

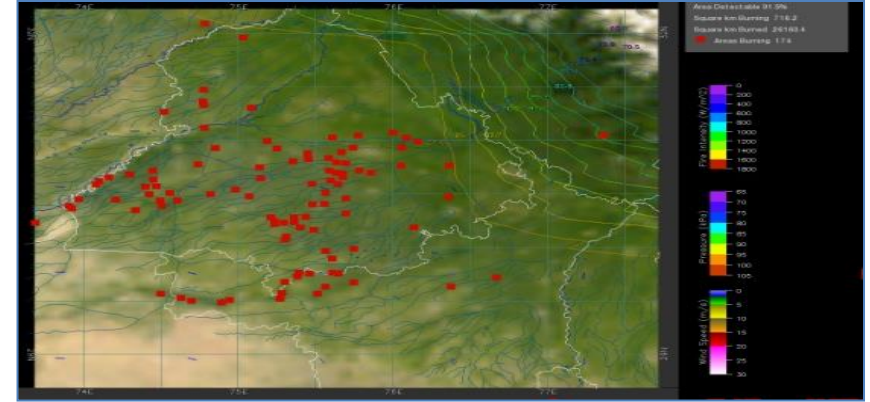
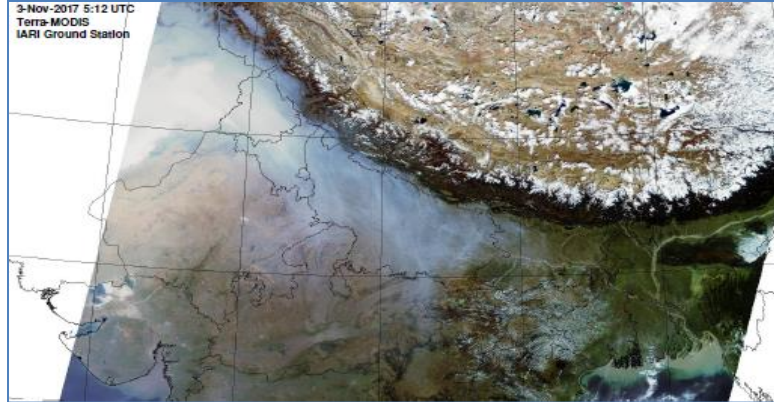


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

**Bulletin
No. 50**

**Events Date:
03-Nov-2024**

**Issued on:
03-Nov-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

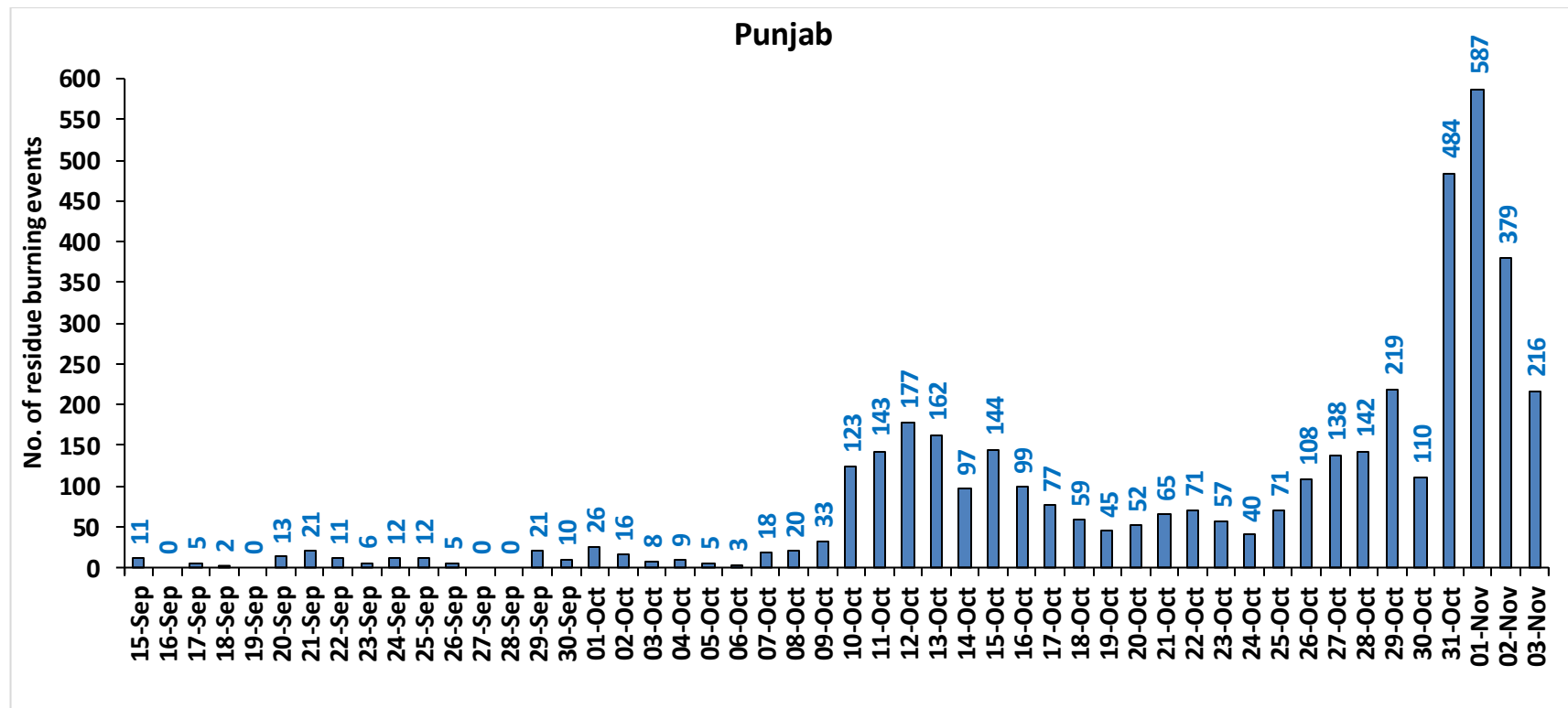
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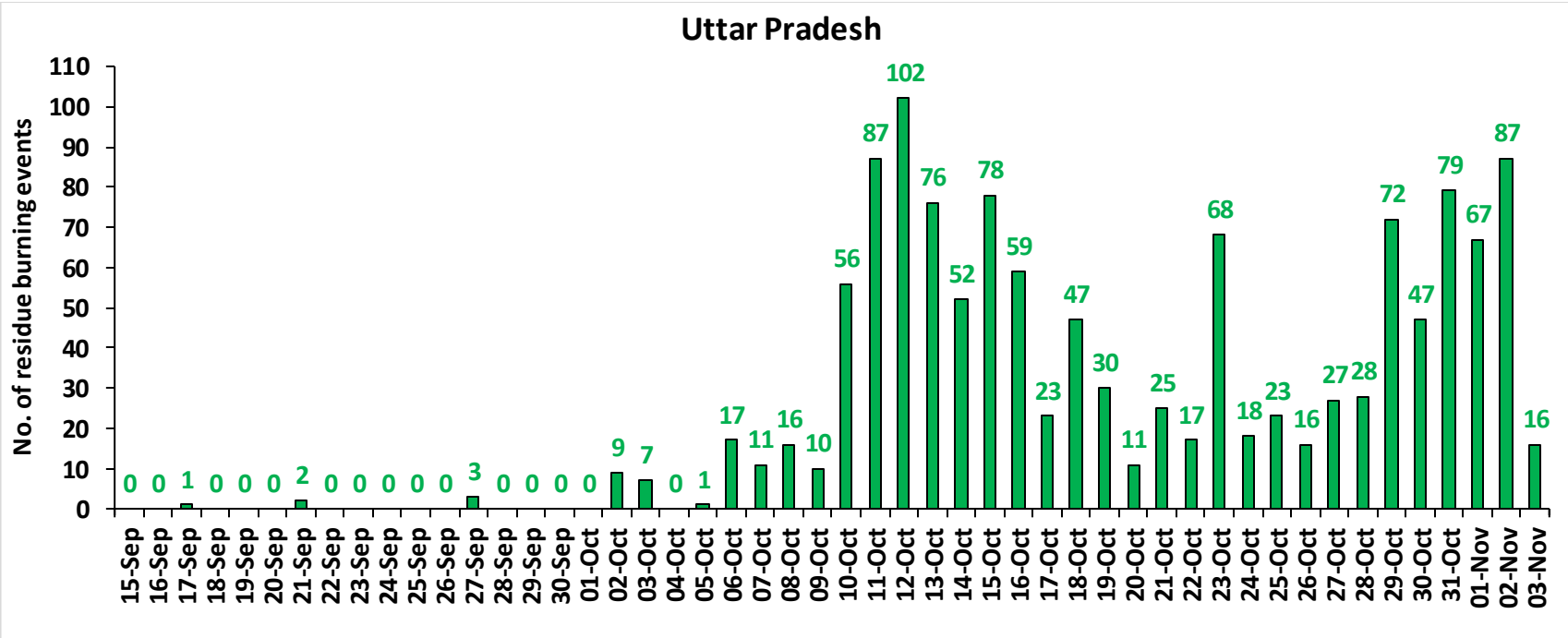
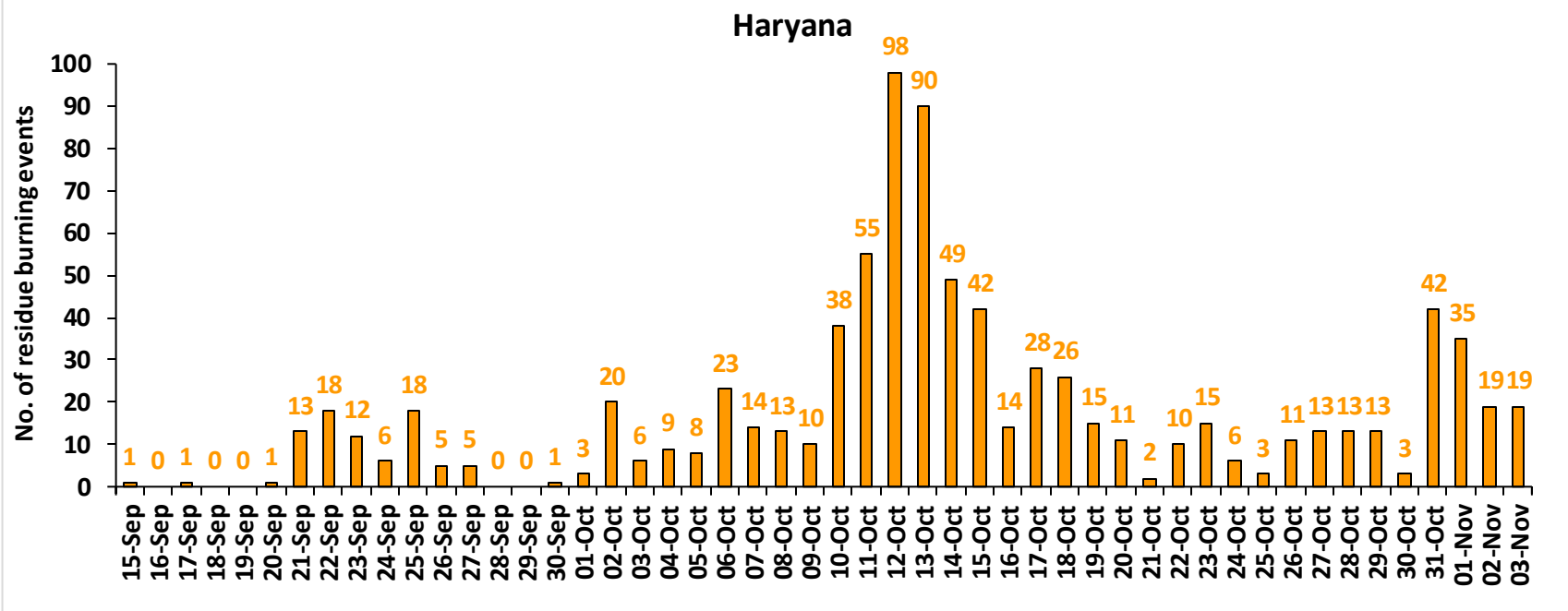


Highlights for 03-Nov-2024

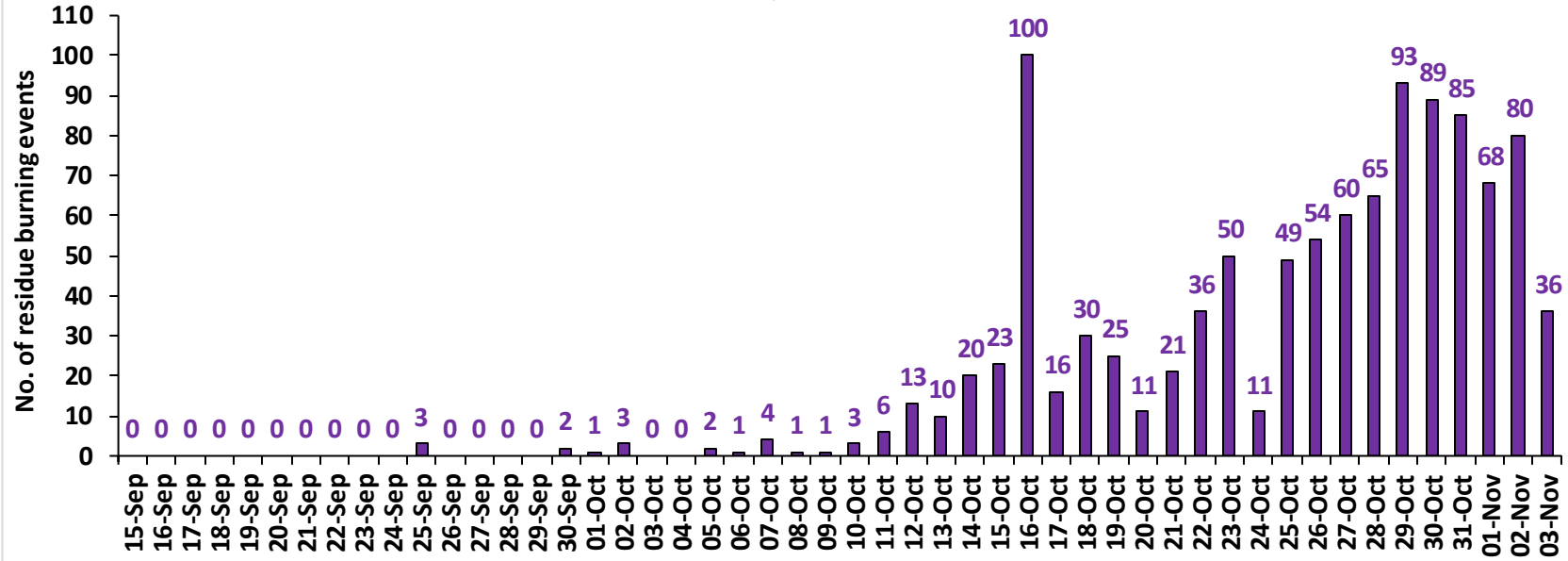
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol " recommended by CAQM.
- Satellites detected **351** residue burning events in the six study States on **03-Nov-2024**.
- The state wise events detected on **03-Nov-2024** were **216** in Punjab, **19** in Haryana, **16** in UP, **00** in Delhi, **36** in Rajasthan and **67** in MP.
- Total **9730** burning events were detected in the six states between **15-Sept-2024** and **03-Nov-2024**, which are distributed as **4132**, **857**, **1288**, **12**, **1072** and **2369** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

