6.90
25	RAMPUR	BILASPUR	AQUA	28.82800	79.35900	13:33:02	D	39.70
26	RAMPUR	BILASPUR	AQUA	28.90900	79.41400	13:33:02	D	18.10
27	RAMPUR	BILASPUR	S-NPP	28.82909	79.24758	12:27:08	D	2.40
28	RAMPUR	BILASPUR	S-NPP	28.88611	79.36130	14:06:43	D	9.70
29	RAMPUR	BILASPUR	S-NPP	28.88940	79.36328	14:06:43	D	8.20
30	RAMPUR	BILASPUR	S-NPP	28.89937	79.18967	12:27:08	D	4.20
31	RAMPUR	BILASPUR	S-NPP	28.91325	79.24376	12:27:08	D	2.40
32	RAMPUR	BILASPUR	S-NPP	28.92776	79.34958	12:27:08	D	7.50
33	RAMPUR	BILASPUR	S-NPP	28.92973	79.34706	12:27:08	D	3.90
34	RAMPUR	BILASPUR	S-NPP	28.93094	79.35190	12:27:08	D	3.90
35	RAMPUR	SUAR	S-NPP	28.90523	79.18779	12:27:08	D	4.20
36	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.70960	79.86224	12:27:08	D	3.00
37	SHRAWASTI	BHINGA	AQUA	27.86200	81.72000	13:33:02	D	6.50
38	UNNAO	SAFIPUR	AQUA	26.90000	80.19700	13:33:02	D	11.90

Details of residue burning events in Rajasthan on 24-Oct-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARAN	BARAN	S-NPP	25.03830	76.57102	14:06:43	D	2.60
2	BARAN	CHHABRA	S-NPP	24.53224	77.00174	14:06:43	D	1.20
3	BARAN	CHHABRA	S-NPP	24.59114	76.90060	14:06:43	D	2.90
4	BARAN	CHHABRA	S-NPP	24.63567	76.97311	14:06:43	D	1.60
5	BARAN	CHHABRA	S-NPP	24.64860	76.88333	14:06:43	D	2.20
6	BARAN	CHHABRA	S-NPP	24.66930	76.93876	14:06:43	D	2.70
7	BARAN	CHHABRA	S-NPP	24.66961	76.94216	14:06:43	D	9.80
8	BARAN	CHHABRA	S-NPP	24.69256	76.96372	14:06:43	D	2.40
9	BARAN	CHHABRA	S-NPP	24.69662	77.00794	14:06:43	D	6.00
10	BARAN	KISHANGUNJ	S-NPP	25.23577	76.67097	14:06:43	D	2.30
11	BARAN	KISHANGUNJ	S-NPP	25.23604	76.64795	14:06:43	D	3.30
12	BARAN	KISHANGUNJ	S-NPP	25.23807	76.67113	14:06:43	D	2.40
13	BARAN	MANGROL	S-NPP	25.30846	76.33222	14:06:43	D	6.30
14	BARAN	MANGROL	S-NPP	25.30975	76.33436	14:06:43	D	4.60
15	BARAN	SHAHBAD	S-NPP	25.08047	76.92581	14:06:43	D	3.20
16	BARAN	SHAHBAD	S-NPP	25.10375	77.06947	14:06:43	D	2.60
17	BARAN	SHAHBAD	S-NPP	25.10901	77.06895	14:06:43	D	2.50
18	BARAN	SHAHBAD	S-NPP	25.17159	76.99975	14:06:43	D	1.90
19	BUNDI	BUNDI	S-NPP	25.26123	75.86720	14:06:43	D	2.10
20	BUNDI	INDRAGARH	AQUA	25.48700	76.11900	13:33:02	D	26.40
21	BUNDI	INDRAGARH	AQUA	25.49200	76.12300	13:33:02	D	23.00
22	BUNDI	INDRAGARH	S-NPP	25.49658	76.12444	14:06:43	D	14.50
23	BUNDI	KESHORAIPATAN	AQUA	25.34700	75.88500	13:33:02	D	30.30
