

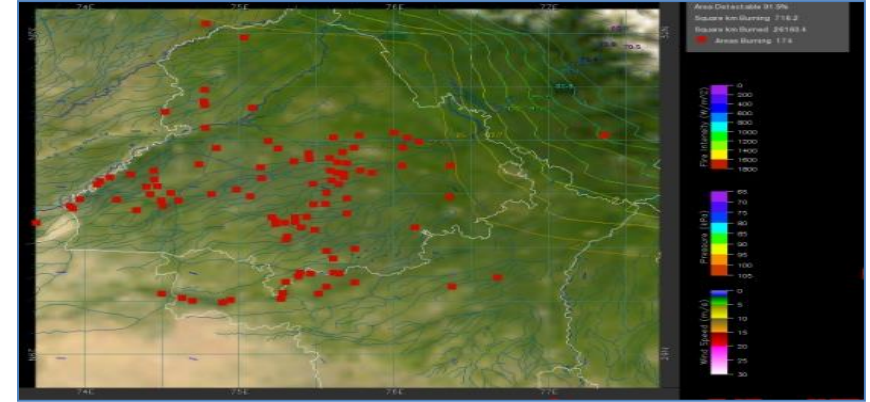
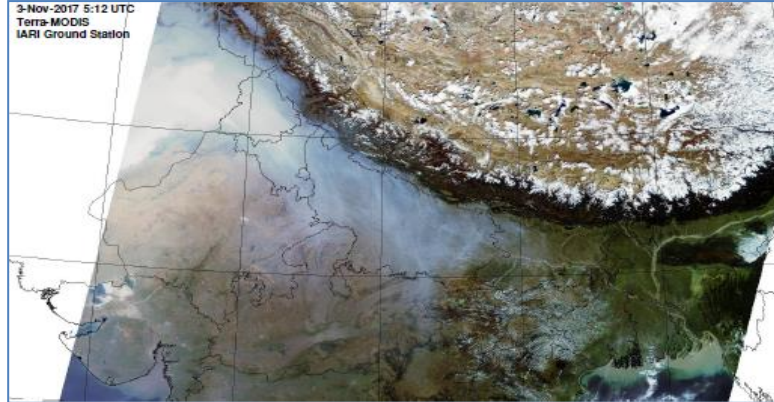


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin
No. 42

Events Date:
26-Oct-2024

Issued on:
26-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

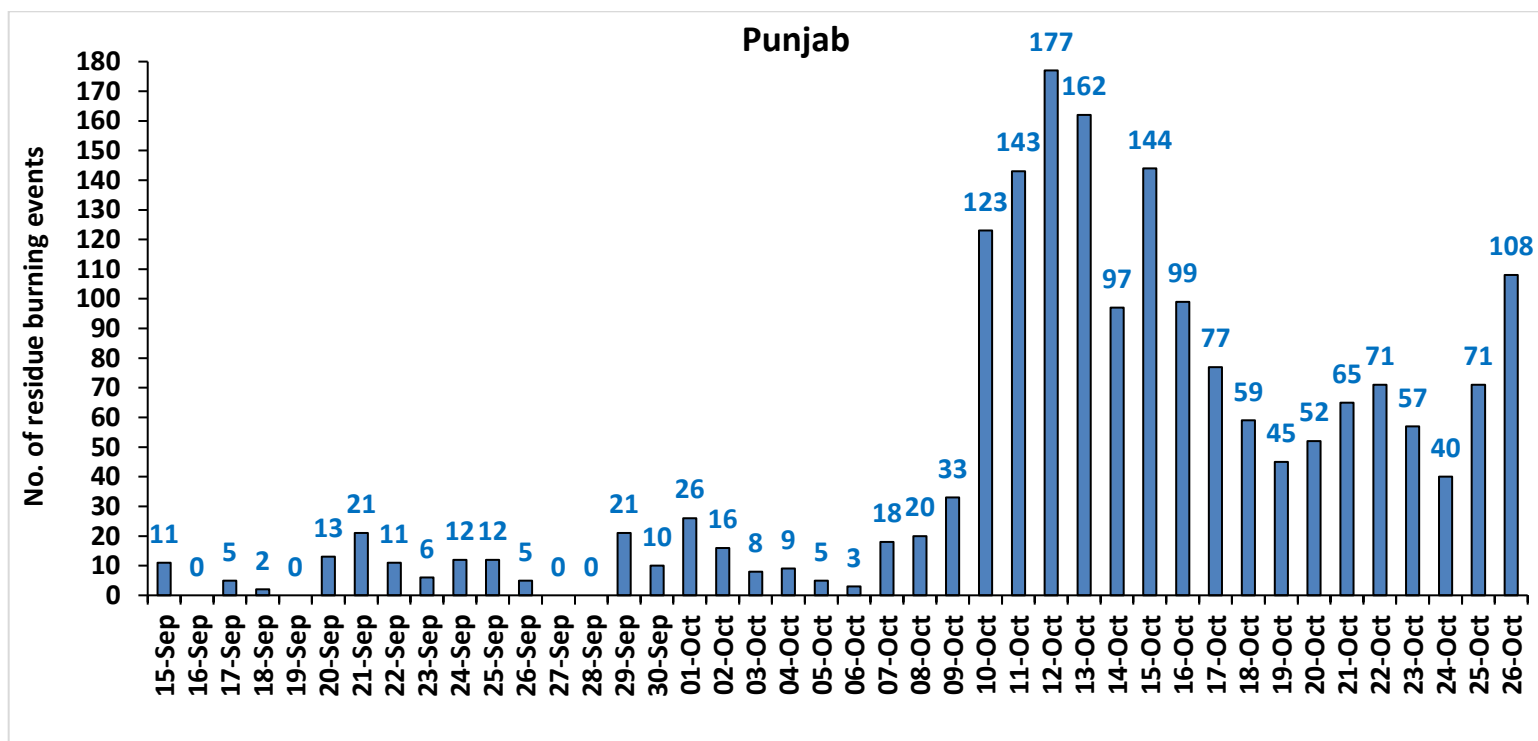
<https://creams.iari.res.in>

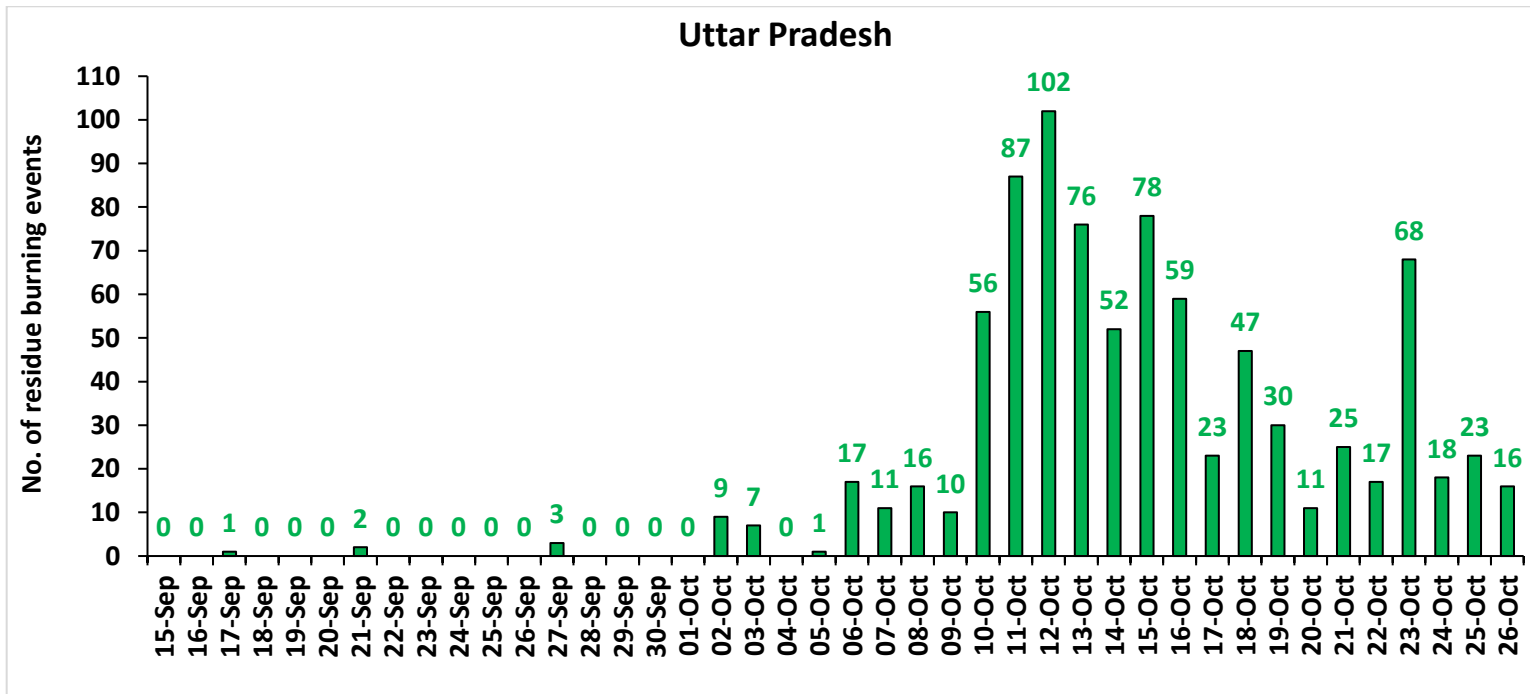
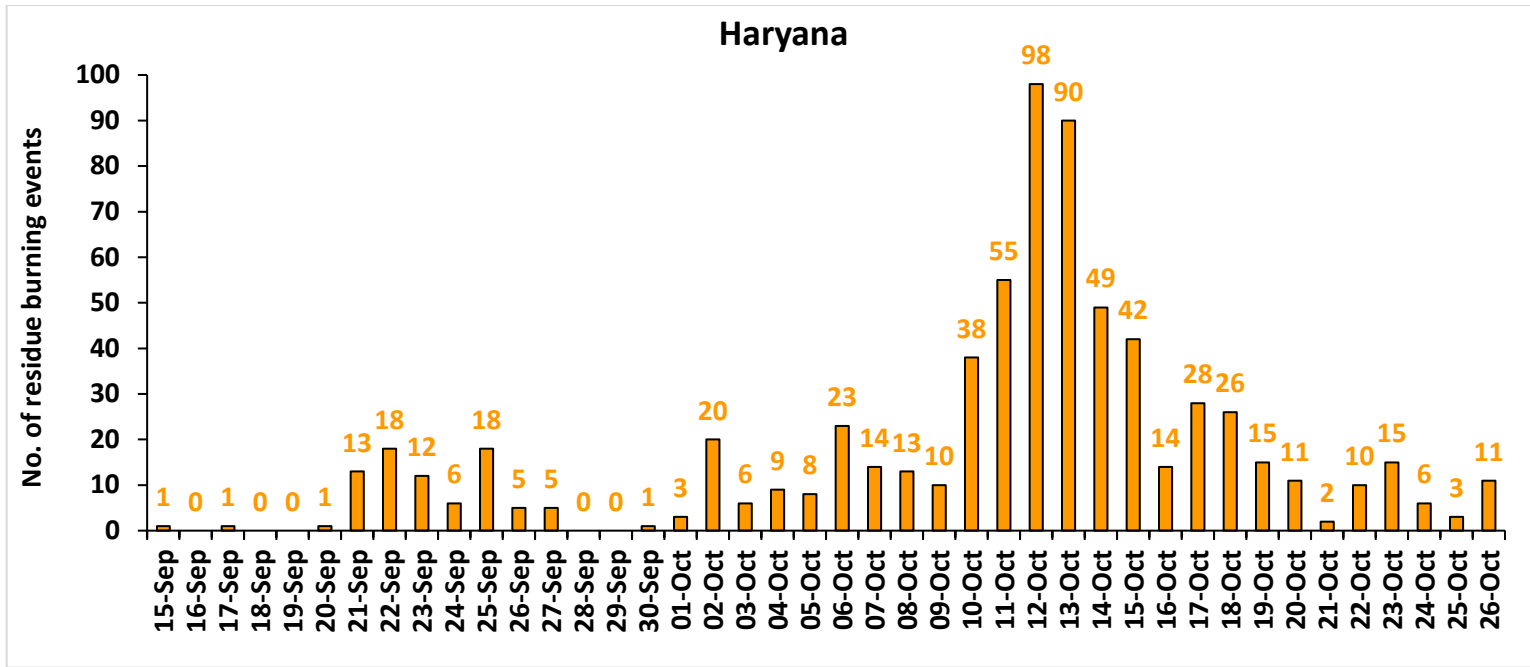


Highlights for 26-Oct-2024

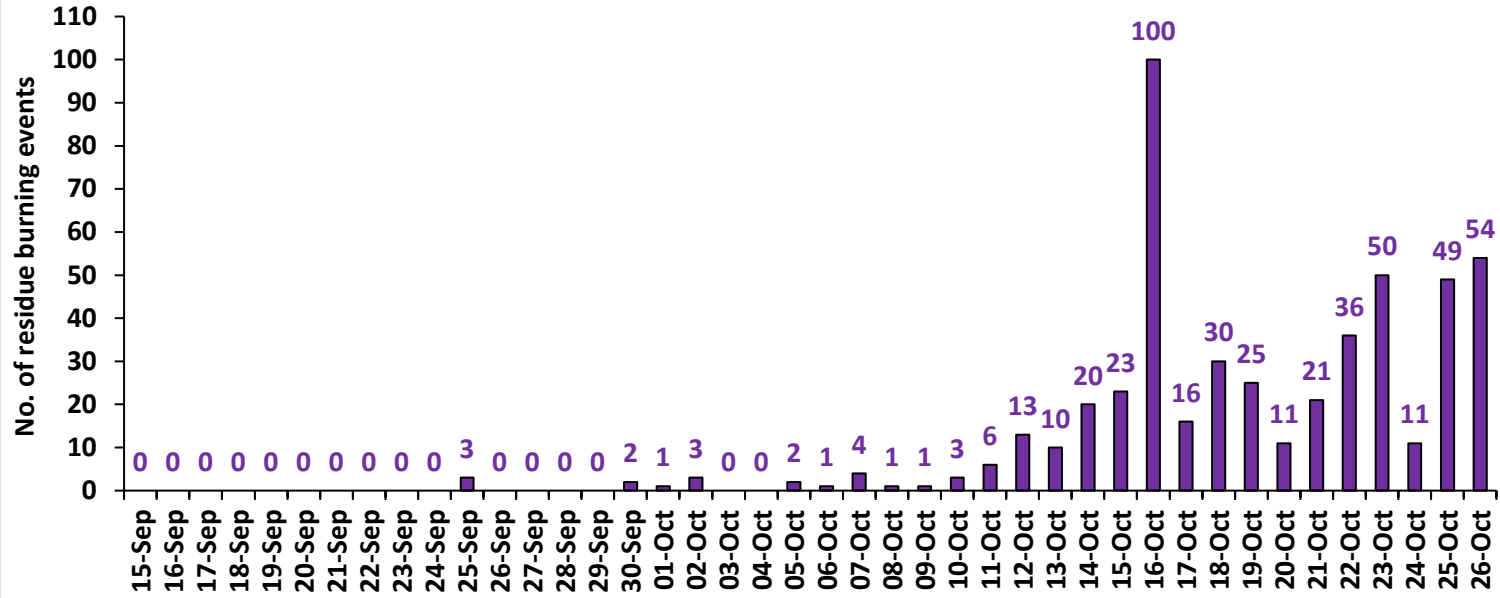
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol " recommended by CAQM.
- Satellites detected **360** residue burning events in the six study States on **26-Oct-2024**.
- The state wise events detected on **26-Oct-2024** were **108** in Punjab, **11** in Haryana, **16** in UP, **01** in Delhi, **54** in Rajasthan and **170** in MP.
- Total **4969** burning events were detected in the six states between **15-Sept-2024** and **26-Oct-2024**, which are distributed as **1857**, **700**, **865**, **12**, **496** and **1039** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