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

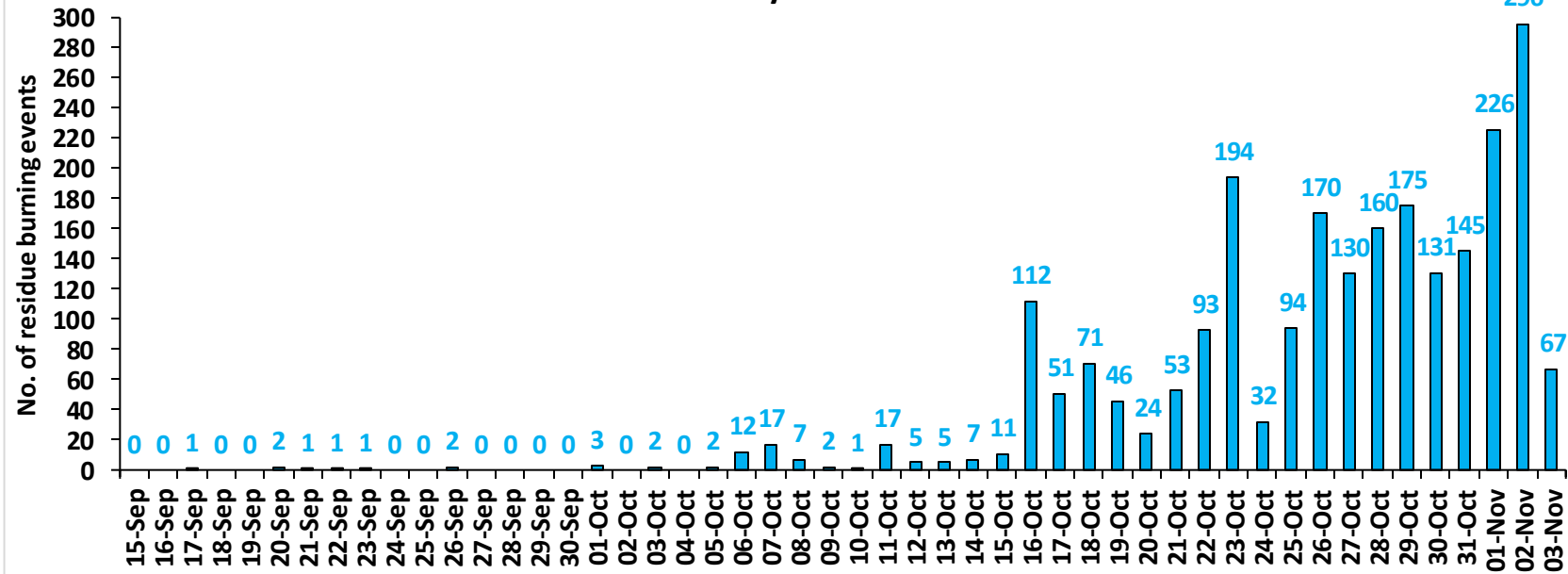




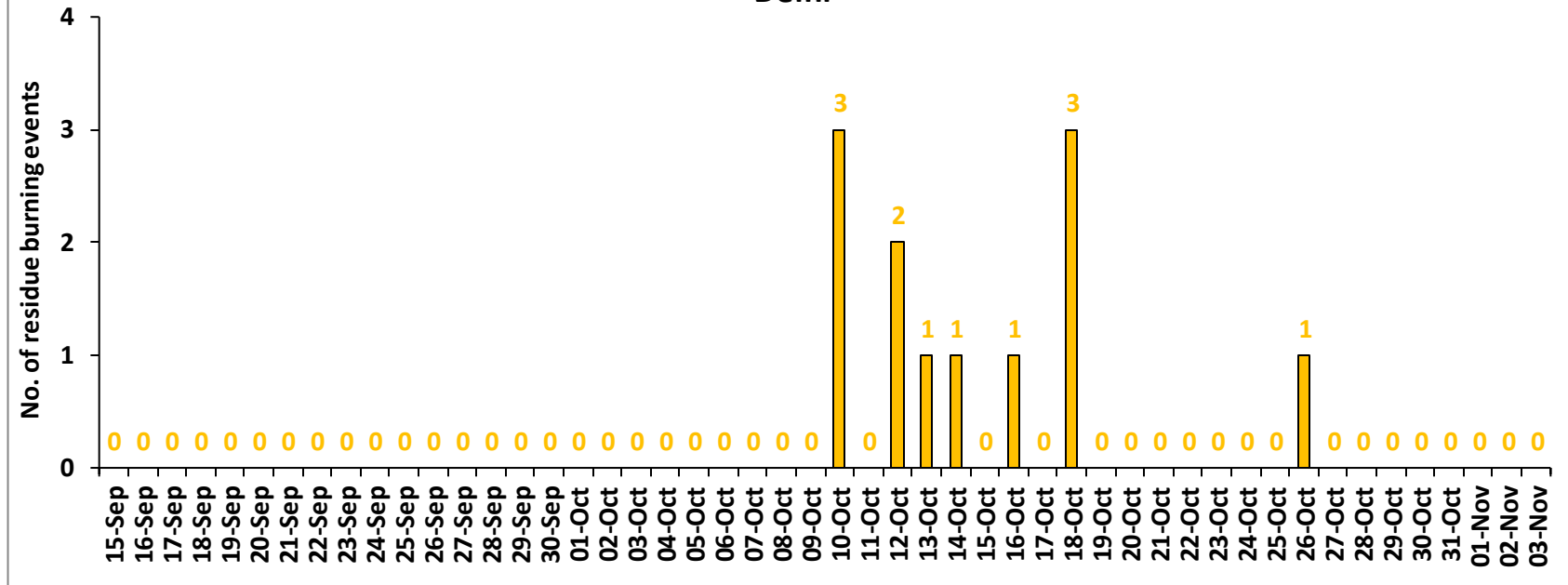
Rajasthan



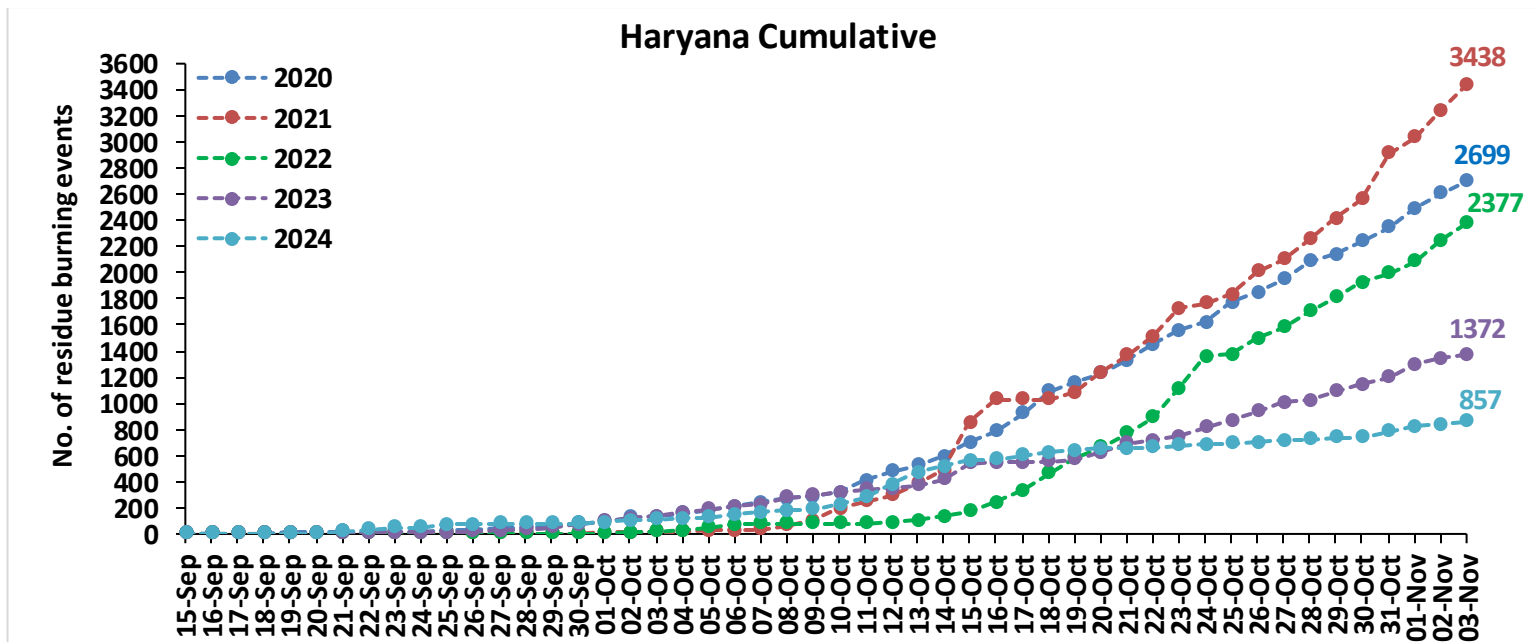
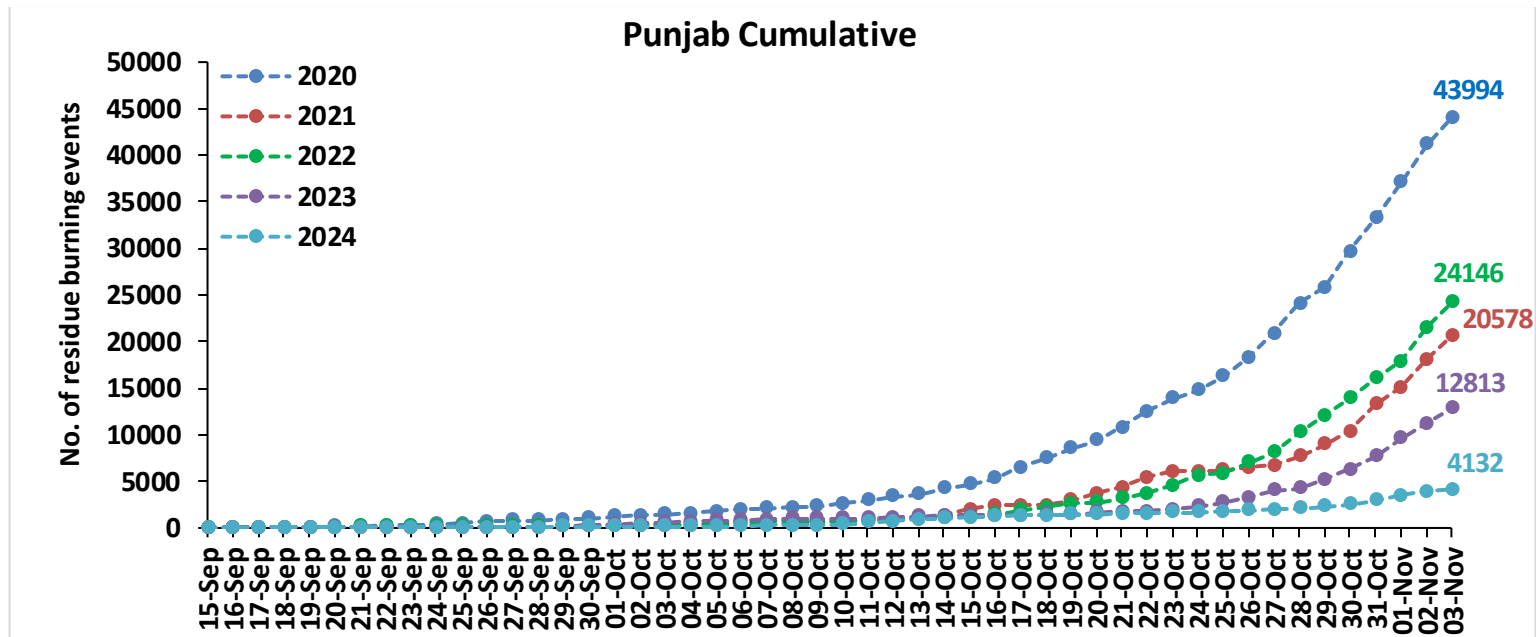
Madhya Pradesh

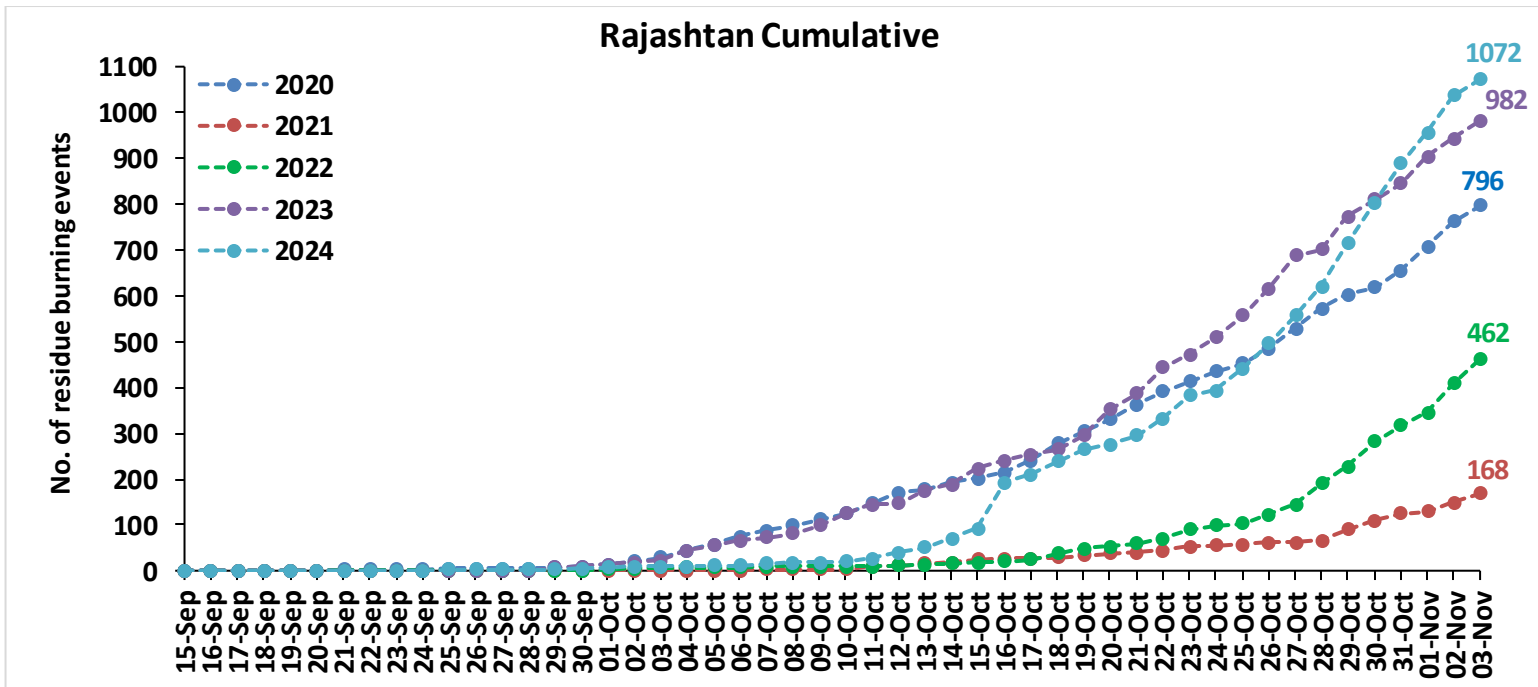
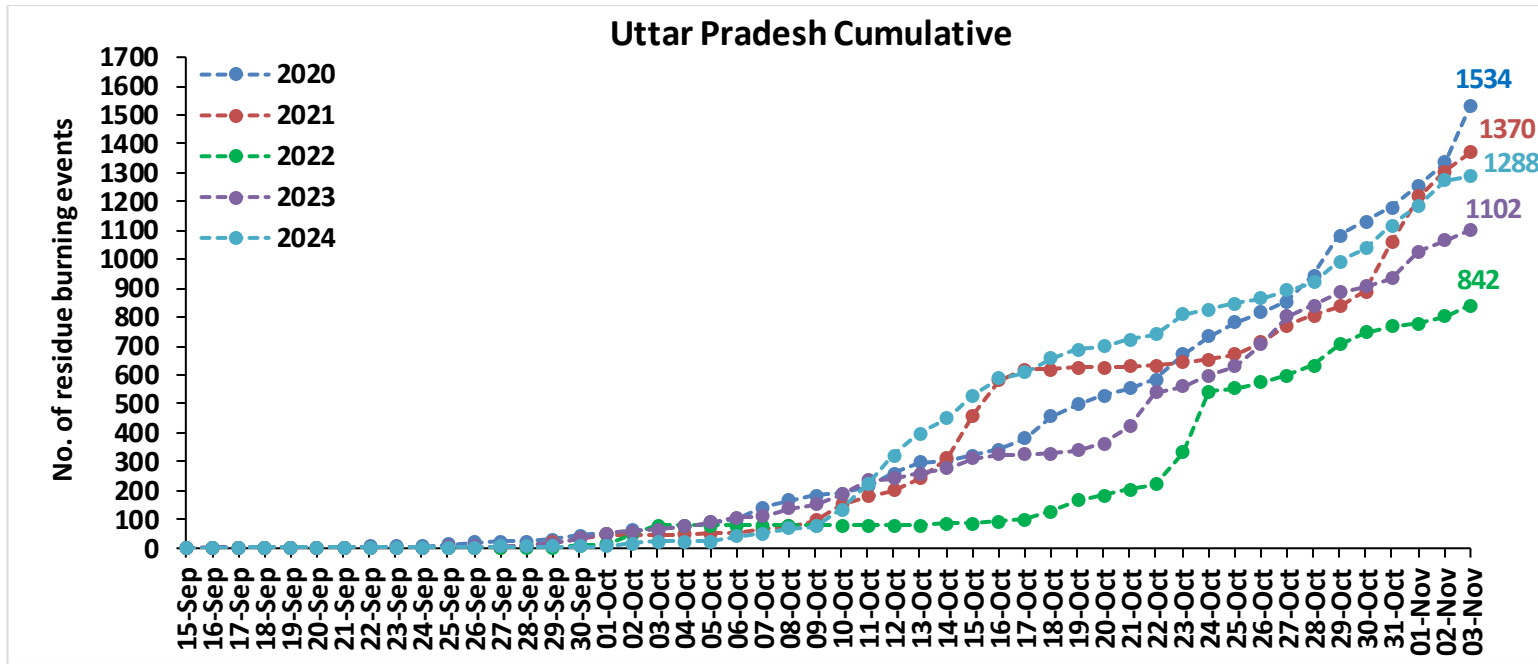


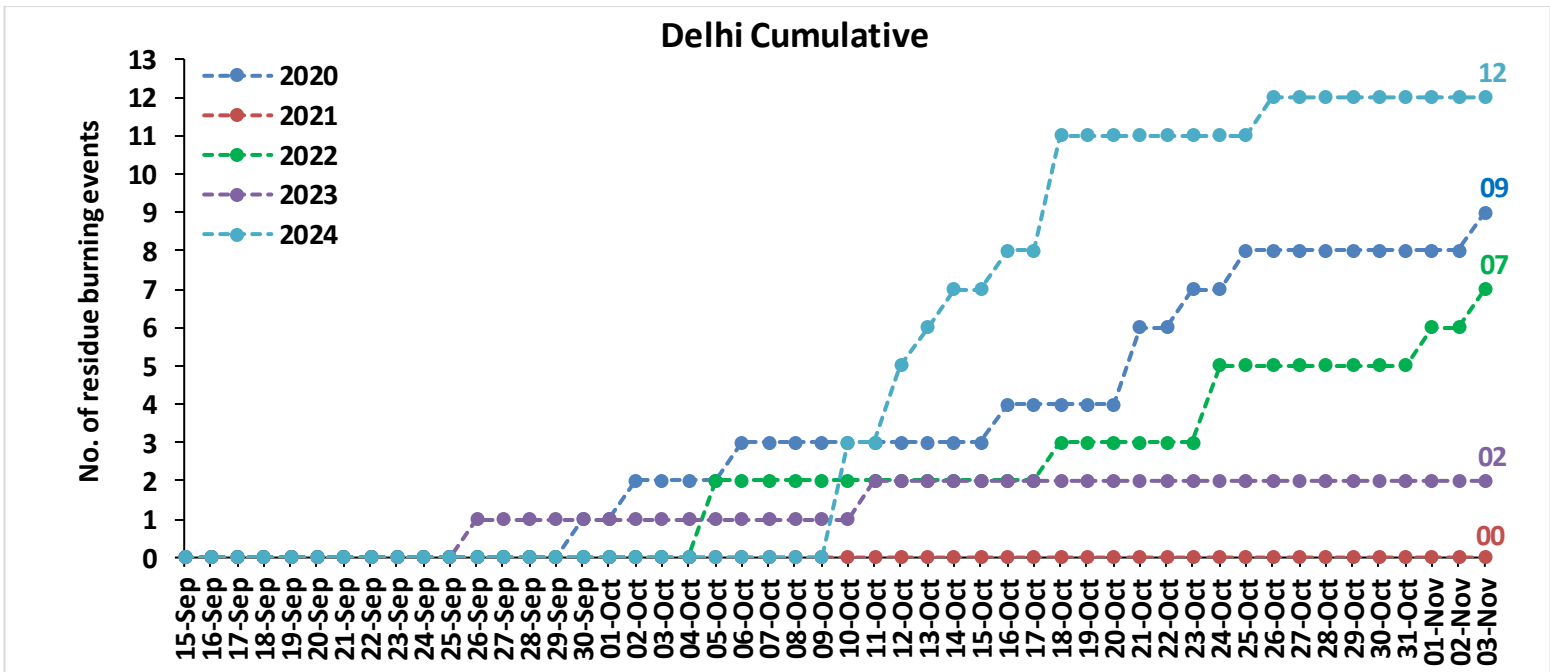
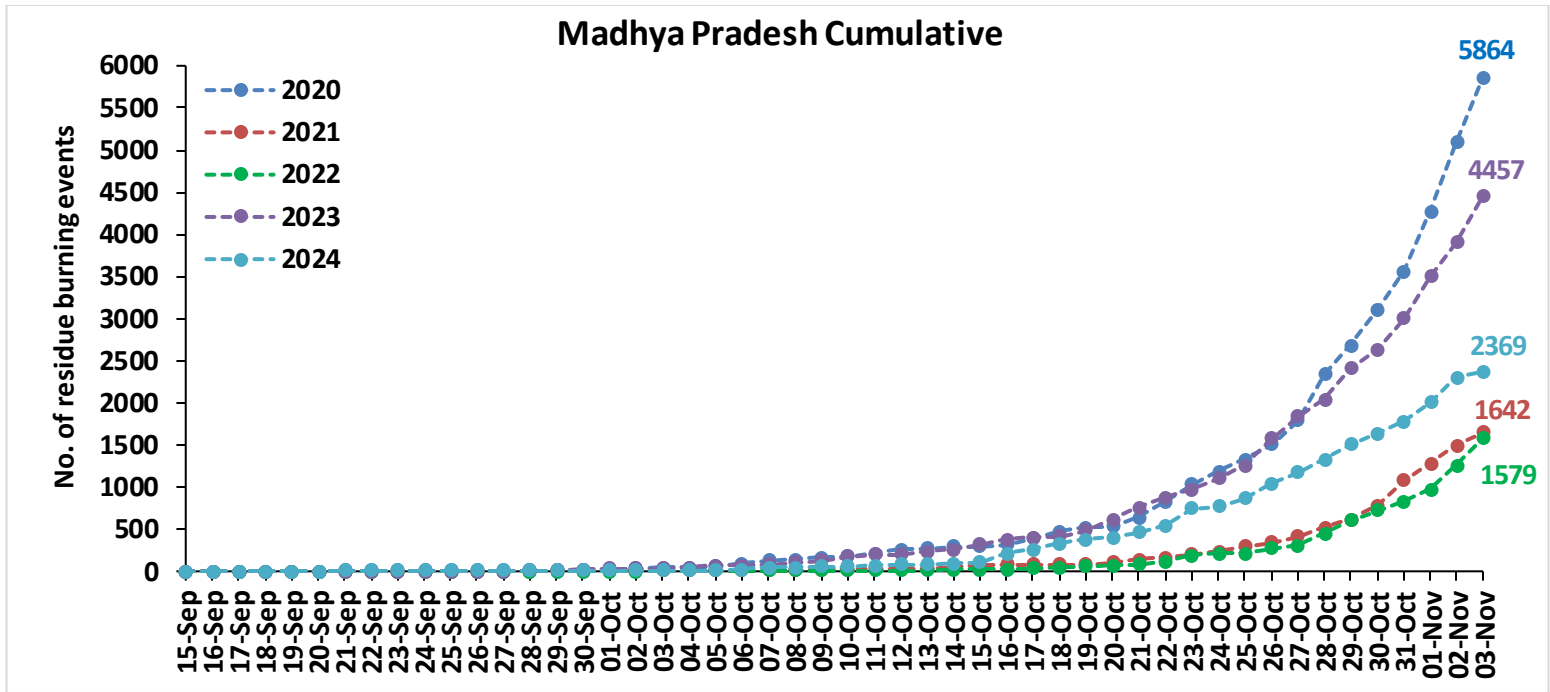
Delhi