24	BUNDI	KESHORAIPATAN	AQUA	25.35300	75.89000	13:33:02	D	25.30
25	BUNDI	KESHORAIPATAN	AQUA	25.44700	76.05500	13:33:02	D	23.10
26	BUNDI	KESHORAIPATAN	S-NPP	25.34919	75.95988	14:06:43	D	5.40
27	BUNDI	KESHORAIPATAN	S-NPP	25.35378	75.90498	14:06:43	D	4.30
28	BUNDI	KESHORAIPATAN	S-NPP	25.35692	75.88657	14:06:43	D	6.30
29	BUNDI	KESHORAIPATAN	S-NPP	25.38207	76.04185	14:06:43	D	3.90
30	BUNDI	KESHORAIPATAN	S-NPP	25.42010	76.06046	14:06:43	D	4.90

31	BUNDI	KESHORAIPTAN	S-NPP	25.47459	76.05451	14:06:43	D	9.20
32	KOTA	LADPURA	S-NPP	25.20639	75.93599	14:06:43	D	4.30
33	KOTA	PIPALDA	S-NPP	25.43823	76.48395	14:06:43	D	3.50
34	KOTA	PIPALDA	S-NPP	25.44016	76.48518	14:06:43	D	3.20
35	KOTA	PIPALDA	S-NPP	25.44506	76.50296	14:06:43	D	2.80
36	KOTA	PIPALDA	S-NPP	25.45103	76.51224	14:06:43	D	6.80
37	KOTA	PIPALDA	S-NPP	25.47379	76.53631	14:06:43	D	10.50
38	SWAIMADHOPUR	KHANDAR	S-NPP	25.93118	76.68697	14:06:43	D	5.10

Details of residue burning events in Madhya Pradesh on 24-Oct-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45531	77.48746	14:06:43	D	10.60
2	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45564	77.49113	14:06:43	D	9.80
3	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45858	77.49014	14:06:43	D	11.90
4	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.48951	77.74312	14:06:43	D	1.90
5	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.49076	77.74263	14:06:43	D	1.70
6	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.56414	77.89088	14:06:43	D	18.10
7	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.56896	77.88250	14:06:43	D	4.90
8	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.63237	77.71932	14:06:43	D	3.30
9	ASHOKNAGAR	MUNGAOLI	S-NPP	24.30672	77.99783	14:06:43	D	2.80
10	ASHOKNAGAR	MUNGAOLI	S-NPP	24.33229	78.10340	14:06:43	D	5.30
11	ASHOKNAGAR	MUNGAOLI	S-NPP	24.36295	78.06835	14:06:43	D	5.50
12	ASHOKNAGAR	MUNGAOLI	S-NPP	24.50227	77.88087	14:06:43	D	3.10
13	BHIND	BHIND	S-NPP	26.59204	78.63564	14:06:43	D	2.20
14	BHIND	LAHAR	AQUA	26.24000	78.95200	13:33:02	D	13.50
15	DAMOH	PATHARIA	S-NPP	23.98742	79.39275	01:16:26	N	0.80
16	DATIA	BHANDER	S-NPP	25.97879	78.77343	14:06:43	D	3.50
17	DATIA	DATIA	S-NPP	25.72559	78.44845	12:27:08	D	6.00
18	DATIA	DATIA	S-NPP	25.73136	78.50773	14:06:43	D	2.40
19	DATIA	DATIA	S-NPP	25.73224	78.35455	12:27:08	D	5.50
20	DATIA	DATIA	S-NPP	25.75248	78.47916	14:06:43	D	4.70