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

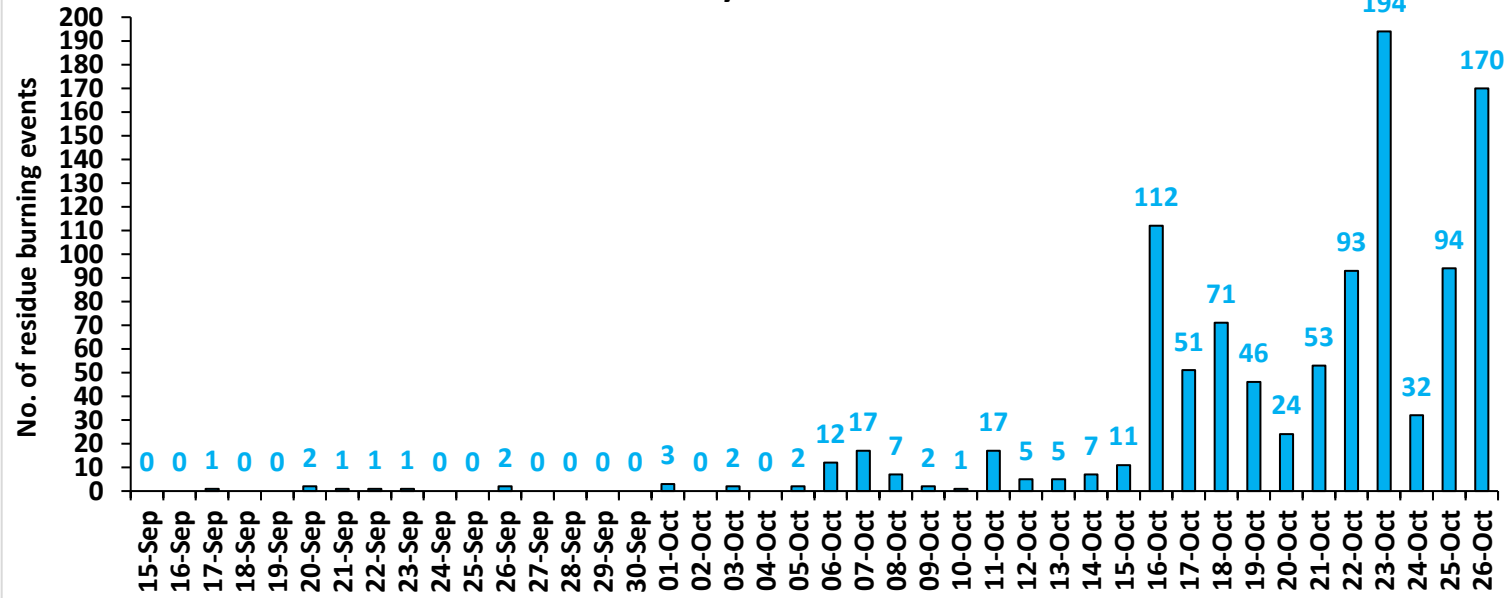




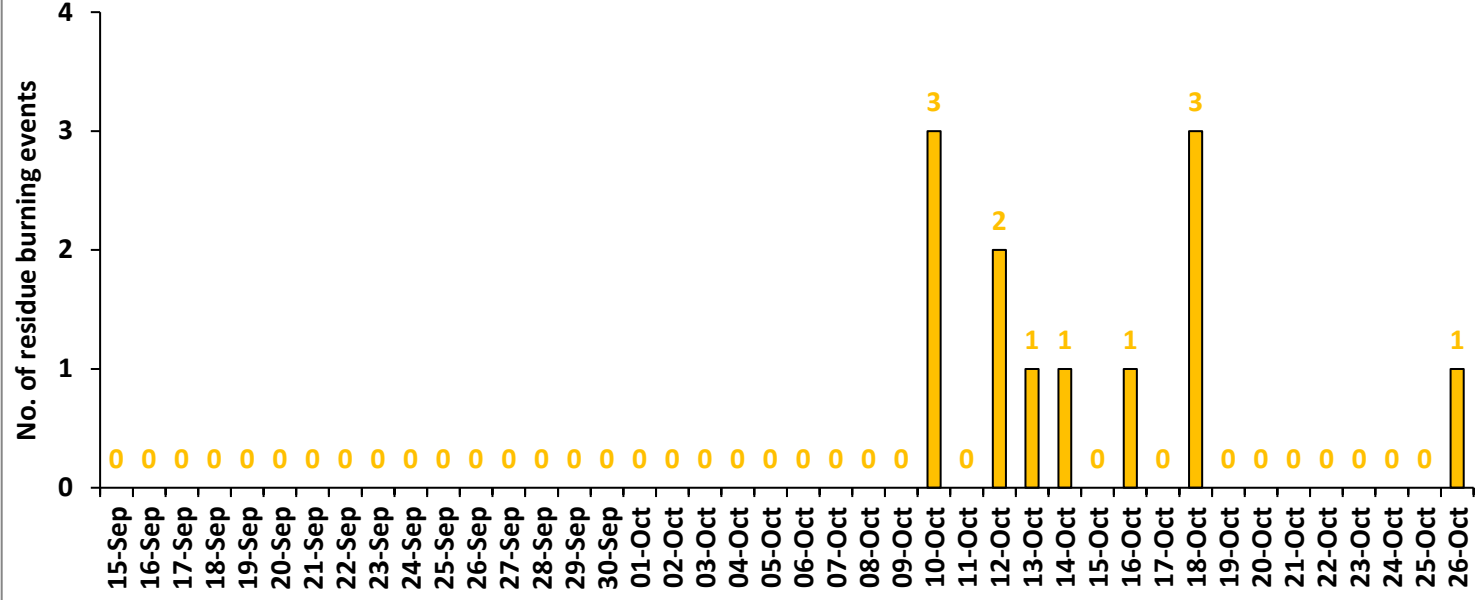
Rajasthan



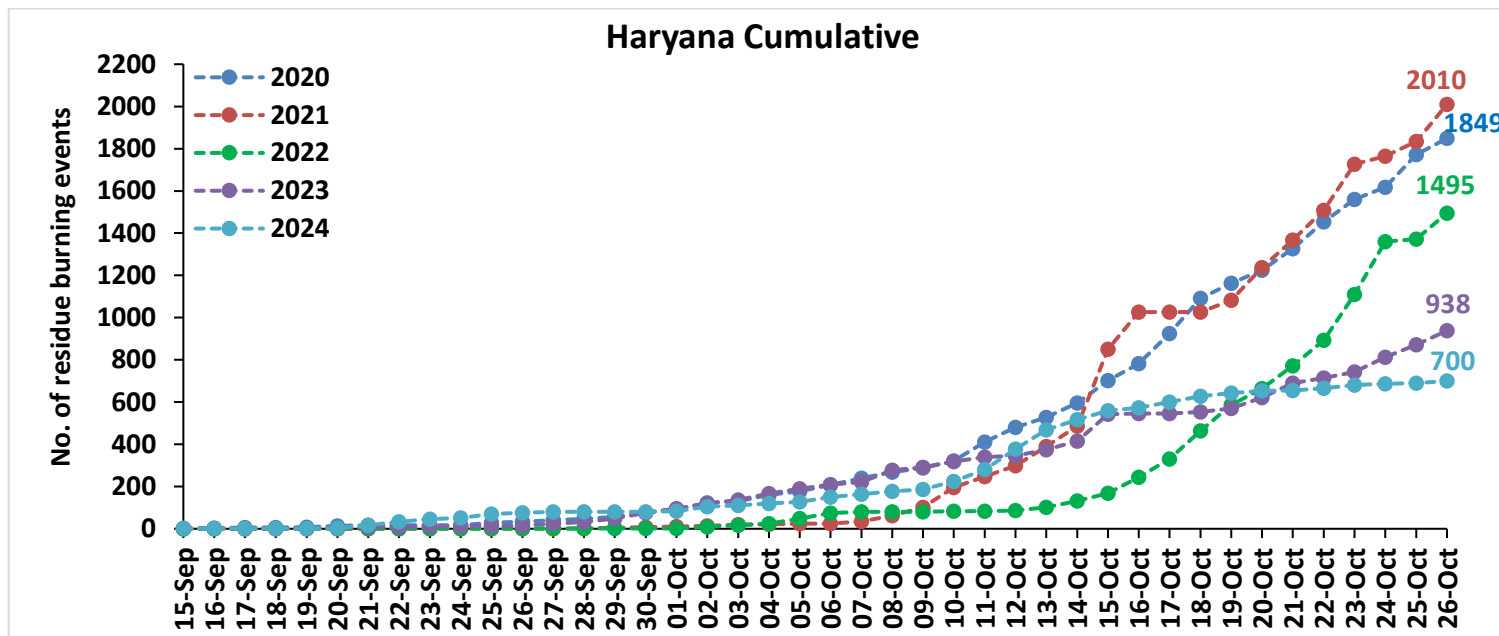
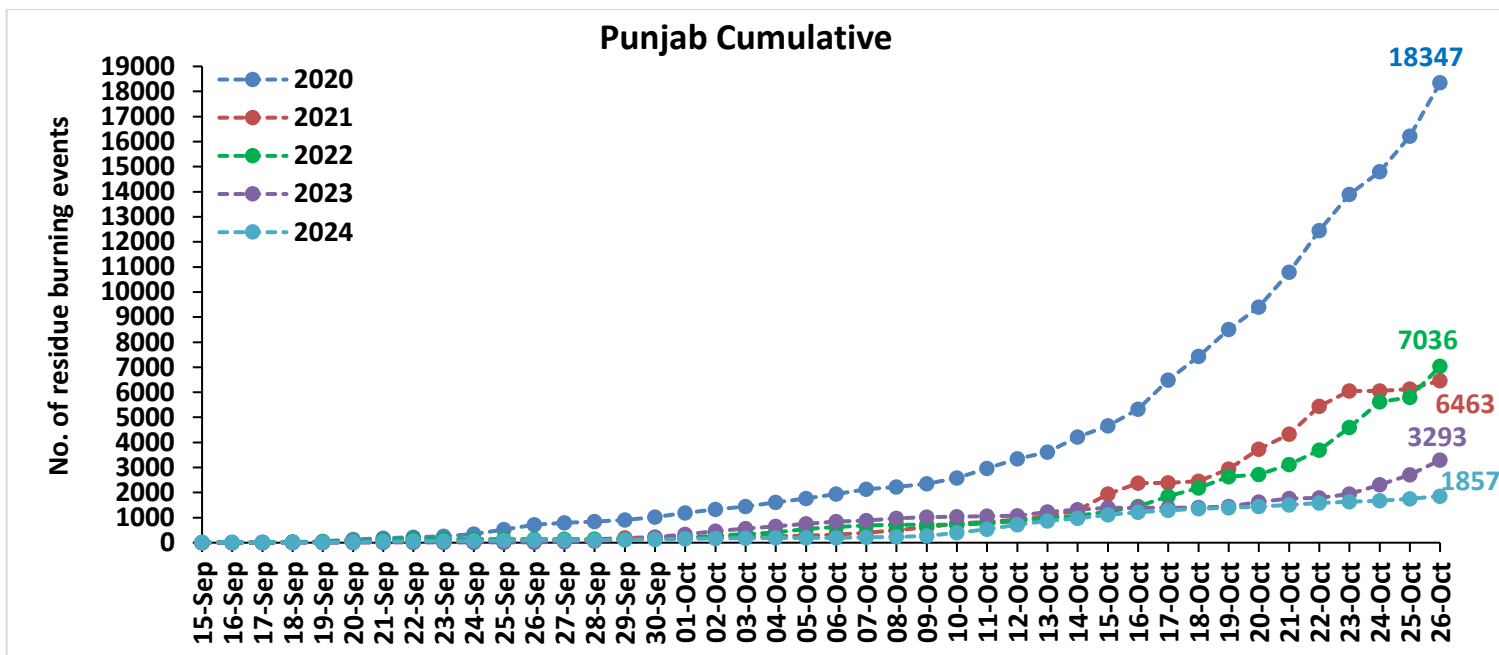
Madhya Pradesh

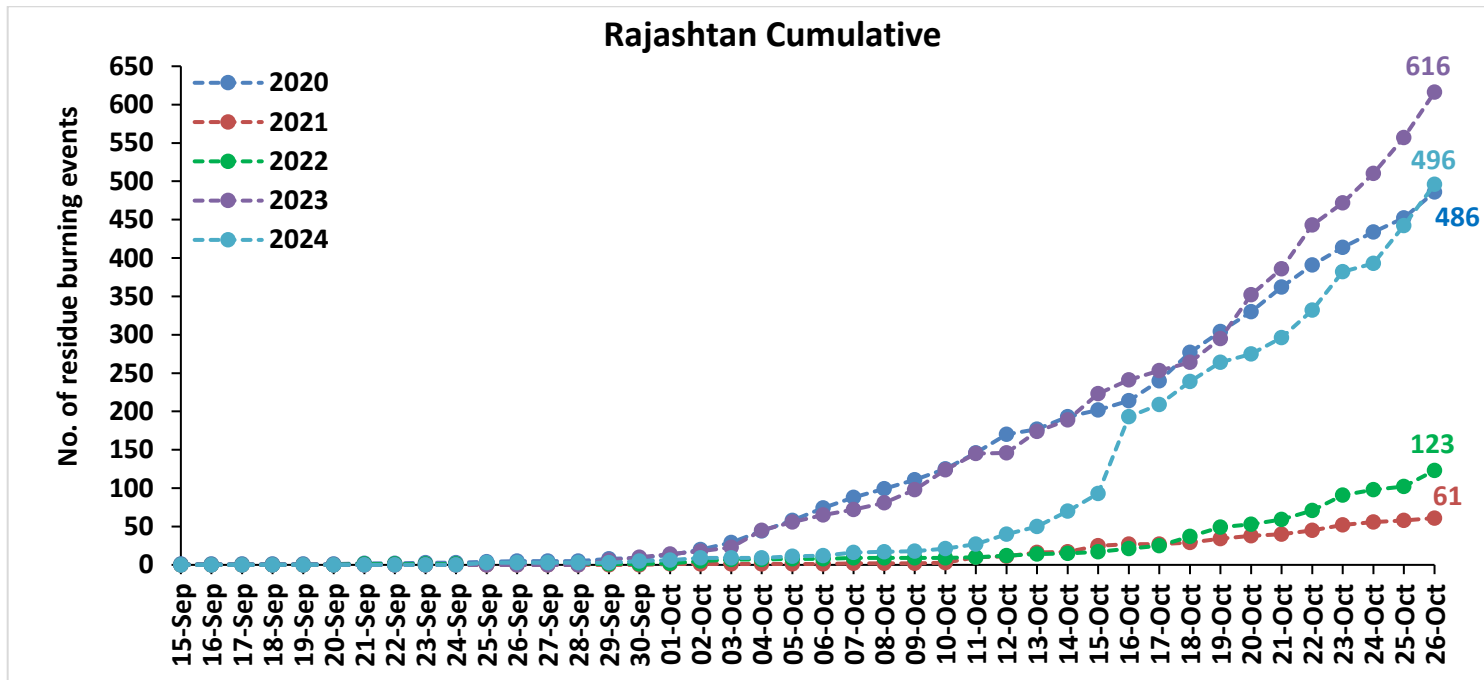
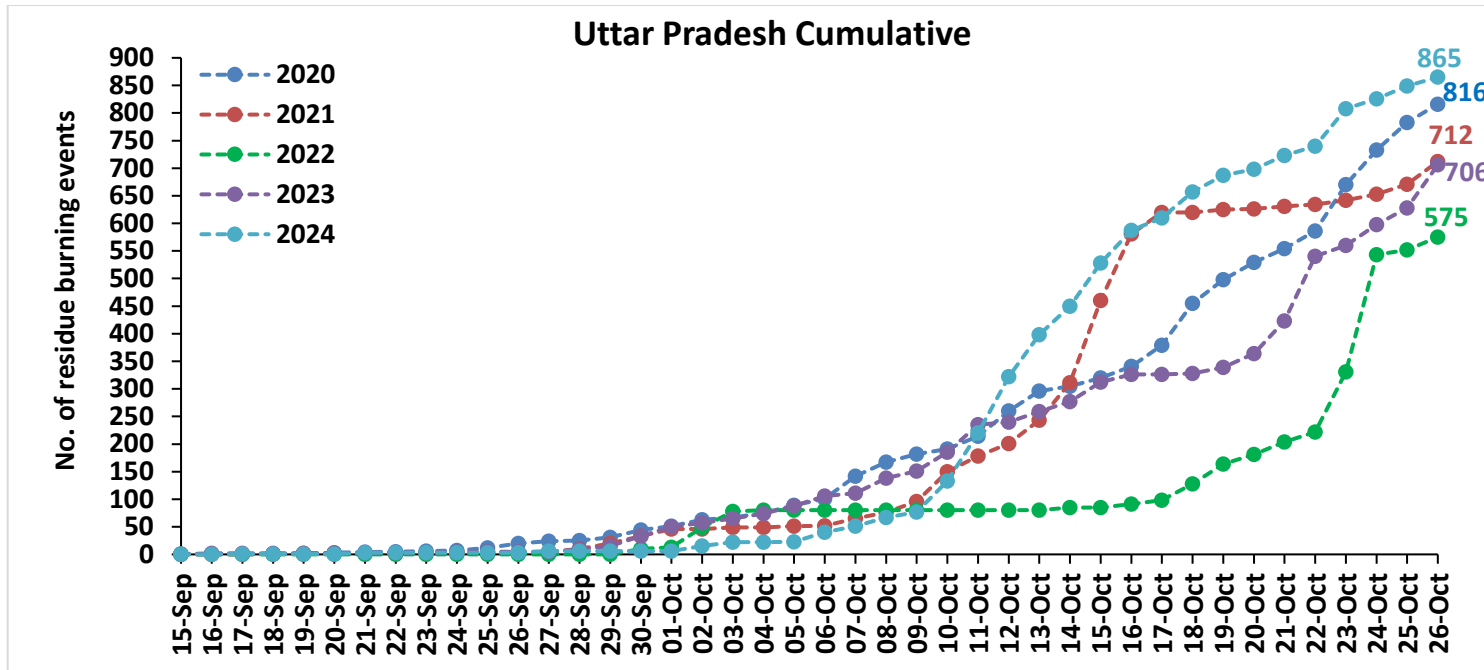


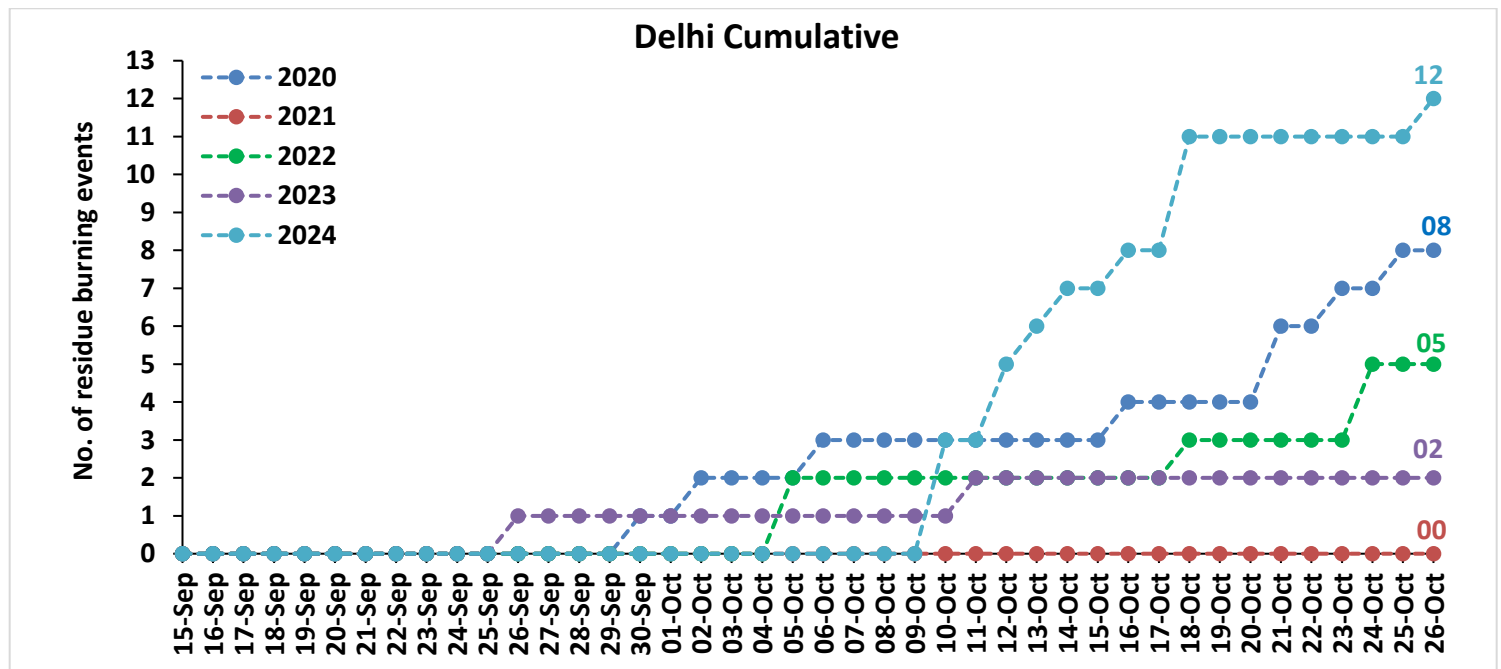
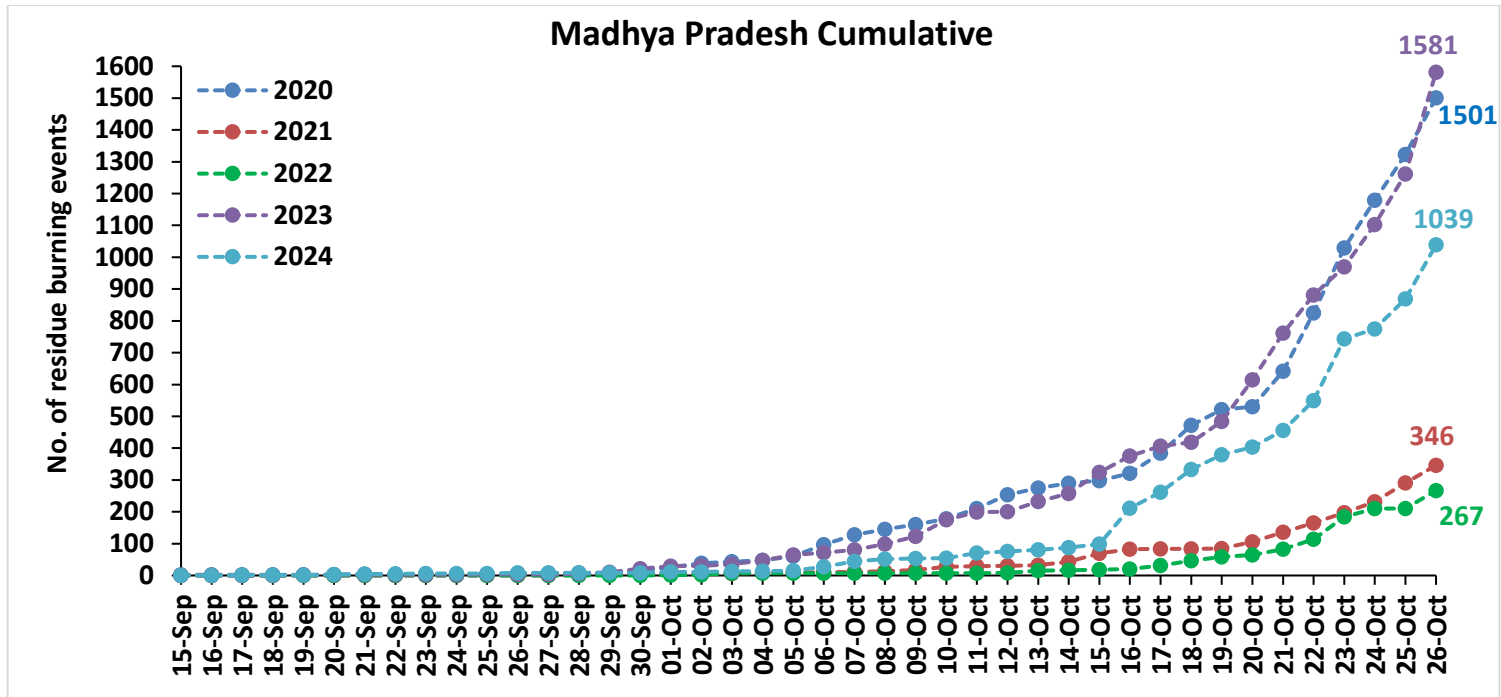
Delhi