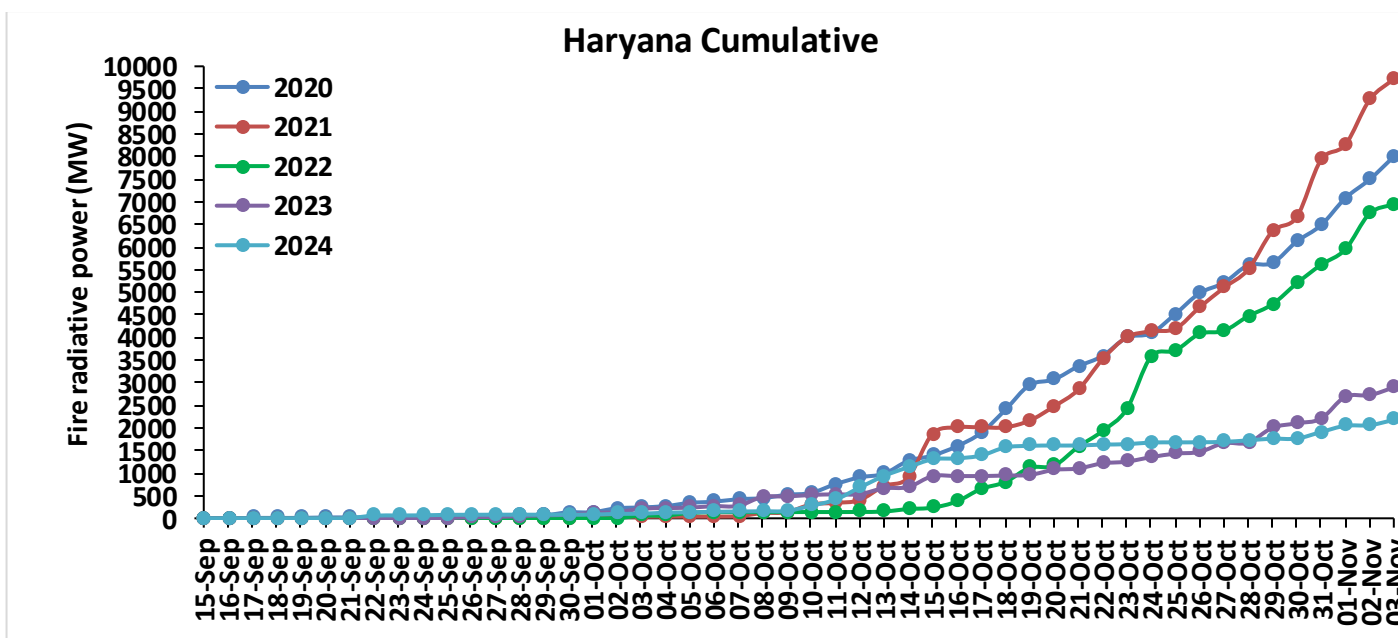
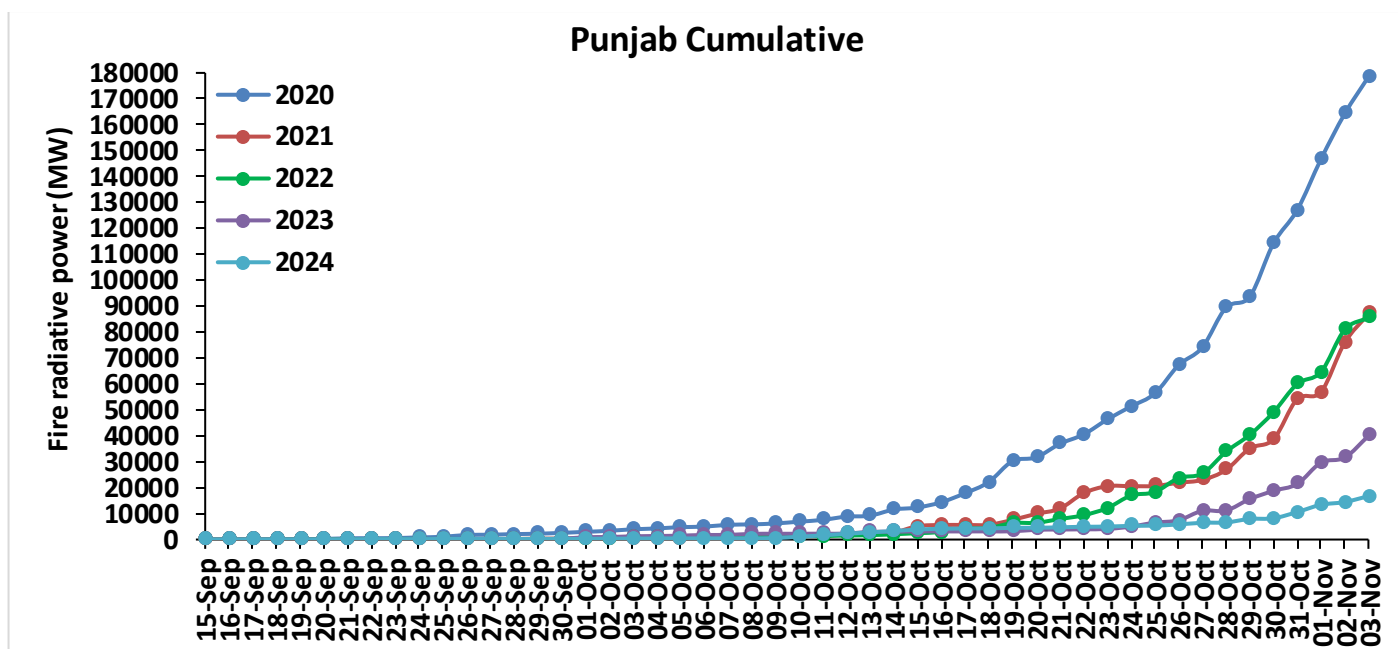
Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States



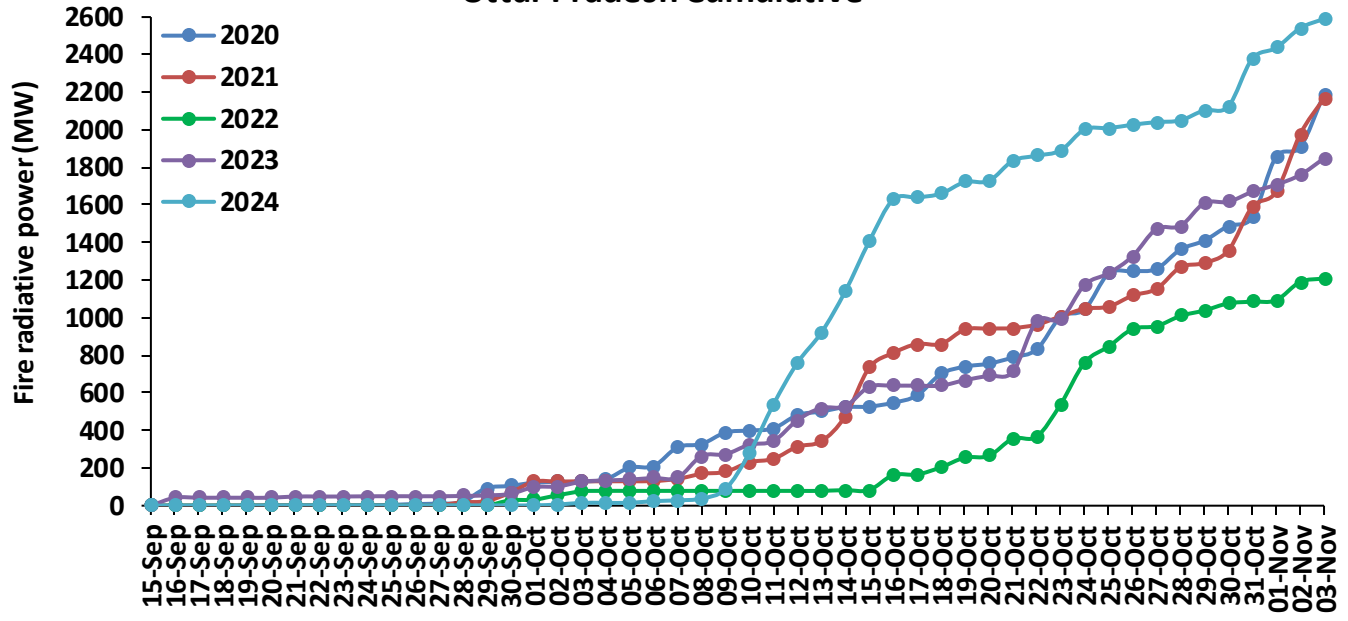




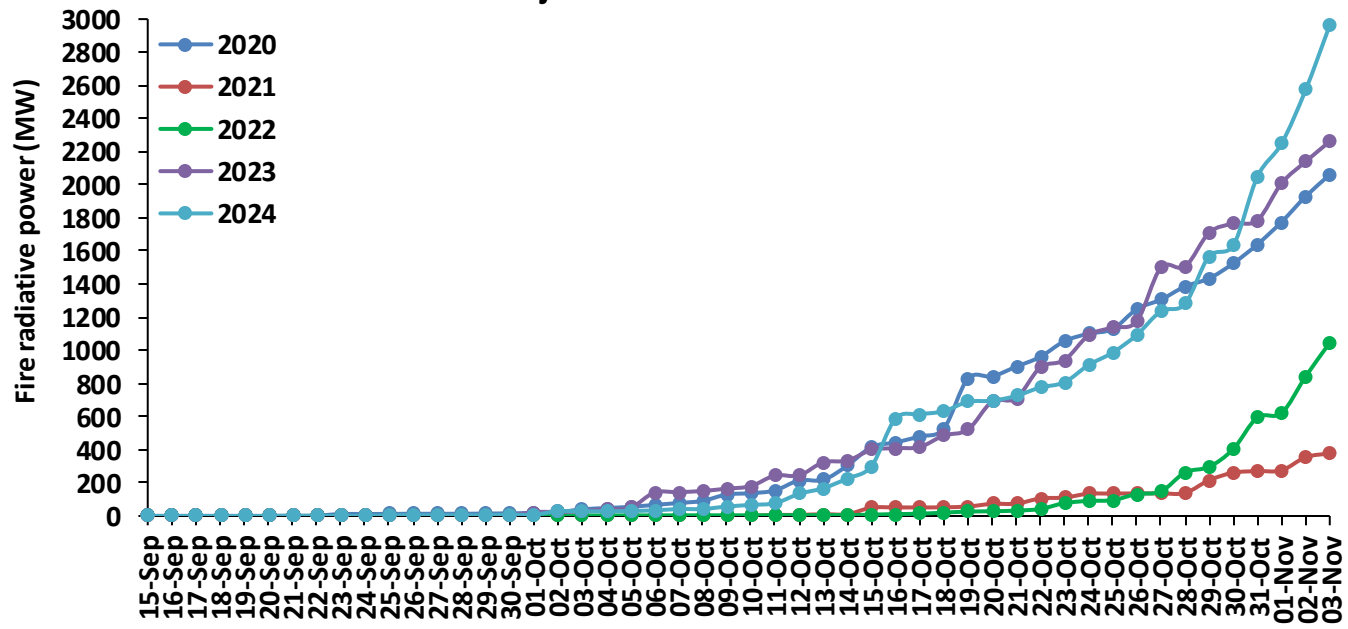
Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States

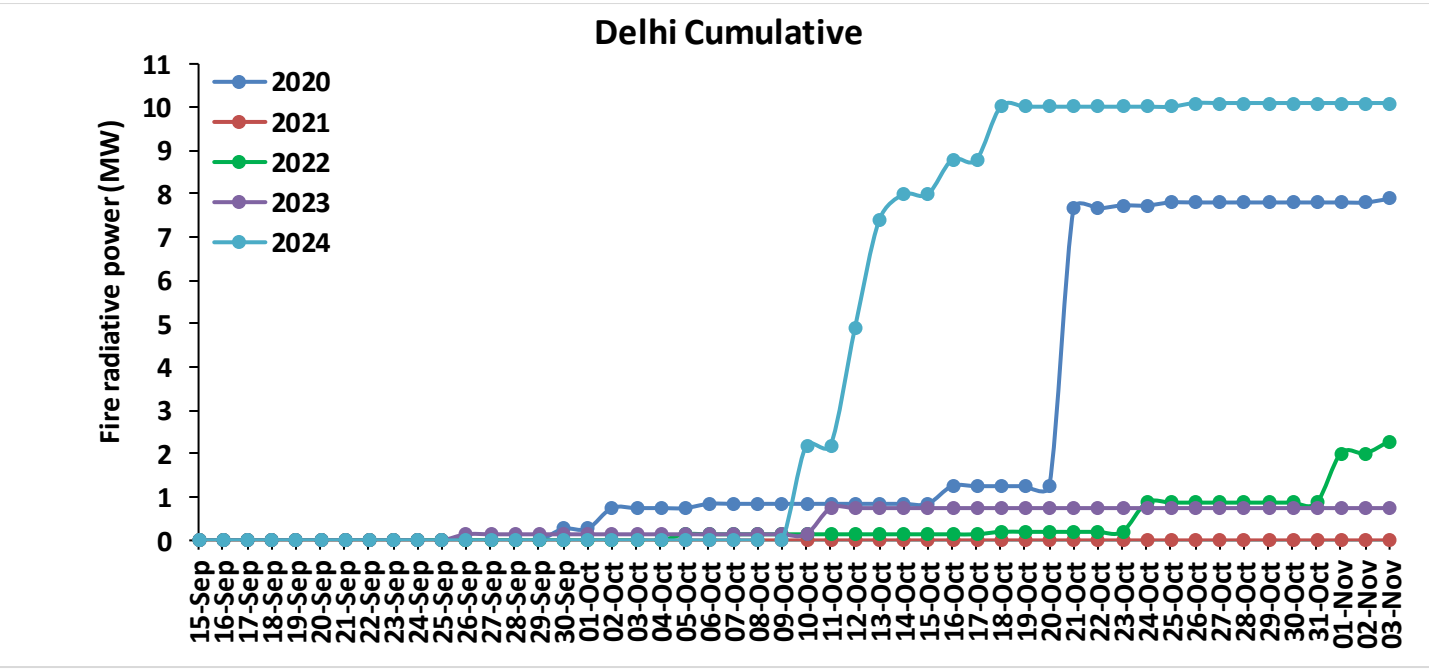
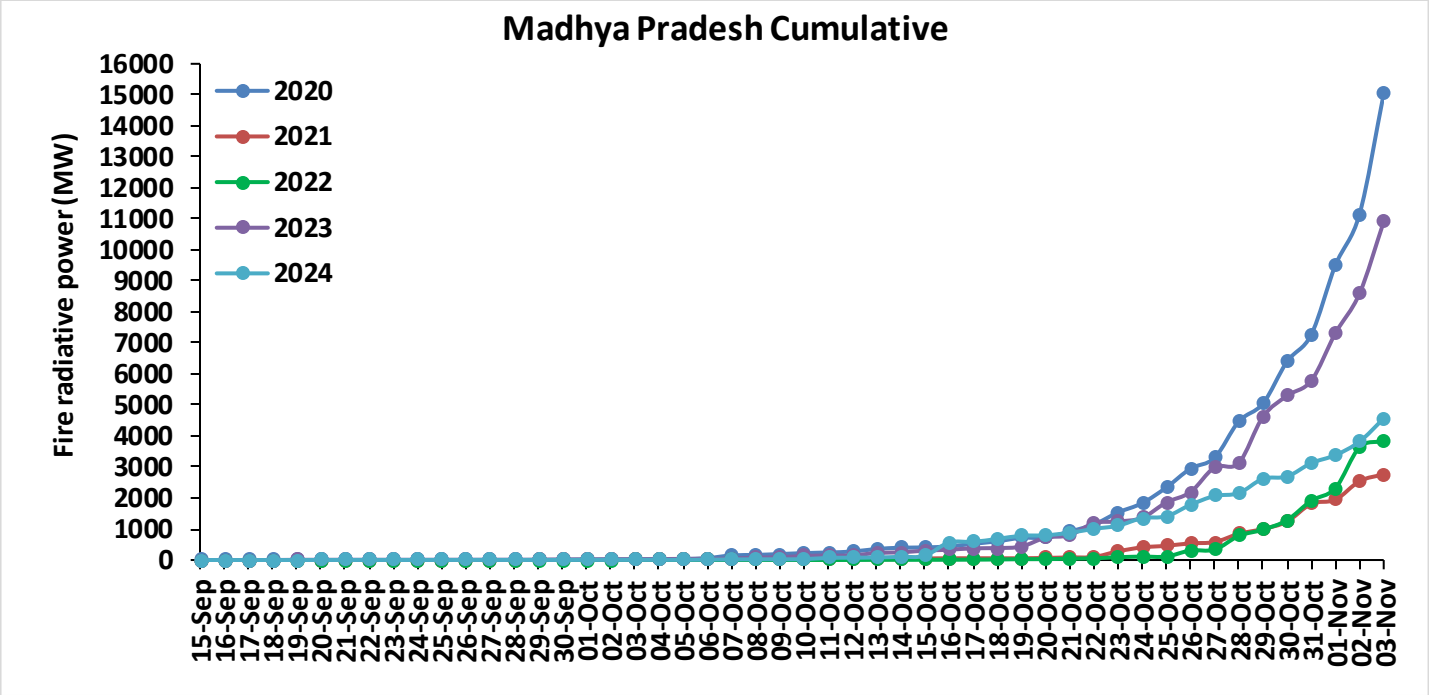