21	DATIA	SEONDHA	S-NPP	25.82354	78.57022	12:27:08	D	11.40
22	DATIA	SEONDHA	S-NPP	25.83526	78.56619	14:06:43	D	3.90
23	DATIA	SEONDHA	S-NPP	25.84090	78.56445	14:06:43	D	4.00
24	DATIA	SEONDHA	S-NPP	25.87746	78.50719	14:06:43	D	4.40
25	DATIA	SEONDHA	S-NPP	25.92198	78.55293	14:06:43	D	4.90
26	DATIA	SEONDHA	S-NPP	25.93612	78.51534	14:06:43	D	2.00
27	DATIA	SEONDHA	S-NPP	25.93653	78.51553	14:06:43	D	1.80
28	DATIA	SEONDHA	S-NPP	26.06659	78.82462	12:27:08	D	3.40
29	DHAR	MANAWAR	S-NPP	22.26493	75.13219	01:16:26	N	1.30
30	GUNA	ARON	S-NPP	24.24013	77.44682	14:06:43	D	4.80

31	GUNA	ARON	S-NPP	24.30262	77.56464	14:06:43	D	3.50
32	GUNA	ARON	S-NPP	24.30294	77.56828	14:06:43	D	3.50
33	GUNA	GUNA	S-NPP	24.53607	77.44917	14:06:43	D	3.70
34	GUNA	GUNA	S-NPP	24.70519	77.52675	14:06:43	D	4.20
35	GUNA	GUNA	S-NPP	24.73996	77.48944	14:06:43	D	6.60
36	GUNA	GUNA	S-NPP	24.78823	77.26917	14:06:43	D	1.80
37	GUNA	GUNA	S-NPP	24.79379	77.45869	14:06:43	D	3.60
38	GUNA	GUNA	S-NPP	24.81116	77.40903	14:06:43	D	2.20
39	GUNA	GUNA	S-NPP	24.82506	77.44450	14:06:43	D	4.30
40	GUNA	GUNA	S-NPP	24.84704	77.50957	14:06:43	D	3.40
41	GUNA	GUNA	S-NPP	24.84999	77.01231	14:06:43	D	4.00
42	GUNA	GUNA	S-NPP	24.85034	77.01123	14:06:43	D	4.10
43	GUNA	GUNA	S-NPP	24.89805	77.13231	14:06:43	D	7.60
44	GWALIOR	BHITARWAR	S-NPP	25.88312	78.04173	14:06:43	D	3.60
45	GWALIOR	BHITARWAR	S-NPP	25.88607	78.04214	14:06:43	D	3.60
46	GWALIOR	DABRA	S-NPP	25.81727	78.25274	14:06:43	D	2.50
47	HARDA	HARDA	S-NPP	22.26486	77.15288	14:06:43	D	3.80
48	HARDA	TIMURNI	S-NPP	22.33208	77.23247	14:06:43	D	0.90
49	HOSHANGABAD	BABAI	S-NPP	22.72195	77.95038	12:27:08	D	5.50
50	HOSHANGABAD	BABAI	S-NPP	22.72247	77.94877	12:27:08	D	5.70
51	HOSHANGABAD	BABAI	S-NPP	22.74516	77.92294	14:06:43	D	2.00
52	HOSHANGABAD	BABAI	S-NPP	22.75023	77.91873	14:06:43	D	2.00
53	HOSHANGABAD	BABAI	S-NPP	22.75056	77.92238	14:06:43	D	2.00
54	HOSHANGABAD	BABAI	S-NPP	22.76912	77.88728	14:06:43	D	4.90
55	HOSHANGABAD	BABAI	S-NPP	22.76946	77.89092	14:06:43	D	4.90
56	HOSHANGABAD	HOSHANGABAD	S-NPP	22.68392	77.72510	14:06:43	D	2.10
57	HOSHANGABAD	ITARSI	S-NPP	22.52979	77.70397	14:06:43	D	2.30
58	HOSHANGABAD	ITARSI	S-NPP	22.53112	77.66145	14:06:43	D	2.70
59	HOSHANGABAD	ITARSI	S-NPP	22.53643	77.66093	14:06:43	D	2.70
60	HOSHANGABAD	SEONI MALWA	S-NPP	22.33295	77.36654	14:06:43	D	2.90