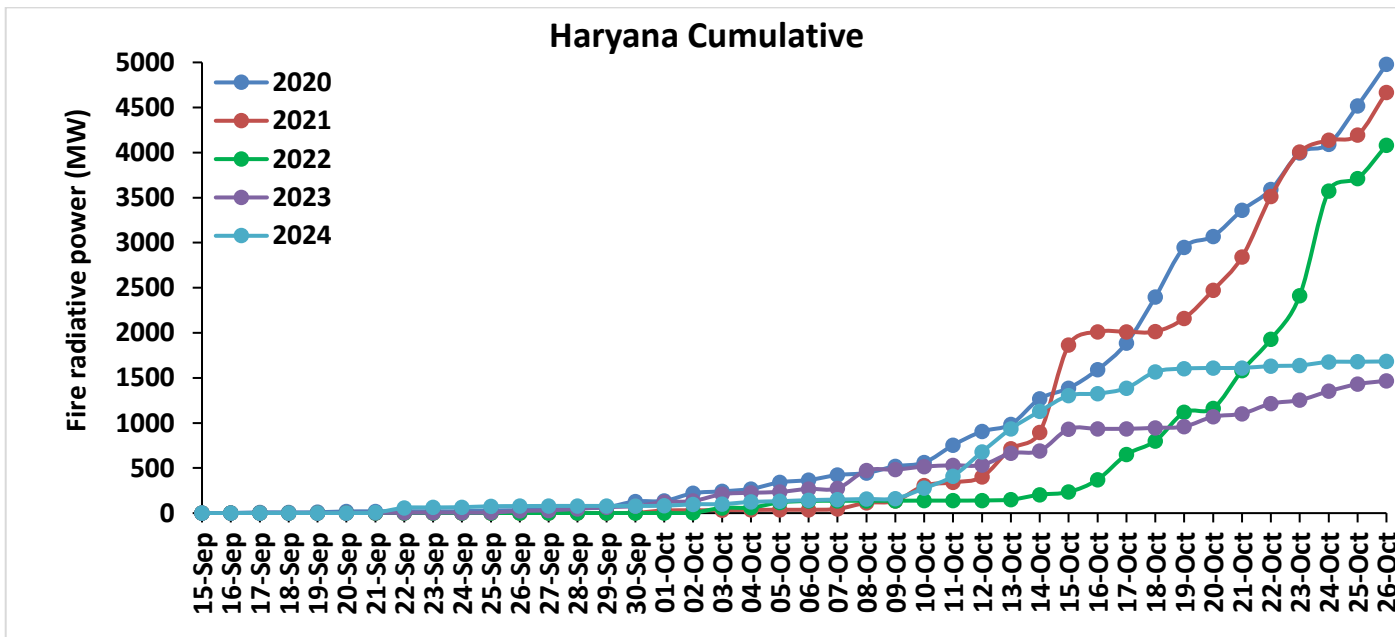
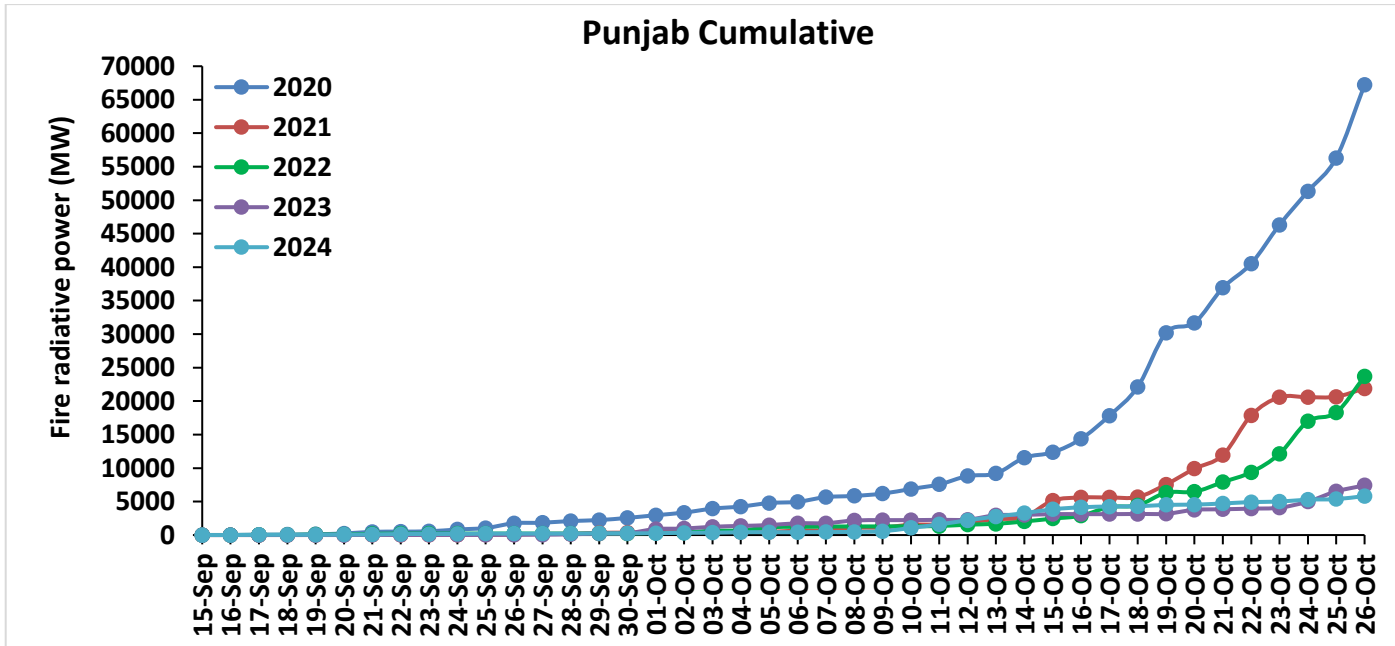
Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States



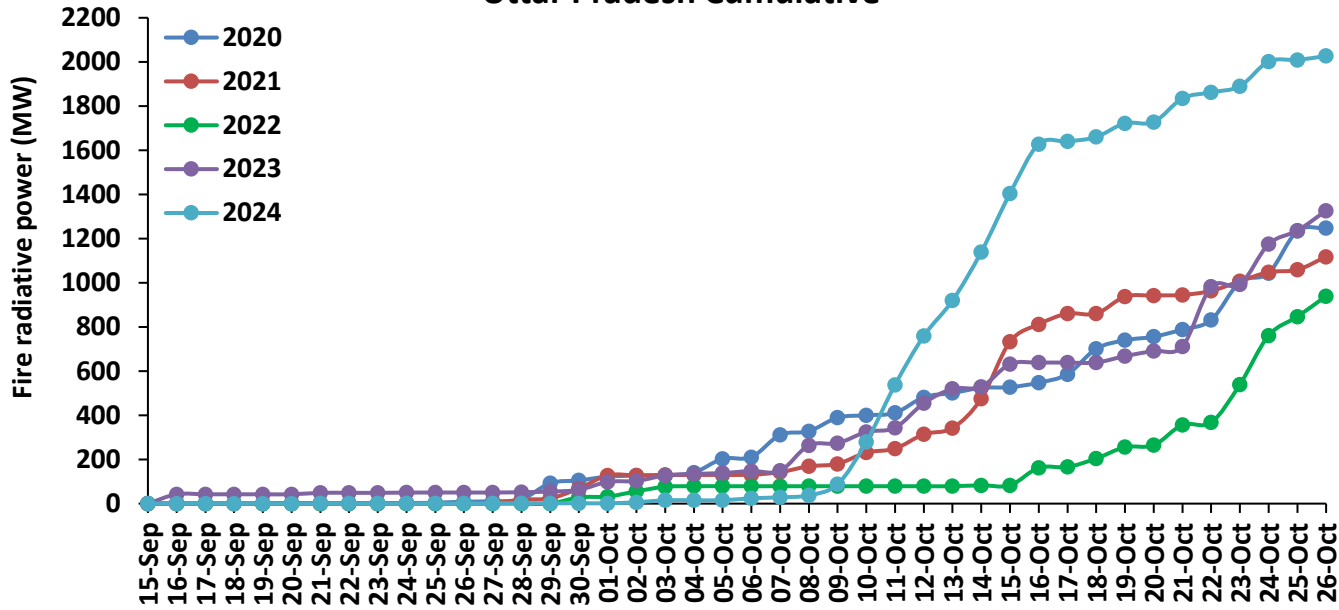




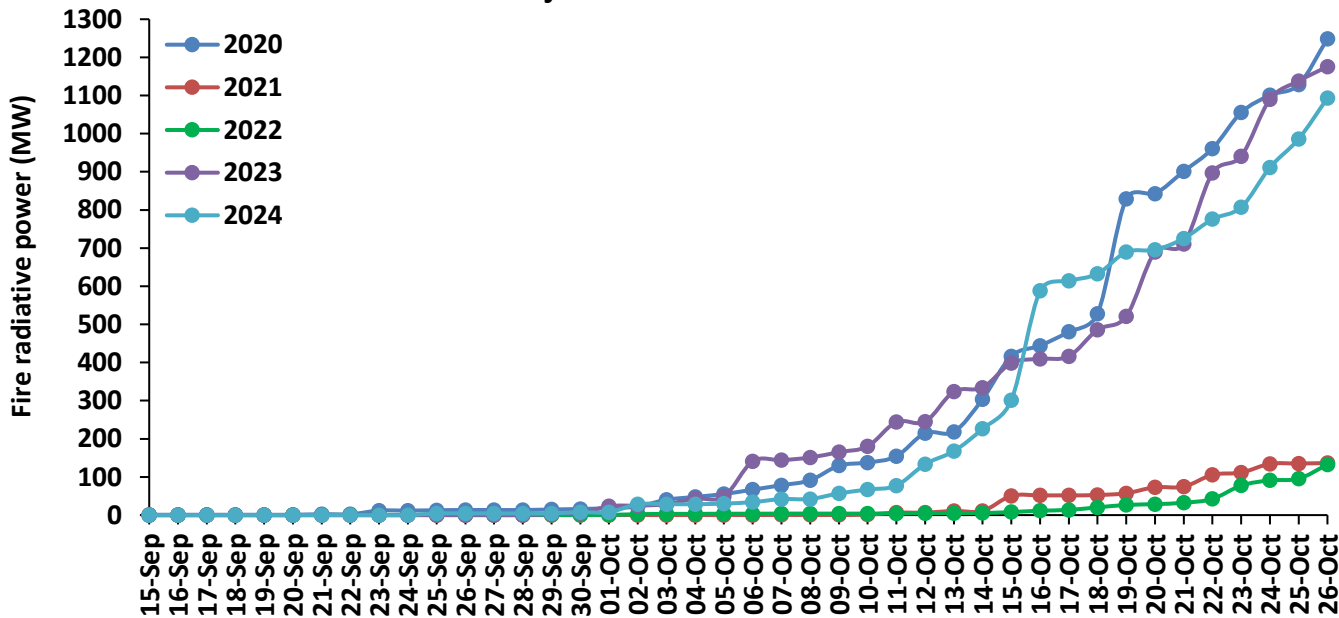
Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States



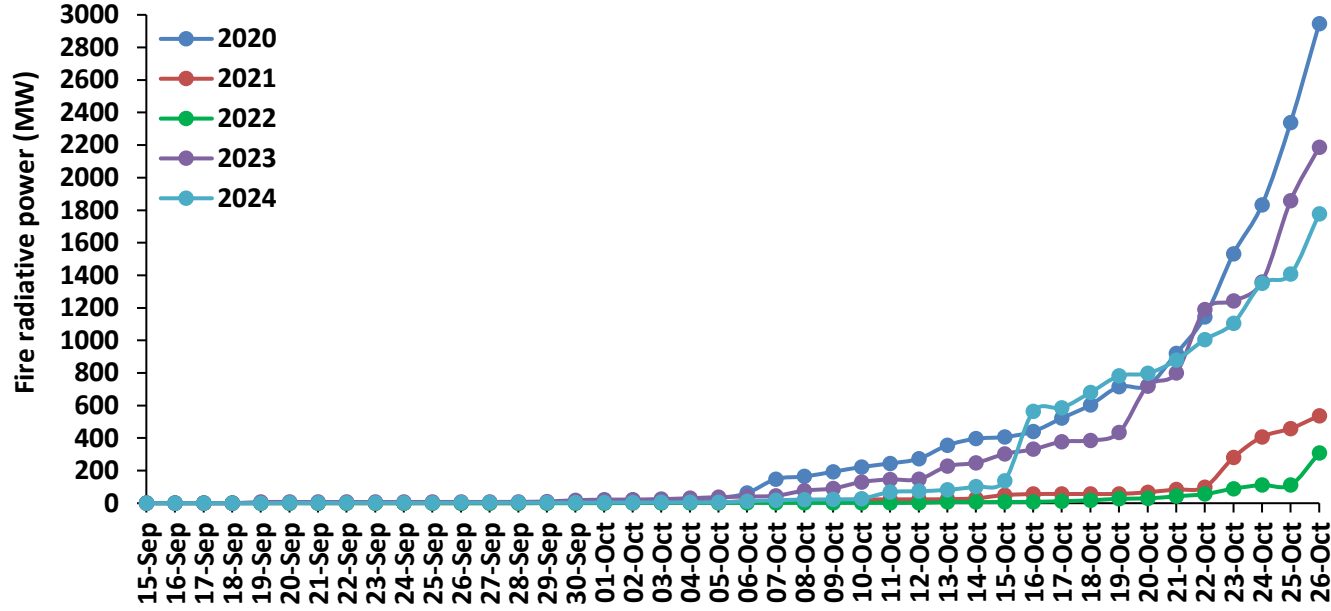
Uttar Pradesh Cumulative



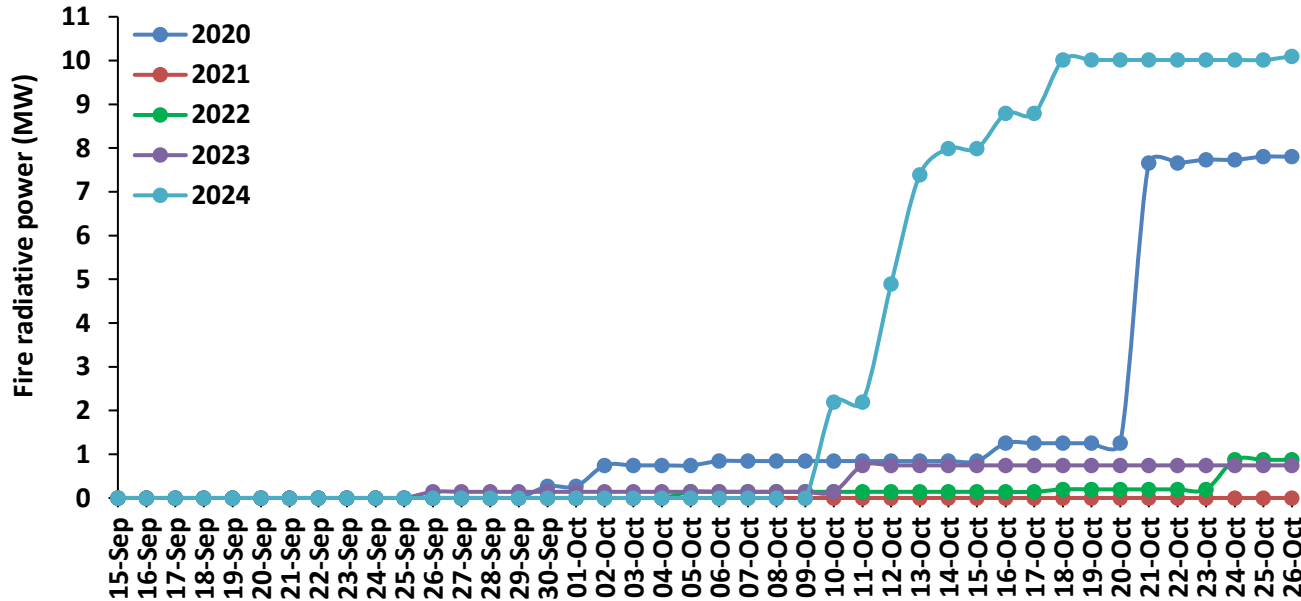
Rajasthan Cumulative



Madhya Pradesh Cumulative

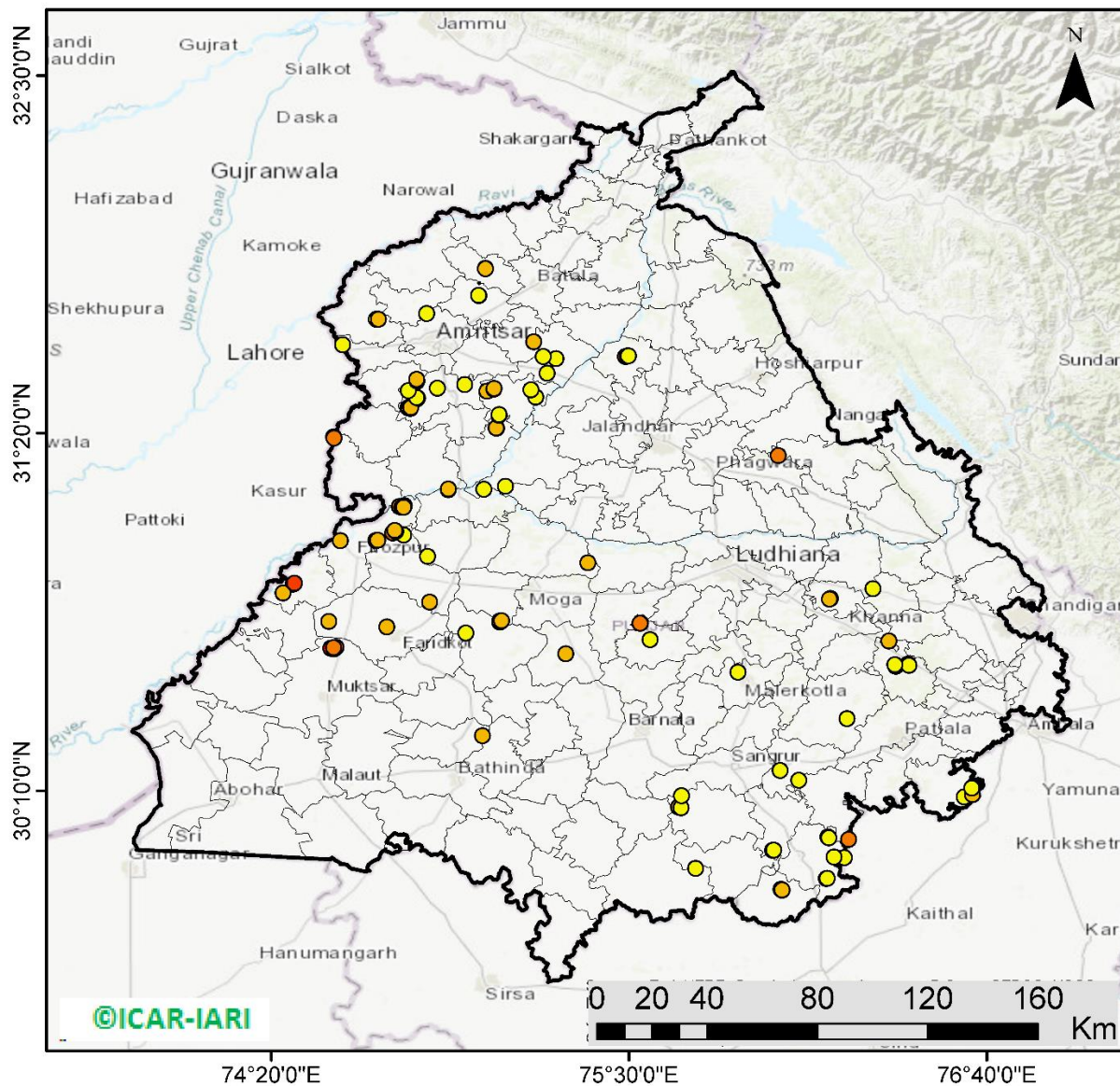


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



108 burning events detected in Punjab during (26th Oct 2024)