Uttar Pradesh Cumulative



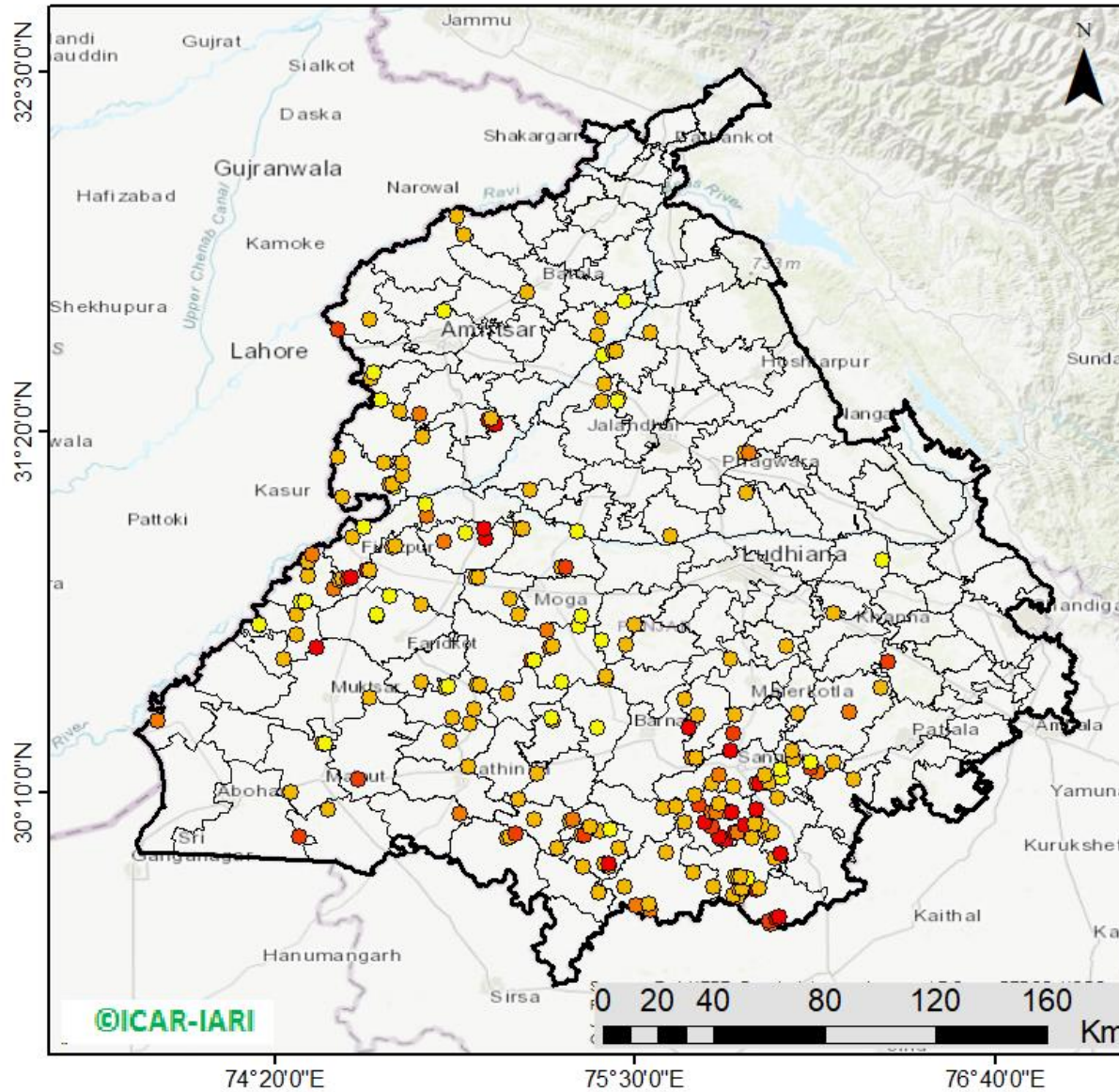
Rajasthan Cumulative





Punjab

RICE RESIDUE BURNING IN PUNJAB



216 burning events
detected in Punjab during
(03rd Nov 2024)

Fire Intensity (W/m²)

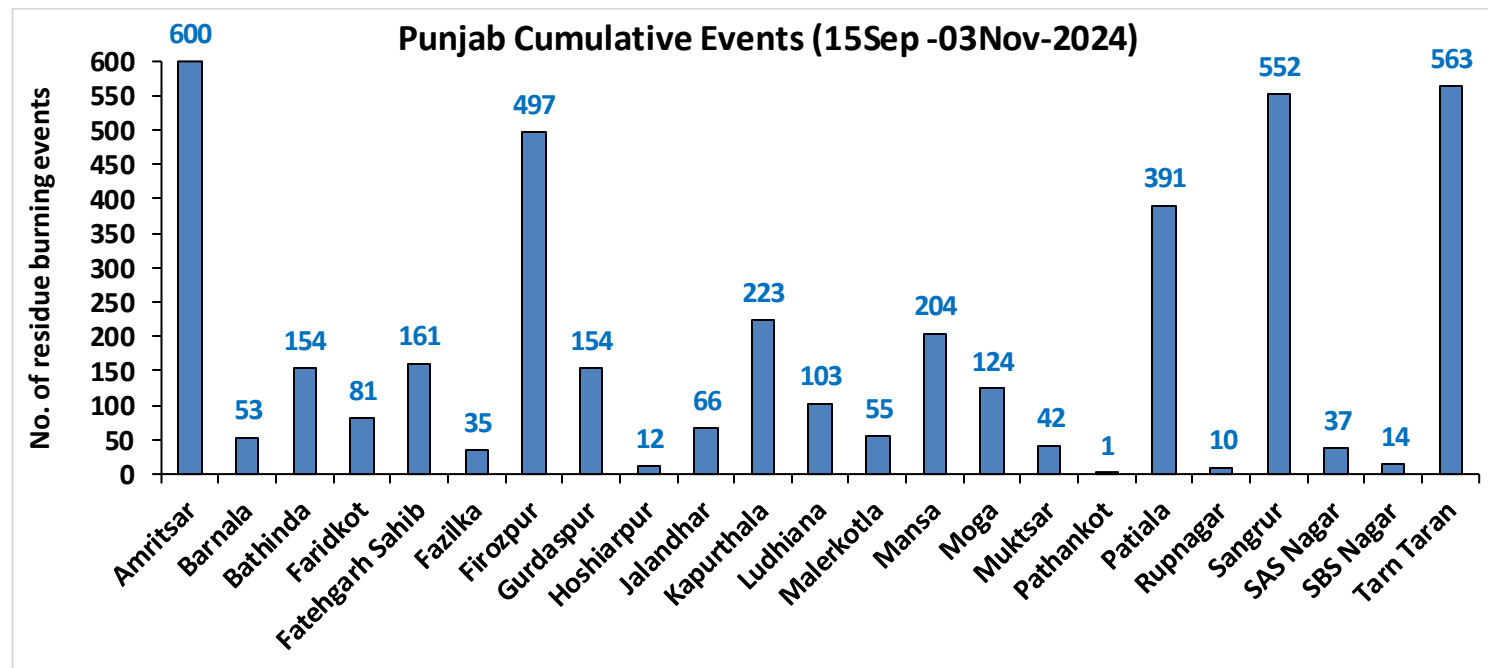
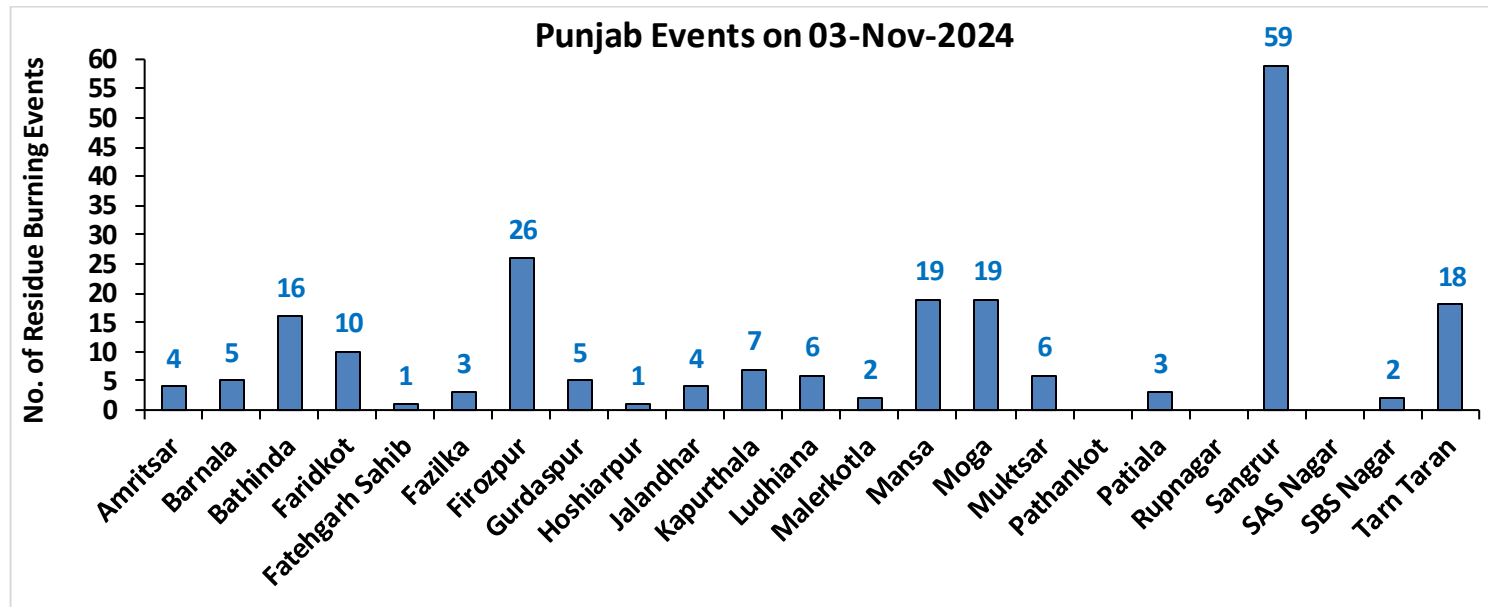
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



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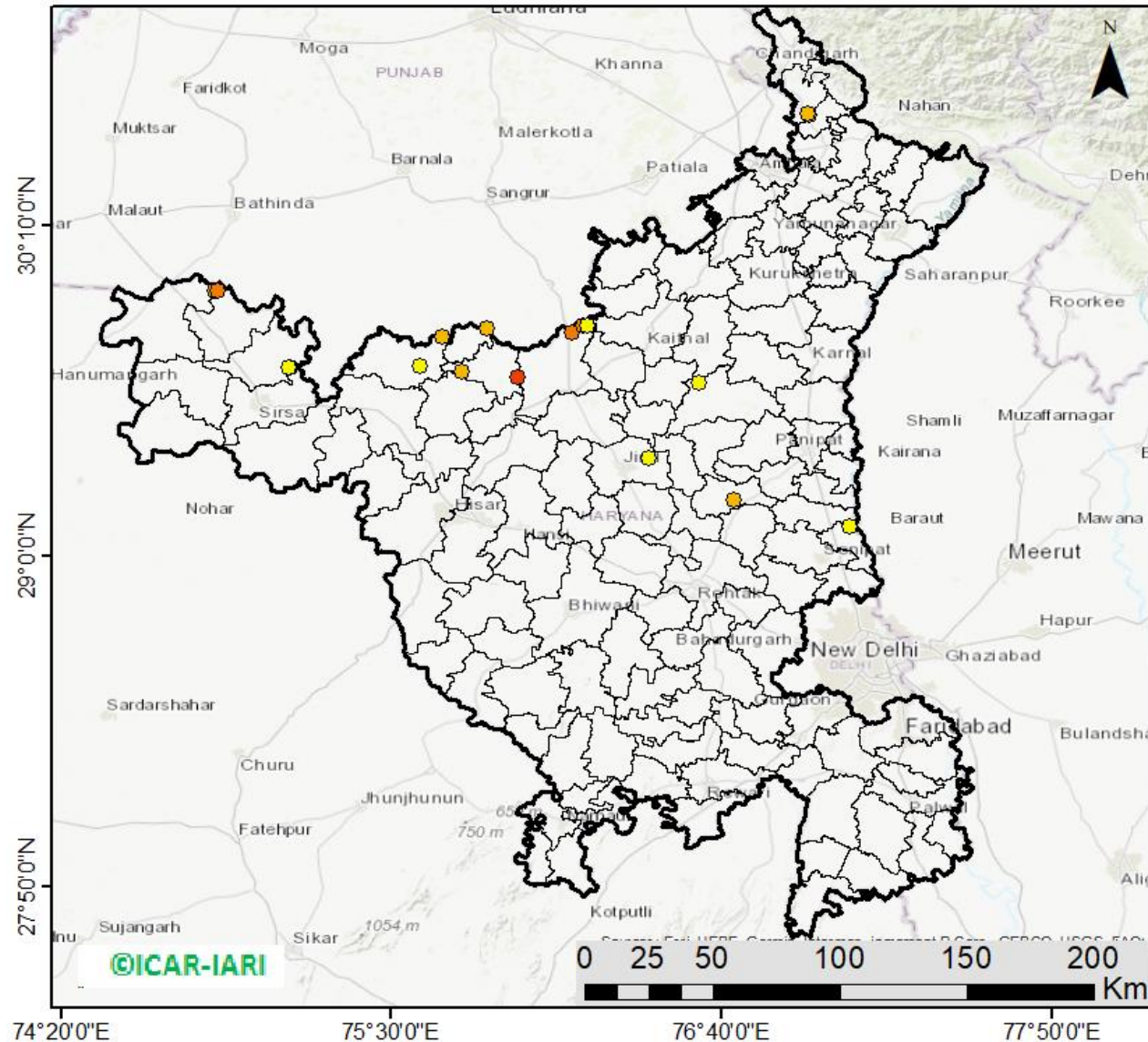
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Punjab (15Sep-03Nov-2024)



Haryana

RICE RESIDUE BURNING IN HARYANA



19 burning events detected in Haryana on (03rd Nov 2024)

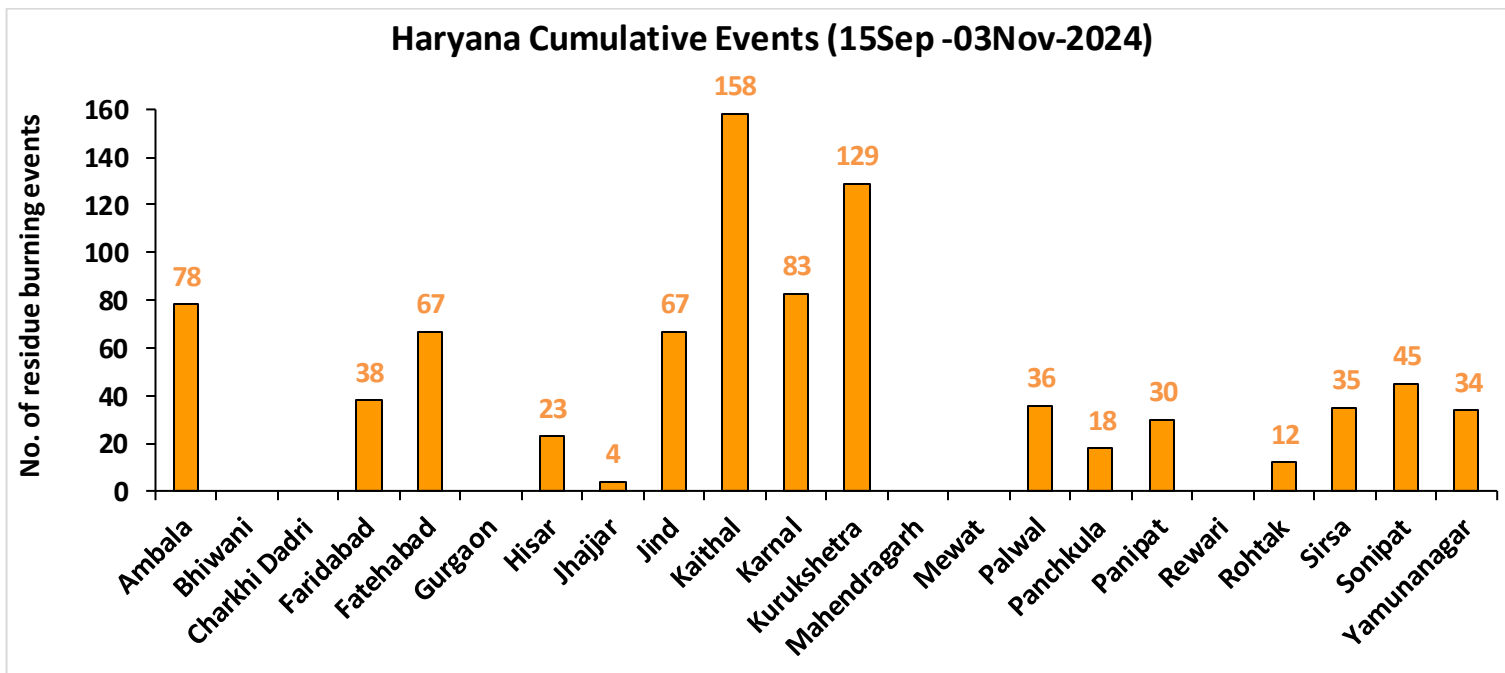
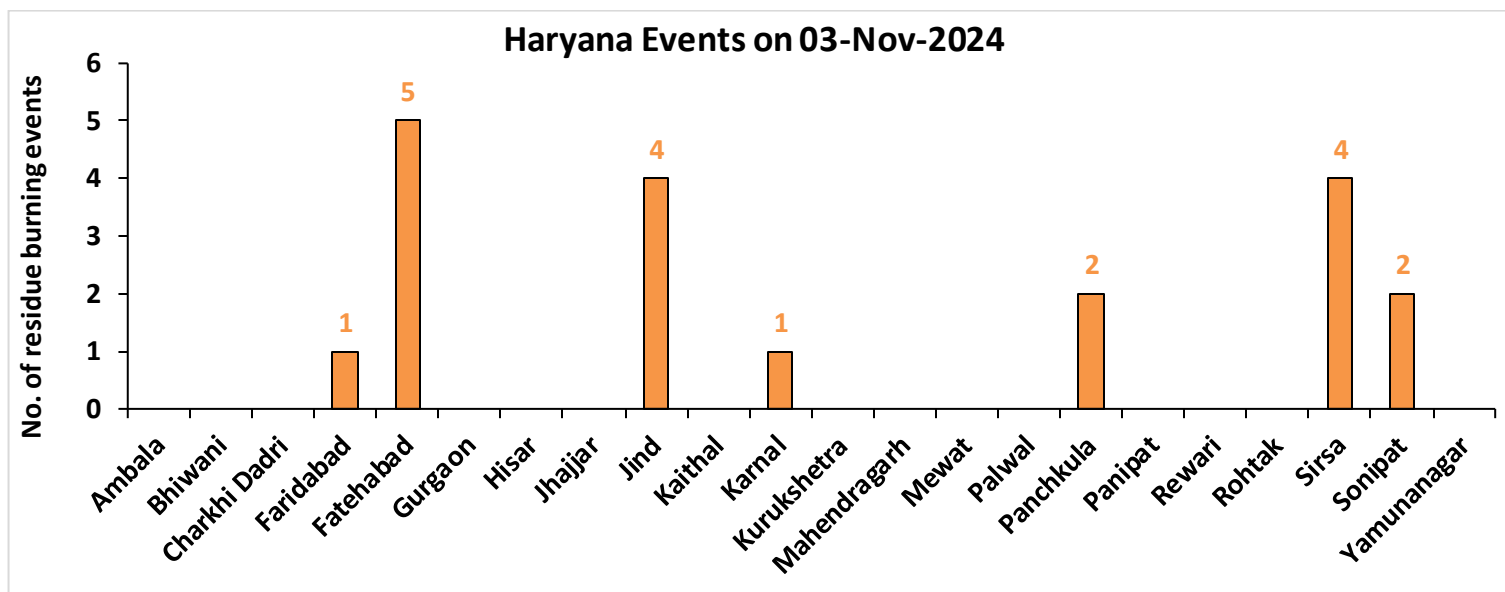
Fire Intensity (W/m²)