61	HOSHANGABAD	SEONI MALWA	S-NPP	22.35493	77.42836	14:06:43	D	3.30
62	HOSHANGABAD	SEONI MALWA	S-NPP	22.35564	77.42712	14:06:43	D	2.10
63	HOSHANGABAD	SEONI MALWA	S-NPP	22.36892	77.45621	14:06:43	D	6.20
64	HOSHANGABAD	SEONI MALWA	S-NPP	22.36923	77.45959	14:06:43	D	6.20

65	HOSHANGABAD	SEONI MALWA	S-NPP	22.38626	77.41695	14:06:43	D	3.90
66	HOSHANGABAD	SEONI MALWA	S-NPP	22.43084	77.38863	14:06:43	D	3.90
67	HOSHANGABAD	SEONI MALWA	S-NPP	22.43302	77.51817	14:06:43	D	4.10
68	HOSHANGABAD	SEONI MALWA	S-NPP	22.43827	77.51764	14:06:43	D	4.10
69	HOSHANGABAD	SEONI MALWA	S-NPP	22.45474	77.30193	14:06:43	D	1.90
70	HOSHANGABAD	SEONI MALWA	S-NPP	22.45803	77.56402	14:06:43	D	2.20
71	HOSHANGABAD	SEONI MALWA	S-NPP	22.45875	77.56393	14:06:43	D	2.20
72	HOSHANGABAD	SEONI MALWA	S-NPP	22.46983	77.35065	14:06:43	D	3.00
73	HOSHANGABAD	SEONI MALWA	S-NPP	22.47502	77.35006	14:06:43	D	3.00
74	HOSHANGABAD	SOHAGPUR	S-NPP	22.66342	78.13952	01:16:26	N	0.30
75	JABALPUR	JABALPUR	AQUA	23.05200	79.93000	13:33:02	D	30.00
76	JABALPUR	PATAN	S-NPP	23.34641	79.77579	12:27:08	D	4.70
77	JABALPUR	PATAN	S-NPP	23.34653	79.77483	12:27:08	D	7.00
78	JABALPUR	SAHPURA	S-NPP	23.19298	79.78086	14:06:43	D	4.00
79	JABALPUR	SAHPURA	S-NPP	23.19370	79.78017	14:06:43	D	2.90
80	PANNA	GUNAUR	S-NPP	24.49528	80.42468	12:27:08	D	4.40
81	RAISEN	GOHARGANJ	S-NPP	23.06346	77.52923	14:06:43	D	2.10
82	RAISEN	GOHARGANJ	S-NPP	23.09002	77.58329	14:06:43	D	6.40
83	RAISEN	GOHARGANJ	S-NPP	23.21319	77.61449	14:06:43	D	1.80
84	RAISEN	GOHARGANJ	S-NPP	23.21481	77.61529	14:06:43	D	3.30
85	RAISEN	RAISEN	S-NPP	23.28909	77.91555	14:06:43	D	1.70
86	RAISEN	RAISEN	S-NPP	23.44278	77.51830	14:06:43	D	1.70
87	SEHORE	BUDHNI	S-NPP	22.66643	77.47339	14:06:43	D	2.00
88	SEHORE	BUDHNI	S-NPP	22.66670	77.47178	14:06:43	D	2.70
89	SEHORE	BUDHNI	S-NPP	22.71489	77.53777	14:06:43	D	2.20
90	SEONI	KEWLARI	S-NPP	22.28359	79.89571	14:06:43	D	4.70
91	SEONI	KEWLARI	S-NPP	22.31882	79.80495	14:06:43	D	2.80
92	SEONI	KEWLARI	S-NPP	22.38782	79.88360	14:06:43	D	4.10
93	SEONI	LAKHNADOU	S-NPP	22.42731	79.62874	14:06:43	D	3.00
94	SEONI	LAKHNADOU	S-NPP	22.42949	79.62890	14:06:43	D	4.30
95	SEONI	SEONI	S-NPP	22.00303	79.54823	14:06:43	D	2.70
96	SEONI	SEONI	S-NPP	22.15614	79.43346	12:27:08	D	4.20
97	SEONI	SEONI	S-NPP	22.15738	79.43091	12:27:08	D	3.60