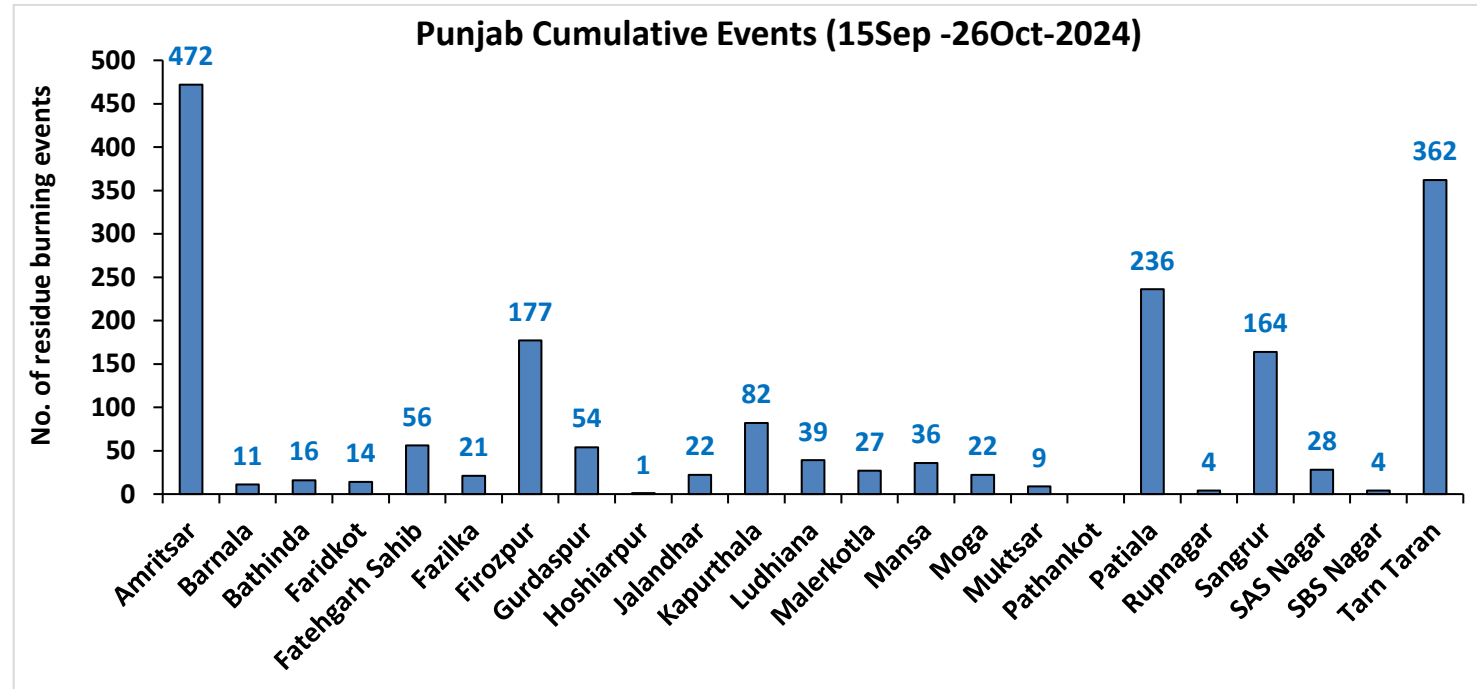
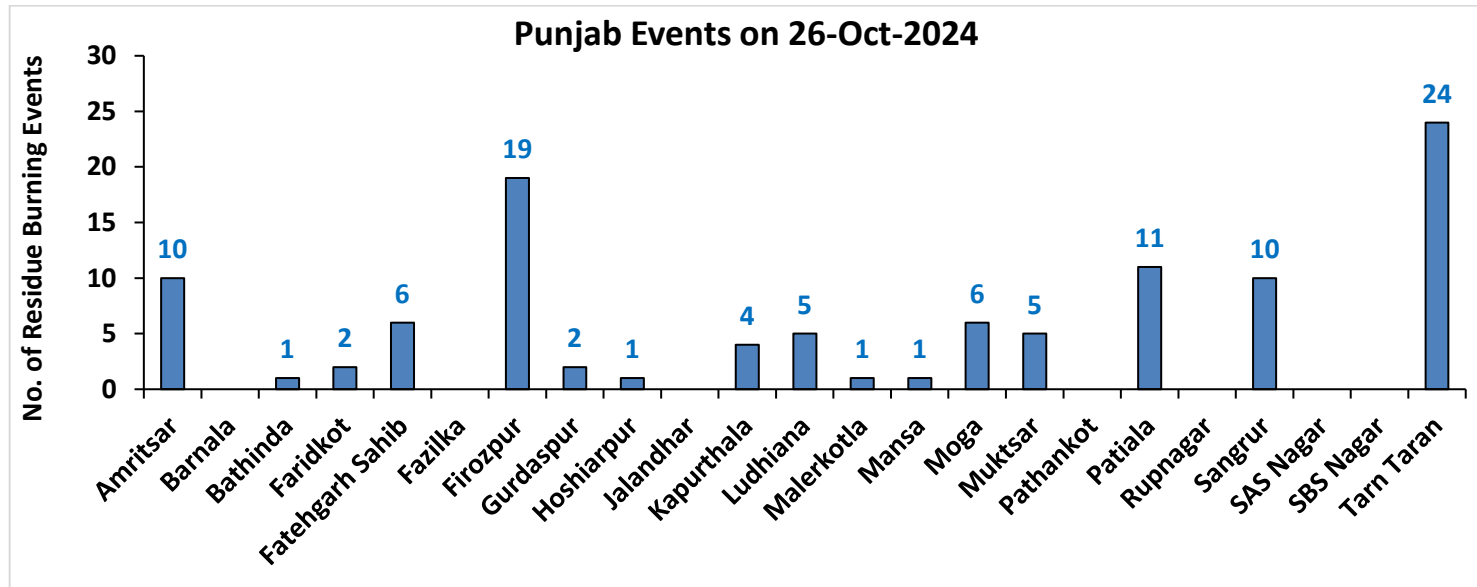
Fire Intensity (W/m²)

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



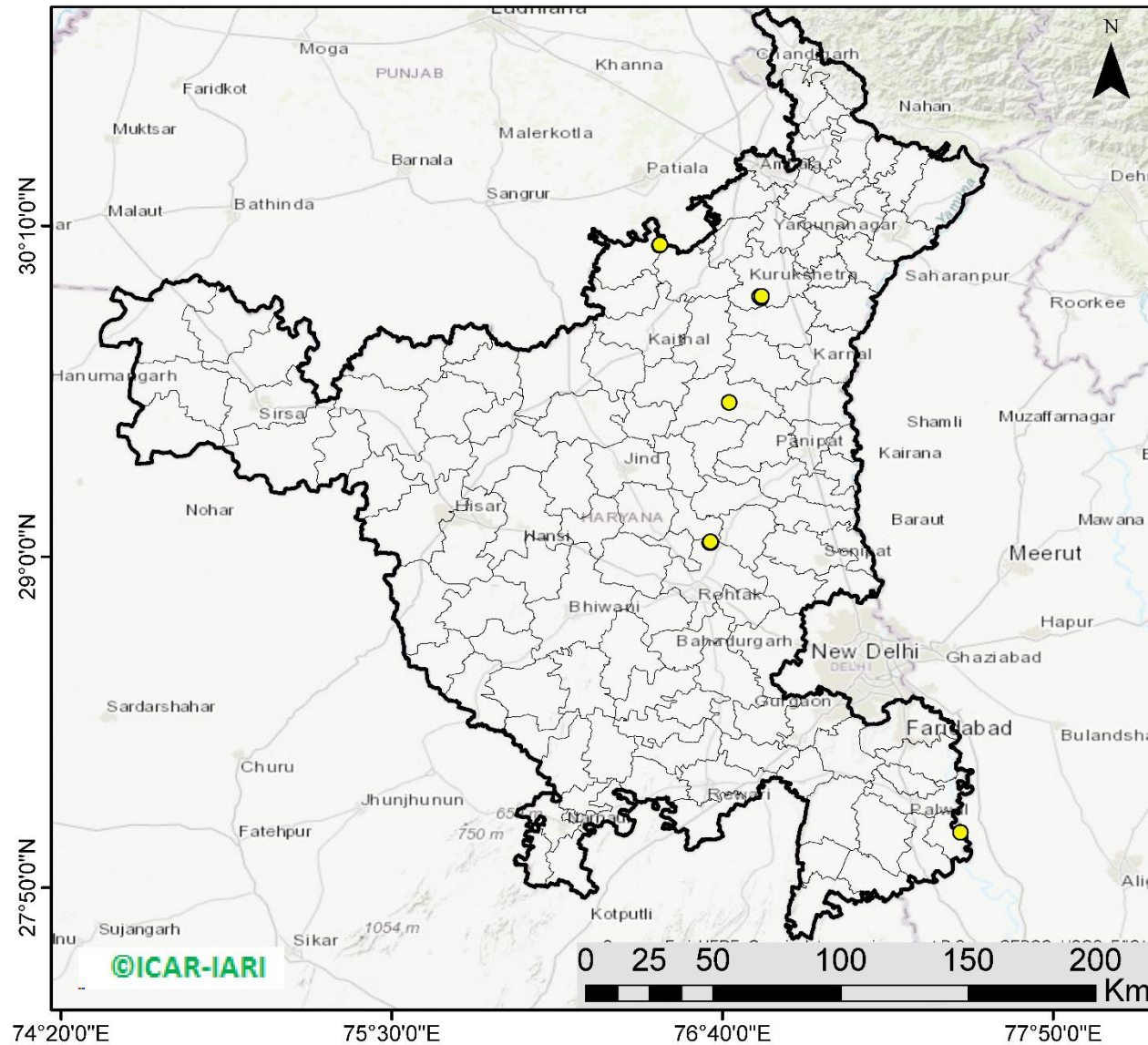
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Punjab (15Sep-26Oct-2024)



Haryana

RICE RESIDUE BURNING IN HARYANA



11 burning events detected in Haryana on (26th Oct 2024)

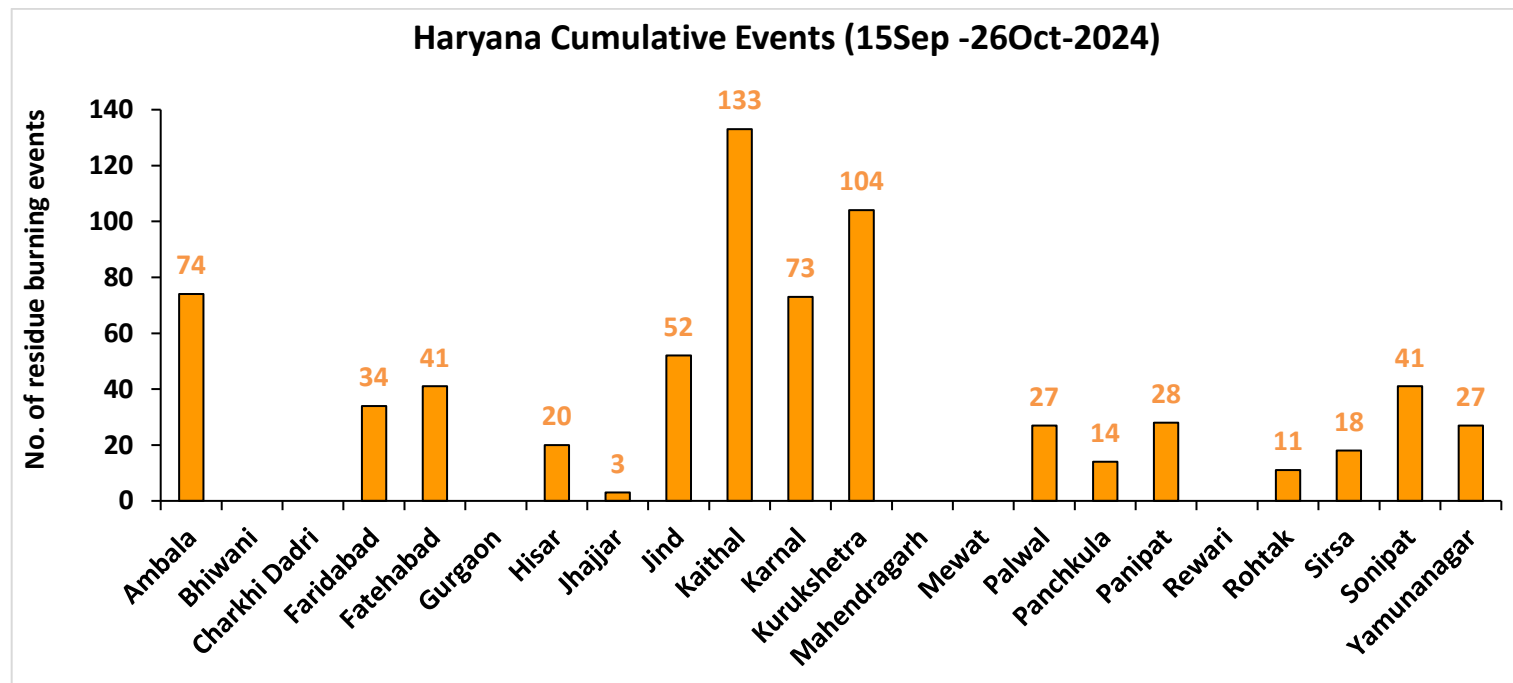
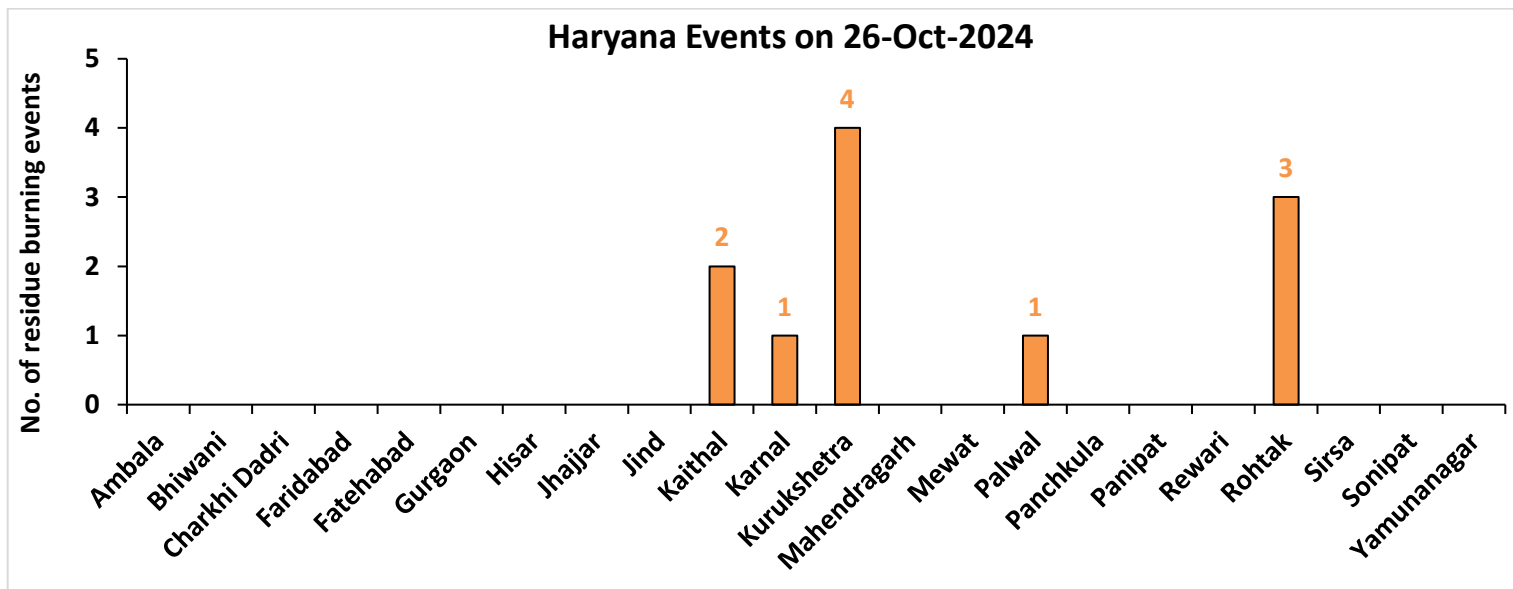
Fire Intensity (W/m²)

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



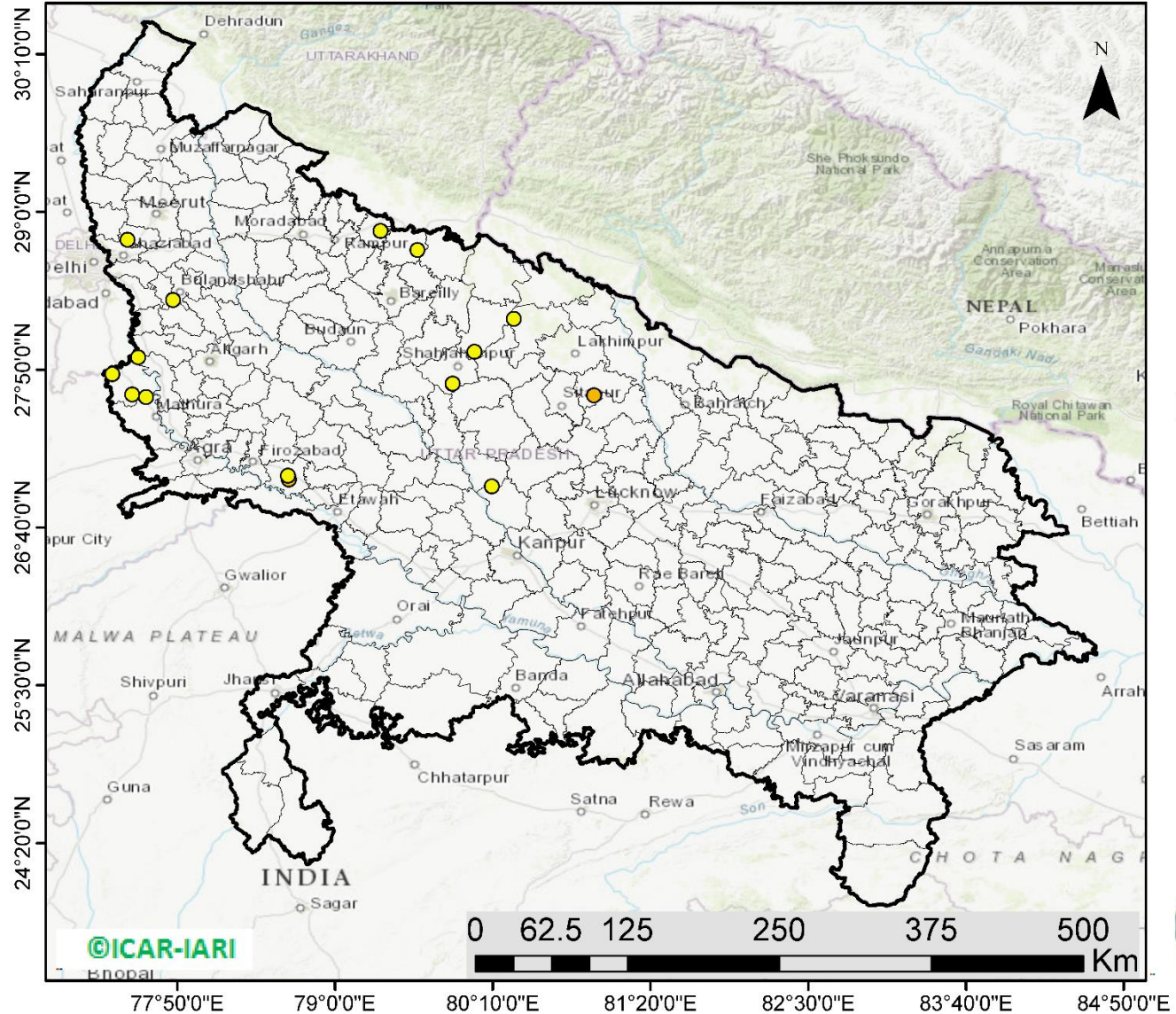
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Haryana (15Sep-26Oct-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