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



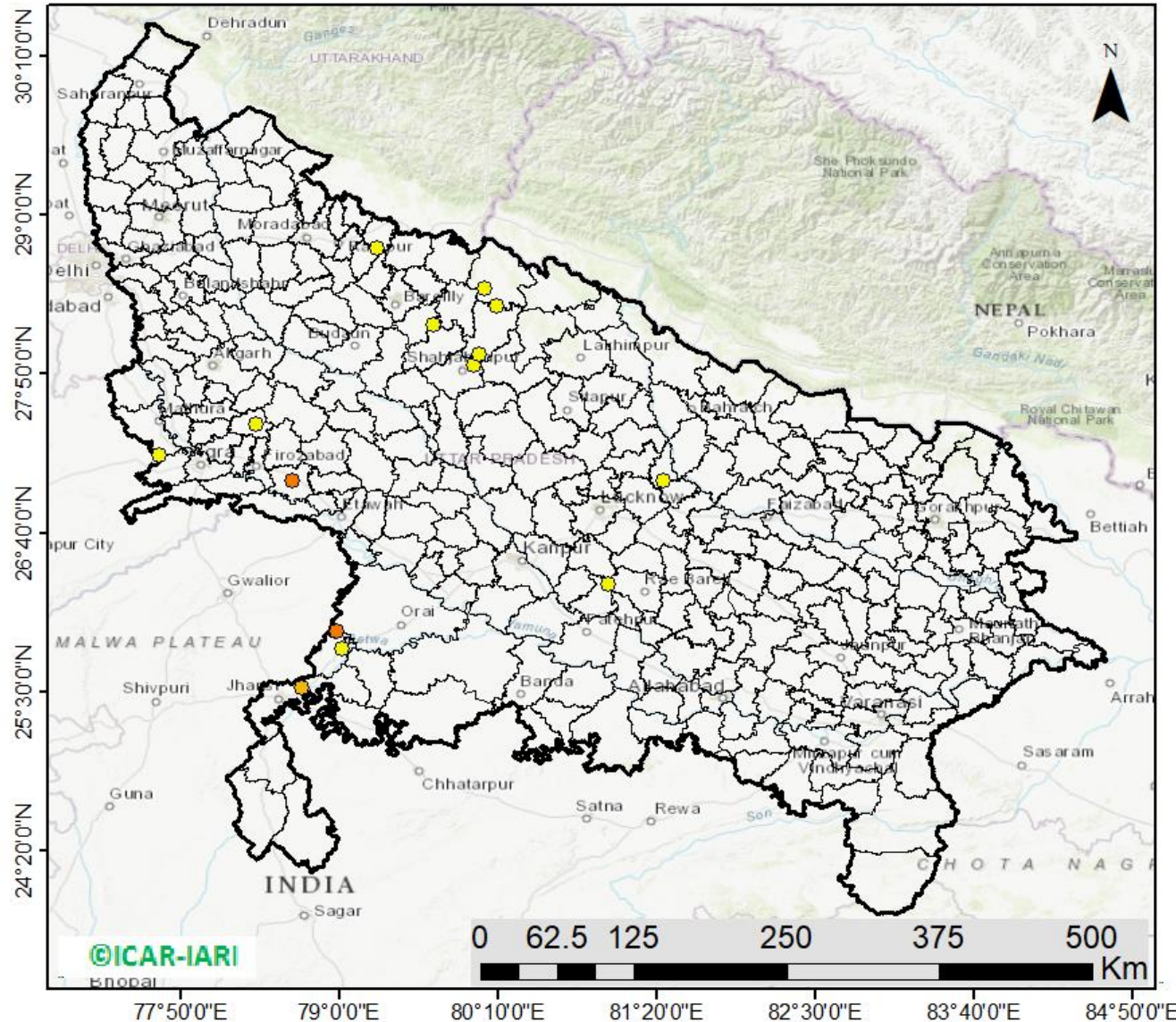
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District-wise cumulative number of residues burning events in Haryana (15Sep-03Nov-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



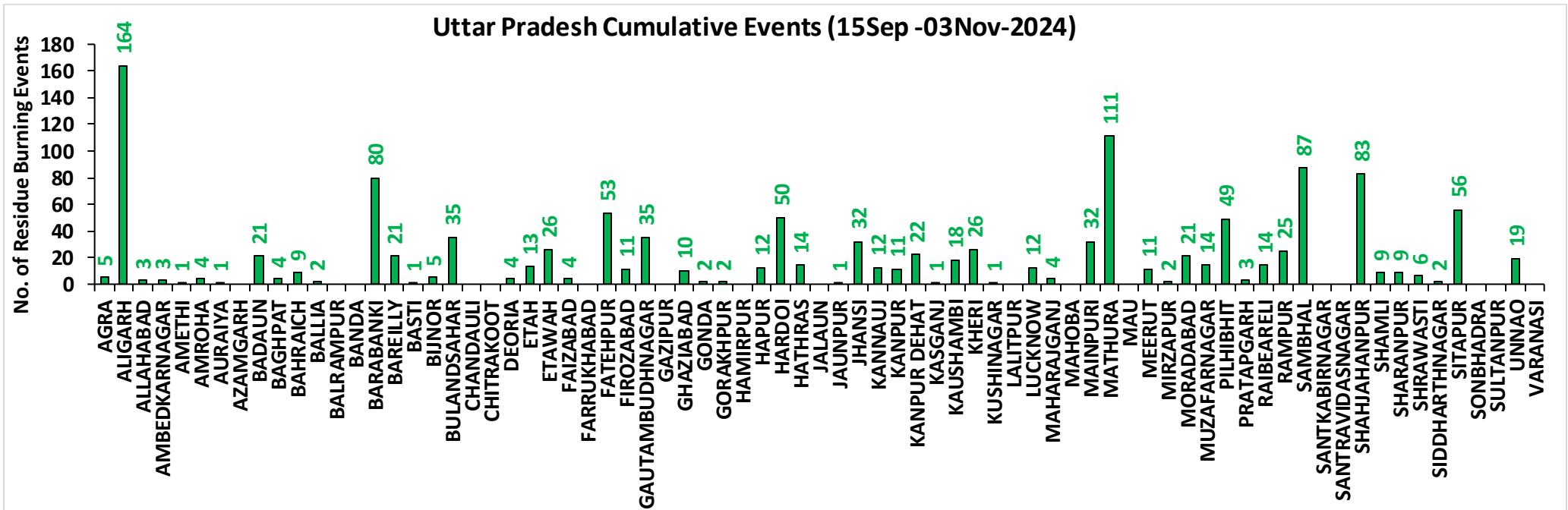
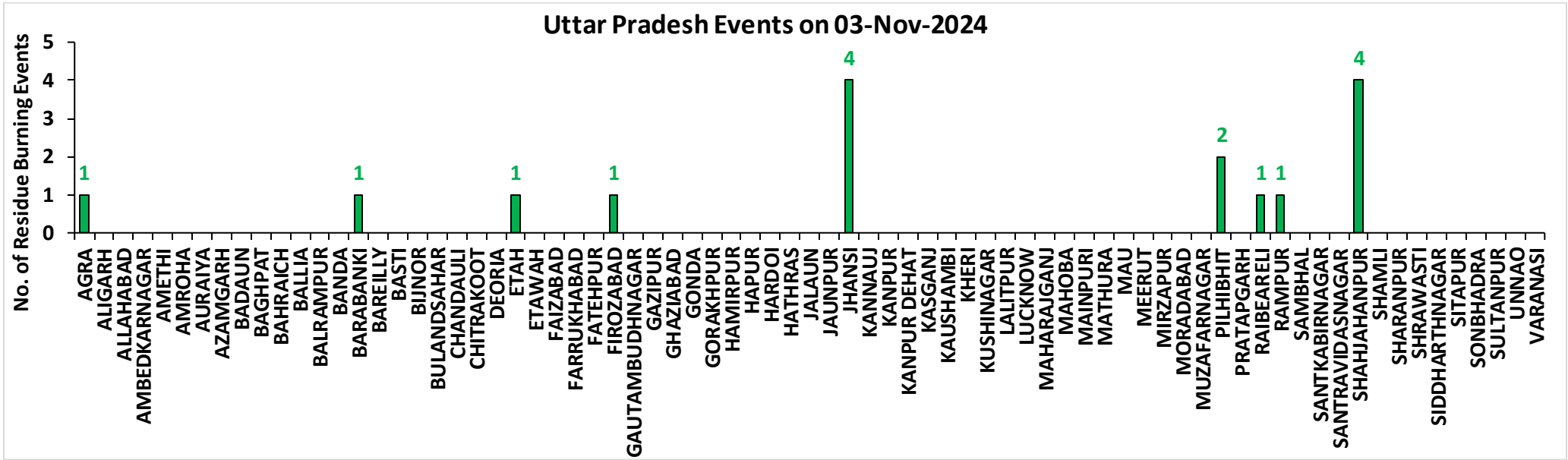
16 burning events detected in Uttar Pradesh on (03rd Nov 2024)

Fire Intensity (W/m²)

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

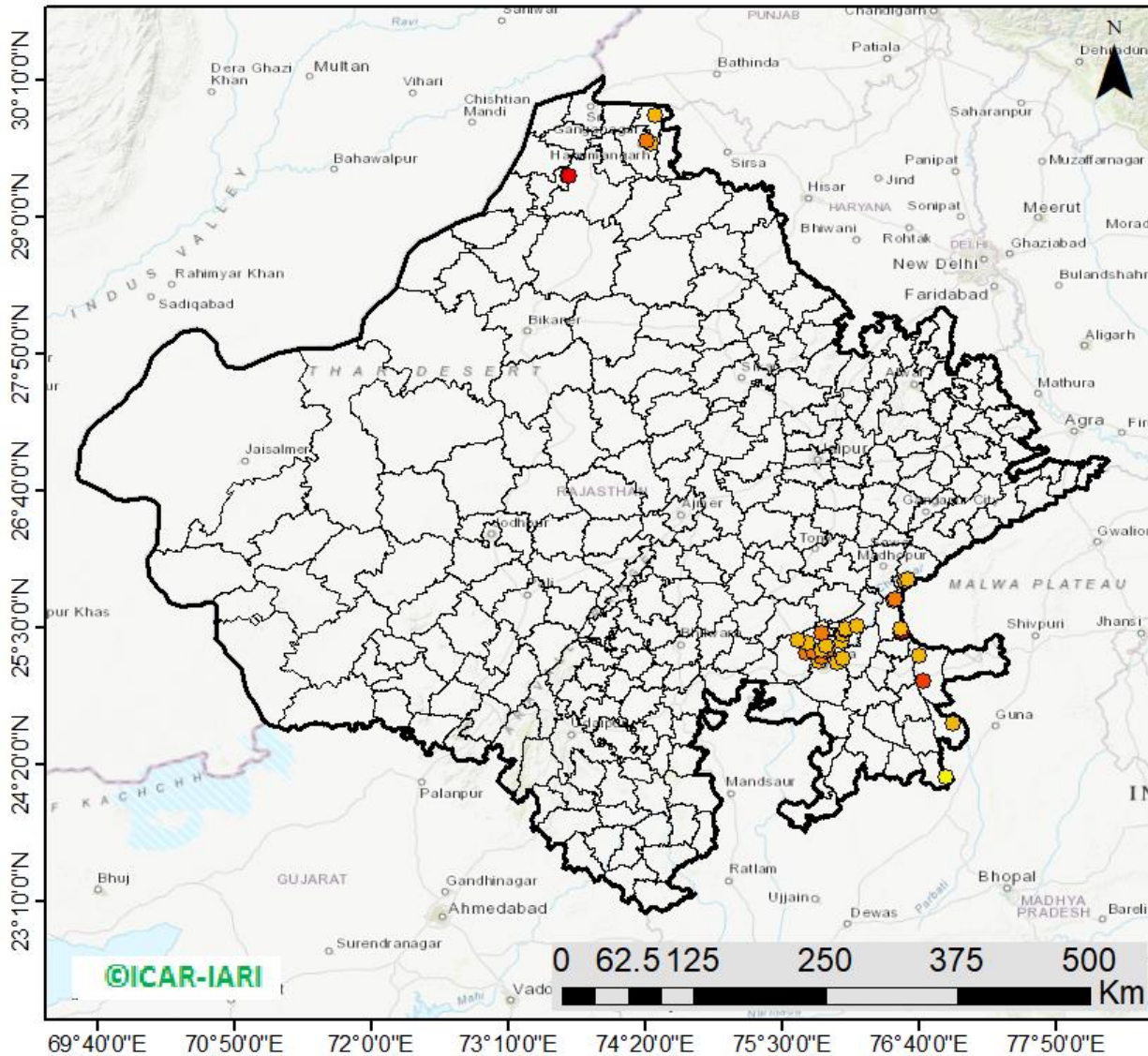
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-03Nov-2024)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



36 burning events
detected in Rajasthan on
(03rd Nov 2024)

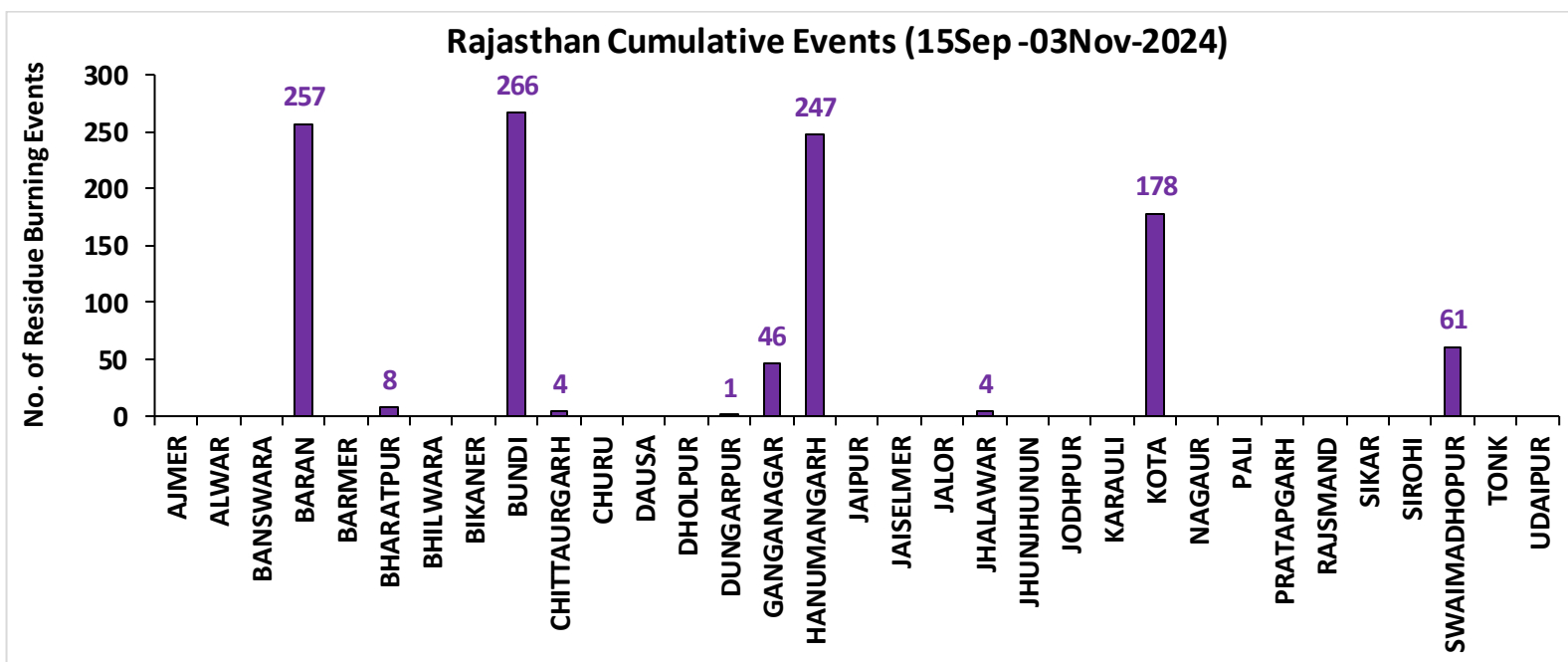
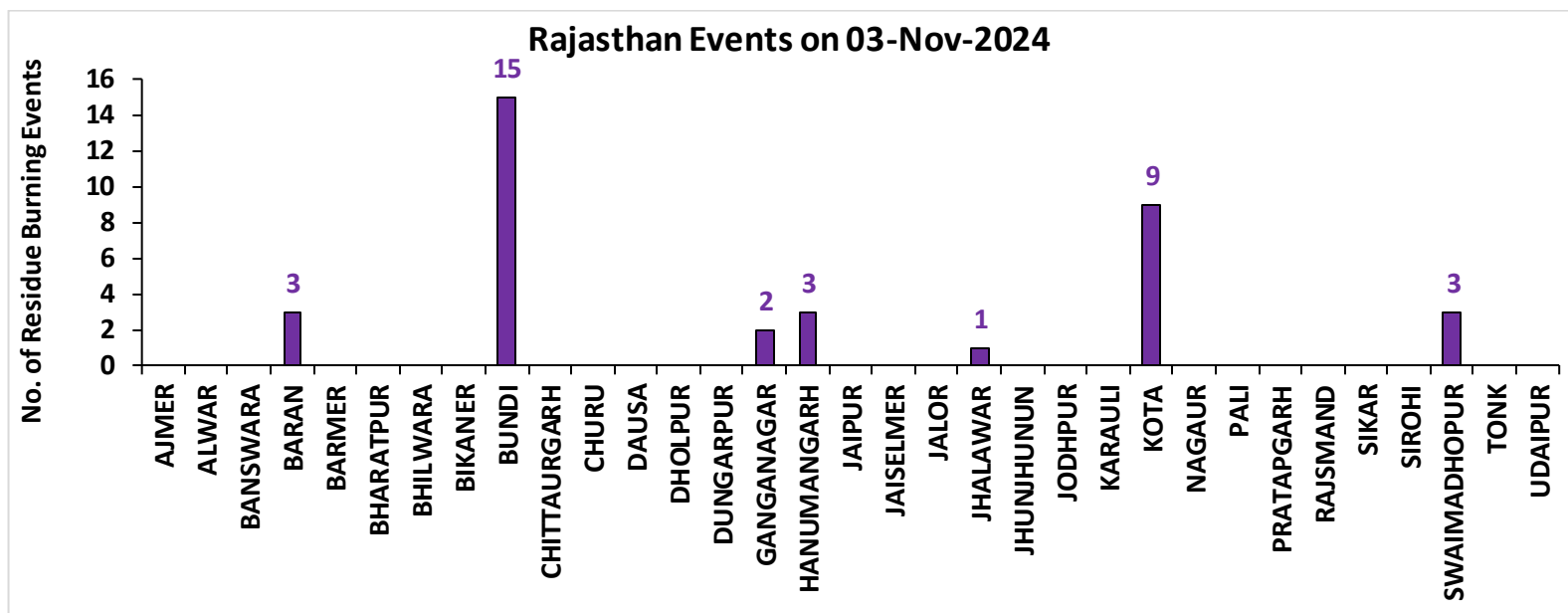
Fire Intensity (W/m²)