98	SEONI	SEONI	S-NPP	22.19976	79.77859	14:06:43	D	3.30

99	SHEOPUR	KARAHAL	S-NPP	25.43493	76.81802	14:06:43	D	6.60
100	SHEOPUR	KARAHAL	S-NPP	25.43524	76.82143	14:06:43	D	12.60
101	SHEOPUR	KARAHAL	S-NPP	25.47260	76.69737	14:06:43	D	3.20
102	SHEOPUR	KARAHAL	S-NPP	25.48620	76.73325	14:06:43	D	1.60
103	SHEOPUR	KARAHAL	S-NPP	25.54072	76.75832	14:06:43	D	4.60
104	SHEOPUR	KARAHAL	S-NPP	25.54591	76.75781	14:06:43	D	12.00
105	SHEOPUR	SHEOPUR	S-NPP	25.37564	76.68172	14:06:43	D	1.90
106	SHEOPUR	SHEOPUR	S-NPP	25.38078	76.68116	14:06:43	D	15.60
107	SHEOPUR	SHEOPUR	S-NPP	25.40623	76.67513	14:06:43	D	1.50
108	SHEOPUR	SHEOPUR	S-NPP	25.50596	76.54955	14:06:43	D	3.80
109	SHEOPUR	SHEOPUR	S-NPP	25.51626	76.60522	14:06:43	D	3.90
110	SHEOPUR	SHEOPUR	S-NPP	25.53721	76.66348	14:06:43	D	4.80
111	SHEOPUR	SHEOPUR	S-NPP	25.53770	76.61294	14:06:43	D	2.50
112	SHEOPUR	SHEOPUR	S-NPP	25.54253	76.60903	14:06:43	D	1.40
113	SHEOPUR	SHEOPUR	S-NPP	25.54391	76.67966	14:06:43	D	4.90
114	SHEOPUR	SHEOPUR	S-NPP	25.56948	76.65813	14:06:43	D	2.30
115	SHEOPUR	SHEOPUR	S-NPP	25.57345	76.64416	14:06:43	D	2.90
116	SHEOPUR	SHEOPUR	S-NPP	25.62226	76.66631	14:06:43	D	2.00
117	SHEOPUR	SHEOPUR	S-NPP	25.62883	76.56808	14:06:43	D	2.70
118	SHEOPUR	SHEOPUR	S-NPP	25.69999	76.69987	14:06:43	D	2.40
119	SHEOPUR	SHEOPUR	S-NPP	25.71581	76.70168	14:06:43	D	2.50
120	SHEOPUR	SHEOPUR	S-NPP	25.75454	76.72511	14:06:43	D	1.90
121	SHEOPUR	SHEOPUR	S-NPP	25.78277	76.56040	14:06:43	D	3.50
122	SHEOPUR	SHEOPUR	S-NPP	25.81963	76.56676	14:06:43	D	2.00
123	SHEOPUR	SHEOPUR	S-NPP	25.85232	76.58366	14:06:43	D	5.10
124	SHEOPUR	SHEOPUR	S-NPP	25.85721	76.80978	14:06:43	D	3.20
125	SHEOPUR	SHEOPUR	S-NPP	25.87828	76.75221	14:06:43	D	4.30
126	SHEOPUR	SHEOPUR	S-NPP	25.87911	76.75107	14:06:43	D	3.40
127	SHEOPUR	SHEOPUR	S-NPP	25.87940	76.75446	14:06:43	D	3.40
128	SHEOPUR	SHEOPUR	S-NPP	25.88764	76.66733	14:06:43	D	3.50
129	SHIVPURI	KOLARAS	S-NPP	24.98275	77.64027	12:27:08	D	5.80
130	SHIVPURI	KOLARAS	S-NPP	24.98517	77.64078	12:27:08	D	7.70
131	VIDESHA	KORWAI	S-NPP	24.16268	77.93459	14:06:43	D	3.40
132	VIDESHA	KORWAI	S-NPP	24.16818	77.93408	14:06:43	D	3.40

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 / 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 (ISRO)**

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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](#)