16 burning events detected in Uttar Pradesh on (26th Oct 2024)

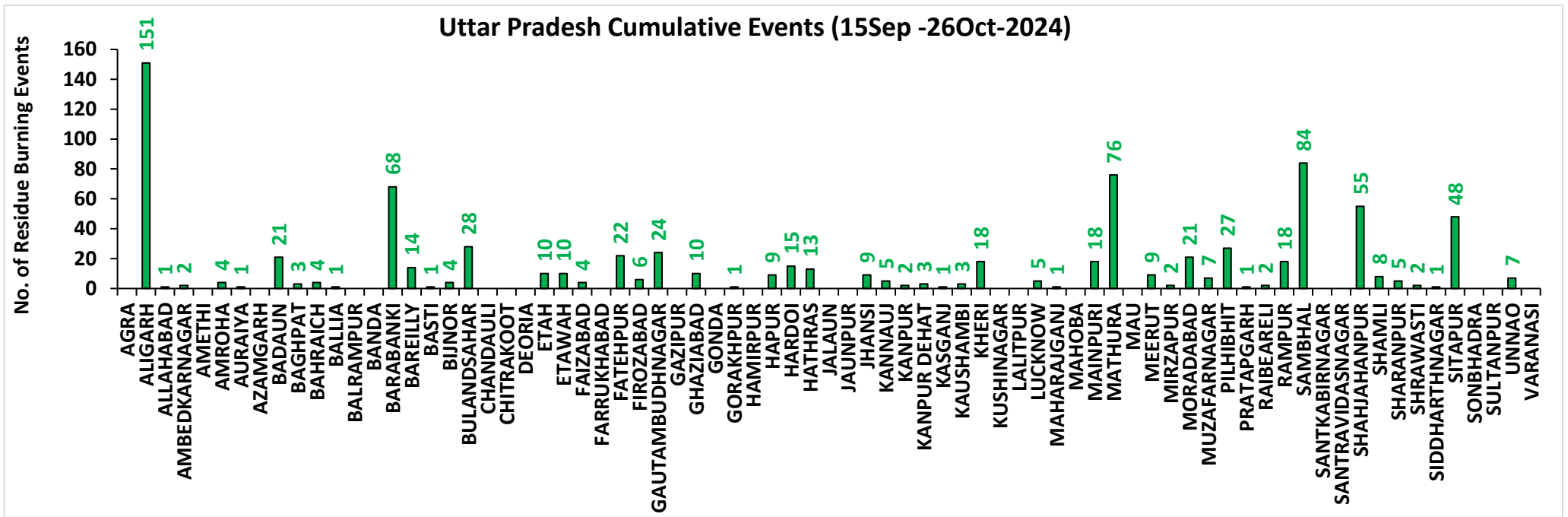
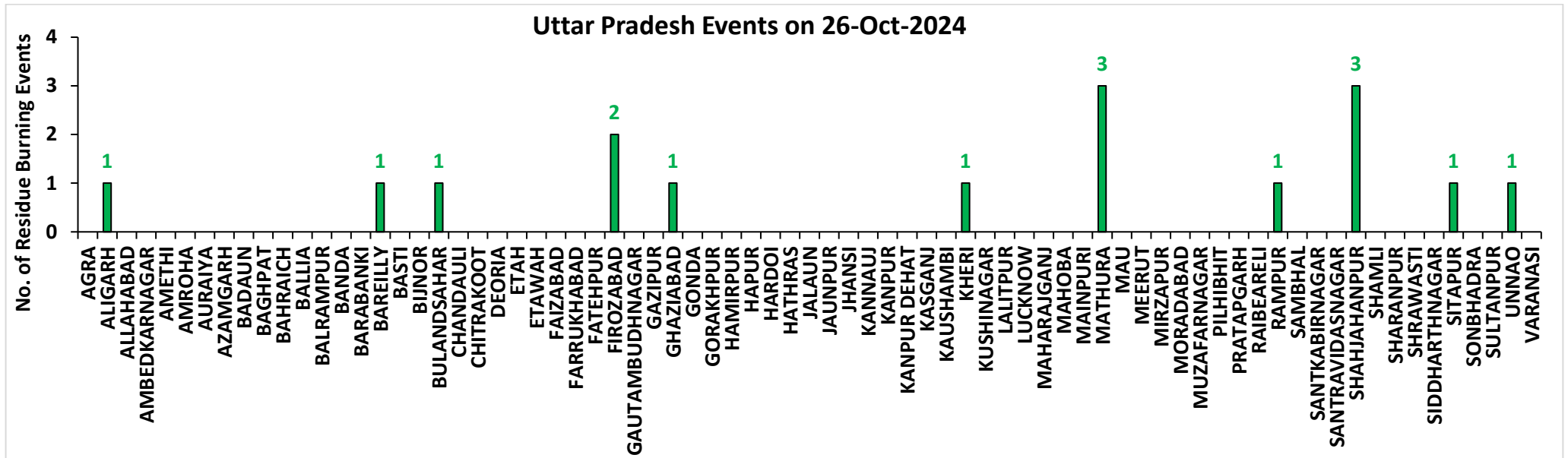
Fire Intensity (W/m²)

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



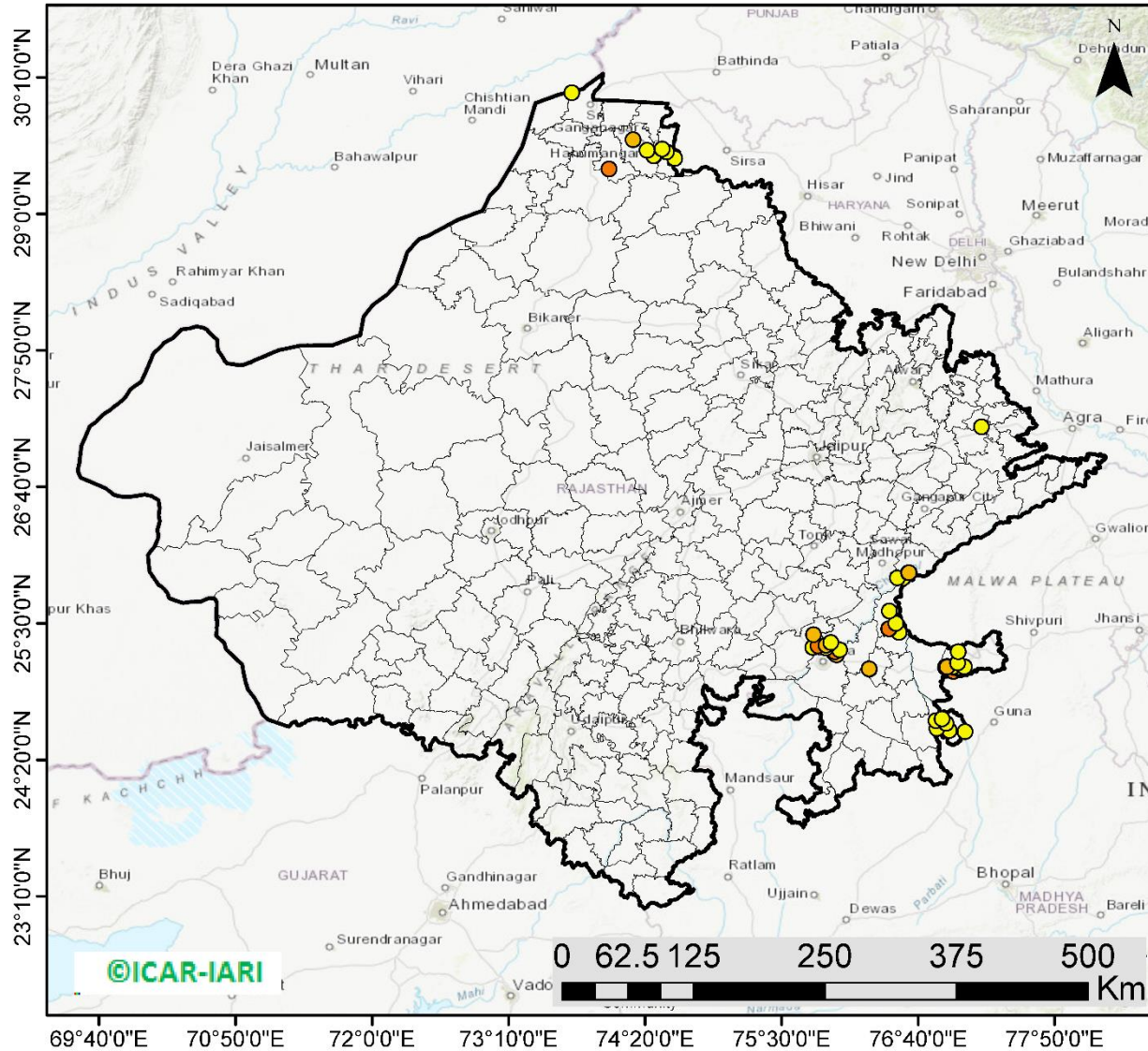
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-26Oct-2024)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



54 burning events
detected in Rajasthan on
(26th Oct 2024)

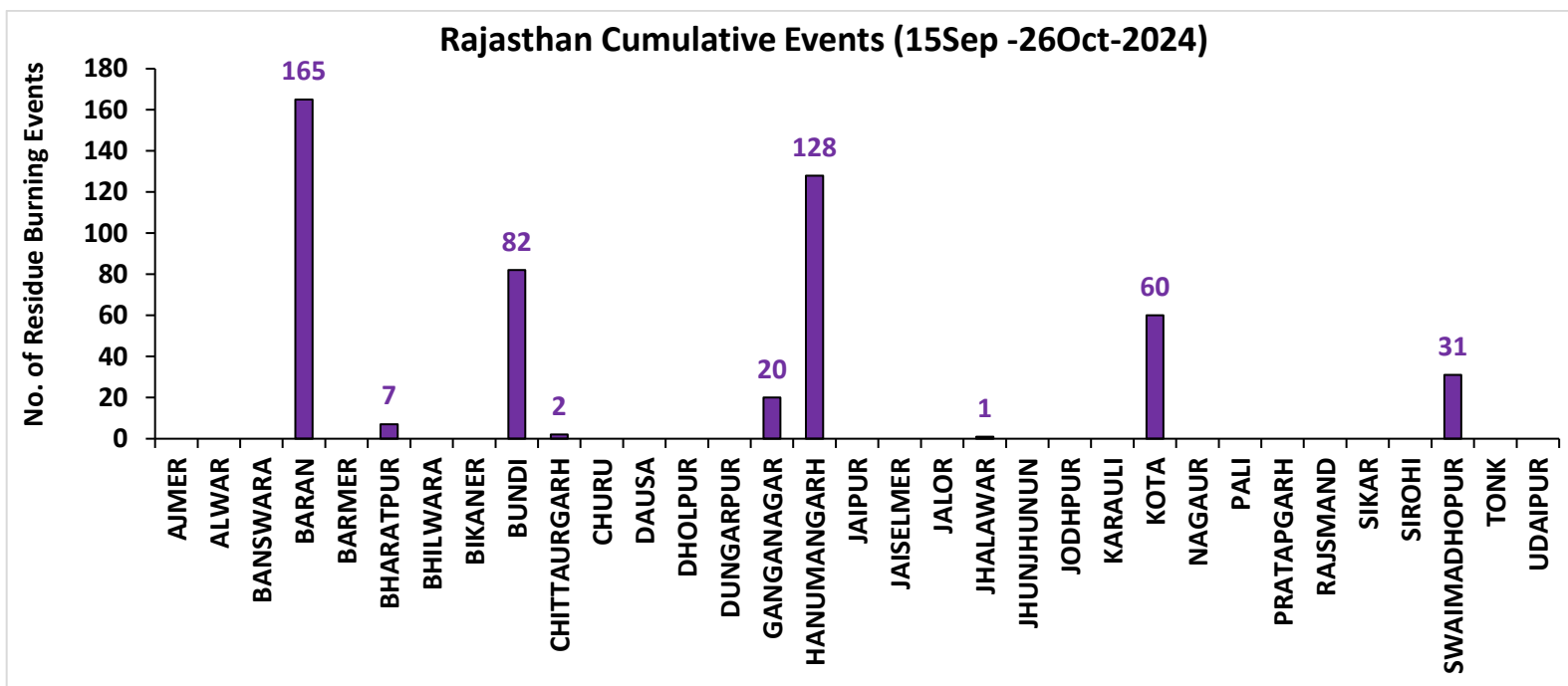
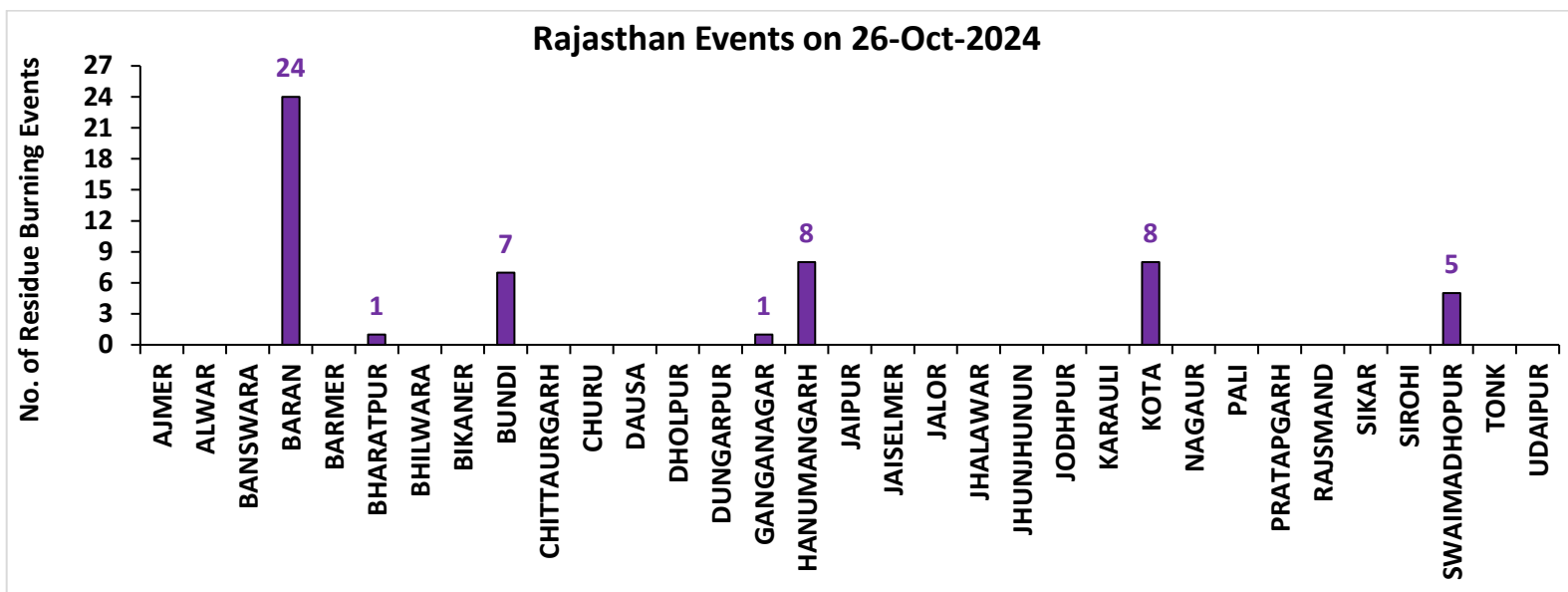
Fire Intensity (W/m²)

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



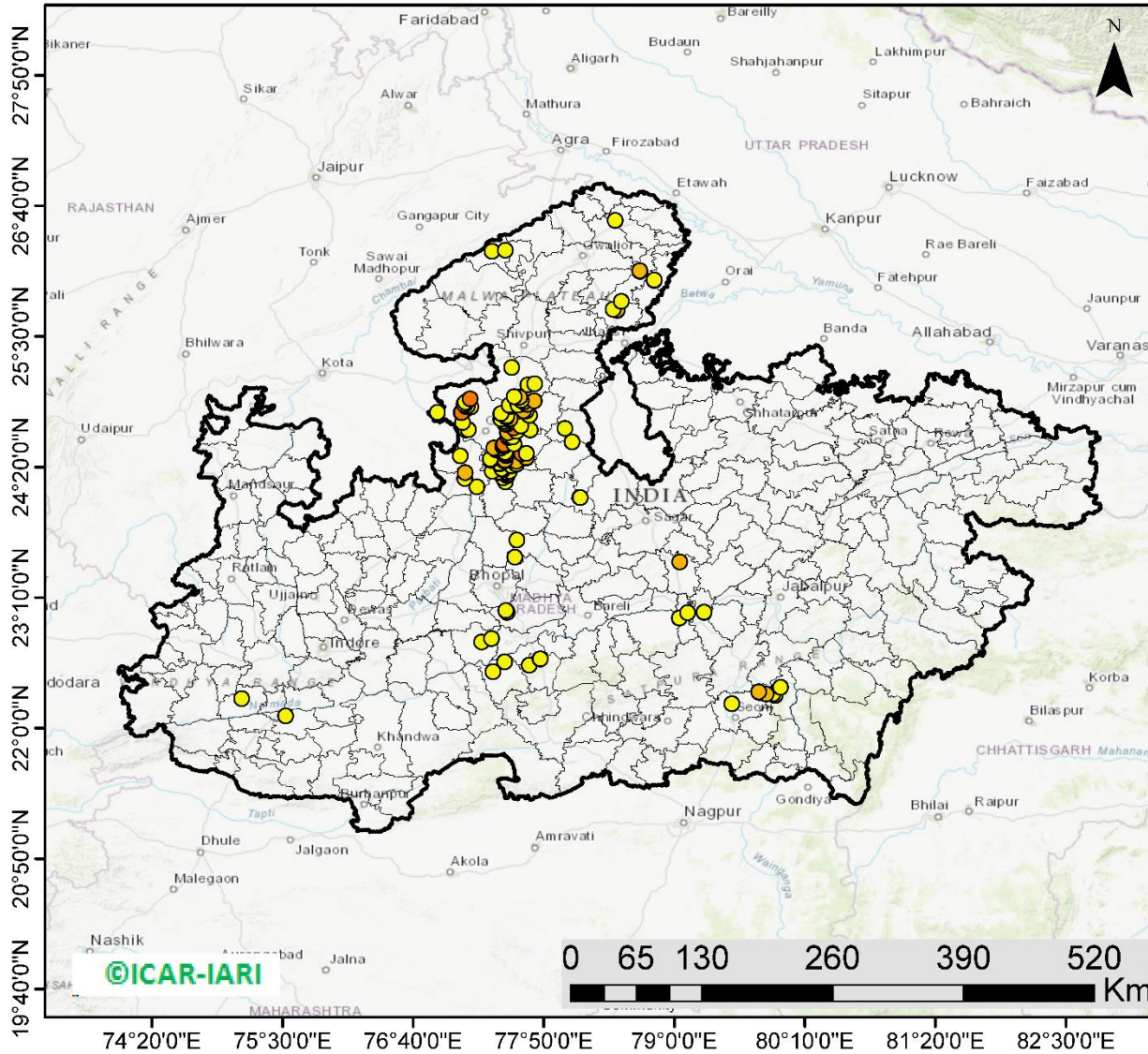
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Rajasthan (15Sep-26Oct-2024)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



170 burning events detected in MP on (26th Oct 2024)