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



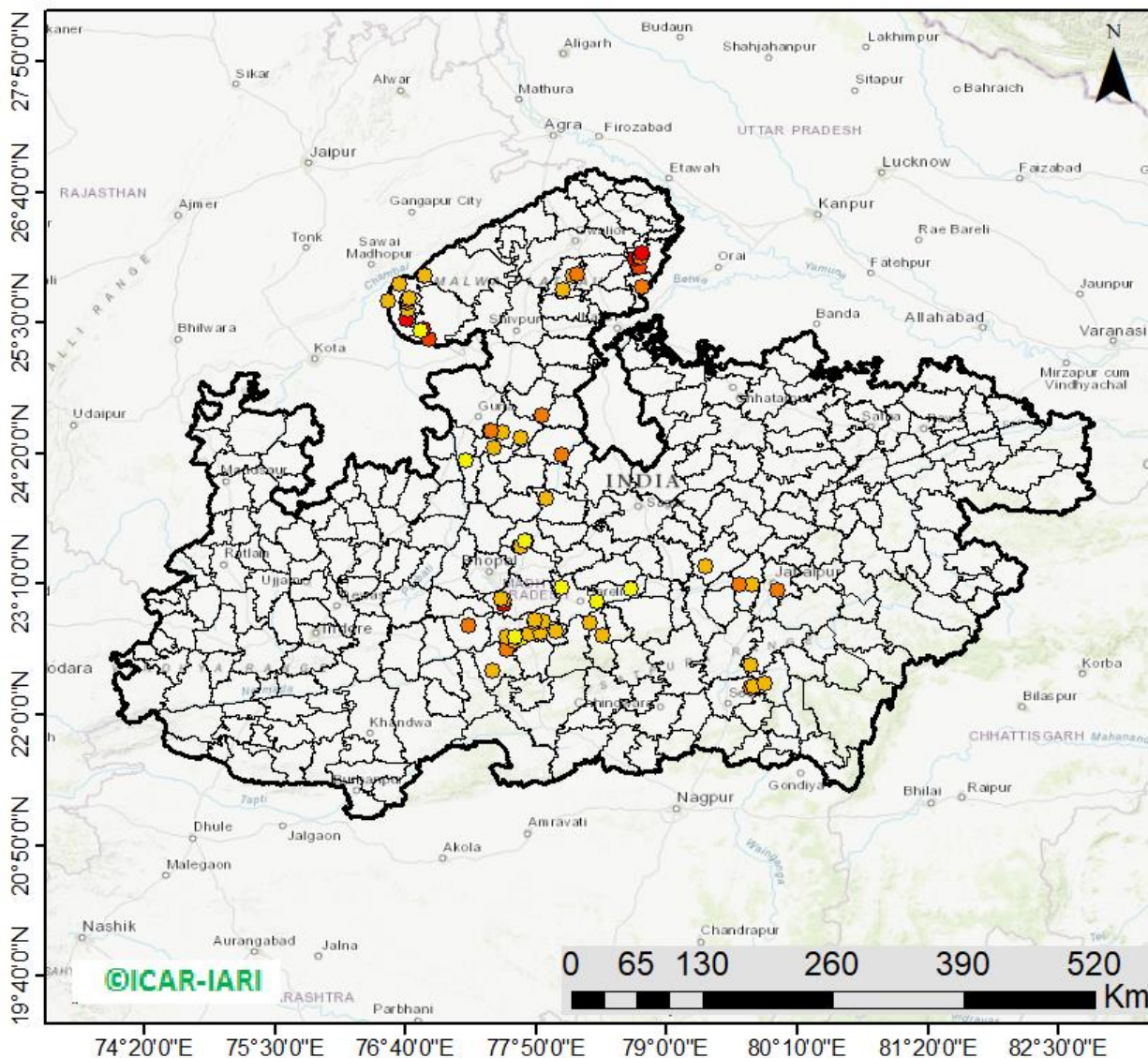
http://103.111.37.126/icar_geoportal/

District-wise cumulative number of residues burning events in Rajasthan (15Sep-03Nov-2024)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



67 burning events
detected in MP on
(03rd Nov 2024)

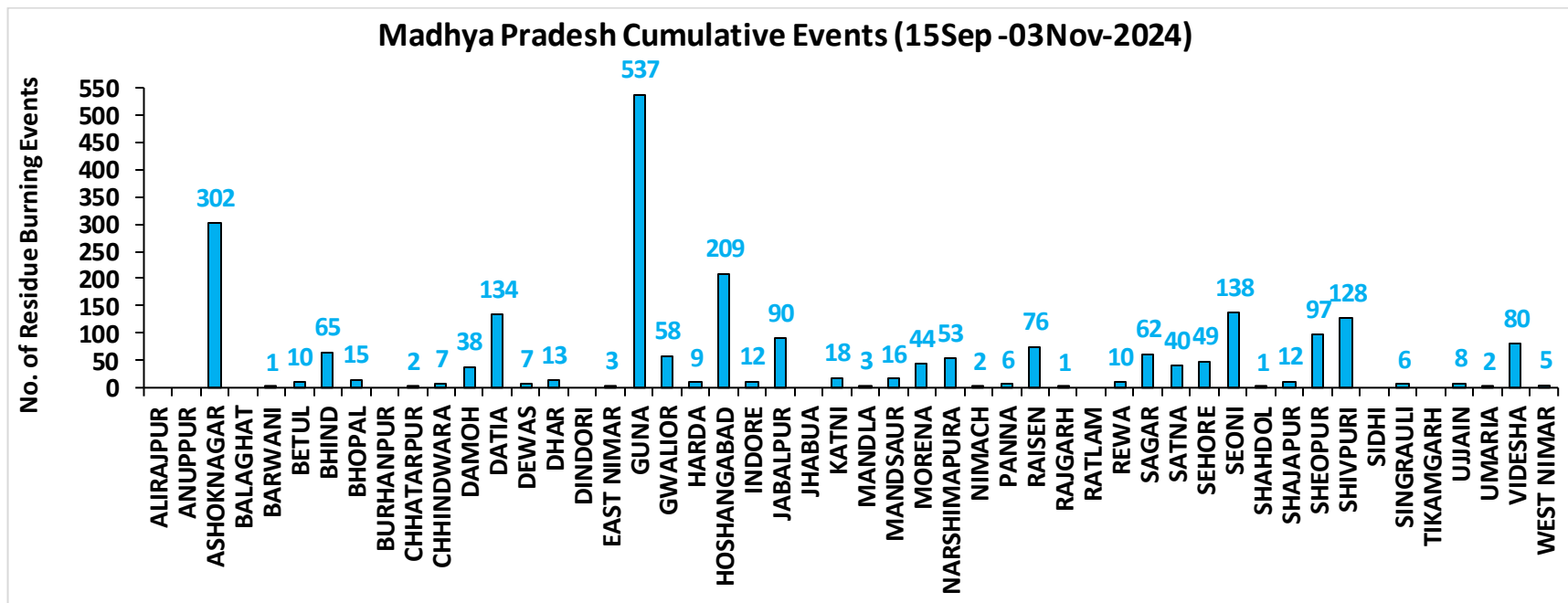
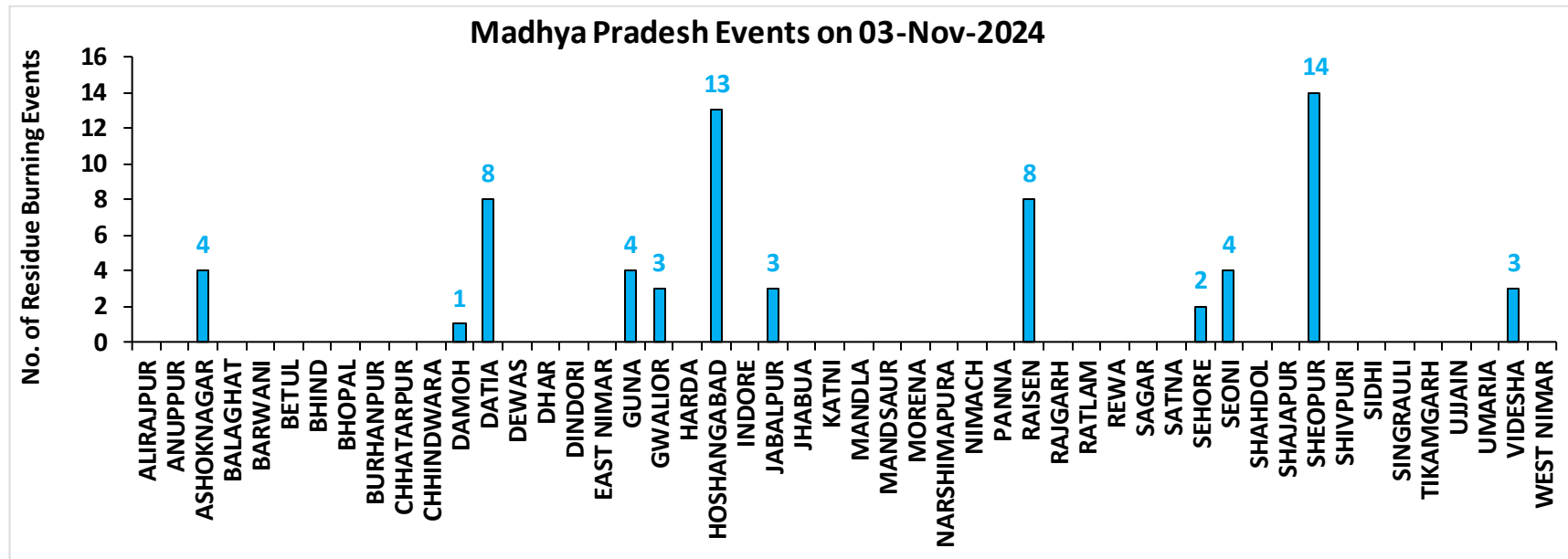
Fire Intensity (W/m²)

- 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-03Nov-2024)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024
(Period: 15 September-03 November)

(a) Punjab

District	15 Sep-03 Nov				
	2020	2021	2022	2023	2024
Amritsar	2859	1356	1418	1353	600
Barnala	1690	1099	1147	296	53
Bathinda	1711	987	1533	517	154
Faridkot	2212	1258	677	450	81
Fatehgarh Sahib	1236	484	930	595	161
Fazilka	434	285	364	118	35
Firozpur	5456	2031	1927	1391	497
Gurdaspur	2048	864	821	261	154
Hoshiarpur	352	191	222	50	12
Jalandhar	1270	861	1014	444	66
Kapurthala	1663	1117	1104	534	223
Ludhiana	2272	1328	1144	560	103
Malerkotla	0	0	0	95	55
Mansa	1314	501	918	843	204
Moga	2122	1003	838	422	124
Muktsar	1734	1010	708	229	42
Pathankot	10	3	0	1	1
Patiala	4424	1546	2588	1043	391
Rupnagar	161	85	202	35	10
Sangrur	5823	1678	3513	1907	552
SAS NAGAR (Mohali)	122	91	93	129	37
SBS Nagar	93	87	138	71	14
Tarn Taran	4988	2713	2847	1469	563
Total	43994	20578	24146	12813	4132

(b) Haryana

District	15 Sep-03 Nov				
	2020	2021	2022	2023	2024
AMBALA	336	214	190	173	78
BHIWANI	3	0	0	2	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	1	2	1	3	38
FATEHABAD	318	506	442	246	67
GURGAON	0	0	0	0	0
HISAR	16	24	44	69	23
JHAJJAR	5	0	1	7	4
JIND	123	254	297	177	67
KAITHAL	654	865	563	195	158
KARNAL	535	763	264	93	83
KURUKSHETRA	398	476	289	141	129
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	42	69	35	55	36
PANCHKULA	0	0	0	1	18
PANIPAT	22	50	29	20	30
REWARI	0	0	0	0	0
ROHTAK	20	0	2	16	12
SIRSA	69	60	81	42	35
SONIPAT	33	26	17	58	45
YAMUNANAGAR	124	129	122	74	34
Total	2699	3438	2377	1372	857

(c) Uttar Pradesh

District	15 Sep-03 Nov																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	9	12	10	9	35	MUZAFARNAGAR	7	3	1	2	14
AGRA	5	0	0	4	5	GAZIPUR	0	0	1	1	0	PILHIBHIT	10	167	102	84	49
ALIGARH	90	36	35	81	164	GHAZIABAD	9	5	3	16	10	PRATAPGARH	11	3	3	6	3
ALLAHABAD	6	4	2	3	3	GONDA	4	0	0	0	2	RAIBARELI	5	4	3	4	14
AMBEDKARNAGAR	3	2	1	0	3	GORAKHPUR	5	3	2	3	2	RAMPUR	102	98	65	68	25
AMETHI	2	2	4	3	1	HAMIRPUR	3	0	0	0	0	SAMBHAL	8	9	11	14	87
AMROHA	4	0	0	2	4	HAPUR	8	3	2	0	12	SANTKABIRNAGAR	4	0	3	4	0
AURAIYA	33	15	9	22	1	HARDOI	47	36	17	55	50	SANTRAVIDASNAGAR	1	0	0	0	0
AZAMGARH	4	0	0	1	0	HATHRAS	0	0	1	2	14	SHAHJAHANPUR	78	287	239	56	83
BADAUN	6	11	0	4	21	JALAUN	8	0	0	0	0	SHAMLI	27	22	6	6	9
BAGHPAT	5	2	2	1	4	JAUNPUR	4	3	0	3	1	SHARANPUR	69	44	12	9	9
BAHRAICH	66	15	8	14	9	JHANSI	58	11	6	71	32	SHRAWASTI	25	8	3	11	6
BALLIA	4	0	0	0	2	KANNAUJ	19	2	1	2	12	SIDDHARTHANAGAR	9	12	0	4	2
BALRAMPUR	22	4	2	4	0	KANPUR	12	24	12	26	11	SITAPUR	36	31	8	13	56
BANDA	2	2	0	0	0	KANPUR DEHAT	39	7	2	45	22	SONBHADRA	0	0	0	0	0
BARABANKI	28	37	32	49	80	KASGANJ	2	2	0	3	1	SULTANPUR	2	1	1	2	0
BAREILLY	39	29	18	31	21	KAUSHAMBI	23	17	8	29	18	UNNAO	20	6	1	20	19
BASTI	11	3	1	2	1	KHERI	88	106	85	20	26	VARANASI	1	0	0	0	0
BIJNOR	11	7	2	6	5	KUSHINAGAR	4	0	3	4	1	Total	1534	1370	842	1102	1288
BULANDSAHAR	33	2	7	8	35	LALITPUR	1	3	3	3	0						
CHANDAUJI	0	0	0	0	0	LUCKNOW	18	12	1	6	12						
CHITRAKOOT	1	3	2	4	0	MAHARAJGANJ	3	8	2	2	4						
DEORIA	14	2	2	2	4	MAHOBA	25	0	0	0	0						
ETAH	14	6	2	16	13	MAINPURI	37	24	14	32	32						
ETAWAH	28	19	9	56	26	MATHURA	121	131	20	86	111						
FAIZABAD	3	0	0	3	4	MAU	0	1	0	0	0						
FARRUKHABAD	3	2	0	1	0	MEERUT	25	6	4	3	11						
FATEHPUR	73	37	37	49	53	MIRZAPUR	6	5	2	0	2						
FIROZABAD	19	11	7	7	11	MORADABAD	12	3	3	5	21						

(d) Delhi

District	15 Sep-03 Nov				
	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	3	0	7	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	9	0	7	2	12

(e) Rajasthan

District	15 Sep-03 Nov				
	2020	2021	2022	2023	2024
AJMER	3	0	0	0	0
ALWAR	7	0	0	0	0
BANSWARA	0	0	0	0	0
BARAN	148	1	51	313	257
BARMER	3	0	0	0	0
BHARATPUR	2	2	1	3	8
BHILWARA	6	0	0	0	0
BIKANER	1	0	0	0	0
BUNDI	106	27	156	189	266
CHITTAURGARH	0	6	3	9	4
CHURU	0	0	0	0	0
DAUSA	1	0	0	0	0
DHOLPUR	0	0	0	0	0
DUNGARPUR	0	0	1	0	1
GANGANAGAR	15	11	27	28	46
HANUMANGARH	331	102	92	135	247
JAIPUR	3	0	0	0	0
JAISELMER	3	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	3	0	5	9	4
JHUNJHUNUN	1	0	0	0	0
JODHPUR	2	0	0	0	0
KARALI	1	0	0	0	0
KOTA	92	13	92	235	178
NAGPUR	0	0	0	0	0
PALI	4	0	0	0	0
PRATAPGARH	6	0	0	0	0
RAJSMAND	1	0	0	0	0
SIKAR	0	0	0	0	0
SIROHI	1	0	0	0	0
SWAIMADHOPUR	53	6	34	57	61
TONK	3	0	0	0	0
UDAIPUR	0	0	0	4	0
Total	796	168	462	982	1072

(f) Madhya Pradesh

District	15 Sep-03 Nov										
	2020	2021	2022	2023	2024	PANNA	29	4	0	6	6
ALIRAJPUR	0	0	0	0	0	RAISEN	294	34	39	125	76
ANUPPUR	0	0	0	0	0	RAJGARH	10	1	3	9	1
ASHOKNAGAR	127	24	49	205	302	RATLAM	1	1	0	1	0
BALAGHAT	0	0	0	0	0	REWA	55	14	6	10	10
BARWANI	1	0	0	0	1	SAGAR	24	22	40	80	62
BETUL	18	9	2	15	10	SATNA	211	45	10	43	40
BHIND	114	9	41	99	65	SEHORE	95	47	68	90	49
BHOPAL	36	16	11	27	15	SEONI	957	606	210	367	138
BURHANPUR	7	1	0	5	0	SHAHDOL	0	0	0	2	1
CHHATARPUR	7	0	0	3	2	SHAJAPUR	7	0	0	12	12
CHHINDWARA	71	28	37	57	7	SHEOPUR	664	54	342	1154	97
DAMOH	58	35	29	51	38	SHIVPURI	123	9	22	89	128
DATIA	606	46	97	399	134	SIDHI	1	2	0	0	0
DEWAS	6	0	0	9	7	SINGRAULI	0	0	1	3	6
DHAR	34	0	0	34	13	TIKAMGARH	4	0	0	5	0
DINDORI	0	0	0	1	0	UJJAIN	5	0	0	14	8
EAST NIMAR	17	6	10	9	3	UMARIA	2	1	0	2	2
GUNA	52	2	66	392	537	VIDESHA	108	28	30	87	80
GWALIOR	698	29	65	151	58	WEST NIMAR	34	2	3	25	5
HARDA	13	19	9	27	9	Total	5864	1642	1579	4457	2369
HOSHANGABAD	753	398	234	554	209						
INDORE	4	0	0	12	12						
JABALPUR	264	50	57	136	90						
JHABUA	0	0	0	0	0						
KATNI	130	5	13	30	18						
MANDLA	47	40	10	12	3						
MANDSAUR	9	0	0	3	16						
MORENA	58	23	14	45	44						
NARSHIMAPURA	109	32	61	56	53						
NIMACH	1	0	0	1	2						

State-wise and date-wise number of paddy residue burning events detected in 2020 ,2021 ,2022, 2023 and 2024
(Period: 15 September-03 November)

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
27-Oct	2563	279	1111	766	138	96	93	83	67	13	40	58	23	97	27
28-Oct	3232	906	2067	127	142	139	149	123	14	13	87	35	34	36	28
29-Oct	1624	1353	1898	1068	219	52	161	112	75	13	139	32	73	48	72
30-Oct	3946	1373	1761	1030	110	100	148	112	52	3	50	53	43	19	47
31-Oct	3531	2895	2131	1389	484	108	353	70	51	42	49	170	20	28	79
01-Nov	3835	1796	1842	1921	587	151	124	88	99	35	74	157	9	95	67
02-Nov	4098	3001	3634	1668	379	111	203	166	48	19	82	87	25	37	87
03-Nov	2818	2512	2666	1551	216	93	197	128	28	19	197	66	40	36	16
Total	43994	20578	24146	12813	4132	2699	3438	2377	1372	857	1534	1370	842	1102	1288

Number of Paddy Residue Burning Events Detected

Date	Delhi					Rajasthan					Madhya Pradesh				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
15-Sep	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
16-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
20-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
21-Sep	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1

22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23-Sep	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep	0	0	0	0	0	1	0	0	0	3	0	0	0	1	0
26-Sep	0	0	0	1	0	1	0	0	0	0	2	0	0	0	2
27-Sep	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
28-Sep	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0
29-Sep	0	0	0	0	0	3	0	0	6	0	0	4	0	5	0
30-Sep	1	0	0	0	0	1	0	0	4	2	5	0	0	11	0
01-Oct	0	0	0	0	0	4	1	1	4	1	13	0	1	8	3
02-Oct	1	0	0	0	0	7	0	3	4	3	12	0	1	1	0
03-Oct	0	0	0	0	0	9	0	2	5	0	5	1	5	5	2
04-Oct	0	0	0	0	0	15	0	0	22	0	4	2	0	12	0
05-Oct	0	0	2	0	0	14	0	1	11	2	13	1	0	18	2
06-Oct	1	0	0	0	0	16	0	0	9	1	37	1	0	7	12
07-Oct	0	0	0	0	0	14	1	1	7	4	31	1	0	9	17
08-Oct	0	0	0	0	0	11	0	0	9	1	17	2	0	18	7
09-Oct	0	0	0	0	0	12	0	0	17	1	15	4	0	24	2
10-Oct	0	0	0	0	3	14	1	0	26	3	18	10	0	52	1
11-Oct	0	0	0	1	0	21	7	1	21	6	32	2	0	24	17
12-Oct	0	0	0	0	2	24	1	2	1	13	44	1	1	1	5
13-Oct	0	0	0	0	1	7	5	2	28	10	21	2	7	32	5
14-Oct	0	0	0	0	1	16	1	1	15	20	15	11	1	26	7
15-Oct	0	0	0	0	0	9	8	2	34	23	8	27	2	66	11
16-Oct	1	0	0	0	1	12	2	4	18	100	23	13	2	51	112
17-Oct	0	0	0	0	0	26	0	4	12	16	63	1	11	31	51
18-Oct	0	0	1	0	3	37	2	12	11	30	88	0	15	13	71
19-Oct	0	0	0	0	0	27	5	12	31	25	49	1	12	65	46
20-Oct	0	0	0	0	0	26	4	4	57	11	9	21	7	131	24
21-Oct	2	0	0	0	0	32	2	6	34	21	112	30	18	147	53
22-Oct	0	0	0	0	0	29	5	12	57	36	183	29	31	119	93
23-Oct	1	0	0	0	0	23	7	20	29	50	204	32	70	89	194
24-Oct	0	0	2	0	0	20	4	7	38	11	150	34	26	132	32
25-Oct	1	0	0	0	0	18	2	4	47	49	144	60	0	159	94
26-Oct	0	0	0	0	1	34	3	21	59	54	178	55	57	320	170
27-Oct	0	0	0	0	0	42	1	21	73	60	294	62	38	256	130
28-Oct	0	0	0	0	0	45	4	46	12	65	537	110	143	202	160

29-Oct	0	0	0	0	0	29	23	37	73	93	349	97	151	372	175
30-Oct	0	0	0	0	0	17	20	55	37	89	428	168	119	224	131
31-Oct	0	0	0	0	0	37	15	36	33	85	455	299	112	360	145
01-Nov	0	0	1	0	0	51	5	27	60	68	709	198	142	509	226
02-Nov	0	0	0	0	0	55	19	63	40	80	820	214	284	401	296
03-Nov	1	0	1	0	0	34	20	54	38	36	771	148	323	552	67
Total	9	0	7	2	12	796	168	462	982	1072	5864	1642	1579	4457	2369

Details of residue burning events in Punjab on 03-Nov-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	AQUA	32.03500	74.92200	14:31:00	D	5.20
2	AMRITSAR	CHOGAWAN	AQUA	31.66800	74.54000	14:31:00	D	16.90
3	AMRITSAR	CHOGAWAN	AQUA	31.70000	74.64000	14:31:00	D	7.20
4	AMRITSAR	VERKA	AQUA	31.72500	74.88200	14:31:00	D	4.30
5	BARNALA	BARNALA	AQUA	30.27700	75.68700	14:31:00	D	12.60
6	BARNALA	BARNALA	AQUA	30.27900	75.69700	14:31:00	D	9.50
7	BARNALA	BARNALA	AQUA	30.37600	75.67400	14:31:00	D	22.40
8	BARNALA	BARNALA	AQUA	30.46800	75.66100	14:31:00	D	5.50
9	BARNALA	SEHNA	AQUA	30.37400	75.37700	14:31:00	D	5.00
10	BATHINDA	BATHINDA	AQUA	30.25100	74.96300	14:31:00	D	6.30
11	BATHINDA	BHAGTA BHAI KA	AQUA	30.48900	75.08500	14:31:00	D	8.70
12	BATHINDA	GONIANA MANDI	AQUA	30.33500	74.89900	14:31:00	D	5.50
13	BATHINDA	GONIANA MANDI	AQUA	30.39100	74.96600	14:31:00	D	9.40
14	BATHINDA	MAUR	AQUA	29.98800	75.25100	14:31:00	D	6.60
15	BATHINDA	MAUR	AQUA	30.07600	75.29200	14:31:00	D	7.50
16	BATHINDA	MAUR	AQUA	30.07700	75.30200	14:31:00	D	10.90
17	BATHINDA	MAUR	AQUA	30.07800	75.17600	14:31:00	D	8.80
18	BATHINDA	NATHANA	AQUA	30.22600	75.18400	14:31:00	D	5.20
19	BATHINDA	PHUL	AQUA	30.40000	75.23400	14:31:00	D	5.10
20	BATHINDA	PHUL	AQUA	30.40900	75.23200	14:31:00	D	4.80
21	BATHINDA	RAMPURA	AQUA	30.14600	75.12500	14:31:00	D	6.70
22	BATHINDA	SANGAT	AQUA	30.09800	74.93100	14:31:00	D	10.40

23	BATHINDA	TALWANDI SABO	AQUA	30.01900	75.08700	14:31:00	D	7.70
24	BATHINDA	TALWANDI SABO	AQUA	30.02100	75.09800	14:31:00	D	6.10
25	BATHINDA	TALWANDI SABO	AQUA	30.03200	75.11600	14:31:00	D	16.00
26	FARIDKOT	FARIDKOT	AQUA	30.73600	74.66600	14:31:00	D	9.60
27	FARIDKOT	FARIDKOT	AQUA	30.74500	74.66400	14:31:00	D	4.00
28	FARIDKOT	FARIDKOT	AQUA	30.77400	74.80600	14:31:00	D	5.80
29	FARIDKOT	FARIDKOT	AQUA	30.80500	74.70500	14:31:00	D	4.60
30	FARIDKOT	JAITON	AQUA	30.41000	74.91000	14:31:00	D	7.00
31	FARIDKOT	JAITON	AQUA	30.43800	74.97800	14:31:00	D	5.70
32	FARIDKOT	JAITON	AQUA	30.50800	74.88500	14:31:00	D	8.60
33	FARIDKOT	JAITON	AQUA	30.51000	74.89500	14:31:00	D	4.00
34	FARIDKOT	JAITON	AQUA	30.51400	74.98900	14:31:00	D	8.50
35	FARIDKOT	KOT KAPURA	AQUA	30.52500	74.80800	14:31:00	D	7.40
36	FATEHGARH SAHIB	SIRHIND	AQUA	30.59100	76.32300	14:31:00	D	16.20
37	FAZILKA	ABOHAR	AQUA	30.02400	74.41500	14:31:00	D	15.20
38	FAZILKA	FAZILKA	AQUA	30.40100	73.95600	14:31:00	D	13.30
39	FAZILKA	GURUHAR SAHAI	AQUA	30.60100	74.36300	14:31:00	D	9.10
40	FIROZPUR	FIROZPUR	AQUA	30.82700	74.52600	14:31:00	D	13.40
41	FIROZPUR	FIROZPUR	AQUA	30.85600	74.54200	14:31:00	D	5.90
42	FIROZPUR	FIROZPUR	AQUA	30.85800	74.55200	14:31:00	D	5.30
43	FIROZPUR	FIROZPUR	AQUA	30.86100	74.57200	14:31:00	D	15.80
44	FIROZPUR	FIROZPUR	AQUA	30.86200	74.58200	14:31:00	D	32.00
45	FIROZPUR	FIROZPUR	AQUA	30.88700	74.63000	14:31:00	D	23.70
46	FIROZPUR	FIROZPUR	AQUA	30.88800	74.64000	14:31:00	D	5.30
47	FIROZPUR	FIROZPUR	AQUA	30.99300	74.58700	14:31:00	D	5.90
48	FIROZPUR	FIROZPUR	AQUA	31.02500	74.62300	14:31:00	D	4.70
49	FIROZPUR	FIROZPUR	AQUA	31.09800	74.82000	14:31:00	D	4.40
50	FIROZPUR	GHALL KHURD	AQUA	30.96300	74.71500	14:31:00	D	9.50
51	FIROZPUR	GHALL KHURD	AQUA	30.96500	74.72500	14:31:00	D	8.80
52	FIROZPUR	GURUHAR SAHAI	AQUA	30.63400	74.47100	14:31:00	D	25.00
53	FIROZPUR	GURUHAR SAHAI	AQUA	30.68000	74.40500	14:31:00	D	8.60
54	FIROZPUR	GURUHAR SAHAI	AQUA	30.70800	74.28400	14:31:00	D	4.50
55	FIROZPUR	GURUHAR SAHAI	AQUA	30.74300	74.40300	14:31:00	D	8.90

56	FIROZPUR	MAKHU	AQUA	31.06300	74.82700	14:31:00	D	10.10
57	FIROZPUR	MAMDOT	AQUA	30.78500	74.41900	14:31:00	D	4.40
58	FIROZPUR	MAMDOT	AQUA	30.78600	74.43000	14:31:00	D	4.40
59	FIROZPUR	MAMDOT	AQUA	30.87000	74.43900	14:31:00	D	5.60
60	FIROZPUR	MAMDOT	AQUA	30.91500	74.44000	14:31:00	D	7.50
61	FIROZPUR	MAMDOT	AQUA	30.93600	74.45700	14:31:00	D	10.30
62	FIROZPUR	ZIRA	AQUA	30.97800	74.88100	14:31:00	D	12.70
63	FIROZPUR	ZIRA	AQUA	30.98800	75.01800	14:31:00	D	20.80
64	FIROZPUR	ZIRA	AQUA	31.00500	74.95000	14:31:00	D	4.50
65	FIROZPUR	ZIRA	AQUA	31.02300	75.01100	14:31:00	D	21.60
66	GURDASPUR	BATALA	AQUA	31.78900	75.15100	14:31:00	D	9.80
67	GURDASPUR	DERA BABA NANAK	AQUA	31.97500	74.94500	14:31:00	D	5.20
68	GURDASPUR	QADIAN	AQUA	31.75800	75.46500	14:31:00	D	4.40
69	GURDASPUR	SRI HARGOBINDPUR	AQUA	31.64600	75.38100	14:31:00	D	5.80
70	GURDASPUR	SRI HARGOBINDPUR	AQUA	31.70300	75.39200	14:31:00	D	7.80
71	HOSHIARPUR	TANDA	AQUA	31.65900	75.55100	14:31:00	D	6.90
72	JALANDHAR	LOHIAN	AQUA	31.14600	75.16300	14:31:00	D	6.40
73	JALANDHAR	NUR MAHAL	AQUA	30.99600	75.61600	14:31:00	D	8.40
74	JALANDHAR	PHILLAUR	AQUA	31.13900	75.86100	14:31:00	D	7.00
75	JALANDHAR	SHAHKOT	AQUA	31.01000	75.31300	14:31:00	D	5.00
76	KAPURTHALA	DHILWAN	AQUA	31.44300	75.44800	14:31:00	D	6.70
77	KAPURTHALA	DHILWAN	AQUA	31.49200	75.40000	14:31:00	D	7.20
78	KAPURTHALA	DHILWAN	S-NPP	31.43371	75.44483	02:05:59	N	0.40
79	KAPURTHALA	KAPURTHALA	AQUA	31.43500	75.39500	14:31:00	D	5.30
80	KAPURTHALA	NADALA	AQUA	31.58300	75.39900	14:31:00	D	4.70
81	KAPURTHALA	NADALA	AQUA	31.59700	75.42900	14:31:00	D	5.50
82	KAPURTHALA	NADALA	AQUA	31.59800	75.44000	14:31:00	D	5.40
83	LUDHIANA	JAGRAON	AQUA	30.66100	75.39200	14:31:00	D	4.60
84	LUDHIANA	JAGRAON	AQUA	30.71200	75.50100	14:31:00	D	8.30
85	LUDHIANA	KHANNA	S-NPP	30.74870	76.14478	02:05:59	N	7.30
86	LUDHIANA	MACHHIWARA	AQUA	30.92100	76.30300	14:31:00	D	5.00
87	LUDHIANA	MALoud	AQUA	30.64000	75.99200	14:31:00	D	8.80
88	LUDHIANA	RAIKOT	AQUA	30.64400	75.47000	14:31:00	D	6.90

89	MALERKOTLA	AHMEDGARH	AQUA	30.59800	75.81100	14:31:00	D	7.60
90	MALERKOTLA	AMARGARH	AQUA	30.42400	76.02700	14:31:00	D	5.50
91	MANSA	BHIKHI	AQUA	30.11700	75.59300	14:31:00	D	6.40
92	MANSA	BUDHLADA	AQUA	29.78800	75.55000	14:31:00	D	13.10
93	MANSA	BUDHLADA	AQUA	29.80000	75.50500	14:31:00	D	14.10
94	MANSA	BUDHLADA	AQUA	29.80600	75.54600	14:31:00	D	7.80
95	MANSA	BUDHLADA	AQUA	29.86000	75.46600	14:31:00	D	7.70
96	MANSA	BUDHLADA	AQUA	29.86300	75.75400	14:31:00	D	7.00
97	MANSA	BUDHLADA	AQUA	29.90900	75.69200	14:31:00	D	9.60
98	MANSA	BUDHLADA	AQUA	29.97000	75.60000	14:31:00	D	7.00
99	MANSA	JHUNIR	AQUA	29.84000	75.38500	14:31:00	D	5.80
100	MANSA	MANSA	AQUA	29.92400	75.33200	14:31:00	D	9.60
101	MANSA	MANSA	AQUA	29.92700	75.41600	14:31:00	D	6.40
102	MANSA	MANSA	AQUA	29.93400	75.40400	14:31:00	D	7.30
103	MANSA	MANSA	AQUA	29.93600	75.41500	14:31:00	D	28.20
104	MANSA	MANSA	AQUA	29.98600	75.44800	14:31:00	D	7.00
105	MANSA	MANSA	AQUA	30.02600	75.32800	14:31:00	D	8.80
106	MANSA	MANSA	AQUA	30.02700	75.33900	14:31:00	D	19.70
107	MANSA	MANSA	AQUA	30.04300	75.38800	14:31:00	D	6.20
108	MANSA	MANSA	AQUA	30.04700	75.42000	14:31:00	D	5.00
109	MANSA	MANSA	AQUA	30.05700	75.35400	14:31:00	D	6.50
110	MOGA	BAGHA PURANA	AQUA	30.51500	74.99900	14:31:00	D	6.00
111	MOGA	BAGHA PURANA	AQUA	30.59300	75.16500	14:31:00	D	16.30
112	MOGA	BAGHA PURANA	AQUA	30.59400	75.17500	14:31:00	D	4.70
113	MOGA	BAGHA PURANA	AQUA	30.63800	75.22500	14:31:00	D	11.30
114	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	30.89400	75.26500	14:31:00	D	8.80
115	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	30.89500	75.27600	14:31:00	D	16.90
116	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	31.02100	75.12900	14:31:00	D	8.30
117	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	31.02300	75.13900	14:31:00	D	6.20
118	MOGA	MOGA 1	AQUA	30.70600	75.31900	14:31:00	D	4.80
119	MOGA	MOGA 1	AQUA	30.73600	75.32900	14:31:00	D	4.50
120	MOGA	MOGA 2	AQUA	30.74400	75.12400	14:31:00	D	7.00
121	MOGA	MOGA 2	AQUA	30.79600	75.09800	14:31:00	D	7.30

122	MOGA	MOGA 2	AQUA	30.86400	74.98300	14:31:00	D	5.30
123	MOGA	MOGA 2	AQUA	30.86500	74.99300	14:31:00	D	5.60
124	MOGA	NIHAL SINGH	AQUA	30.52400	75.26200	14:31:00	D	4.40
125	MOGA	NIHAL SINGH	AQUA	30.53300	75.40600	14:31:00	D	9.70
126	MOGA	NIHAL SINGH	AQUA	30.54400	75.40800	14:31:00	D	5.60
127	MOGA	NIHAL SINGH	AQUA	30.64000	75.23500	14:31:00	D	6.60
128	MOGA	NIHAL SINGH	AQUA	30.69100	75.21500	14:31:00	D	12.90
129	MUKTSAR	KOT BHAI AT GIDDERBAHA	AQUA	30.20900	74.60600	14:31:00	D	17.30
130	MUKTSAR	KOT BHAI AT GIDDERBAHA	AQUA	30.47400	74.64000	14:31:00	D	6.00
131	MUKTSAR	LAMBI	AQUA	30.11200	74.50600	14:31:00	D	7.50
132	MUKTSAR	MALOUT	AQUA	30.16800	74.38500	14:31:00	D	9.70
133	MUKTSAR	MALOUT	AQUA	30.32300	74.48800	14:31:00	D	10.20
134	MUKTSAR	MALOUT	AQUA	30.32400	74.49800	14:31:00	D	5.00
135	PATIALA	NABHA	AQUA	30.42700	76.19400	14:31:00	D	10.50
136	PATIALA	NABHA	AQUA	30.50500	76.29800	14:31:00	D	7.00
137	PATIALA	SAMANA	AQUA	30.20800	76.21100	14:31:00	D	6.20
138	SANGRUR	ANDANA	AQUA	29.74000	75.93900	14:31:00	D	13.40
139	SANGRUR	ANDANA	AQUA	29.74900	75.93800	14:31:00	D	15.40
140	SANGRUR	ANDANA	AQUA	29.76100	75.95700	14:31:00	D	29.50
141	SANGRUR	ANDANA	AQUA	29.76200	75.96800	14:31:00	D	47.60
142	SANGRUR	ANDANA	AQUA	29.85300	75.89200	14:31:00	D	27.40
143	SANGRUR	ANDANA	AQUA	29.85400	75.90200	14:31:00	D	6.20
144	SANGRUR	BHAWANIGARH	AQUA	30.14900	75.96200	14:31:00	D	9.90
145	SANGRUR	BHAWANIGARH	AQUA	30.20000	75.93600	14:31:00	D	5.90
146	SANGRUR	BHAWANIGARH	AQUA	30.21400	75.97700	14:31:00	D	5.00
147	SANGRUR	BHAWANIGARH	AQUA	30.23000	76.09600	14:31:00	D	10.30
148	SANGRUR	BHAWANIGARH	AQUA	30.24200	75.97200	14:31:00	D	4.90
149	SANGRUR	BHAWANIGARH	AQUA	30.24500	76.07100	14:31:00	D	18.80
150	SANGRUR	BHAWANIGARH	AQUA	30.26400	76.07200	14:31:00	D	4.30
151	SANGRUR	BHAWANIGARH	AQUA	30.26500	76.14500	14:31:00	D	8.30
152	SANGRUR	BHAWANIGARH	AQUA	30.27500	76.01500	14:31:00	D	5.60
153	SANGRUR	BHAWANIGARH	AQUA	30.30200	76.01000	14:31:00	D	8.10
154	SANGRUR	DHURI	AQUA	30.30400	75.81200	14:31:00	D	48.40