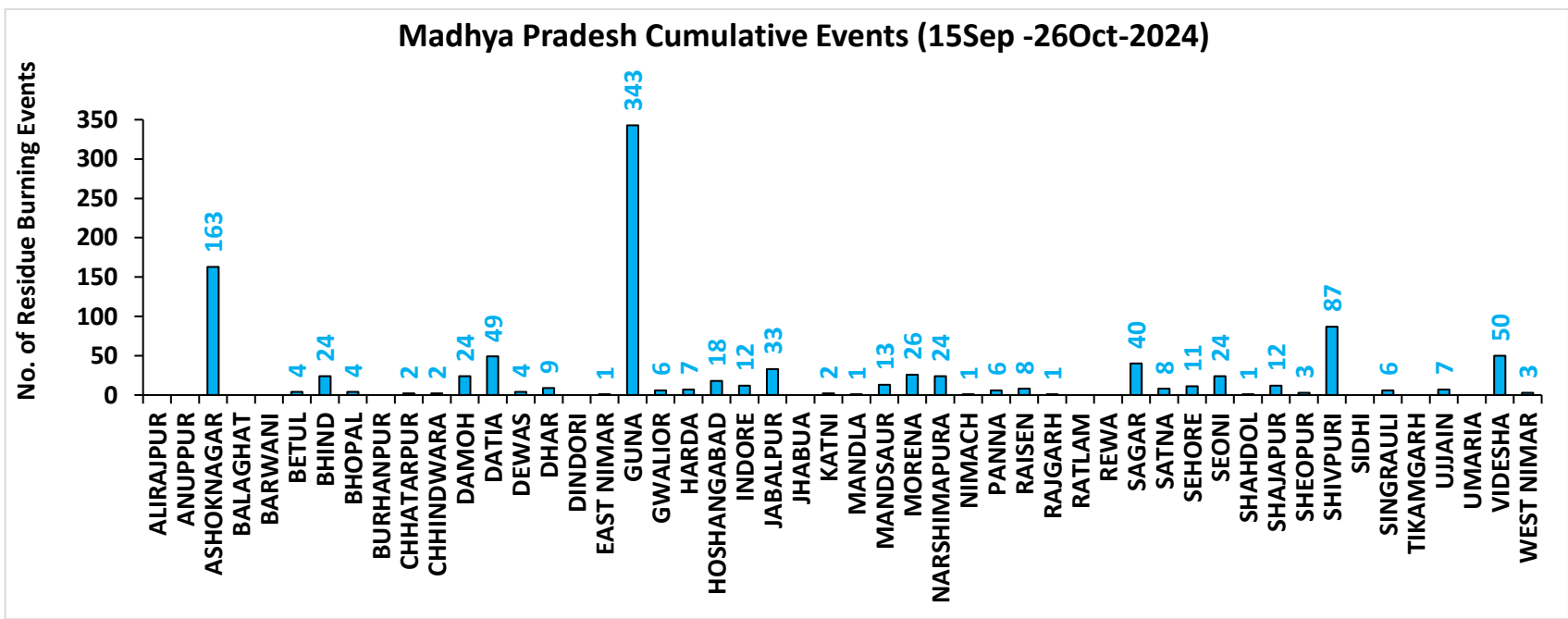
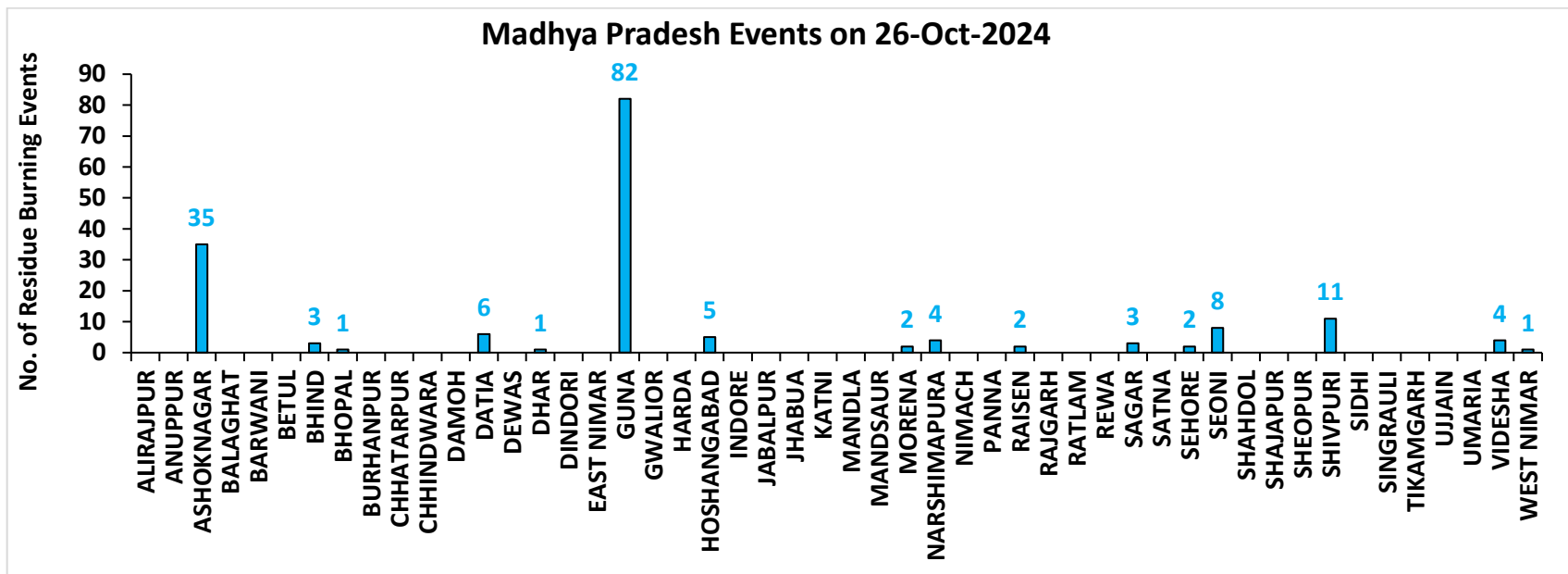
Fire Intensity (W/m²)

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



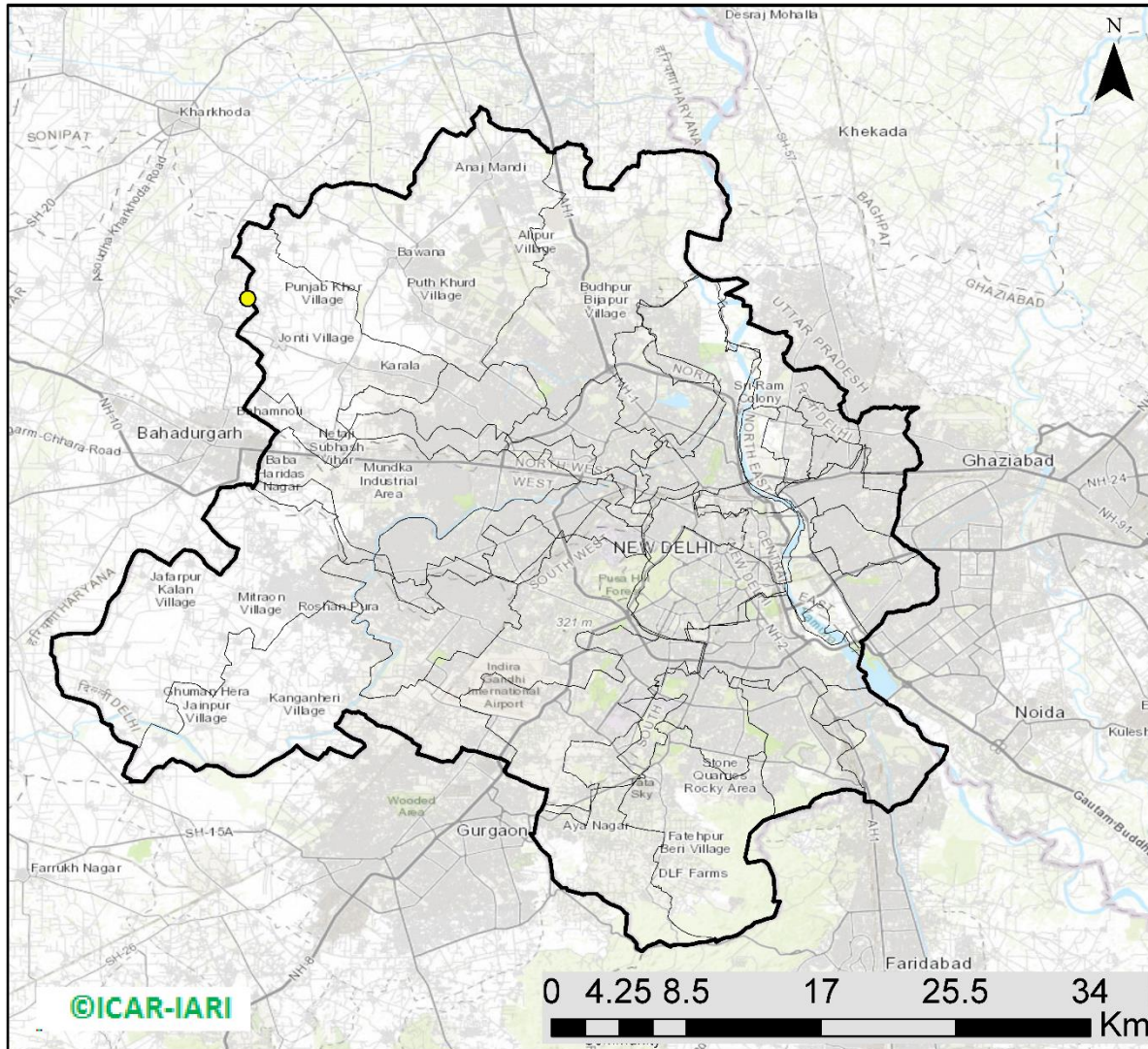
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-26Oct-2024)



Delhi

RICE RESIDUE BURNING IN DELHI



01 burning events detected in Delhi on (26th Oct 2024)

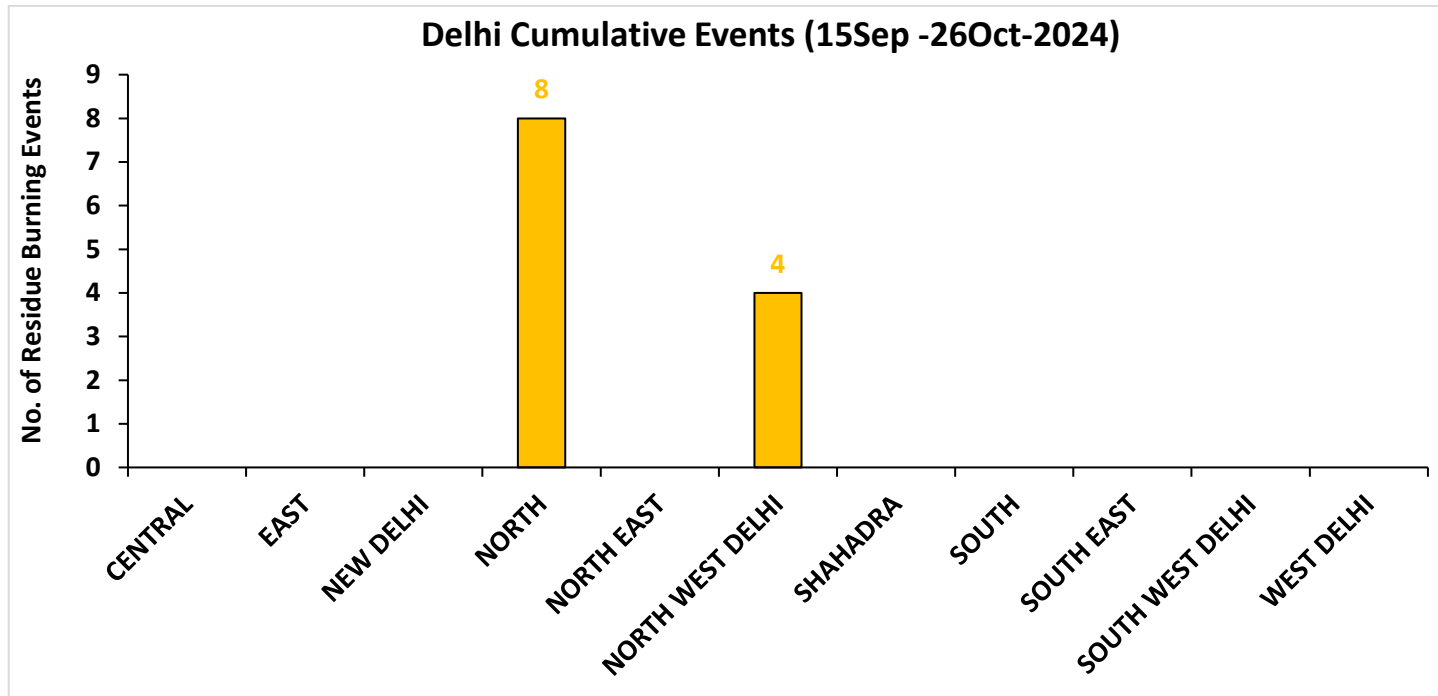
Fire Intensity (W/m²)

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



http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Delhi (15Sep-26Oct-2024)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024
(Period: 15 September-26 October)

(a) Punjab

District	15 Sep-26 Oct				
	2020	2021	2022	2023	2024
Amritsar	2432	956	1139	925	472
Barnala	143	51	75	24	11
Bathinda	275	97	144	28	16
Faridkot	963	357	67	53	14
Fatehgarh Sahib	600	286	279	146	56
Fazilka	281	91	75	29	21
Firozpur	2541	420	421	261	177
Gurdaspur	1449	394	623	66	54
Hoshiarpur	242	62	72	6	1
Jalandhar	452	275	340	77	22
Kapurthala	960	397	485	146	82
Ludhiana	519	399	300	134	39
Malerkotla	0	0	0	13	27
Mansa	211	41	75	142	36
Moga	382	166	167	91	22
Muktsar	415	129	52	13	9
Pathankot	7	0	0	1	0
Patiala	1695	570	671	406	236
Rupnagar	83	46	67	5	4
Sangrur	767	159	361	240	164
SAS NAGAR (Mohali)	90	55	54	92	28
SBS Nagar	38	34	9	9	4
Tarn Taran	3802	1478	1560	386	362
Total	18347	6463	7036	3293	1857

(b) Haryana

District	15 Sep-26 Oct				
	2020	2021	2022	2023	2024
AMBALA	239	106	104	125	74
BHIWANI	0	0	0	2	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	1	2	1	2	34
FATEHABAD	137	134	165	138	41
GURGAON	0	0	0	0	0
HISAR	10	8	25	60	20
JHAJJAR	1	0	0	5	3
JIND	57	95	127	115	52
KAITHAL	407	560	417	121	133
KARNAL	443	599	229	56	73
KURUKSHETRA	354	355	258	114	104
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	31	30	19	47	27
PANCHKULA	0	0	0	1	14
PANIPAT	13	23	24	20	28
REWARI	0	0	0	0	0
ROHTAK	2	0	0	9	11
SIRSA	37	20	30	16	18
SONIPAT	17	7	12	51	41
YAMUNANAGAR	100	71	84	56	27
Total	1849	2010	1495	938	700

(c) Uttar Pradesh

District	15 Sep-26 Oct																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	6	9	7	7	24	MUZAFARNAGAR	3	2	1	1	7
AGRA	2	0	0	2	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	10	113	83	74	27
ALIGARH	59	23	24	77	151	GHAZIABAD	5	2	2	12	10	PRATAPGARH	4	0	0	1	1
ALLAHABAD	0	1	2	2	1	GONDA	0	0	0	0	0	RAIBEARELI	1	0	2	1	2
AMBEDKARNAGAR	0	0	0	0	2	GORAKHPUR	1	0	0	0	1	RAMPUR	61	52	42	49	18
AMETHI	1	1	4	1	0	HAMIRPUR	1	0	0	0	0	SAMBHAL	7	7	6	13	84
AMROHA	2	0	0	2	4	HAPUR	7	1	1	0	9	SANTKABIRNAGAR	0	0	1	1	0
AURAIYA	19	9	7	11	1	HARDOI	20	6	7	16	15	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	13	SHAHJAHANPUR	53	185	187	32	55
BADAUN	2	6	0	2	21	JALAUN	1	0	0	0	0	SHAMLI	21	17	5	5	8
BAGHPAT	5	1	1	1	3	JAUNPUR	0	0	0	1	0	SHARANPUR	47	21	4	7	5
BAHRAICH	29	2	5	3	4	JHANSI	31	6	0	28	9	SHRAWASTI	10	1	0	2	2
BALLIA	0	0	0	0	1	KANNAUJ	8	2	0	1	5	SIDDHARTHANAGAR	0	0	0	0	1
BALRAMPUR	5	1	1	1	0	KANPUR	6	7	10	20	2	SITAPUR	21	11	5	4	48
BANDA	0	0	0	0	0	KANPUR DEHAT	15	1	0	16	3	SONBHADRA	0	0	0	0	0
BARABANKI	23	24	22	43	68	KASGANJ	2	2	0	2	1	SULTANPUR	1	0	0	0	0
BAREILLY	25	17	11	22	14	KAUSHAMBI	17	3	2	19	3	UNNAO	7	1	0	10	7
BASTI	3	1	0	1	1	KHERI	54	58	65	8	18	VARANASI	1	0	0	0	0
BIJNOR	8	5	2	6	4	KUSHINAGAR	0	0	0	0	0	Total	816	712	575	706	865
BULANDSAHAR	19	2	7	6	28	LALITPUR	0	1	3	2	0						
CHANDAULI	0	0	0	0	0	LUCKNOW	4	1	1	4	5						
CHITRAKOOT	0	1	2	3	0	MAHARAJGANJ	0	0	1	2	1						
DEORIA	1	0	0	2	0	MAHOBA	12	0	0	0	0						
ETAH	12	6	1	11	10	MAINPURI	15	8	11	18	18						
ETAWAH	10	8	6	36	10	MATHURA	65	59	10	80	76						
FAIZABAD	3	0	0	3	4	MAU	0	0	0	0	0						
FARRUKHABAD	1	0	0	1	0	MEERUT	16	4	4	3	9						
FATEHPUR	28	11	18	20	22	MIRZAPUR	6	5	2	0	2						
FIROZABAD	12	5	0	5	6	MORADABAD	8	3	0	4	21						

(d) Delhi

District	15 Sep-26 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
Total	8	0	5	2	12

(e) Rajasthan

District	15 Sep-26 Oct				
	2020	2021	2022	2023	2024
AJMER	2	0	0	0	0
ALWAR	2	0	0	0	0
BANSWARA	0	0	0	0	0
BARAN	109	0	15	238	165
BARMER	2	0	0	0	0
BHARATPUR	2	0	0	2	7
BHILWARA	4	0	0	0	0
BIKANER	1	0	0	0	0
BUNDI	28	3	44	117	82
CHITTAURGARH	0	2	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	7	2	6	15	20
HANUMANGARH	242	51	24	69	128
JAIPUR	2	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	1	0	2	8	1
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	1	0	0	0	0
KOTA	52	3	25	118	60
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	16	0	5	41	31
TONK	3	0	0	0	0
UDAIPUR	0	0	0	0	0
Total	486	61	123	616	496