155	SANGRUR	DHURI	AQUA	30.35900	75.81800	14:31:00	D	16.50
156	SANGRUR	DHURI	AQUA	30.41600	75.82300	14:31:00	D	7.00
157	SANGRUR	DIRBA	AQUA	29.96600	75.97400	14:31:00	D	34.60
158	SANGRUR	DIRBA	AQUA	30.03500	75.94500	14:31:00	D	9.40
159	SANGRUR	LEHRA GAGA	AQUA	29.82600	75.83200	14:31:00	D	5.40
160	SANGRUR	LEHRA GAGA	AQUA	29.83400	75.81900	14:31:00	D	8.40
161	SANGRUR	LEHRA GAGA	AQUA	29.85500	75.83700	14:31:00	D	5.50
162	SANGRUR	LEHRA GAGA	AQUA	29.85600	75.84800	14:31:00	D	5.20
163	SANGRUR	LEHRA GAGA	AQUA	29.88700	75.86800	14:31:00	D	4.80
164	SANGRUR	LEHRA GAGA	AQUA	29.89100	75.82400	14:31:00	D	4.80
165	SANGRUR	LEHRA GAGA	AQUA	29.89200	75.83500	14:31:00	D	5.40
166	SANGRUR	LEHRA GAGA	AQUA	29.89300	75.84500	14:31:00	D	5.80
167	SANGRUR	LEHRA GAGA	AQUA	29.95400	75.95400	14:31:00	D	5.70
168	SANGRUR	LEHRA GAGA	AQUA	30.01800	75.88200	14:31:00	D	6.40
169	SANGRUR	SANGRUR	AQUA	30.18400	75.81800	14:31:00	D	7.40
170	SANGRUR	SANGRUR	AQUA	30.19300	75.75200	14:31:00	D	7.40
171	SANGRUR	SANGRUR	AQUA	30.19400	75.89300	14:31:00	D	11.70
172	SANGRUR	SANGRUR	AQUA	30.19500	75.90400	14:31:00	D	32.80
173	SANGRUR	SANGRUR	AQUA	30.22500	75.77200	14:31:00	D	14.10
174	SANGRUR	SANGRUR	AQUA	30.22500	75.92000	14:31:00	D	8.00
175	SANGRUR	SHER PUR	AQUA	30.41800	75.70300	14:31:00	D	5.50
176	SANGRUR	SUNAM	AQUA	30.01400	75.78500	14:31:00	D	11.90
177	SANGRUR	SUNAM	AQUA	30.01500	75.79600	14:31:00	D	33.80
178	SANGRUR	SUNAM	AQUA	30.02100	75.77300	14:31:00	D	39.50
179	SANGRUR	SUNAM	AQUA	30.03400	75.93400	14:31:00	D	5.70
180	SANGRUR	SUNAM	AQUA	30.03700	75.82400	14:31:00	D	27.40
181	SANGRUR	SUNAM	AQUA	30.03900	75.83500	14:31:00	D	13.00
182	SANGRUR	SUNAM	AQUA	30.05600	75.75000	14:31:00	D	16.40
183	SANGRUR	SUNAM	AQUA	30.05900	75.91200	14:31:00	D	6.20
184	SANGRUR	SUNAM	AQUA	30.06100	75.85700	14:31:00	D	38.30
185	SANGRUR	SUNAM	AQUA	30.06500	75.88900	14:31:00	D	7.70
186	SANGRUR	SUNAM	AQUA	30.07100	75.66100	14:31:00	D	7.70
187	SANGRUR	SUNAM	AQUA	30.07100	75.72500	14:31:00	D	21.70

188	SANGRUR	SUNAM	AQUA	30.10000	75.80700	14:31:00	D	12.30
189	SANGRUR	SUNAM	AQUA	30.10200	75.75200	14:31:00	D	14.00
190	SANGRUR	SUNAM	AQUA	30.10200	75.81700	14:31:00	D	26.00
191	SANGRUR	SUNAM	AQUA	30.10300	75.76300	14:31:00	D	10.50
192	SANGRUR	SUNAM	AQUA	30.11200	75.89200	14:31:00	D	43.20
193	SANGRUR	SUNAM	AQUA	30.12300	75.63500	14:31:00	D	6.50
194	SANGRUR	SUNAM	AQUA	30.12400	75.71000	14:31:00	D	17.80
195	SANGRUR	SUNAM	AQUA	30.13200	75.77300	14:31:00	D	8.30
196	SANGRUR	SUNAM	AQUA	30.15800	75.69300	14:31:00	D	6.90
197	SBS NAGAR	BANGA	AQUA	31.26700	75.85900	14:31:00	D	9.20
198	SBS NAGAR	BANGA	AQUA	31.26800	75.87000	14:31:00	D	14.90
199	TARN TARAN	BHIKHIWIND	AQUA	31.40100	74.73700	14:31:00	D	5.40
200	TARN TARAN	CHOHLA SAHIB	AQUA	31.36000	75.04000	14:31:00	D	4.80
201	TARN TARAN	CHOHLA SAHIB	AQUA	31.36100	75.05100	14:31:00	D	40.30
202	TARN TARAN	GANDIWIND TATLA	AQUA	31.43800	74.67700	14:31:00	D	4.40
203	TARN TARAN	GANDIWIND TATLA	AQUA	31.50800	74.64700	14:31:00	D	6.40
204	TARN TARAN	GANDIWIND TATLA	AQUA	31.52700	74.65400	14:31:00	D	5.00
205	TARN TARAN	KHADUR SAHIB	AQUA	31.37700	75.03700	14:31:00	D	9.60
206	TARN TARAN	NAUSHERA PANNUAN	AQUA	31.37600	75.02600	14:31:00	D	49.60
207	TARN TARAN	PATTI	AQUA	31.19100	74.74700	14:31:00	D	9.60
208	TARN TARAN	PATTI	AQUA	31.23700	74.74900	14:31:00	D	5.50
209	TARN TARAN	PATTI	AQUA	31.31900	74.81300	14:31:00	D	6.60
210	TARN TARAN	TARN TARAN	AQUA	31.39200	74.80300	14:31:00	D	14.50
211	TARN TARAN	VALTOHA	AQUA	31.12500	74.55500	14:31:00	D	5.50
212	TARN TARAN	VALTOHA	AQUA	31.15700	74.71800	14:31:00	D	5.00
213	TARN TARAN	VALTOHA	AQUA	31.16500	74.70600	14:31:00	D	6.10
214	TARN TARAN	VALTOHA	AQUA	31.16600	74.71600	14:31:00	D	8.40
215	TARN TARAN	VALTOHA	AQUA	31.23700	74.68500	14:31:00	D	7.30
216	TARN TARAN	VALTOHA	AQUA	31.25400	74.53900	14:31:00	D	7.90

Details of residue burning events in Haryana on 03-Nov-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	FARIDABAD	BALLABGARH	S-NPP	28.26994	77.27287	02:05:59	N	0.30
2	FATEHABAD	JAKHAL	AQUA	29.79900	75.83600	14:31:00	D	5.80
3	FATEHABAD	RATIA	AQUA	29.66700	75.59900	14:31:00	D	4.30
4	FATEHABAD	RATIA	AQUA	29.76900	75.68100	14:31:00	D	9.70
5	FATEHABAD	TOHANA	AQUA	29.63000	75.94400	14:31:00	D	16.30
6	FATEHABAD	TOHANA	AQUA	29.64900	75.74700	14:31:00	D	5.70
7	JIND	JIND	S-NPP	29.34474	76.40985	02:05:59	N	1.30
8	JIND	NARWANA	AQUA	29.78500	76.13800	14:31:00	D	15.00
9	JIND	NARWANA	AQUA	29.80900	76.17800	14:31:00	D	12.90
10	JIND	NARWANA	AQUA	29.81100	76.18900	14:31:00	D	5.00
11	KARNAL	ASSANDH	S-NPP	29.60797	76.58731	02:05:59	N	1.60
12	PANCHKULA	BARWALA	AQUA	30.56100	76.96700	14:31:00	D	7.50
13	PANCHKULA	RAIPUR RANI	AQUA	30.55600	76.97500	14:31:00	D	7.40
14	SIRSA	BARAGUNDA	S-NPP	29.66145	75.13676	02:05:59	N	1.20
15	SIRSA	DABWALI	AQUA	29.93500	74.87400	14:31:00	D	9.30
16	SIRSA	ODHAN	AQUA	29.93600	74.88400	14:31:00	D	10.70
17	SIRSA	SIRSA	S-NPP	29.66084	75.14128	02:05:59	N	0.70
18	SONIPAT	GANAUR	S-NPP	29.10293	77.11700	02:05:59	N	0.50
19	SONIPAT	MUNDLANA	AQUA	29.19600	76.70700	14:31:00	D	6.20

Details of residue burning events in Uttar Pradesh on 03-Nov-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AGRA	KURAU LI	S-NPP	27.23737	77.67683	02:05:59	N	0.50
2	BARABANKI	RAMNAGAR	S-NPP	27.04576	81.38522	02:05:59	N	0.50
3	ETAH	JALESAR	S-NPP	27.46835	78.39352	02:05:59	N	0.70
4	FIROZABAD	SIKOHABAD	AQUA	27.05200	78.65600	14:31:00	D	12.50
5	JHANSI	JHANSI	AQUA	25.53200	78.72500	14:31:00	D	9.50
6	JHANSI	MOTH	AQUA	25.93900	78.97500	14:31:00	D	15.20
7	JHANSI	MOTH	AQUA	25.94100	78.98100	14:31:00	D	11.70
8	JHANSI	MOTH	S-NPP	25.81491	79.01826	02:05:59	N	1.60
9	PILHIBHIT	PURANPUR	S-NPP	28.33221	80.15620	02:05:59	N	0.90
10	PILHIBHIT	PURANPUR	S-NPP	28.46081	80.06508	02:05:59	N	1.00
11	RAIBEARELI	LALGANJ	S-NPP	26.29260	80.98323	02:05:59	N	0.40
12	RAMPUR	BILASPUR	S-NPP	28.75533	79.28170	02:05:59	N	0.80
13	SHAHJAHANPUR	PUWANYA	S-NPP	27.97275	80.02544	02:05:59	N	0.40
14	SHAHJAHANPUR	PUWANYA	S-NPP	27.97617	80.02619	02:05:59	N	0.40
15	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.90044	79.99194	02:05:59	N	1.10
16	SHAHJAHANPUR	TILHAR	S-NPP	28.19033	79.69917	02:05:59	N	0.60

Details of residue burning events in Rajasthan on 03-Nov-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARAN	CHHABRA	AQUA	24.67100	76.94700	14:31:00	D	7.90
2	BARAN	KISHANGUNJ	AQUA	25.03300	76.69900	14:31:00	D	15.10
3	BARAN	KISHANGUNJ	AQUA	25.24900	76.66000	14:31:00	D	7.70
4	BUNDI	BUNDI	AQUA	25.24200	75.83400	14:31:00	D	11.20
5	BUNDI	BUNDI	AQUA	25.27900	75.70200	14:31:00	D	10.20
6	BUNDI	BUNDI	AQUA	25.28800	75.76000	14:31:00	D	11.40
7	BUNDI	BUNDI	AQUA	25.29400	75.86800	14:31:00	D	9.80
8	BUNDI	BUNDI	AQUA	25.29900	75.83700	14:31:00	D	6.50
9	BUNDI	BUNDI	AQUA	25.34000	75.87000	14:31:00	D	8.80
10	BUNDI	BUNDI	AQUA	25.35500	75.71300	14:31:00	D	7.70
11	BUNDI	BUNDI	AQUA	25.37900	75.62900	14:31:00	D	6.00
12	BUNDI	BUNDI	AQUA	25.44800	75.83800	14:31:00	D	13.50
13	BUNDI	INDRAGARH	AQUA	25.50800	76.13700	14:31:00	D	6.20
14	BUNDI	KESHORAIPATAN	AQUA	25.29600	75.87800	14:31:00	D	13.40
15	BUNDI	KESHORAIPATAN	AQUA	25.37000	76.00800	14:31:00	D	6.20
16	BUNDI	KESHORAIPATAN	AQUA	25.43400	76.01700	14:31:00	D	7.40
17	BUNDI	KESHORAIPATAN	AQUA	25.46700	76.03400	14:31:00	D	7.10
18	BUNDI	KESHORAIPATAN	AQUA	25.47700	76.04300	14:31:00	D	9.80
19	GANGANAGAR	VIJAY NAGAR	AQUA	29.34100	73.67400	14:31:00	D	40.60
20	GANGANAGAR	VIJAY NAGAR	AQUA	29.34200	73.68400	14:31:00	D	25.70
21	HANUMANGARH	HANUMANGARH	AQUA	29.62100	74.37300	14:31:00	D	6.60
22	HANUMANGARH	HANUMANGARH	AQUA	29.64300	74.33800	14:31:00	D	14.90
23	HANUMANGARH	SANGHRIYA	AQUA	29.86000	74.41100	14:31:00	D	5.70
24	JHALAWAR	MANOHARTHANA	S-NPP	24.21918	76.89409	02:05:59	N	0.50
25	KOTA	LADPURA	AQUA	25.19700	75.96100	14:31:00	D	5.70
26	KOTA	LADPURA	AQUA	25.20200	75.81100	14:31:00	D	6.10
27	KOTA	LADPURA	AQUA	25.23100	76.01500	14:31:00	D	9.30
28	KOTA	PIPALDA	AQUA	25.44000	76.50800	14:31:00	D	9.40
29	KOTA	PIPALDA	AQUA	25.44100	76.51800	14:31:00	D	14.60
30	KOTA	PIPALDA	AQUA	25.46000	76.52500	14:31:00	D	27.30
31	KOTA	PIPALDA	AQUA	25.48600	76.51000	14:31:00	D	8.50
32	KOTA	PIPALDA	AQUA	25.72700	76.45000	14:31:00	D	7.70
33	KOTA	PIPALDA	AQUA	25.72900	76.46000	14:31:00	D	14.20
34	SWAIMADHOPUR	KHANDAR	AQUA	25.87700	76.54100	14:31:00	D	14.50
35	SWAIMADHOPUR	KHANDAR	AQUA	25.88600	76.54000	14:31:00	D	6.30

36	SWAIMADHOPUR	KHANDAR	AQUA	25.89900	76.56800	14:31:00	D	7.40
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Details of residue burning events in Madhya Pradesh on 03-Nov-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.46800	77.69300	14:31:00	D	7.70
2	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.51000	77.53100	14:31:00	D	7.10
3	ASHOKNAGAR	ISAGARH	AQUA	24.66900	77.88700	14:31:00	D	14.40
4	ASHOKNAGAR	MUNGAOLI	AQUA	24.31300	78.05600	14:31:00	D	13.80
5	DAMOH	TENDUKHERA	AQUA	23.31300	79.34700	14:31:00	D	9.20
6	DATIA	BHANDER	AQUA	25.81300	78.77700	14:31:00	D	10.10
7	DATIA	BHANDER	AQUA	25.99100	78.73700	14:31:00	D	16.40
8	DATIA	BHANDER	AQUA	25.99300	78.75000	14:31:00	D	16.30
9	DATIA	SEONDHA	AQUA	26.06000	78.70800	14:31:00	D	16.00
10	DATIA	SEONDHA	AQUA	26.06200	78.72000	14:31:00	D	26.20
11	DATIA	SEONDHA	AQUA	26.07600	78.75600	14:31:00	D	8.90
12	DATIA	SEONDHA	AQUA	26.07800	78.76800	14:31:00	D	14.60
13	DATIA	SEONDHA	AQUA	26.11000	78.78300	14:31:00	D	23.30
14	GUNA	ARON	AQUA	24.37100	77.45400	14:31:00	D	6.50
15	GUNA	GUNA	AQUA	24.52200	77.41300	14:31:00	D	12.10
16	GUNA	GUNA	AQUA	24.52300	77.42400	14:31:00	D	14.10
17	GUNA	RAGHOGARH	S-NPP	24.26753	77.20560	02:05:59	N	0.60
18	GWALIOR	BHITARWAR	AQUA	25.78700	78.07500	14:31:00	D	7.00
19	GWALIOR	BHITARWAR	AQUA	25.90800	78.15600	14:31:00	D	8.10
20	GWALIOR	DABRA	AQUA	25.92300	78.20000	14:31:00	D	11.60
21	HOSHANGABAD	BABAI	AQUA	22.72300	77.86800	14:31:00	D	9.00
22	HOSHANGABAD	BABAI	AQUA	22.73300	78.01300	14:31:00	D	8.10
23	HOSHANGABAD	BABAI	AQUA	22.81800	77.81600	14:31:00	D	5.60
24	HOSHANGABAD	BABAI	AQUA	22.82900	77.89700	14:31:00	D	6.20
25	HOSHANGABAD	BABAI	AQUA	22.83700	77.82300	14:31:00	D	6.10
26	HOSHANGABAD	HOSHANGABAD	AQUA	22.65500	77.64300	14:31:00	D	9.80

27	HOSHANGABAD	HOSHANGABAD	AQUA	22.68000	77.69000	14:31:00	D	4.90
28	HOSHANGABAD	HOSHANGABAD	AQUA	22.69300	77.64700	14:31:00	D	4.50
29	HOSHANGABAD	HOSHANGABAD	AQUA	22.71800	77.76600	14:31:00	D	7.40
30	HOSHANGABAD	PIPARIYA	AQUA	22.69500	78.41900	14:31:00	D	6.40
31	HOSHANGABAD	SEONI MALWA	AQUA	22.38900	77.44100	14:31:00	D	8.10
32	HOSHANGABAD	SEONI MALWA	AQUA	22.58100	77.56900	14:31:00	D	12.50
33	HOSHANGABAD	SOHAGPUR	AQUA	22.81900	78.30800	14:31:00	D	5.50
34	JABALPUR	JABALPUR	AQUA	23.10800	79.98600	14:31:00	D	10.90
35	JABALPUR	SAHPURA	AQUA	23.15100	79.76300	14:31:00	D	9.50
36	JABALPUR	SAHPURA	AQUA	23.15700	79.64600	14:31:00	D	10.50
37	RAISEN	BARELI	S-NPP	23.00830	78.37859	02:05:59	N	0.40
38	RAISEN	BARELI	S-NPP	23.12499	78.06362	02:05:59	N	0.40
39	RAISEN	GOHARGANJ	AQUA	22.98300	77.54000	14:31:00	D	27.70
40	RAISEN	GOHARGANJ	AQUA	23.02000	77.54900	14:31:00	D	5.70
41	RAISEN	GOHARGANJ	AQUA	23.03400	77.51600	14:31:00	D	5.70
42	RAISEN	RAISEN	AQUA	23.49900	77.67800	14:31:00	D	9.70
43	RAISEN	RAISEN	AQUA	23.50000	77.68800	14:31:00	D	6.50
44	RAISEN	UDAIPURA	S-NPP	23.11893	78.67252	02:05:59	N	0.40
45	SEHORE	BUDHNI	AQUA	22.68200	77.56700	14:31:00	D	9.10
46	SEHORE	NASRULLAHGANJ	AQUA	22.78300	77.22700	14:31:00	D	12.40
47	SEONI	GHANSAUR	AQUA	22.43600	79.74900	14:31:00	D	9.40
48	SEONI	KEWLARI	AQUA	22.27800	79.87300	14:31:00	D	9.80
49	SEONI	SEONI	AQUA	22.23100	79.74100	14:31:00	D	13.40
50	SEONI	SEONI	AQUA	22.24500	79.77600	14:31:00	D	9.70
51	SHEOPUR	KARAHAL	AQUA	25.34200	76.87400	14:31:00	D	16.30
52	SHEOPUR	KARAHAL	AQUA	25.42700	76.81200	14:31:00	D	54.90
53	SHEOPUR	KARAHAL	AQUA	25.42800	76.82200	14:31:00	D	48.60
54	SHEOPUR	KARAHAL	S-NPP	25.42236	76.80320	02:05:59	N	0.40
55	SHEOPUR	SHEOPUR	AQUA	25.51800	76.67800	14:31:00	D	36.10
56	SHEOPUR	SHEOPUR	AQUA	25.61200	76.68600	14:31:00	D	5.10
57	SHEOPUR	SHEOPUR	AQUA	25.67400	76.67000	14:31:00	D	10.50
58	SHEOPUR	SHEOPUR	AQUA	25.67500	76.68000	14:31:00	D	7.30
59	SHEOPUR	SHEOPUR	AQUA	25.68700	76.50400	14:31:00	D	5.40

60	SHEOPUR	SHEOPUR	AQUA	25.70300	76.68600	14:31:00	D	9.20
61	SHEOPUR	SHEOPUR	AQUA	25.70500	76.69600	14:31:00	D	9.60
62	SHEOPUR	SHEOPUR	AQUA	25.83200	76.61000	14:31:00	D	5.70
63	SHEOPUR	SHEOPUR	AQUA	25.91600	76.82400	14:31:00	D	35.20
64	SHEOPUR	SHEOPUR	AQUA	25.91700	76.83400	14:31:00	D	6.00
65	VIDESHA	BASODA	AQUA	23.92800	77.92400	14:31:00	D	6.60
66	VIDESHA	VIDESHA	S-NPP	23.54956	77.74072	02:05:59	N	0.80
67	VIDESHA	VIDESHA	S-NPP	23.55019	77.73689	02:05:59	N	1.30

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

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375	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](#)