(f) Madhya Pradesh

District	15 Sep-26 Oct										
	2020	2021	2022	2023	2024	PANNA	10	1	0	1	6
ALIRAJPUR	0	0	0	0	0	RAISEN	89	5	9	37	8
ANUPPUR	0	0	0	0	0	RAJGARH	7	1	3	9	1
ASHOKNAGAR	52	1	8	94	163	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	19	1	1	1	0
BARWANI	0	0	0	0	0	SAGAR	21	17	14	39	40
BETUL	4	1	1	4	4	SATNA	45	11	2	12	8
BHIND	21	1	7	34	24	SEHORE	31	12	29	37	11
BHOPAL	15	5	3	17	4	SEONI	159	121	35	89	24
BURHANPUR	0	0	0	3	0	SHAHDOL	0	0	0	1	1
CHHATARPUR	4	0	0	3	2	SHAJAPUR	5	0	0	8	12
CHHINDWARA	18	12	5	15	2	SHEOPUR	67	2	7	224	3
DAMOH	41	16	13	23	24	SHIVPURI	32	0	9	46	87
DATIA	159	8	12	171	49	SIDHI	0	0	0	0	0
DEWAS	3	0	0	8	4	SINGRAULI	0	0	1	0	6
DHAR	23	0	0	27	9	TIKAMGARH	1	0	0	3	0
DINDORI	0	0	0	1	0	UJJAIN	5	0	0	14	7
EAST NIMAR	11	5	4	4	1	UMARIA	0	0	0	0	0
GUNA	33	2	15	254	343	VIDESHA	77	14	18	57	50
GWALIOR	175	4	4	40	6	WEST NIMAR	21	1	1	13	3
HARDA	10	18	6	25	7	Total	1501	346	267	1581	1039
HOSHANGABAD	207	49	35	146	18						
INDORE	2	0	0	12	12						
JABALPUR	45	13	9	40	33						
JHABUA	0	0	0	0	0						
KATNI	22	1	0	5	2						
MANDLA	6	6	0	3	1						
MANDSAUR	3	0	0	2	13						
MORENA	32	5	3	34	26						
NARSHIMAPURA	26	13	13	24	24						
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-26 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

13-Oct	266	132	120	154	162	47	91	15	29	90	36	42	0	19	76
14-Oct	605	229	82	89	97	69	98	30	41	49	9	68	5	18	52
15-Oct	449	660	169	69	144	106	363	36	127	42	15	149	0	35	78
16-Oct	654	429	206	0	99	80	176	76	4	14	21	121	6	14	59
17-Oct	1172	14	403	1	77	143	0	86	0	28	38	39	7	0	23
18-Oct	938	57	342	18	59	166	1	134	8	26	76	0	30	2	47
19-Oct	1080	496	436	37	45	72	55	122	16	15	43	5	36	11	30
20-Oct	890	788	96	174	52	62	155	78	51	11	31	1	17	25	11
21-Oct	1392	597	393	146	65	101	131	107	68	2	25	5	23	59	25
22-Oct	1665	1111	582	30	71	128	140	122	25	10	32	3	18	117	17
23-Oct	1438	620	902	152	57	106	218	217	29	15	84	8	109	20	68
24-Oct	911	0	1019	360	40	57	38	250	70	6	63	11	212	38	18
25-Oct	1416	76	181	398	71	155	71	12	58	3	50	18	9	30	23
26-Oct	2126	329	1238	589	108	77	175	123	67	11	33	41	23	78	16
Total	18347	6463	7036	3293	1857	1849	2010	1495	938	700	816	712	575	706	865

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
Total	8	0	5	2	12	486	61	123	616	496	1501	346	267	1581	1039

Details of residue burning events in Punjab on 26-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	ATTARI	S-NPP	31.62180	74.56702	14:05:40	D	3.90
2	AMRITSAR	CHOGAWAN	S-NPP	31.70436	74.67677	14:05:40	D	4.70
3	AMRITSAR	CHOGAWAN	S-NPP	31.70488	74.68302	14:05:40	D	6.20
4	AMRITSAR	HARSHA CHHINA	S-NPP	31.72300	74.84073	14:05:40	D	3.20
5	AMRITSAR	MAJITHA	S-NPP	31.78222	75.01098	14:05:40	D	4.30
6	AMRITSAR	MAJITHA	S-NPP	31.78248	75.00986	14:05:40	D	3.10
7	AMRITSAR	RAYYA	S-NPP	31.52849	75.23341	14:05:40	D	2.80
8	AMRITSAR	RAYYA	S-NPP	31.57656	75.26235	14:05:40	D	2.70
9	AMRITSAR	RAYYA	S-NPP	31.58329	75.22095	14:05:40	D	4.30
10	AMRITSAR	TARSIKKA	S-NPP	31.63083	75.18938	14:05:40	D	5.70
11	BATHINDA	GONIANA MANDI	S-NPP	30.34660	75.02231	12:25:22	D	5.50
12	FARIDKOT	FARIDKOT	S-NPP	30.70131	74.71062	14:05:40	D	6.00
13	FARIDKOT	FARIDKOT	S-NPP	30.71906	74.52132	14:05:40	D	5.40
14	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.65477	76.34784	12:25:22	D	6.10
15	FATEHGARH SAHIB	KHAMANON	S-NPP	30.82583	76.29567	14:05:40	D	3.70
16	FATEHGARH SAHIB	SIRHIND	AQUA	30.57300	76.37000	14:06:19	D	8.60
17	FATEHGARH SAHIB	SIRHIND	AQUA	30.58000	76.41000	14:06:19	D	9.20
18	FATEHGARH SAHIB	SIRHIND	S-NPP	30.57579	76.41283	14:05:40	D	2.80
19	FATEHGARH SAHIB	SIRHIND	S-NPP	30.57767	76.36650	14:05:40	D	3.70
20	FIROZPUR	FIROZPUR	AQUA	31.00800	74.73000	14:06:19	D	11.60
21	FIROZPUR	FIROZPUR	AQUA	31.09400	74.75200	14:06:19	D	14.00
22	FIROZPUR	FIROZPUR	AQUA	31.09700	74.76800	14:06:19	D	11.00
23	FIROZPUR	FIROZPUR	S-NPP	30.98255	74.55913	14:05:40	D	5.70
24	FIROZPUR	FIROZPUR	S-NPP	30.98307	74.67495	14:05:40	D	5.70
25	FIROZPUR	FIROZPUR	S-NPP	31.01323	74.73956	14:05:40	D	5.30
26	FIROZPUR	FIROZPUR	S-NPP	31.01564	74.73700	14:05:40	D	8.30
27	FIROZPUR	FIROZPUR	S-NPP	31.09115	74.75978	14:05:40	D	8.80
28	FIROZPUR	FIROZPUR	S-NPP	31.09168	74.76597	14:05:40	D	8.80
29	FIROZPUR	GHALL KHURD	S-NPP	30.78178	74.85012	14:05:40	D	6.50
30	FIROZPUR	GHALL KHURD	S-NPP	30.98360	74.68105	14:05:40	D	7.70
31	FIROZPUR	GHALL KHURD	S-NPP	31.00082	74.76579	14:05:40	D	4.90

32	FIROZPUR	MAKHU	S-NPP	31.14879	74.91139	14:05:40	D	4.60
33	FIROZPUR	MAKHU	S-NPP	31.15011	75.02721	14:05:40	D	3.00
34	FIROZPUR	MAKHU	S-NPP	31.15070	74.91112	14:05:40	D	9.80
35	FIROZPUR	MAMDOT	AQUA	30.84100	74.40600	14:06:19	D	30.90
36	FIROZPUR	MAMDOT	S-NPP	30.81160	74.37209	14:05:40	D	6.10
37	FIROZPUR	MAMDOT	S-NPP	30.84367	74.40955	14:05:40	D	16.30
38	FIROZPUR	ZIRA	S-NPP	30.93111	74.84393	14:05:40	D	3.30
39	GURDASPUR	FATEHGARH CHURIAN	AQUA	31.87100	75.03200	14:06:19	D	15.80
40	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.86942	75.03193	14:05:40	D	10.00
41	HOSHIARPUR	GARH SHANKAR	S-NPP	31.26006	75.98663	14:05:40	D	11.70
42	KAPURTHALA	NADALA	AQUA	31.58300	75.48900	14:06:19	D	11.50
43	KAPURTHALA	NADALA	S-NPP	31.58520	75.49514	14:05:40	D	4.20
44	KAPURTHALA	NADALA	S-NPP	31.58548	75.49863	14:05:40	D	4.20
45	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.16004	75.09782	14:05:40	D	4.50
46	LUDHIANA	RAIKOT	AQUA	30.71400	75.53800	14:06:19	D	10.60
47	LUDHIANA	RAIKOT	S-NPP	30.65937	75.56907	14:05:40	D	2.60
48	LUDHIANA	RAIKOT	S-NPP	30.71314	75.53606	14:05:40	D	13.40
49	LUDHIANA	SAMRALA	AQUA	30.79400	76.15700	14:06:19	D	12.10
50	LUDHIANA	SAMRALA	S-NPP	30.79198	76.15377	12:25:22	D	8.00
51	MALERKOTLA	MALERKOTLA	S-NPP	30.55361	75.85542	14:05:40	D	2.50
52	MANSA	BUDHLADA	S-NPP	29.91362	75.71726	14:05:40	D	2.10
53	MOGA	BAGHA PURANA	S-NPP	30.68092	74.96806	14:05:40	D	4.80
54	MOGA	BAGHA PURANA	S-NPP	30.71669	75.07924	14:05:40	D	11.00
55	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.91059	75.36652	14:05:40	D	6.80
56	MOGA	MOGA 2	S-NPP	30.72029	75.07870	14:05:40	D	6.00
57	MOGA	MOGA 2	S-NPP	30.72085	75.08508	14:05:40	D	8.10
58	MOGA	NIHAL SINGH	S-NPP	30.61316	75.29436	14:05:40	D	6.90
59	MUKTSAR	MUKTSAR	AQUA	30.63100	74.52800	14:06:19	D	46.00
60	MUKTSAR	MUKTSAR	AQUA	30.63200	74.53400	14:06:19	D	62.30
61	MUKTSAR	MUKTSAR	AQUA	30.63500	74.54500	14:06:19	D	18.90
62	MUKTSAR	MUKTSAR	S-NPP	30.62876	74.53794	14:05:40	D	14.00
63	MUKTSAR	MUKTSAR	S-NPP	30.63354	74.53741	14:05:40	D	14.00
64	PATIALA	BHUNARHERI	S-NPP	30.14646	76.59334	14:05:40	D	1.70
65	PATIALA	BHUNARHERI	S-NPP	30.15385	76.61997	14:05:40	D	5.50
66	PATIALA	BHUNARHERI	S-NPP	30.17542	76.61796	14:05:40	D	2.50

67	PATIALA	NABHA	S-NPP	30.40214	76.21066	14:05:40	D	2.10
68	PATIALA	PATRAN	AQUA	30.01600	76.14900	14:06:19	D	9.60
69	PATIALA	PATRAN	S-NPP	29.88032	76.14315	14:05:40	D	2.50
70	PATIALA	PATRAN	S-NPP	29.88060	76.14675	14:05:40	D	2.50
71	PATIALA	PATRAN	S-NPP	29.94824	76.20201	14:05:40	D	2.50
72	PATIALA	PATRAN	S-NPP	29.95086	76.16891	14:05:40	D	3.50
73	PATIALA	PATRAN	S-NPP	30.01301	76.15131	14:05:40	D	3.60
74	PATIALA	SAMANA	AQUA	30.00800	76.21600	14:06:19	D	12.30
75	SANGRUR	ANDANA	AQUA	29.84500	75.99600	14:06:19	D	12.30
76	SANGRUR	ANDANA	S-NPP	29.84223	75.99950	14:05:40	D	4.60
77	SANGRUR	ANDANA	S-NPP	29.84314	75.99977	14:05:40	D	5.30
78	SANGRUR	BHAWANIGARH	S-NPP	30.20072	76.05398	14:05:40	D	3.20
79	SANGRUR	BHAWANIGARH	S-NPP	30.23265	75.99309	14:05:40	D	2.40
80	SANGRUR	DIRBA	AQUA	29.97200	75.96800	14:06:19	D	9.40
81	SANGRUR	DIRBA	S-NPP	29.97280	75.97172	14:05:40	D	4.00
82	SANGRUR	SANGRUR	S-NPP	30.15016	75.67166	14:05:40	D	2.40
83	SANGRUR	SUNAM	AQUA	30.11300	75.66200	14:06:19	D	9.20
84	SANGRUR	SUNAM	S-NPP	30.11086	75.67012	14:05:40	D	2.80
85	TARN TARAN	CHOHLA SAHIB	S-NPP	31.34907	75.06895	14:05:40	D	6.60
86	TARN TARAN	CHOHLA SAHIB	S-NPP	31.34950	75.06748	14:05:40	D	8.50
87	TARN TARAN	KHADUR SAHIB	S-NPP	31.39109	75.07597	02:54:57	N	1.60
88	TARN TARAN	KHADUR SAHIB	S-NPP	31.39388	75.07685	02:54:57	N	1.90
89	TARN TARAN	KHADUR SAHIB	S-NPP	31.45050	75.19645	14:05:40	D	3.50
90	TARN TARAN	KHADUR SAHIB	S-NPP	31.47035	75.03727	12:25:22	D	6.40
91	TARN TARAN	KHADUR SAHIB	S-NPP	31.47446	75.18047	14:05:40	D	3.40
92	TARN TARAN	KHADUR SAHIB	S-NPP	31.47698	75.05956	12:25:22	D	4.00
93	TARN TARAN	KHADUR SAHIB	S-NPP	31.47930	75.06052	12:25:22	D	5.30
94	TARN TARAN	TARN TARAN	AQUA	31.41400	74.78700	14:06:19	D	14.50
95	TARN TARAN	TARN TARAN	AQUA	31.41600	74.78000	14:06:19	D	15.80
96	TARN TARAN	TARN TARAN	AQUA	31.44400	74.80700	14:06:19	D	12.60
97	TARN TARAN	TARN TARAN	AQUA	31.50100	74.80800	14:06:19	D	12.10
98	TARN TARAN	TARN TARAN	S-NPP	31.41578	74.78260	14:05:40	D	6.70
99	TARN TARAN	TARN TARAN	S-NPP	31.41632	74.78889	14:05:40	D	9.40
100	TARN TARAN	TARN TARAN	S-NPP	31.44787	74.81090	14:05:40	D	7.40
101	TARN TARAN	TARN TARAN	S-NPP	31.44935	74.80840	14:05:40	D	4.60

102	TARN TARAN	TARN TARAN	S-NPP	31.47179	74.78046	14:05:40	D	2.60
103	TARN TARAN	TARN TARAN	S-NPP	31.47957	74.87558	14:05:40	D	3.90
104	TARN TARAN	TARN TARAN	S-NPP	31.49180	74.96489	14:05:40	D	4.20
105	TARN TARAN	TARN TARAN	S-NPP	31.50379	74.80882	14:05:40	D	5.10
106	TARN TARAN	TARN TARAN	S-NPP	31.50870	74.80827	14:05:40	D	5.30
107	TARN TARAN	VALTOHA	AQUA	31.32100	74.53700	14:06:19	D	22.60
108	TARN TARAN	VALTOHA	S-NPP	31.31690	74.53844	14:05:40	D	10.70

Details of residue burning events in Haryana on 26-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	KAITHAL	GUHLA	S-NPP	30.09748	76.44461	01:16:05	N	2.40
2	KAITHAL	GUHLA	S-NPP	30.09992	76.44707	02:54:57	N	1.90
3	KARNAL	ASSANDH	S-NPP	29.54366	76.69063	14:05:40	D	1.80
4	KURUKSHETRA	THANESAR	S-NPP	29.91293	76.80299	02:54:57	N	1.10
5	KURUKSHETRA	THANESAR	S-NPP	29.91715	76.80392	01:16:05	N	1.20
6	KURUKSHETRA	THANESAR	S-NPP	29.91745	76.79739	01:16:05	N	1.40
7	KURUKSHETRA	THANESAR	S-NPP	29.91832	76.80476	02:54:57	N	1.00
8	PALWAL	HASSANPUR	S-NPP	28.02783	77.50652	14:05:40	D	2.80
9	ROHTAK	ROHTAK	S-NPP	29.04942	76.62215	14:05:40	D	2.70
10	ROHTAK	ROHTAK	S-NPP	29.04972	76.62588	14:05:40	D	2.70
11	ROHTAK	ROHTAK	S-NPP	29.05267	76.62428	14:05:40	D	5.00

Details of residue burning events in Uttar Pradesh on 26-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	KHAIR	S-NPP	27.92538	77.54462	14:05:40	D	4.20
2	BAREILLY	BAHERI	S-NPP	28.71875	79.61046	01:16:05	N	0.60
3	BULANDSAHAR	SIKANDARABAD	S-NPP	28.34773	77.80193	14:05:40	D	1.70
4	FIROZABAD	SIKOHABAD	AQUA	27.02100	78.65900	14:06:19	D	7.50
5	FIROZABAD	SIKOHABAD	S-NPP	27.04871	78.65195	12:25:22	D	3.40
6	GHAZIABAD	MODINAGAR	S-NPP	28.79418	77.46507	14:05:40	D	1.80
7	KHERI	GOLA	S-NPP	28.20865	80.32255	12:25:22	D	2.70
8	MATHURA	CHHATA	S-NPP	27.63138	77.60339	14:05:40	D	3.40
9	MATHURA	CHHATA	S-NPP	27.65037	77.50066	12:25:22	D	3.20
10	MATHURA	CHHATA	S-NPP	27.79999	77.35305	14:05:40	D	1.60
11	RAMPUR	BILASPUR	S-NPP	28.85928	79.33732	12:25:22	D	4.10
12	SHAHJAHANPUR	PUWANYA	S-NPP	27.96652	80.03259	01:16:05	N	1.50
13	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.72960	79.86863	01:16:05	N	0.70
14	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.72999	79.87063	01:16:05	N	0.40
15	SITAPUR	LAHARPUR	AQUA	27.64300	80.91600	14:06:19	D	6.10
16	UNNAO	SAFIPUR	S-NPP	26.96966	80.15961	01:16:05	N	0.50

Details of residue burning events in Delhi on 26-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	NORTH WEST DELHI	KANJHAWALA	S-NPP	28.77502	76.95063	02:54:57	N	0.6

Details of residue burning events in Rajasthan on 26-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BARAN	ANTA	S-NPP	25.10835	76.24961	14:05:40	D	10.30
2	BARAN	ANTA	S-NPP	25.10872	76.24773	14:05:40	D	8.10
3	BARAN	CHHABRA	S-NPP	24.57355	77.06783	14:05:40	D	3.40
4	BARAN	CHHABRA	S-NPP	24.58242	76.93418	14:05:40	D	2.10
5	BARAN	CHHABRA	S-NPP	24.59862	76.82843	14:05:40	D	2.90
6	BARAN	CHHABRA	S-NPP	24.64364	76.90558	14:05:40	D	1.60
7	BARAN	CHHABRA	S-NPP	24.66707	76.81931	14:05:40	D	1.30
8	BARAN	CHHABRA	S-NPP	24.68219	76.87107	14:05:40	D	3.80
9	BARAN	MANGROL	S-NPP	25.42040	76.50399	14:05:40	D	3.40
10	BARAN	SHAHBAD	AQUA	25.08900	76.96300	14:06:19	D	18.80
11	BARAN	SHAHBAD	AQUA	25.12700	76.90200	14:06:19	D	16.40
12	BARAN	SHAHBAD	AQUA	25.13000	76.91700	14:06:19	D	13.90
13	BARAN	SHAHBAD	S-NPP	25.08793	76.97018	14:05:40	D	14.20
14	BARAN	SHAHBAD	S-NPP	25.10259	77.02940	02:54:57	N	0.60
15	BARAN	SHAHBAD	S-NPP	25.10389	77.02872	02:54:57	N	0.60
16	BARAN	SHAHBAD	S-NPP	25.11146	77.05779	14:05:40	D	3.50
17	BARAN	SHAHBAD	S-NPP	25.11888	77.02227	14:05:40	D	2.80
18	BARAN	SHAHBAD	S-NPP	25.11918	77.02569	14:05:40	D	2.80
19	BARAN	SHAHBAD	S-NPP	25.12379	76.90149	14:05:40	D	5.40
20	BARAN	SHAHBAD	S-NPP	25.12411	76.96301	14:05:40	D	0.90
21	BARAN	SHAHBAD	S-NPP	25.12502	76.91502	14:05:40	D	6.00
22	BARAN	SHAHBAD	S-NPP	25.12781	77.06311	14:05:40	D	2.30
23	BARAN	SHAHBAD	S-NPP	25.15946	77.00429	14:05:40	D	3.20
24	BARAN	SHAHBAD	S-NPP	25.25540	77.01050	14:05:40	D	4.00
25	BHARATPUR	NADBAI	S-NPP	27.17826	77.20873	14:05:40	D	2.30
26	BUNDI	BUNDI	S-NPP	25.29220	75.76741	14:05:40	D	3.40
27	BUNDI	BUNDI	S-NPP	25.30494	75.81094	14:05:40	D	13.30
28	BUNDI	BUNDI	S-NPP	25.40230	75.77379	14:05:40	D	6.00
29	BUNDI	KESHORAIPATAN	S-NPP	25.27063	75.99560	14:05:40	D	4.90
30	BUNDI	KESHORAIPATAN	S-NPP	25.28883	75.87976	14:05:40	D	2.50
31	BUNDI	KESHORAIPATAN	S-NPP	25.31160	75.88125	14:05:40	D	5.90
32	BUNDI	KESHORAIPATAN	S-NPP	25.33506	75.92046	14:05:40	D	4.70

33	GANGANAGAR	GANGANAGAR	S-NPP	30.03520	73.70771	14:05:40	D	1.70
34	HANUMANGARH	HANUMANGARH	S-NPP	29.49492	74.40652	14:05:40	D	2.40
35	HANUMANGARH	HANUMANGARH	S-NPP	29.54172	74.35062	14:05:40	D	4.10
36	HANUMANGARH	HANUMANGARH	S-NPP	29.63234	74.23223	14:05:40	D	8.20
37	HANUMANGARH	PILIBANGA	S-NPP	29.38208	74.02470	14:05:40	D	10.60
38	HANUMANGARH	TIBI	S-NPP	29.47212	74.58826	14:05:40	D	3.30
39	HANUMANGARH	TIBI	S-NPP	29.49332	74.40970	14:05:40	D	2.00
40	HANUMANGARH	TIBI	S-NPP	29.52839	74.51584	14:05:40	D	2.70
41	HANUMANGARH	TIBI	S-NPP	29.55353	74.47873	14:05:40	D	3.10
42	KOTA	LADPURA	AQUA	25.25200	75.94600	14:06:19	D	15.70
43	KOTA	LADPURA	S-NPP	25.22854	75.97018	14:05:40	D	5.50
44	KOTA	LADPURA	S-NPP	25.25676	75.95498	14:05:40	D	13.30
45	KOTA	PIPALDA	S-NPP	25.45137	76.41544	14:05:40	D	5.70
46	KOTA	PIPALDA	S-NPP	25.45194	76.42187	14:05:40	D	6.30
47	KOTA	PIPALDA	S-NPP	25.45310	76.41748	14:05:40	D	10.60
48	KOTA	PIPALDA	S-NPP	25.49787	76.47731	14:05:40	D	3.20
49	KOTA	PIPALDA	S-NPP	25.60400	76.42208	14:05:40	D	2.60
50	SWAIMADHOPUR	KHANDAR	AQUA	25.92900	76.59000	14:06:19	D	10.10
51	SWAIMADHOPUR	KHANDAR	S-NPP	25.88513	76.53665	14:05:40	D	1.80
52	SWAIMADHOPUR	KHANDAR	S-NPP	25.88619	76.48984	14:05:40	D	1.40
53	SWAIMADHOPUR	KHANDAR	S-NPP	25.93084	76.58550	14:05:40	D	6.00
54	SWAIMADHOPUR	KHANDAR	S-NPP	25.93114	76.58884	14:05:40	D	7.20

Details of residue burning events in Madhya Pradesh on 26-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.41200	77.67700	14:06:19	D	9.30
2	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.46100	77.49000	14:06:19	D	12.10
3	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.67800	77.56800	14:06:19	D	10.70
4	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.38330	77.59001	12:25:22	D	6.70
5	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.41596	77.67845	14:05:40	D	5.50
6	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.43279	77.49910	14:05:40	D	5.00
7	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.43481	77.49887	12:25:22	D	10.80
8	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.44184	77.49669	12:25:22	D	6.50
9	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.44349	77.49802	14:05:40	D	5.50
10	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.44381	77.50167	14:05:40	D	5.50
11	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.44916	77.50114	14:05:40	D	1.50
12	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45052	77.63743	14:05:40	D	3.20
13	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45246	77.63533	12:25:22	D	11.60
14	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45416	77.67856	14:05:40	D	3.50
15	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.45887	77.48917	14:05:40	D	3.20
16	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.46291	77.49004	12:25:22	D	3.00
17	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.46421	77.48863	14:05:40	D	3.20
18	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.53873	77.56766	14:05:40	D	2.50
19	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.59685	77.51619	12:25:22	D	7.30
20	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.59835	77.53547	14:05:40	D	2.60
21	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.60016	77.55635	12:25:22	D	3.80
22	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.63939	77.50926	14:05:40	D	7.20
23	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.63970	77.51291	14:05:40	D	9.00
24	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.65217	77.59291	14:05:40	D	0.80
25	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.68222	77.56417	14:05:40	D	11.00
26	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.69901	77.62958	14:05:40	D	2.80
27	ASHOKNAGAR	CHANDERI	S-NPP	24.55562	78.08772	14:05:40	D	1.10
28	ASHOKNAGAR	CHANDERI	S-NPP	24.67825	78.02400	14:05:40	D	4.60
29	ASHOKNAGAR	ISAGARH	AQUA	24.83900	77.65400	14:06:19	D	14.90
30	ASHOKNAGAR	ISAGARH	S-NPP	24.66263	77.71259	14:05:40	D	4.30

31	ASHOKNAGAR	ISAGARH	S-NPP	24.79441	77.70232	14:05:40	D	3.20
32	ASHOKNAGAR	ISAGARH	S-NPP	24.79475	77.70613	14:05:40	D	4.10
33	ASHOKNAGAR	ISAGARH	S-NPP	24.83228	77.67750	14:05:40	D	2.60
34	ASHOKNAGAR	ISAGARH	S-NPP	24.83580	77.65441	14:05:40	D	6.90
35	ASHOKNAGAR	ISAGARH	S-NPP	24.88609	77.60415	14:05:40	D	4.00
36	BHIND	LAHAR	AQUA	25.99900	78.82100	14:06:19	D	8.80
37	BHIND	LAHAR	S-NPP	26.00291	78.82088	14:05:40	D	4.50
38	BHIND	MAHGAWAN	S-NPP	26.53651	78.47211	14:05:40	D	3.10
39	BHOPAL	BERASIYA	S-NPP	23.68038	77.59479	14:05:40	D	1.90
40	DATIA	DATIA	S-NPP	25.73259	78.49049	12:25:22	D	3.80
41	DATIA	DATIA	S-NPP	25.73580	78.49175	12:25:22	D	6.00
42	DATIA	DATIA	S-NPP	25.74096	78.45385	14:05:40	D	2.70
43	DATIA	SEONDHA	AQUA	26.08000	78.69400	14:06:19	D	11.60
44	DATIA	SEONDHA	S-NPP	25.81166	78.52795	14:05:40	D	1.90
45	DATIA	SEONDHA	S-NPP	26.08626	78.69328	14:05:40	D	7.20
46	DHAR	MANAWAR	S-NPP	22.26303	75.13371	01:16:05	N	1.10
47	GUNA	ARON	AQUA	24.28000	77.47600	14:06:19	D	9.20
48	GUNA	ARON	AQUA	24.28200	77.43200	14:06:19	D	42.40
49	GUNA	ARON	AQUA	24.29300	77.43000	14:06:19	D	10.10
50	GUNA	ARON	AQUA	24.31100	77.47000	14:06:19	D	16.30
51	GUNA	ARON	AQUA	24.36500	77.43800	14:06:19	D	9.50
52	GUNA	ARON	AQUA	24.38300	77.47800	14:06:19	D	12.20
53	GUNA	ARON	AQUA	24.53100	77.48200	14:06:19	D	9.90
54	GUNA	ARON	S-NPP	24.25452	77.50636	14:05:40	D	1.50
55	GUNA	ARON	S-NPP	24.26866	77.51080	14:05:40	D	2.20
56	GUNA	ARON	S-NPP	24.27748	77.48813	14:05:40	D	3.90
57	GUNA	ARON	S-NPP	24.27953	77.48573	14:05:40	D	3.30
58	GUNA	ARON	S-NPP	24.28186	77.47672	14:05:40	D	2.40
59	GUNA	ARON	S-NPP	24.28310	77.42942	14:05:40	D	5.70
60	GUNA	ARON	S-NPP	24.28342	77.43299	14:05:40	D	8.30
61	GUNA	ARON	S-NPP	24.28373	77.43658	14:05:40	D	8.30
62	GUNA	ARON	S-NPP	24.28418	77.47797	14:05:40	D	5.00
63	GUNA	ARON	S-NPP	24.28841	77.42882	14:05:40	D	5.70
64	GUNA	ARON	S-NPP	24.28873	77.43240	14:05:40	D	8.30
65	GUNA	ARON	S-NPP	24.29725	77.52955	14:05:40	D	2.10

66	GUNA	ARON	S-NPP	24.30820	77.47038	14:05:40	D	6.80
67	GUNA	ARON	S-NPP	24.31288	77.46260	14:05:40	D	3.30
68	GUNA	ARON	S-NPP	24.31788	77.45844	14:05:40	D	3.60
69	GUNA	ARON	S-NPP	24.34202	77.54719	14:05:40	D	2.30
70	GUNA	ARON	S-NPP	24.35670	77.58986	14:05:40	D	2.00
71	GUNA	ARON	S-NPP	24.35884	77.43618	14:05:40	D	4.60
72	GUNA	ARON	S-NPP	24.36449	77.43919	14:05:40	D	4.50
73	GUNA	ARON	S-NPP	24.36477	77.43729	12:25:22	D	4.10
74	GUNA	ARON	S-NPP	24.38484	77.48450	14:05:40	D	4.50
75	GUNA	ARON	S-NPP	24.38813	77.48162	14:05:40	D	4.70
76	GUNA	ARON	S-NPP	24.38844	77.48526	14:05:40	D	4.70
77	GUNA	ARON	S-NPP	24.39018	77.48395	14:05:40	D	4.50
78	GUNA	ARON	S-NPP	24.39116	77.48844	12:25:22	D	6.50
79	GUNA	ARON	S-NPP	24.39340	77.35796	14:05:40	D	2.90
80	GUNA	ARON	S-NPP	24.39347	77.48686	12:25:22	D	7.20
81	GUNA	ARON	S-NPP	24.40400	77.35693	14:05:40	D	3.80
82	GUNA	ARON	S-NPP	24.45187	77.47151	14:05:40	D	5.80
83	GUNA	ARON	S-NPP	24.48674	77.40728	12:25:22	D	5.50
84	GUNA	ARON	S-NPP	24.49379	77.40507	12:25:22	D	4.10
85	GUNA	ARON	S-NPP	24.49476	77.40345	12:25:22	D	2.90
86	GUNA	ARON	S-NPP	24.50082	77.44317	14:05:40	D	3.20
87	GUNA	ARON	S-NPP	24.50113	77.44675	14:05:40	D	6.70
88	GUNA	ARON	S-NPP	24.51905	77.46690	14:05:40	D	5.50
89	GUNA	ARON	S-NPP	24.52033	77.48146	14:05:40	D	3.90
90	GUNA	ARON	S-NPP	24.53605	77.47622	14:05:40	D	6.00
91	GUNA	ARON	S-NPP	24.53637	77.47985	14:05:40	D	11.40
92	GUNA	GUNA	AQUA	24.71800	77.48800	14:06:19	D	12.00
93	GUNA	GUNA	AQUA	24.75800	77.53600	14:06:19	D	10.70
94	GUNA	GUNA	AQUA	24.78000	77.49800	14:06:19	D	11.70
95	GUNA	GUNA	AQUA	24.84000	77.12600	14:06:19	D	24.10
96	GUNA	GUNA	AQUA	24.94100	77.17400	14:06:19	D	20.00
97	GUNA	GUNA	S-NPP	24.50142	77.38865	14:05:40	D	5.30
98	GUNA	GUNA	S-NPP	24.66439	77.13789	14:05:40	D	4.20
99	GUNA	GUNA	S-NPP	24.66604	77.16045	14:05:40	D	1.20
100	GUNA	GUNA	S-NPP	24.71145	77.50029	14:05:40	D	2.30

101	GUNA	GUNA	S-NPP	24.72091	77.48448	14:05:40	D	8.40
102	GUNA	GUNA	S-NPP	24.73017	77.10847	14:05:40	D	1.20
103	GUNA	GUNA	S-NPP	24.74236	77.48247	14:05:40	D	1.50
104	GUNA	GUNA	S-NPP	24.76072	77.50657	14:05:40	D	3.60
105	GUNA	GUNA	S-NPP	24.76120	77.45124	14:05:40	D	2.40
106	GUNA	GUNA	S-NPP	24.76335	77.53620	14:05:40	D	5.50
107	GUNA	GUNA	S-NPP	24.77651	77.50137	14:05:40	D	6.10
108	GUNA	GUNA	S-NPP	24.78758	77.50402	14:05:40	D	4.90
109	GUNA	GUNA	S-NPP	24.80768	77.45137	14:05:40	D	3.80
110	GUNA	GUNA	S-NPP	24.81002	77.45359	14:05:40	D	4.60
111	GUNA	GUNA	S-NPP	24.81920	77.09612	14:05:40	D	8.50
112	GUNA	GUNA	S-NPP	24.81951	77.09957	14:05:40	D	10.40
113	GUNA	GUNA	S-NPP	24.82071	76.88380	14:05:40	D	3.20
114	GUNA	GUNA	S-NPP	24.86915	77.17864	14:05:40	D	2.20
115	GUNA	GUNA	S-NPP	24.86947	77.18215	14:05:40	D	2.20
116	GUNA	GUNA	S-NPP	24.87117	77.14329	14:05:40	D	2.00
117	GUNA	GUNA	S-NPP	24.87460	77.53997	12:25:22	D	6.90
118	GUNA	GUNA	S-NPP	24.87659	77.15170	14:05:40	D	2.80
119	GUNA	GUNA	S-NPP	24.88015	77.53710	14:05:40	D	6.70
120	GUNA	GUNA	S-NPP	24.89083	77.13245	14:05:40	D	4.50
121	GUNA	GUNA	S-NPP	24.89517	77.12154	14:05:40	D	2.60
122	GUNA	GUNA	S-NPP	24.91215	77.13374	14:05:40	D	3.00
123	GUNA	GUNA	S-NPP	24.94252	77.17647	14:05:40	D	10.40
124	GUNA	KUMBHRAJ	S-NPP	24.43245	77.08897	14:05:40	D	2.20
125	GUNA	RAGHOGARH	S-NPP	24.15532	77.23728	14:05:40	D	2.90
126	GUNA	RAGHOGARH	S-NPP	24.15533	77.23626	14:05:40	D	3.80
127	GUNA	RAGHOGARH	S-NPP	24.22982	77.12844	14:05:40	D	0.60
128	GUNA	RAGHOGARH	S-NPP	24.28298	77.13138	14:05:40	D	5.20
129	HOSHANGABAD	ITARSI	S-NPP	22.56057	77.70545	14:05:40	D	2.10
130	HOSHANGABAD	ITARSI	S-NPP	22.61592	77.80139	14:05:40	D	4.10
131	HOSHANGABAD	ITARSI	S-NPP	22.61833	77.80282	14:05:40	D	3.90
132	HOSHANGABAD	SEONI MALWA	S-NPP	22.50304	77.38083	14:05:40	D	1.30
133	HOSHANGABAD	SEONI MALWA	S-NPP	22.59217	77.48487	14:05:40	D	1.70
134	MORENA	SABALGARH	S-NPP	26.25906	77.37256	14:05:40	D	1.80
135	MORENA	SABALGARH	S-NPP	26.27039	77.49067	14:05:40	D	3.50

136	NARSHIMAPURA	KARELI	S-NPP	22.98262	79.04571	01:16:05	N	0.40
137	NARSHIMAPURA	KARELI	S-NPP	23.03073	79.11927	01:16:05	N	0.40
138	NARSHIMAPURA	NARSIMHAPUR	AQUA	23.03200	79.26700	14:06:19	D	6.60
139	NARSHIMAPURA	NARSIMHAPUR	S-NPP	23.03485	79.26615	14:05:40	D	3.50
140	RAISEN	GOHARGANJ	S-NPP	23.03312	77.50793	14:05:40	D	2.10
141	RAISEN	GOHARGANJ	S-NPP	23.04795	77.49597	14:05:40	D	2.30
142	SAGAR	BINA	AQUA	24.06000	78.15600	14:06:19	D	8.70
143	SAGAR	BINA	S-NPP	24.05774	78.16039	14:05:40	D	4.60
144	SAGAR	DEVRI	S-NPP	23.48345	79.04855	14:05:40	D	5.90
145	SEHORE	NASRULLAHGANJ	S-NPP	22.76770	77.27854	14:05:40	D	2.20
146	SEHORE	NASRULLAHGANJ	S-NPP	22.79798	77.36751	14:05:40	D	3.80
147	SEONI	KEWLARI	S-NPP	22.29147	79.90270	14:05:40	D	7.60
148	SEONI	KEWLARI	S-NPP	22.29281	79.90173	14:05:40	D	4.70
149	SEONI	KEWLARI	S-NPP	22.30337	79.88150	14:05:40	D	3.50
150	SEONI	KEWLARI	S-NPP	22.30382	79.82212	12:25:22	D	7.20
151	SEONI	KEWLARI	S-NPP	22.36408	79.94978	14:05:40	D	4.20
152	SEONI	SEONI	AQUA	22.31800	79.76000	14:06:19	D	8.50
153	SEONI	SEONI	S-NPP	22.21538	79.51585	14:05:40	D	2.90
154	SEONI	SEONI	S-NPP	22.32317	79.75418	14:05:40	D	5.70
155	SHIVPURI	KOLARAS	S-NPP	24.87982	77.53339	14:05:40	D	6.70
156	SHIVPURI	KOLARAS	S-NPP	24.88454	77.52540	14:05:40	D	3.70
157	SHIVPURI	KOLARAS	S-NPP	24.89161	77.68735	12:25:22	D	6.00
158	SHIVPURI	KOLARAS	S-NPP	24.91331	77.65657	12:25:22	D	8.00
159	SHIVPURI	KOLARAS	S-NPP	24.92314	77.74937	12:25:22	D	8.20
160	SHIVPURI	KOLARAS	S-NPP	24.92827	77.63290	14:05:40	D	3.60
161	SHIVPURI	KOLARAS	S-NPP	24.95573	77.61893	12:25:22	D	5.70
162	SHIVPURI	KOLARAS	S-NPP	24.96104	77.56900	14:05:40	D	3.90
163	SHIVPURI	KOLARAS	S-NPP	25.06635	77.69173	14:05:40	D	3.50
164	SHIVPURI	KOLARAS	S-NPP	25.07697	77.75221	14:05:40	D	2.70
165	SHIVPURI	KOLARAS	S-NPP	25.22139	77.54845	14:05:40	D	2.00
166	VIDESHA	LETERI	S-NPP	24.29429	77.37430	14:05:40	D	3.10
167	VIDESHA	SIRANJ	S-NPP	24.19923	77.49016	14:05:40	D	3.40
168	VIDESHA	SIRANJ	S-NPP	24.23523	77.47195	14:05:40	D	2.80
169	VIDESHA	VIDESHA	S-NPP	23.52651	77.57671	14:05:40	D	1.50
170	WEST NIMAR	KASRAWAD	S-NPP	22.10642	75.52793	14:05:40	D	4.20

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

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375	Both
2.	JPSS 1 (NOAA 20)	VIIRS	375	Both
3.	JPSS 2 (NOAA 21)	VIIRS	375	Both
4.	Aqua	MODIS	1000	Both

**The rice mask for the Punjab and Haryana were provided by MNCFC, MoA&FW, Govt of India
The kharif crop mask for Delhi, Uttar Pradesh, Rajasthan and Madhya Pradesh were provided by NRSC**

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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](#)
