



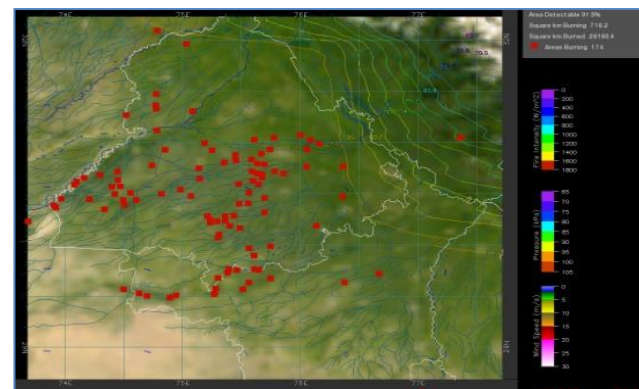
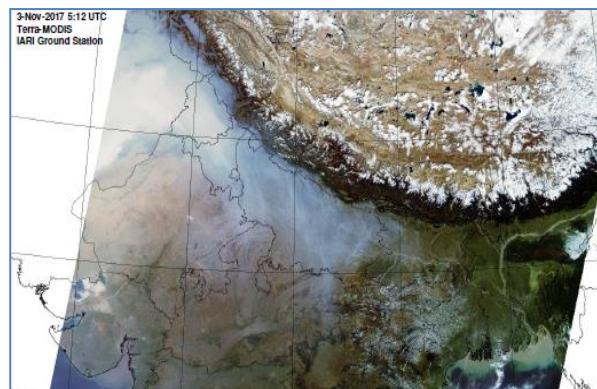
**Bulletin
No. 70**

**Events Date:
23-Nov-2022**

**Issued on:
23-Nov-2022**



MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2022



Prepared by:

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

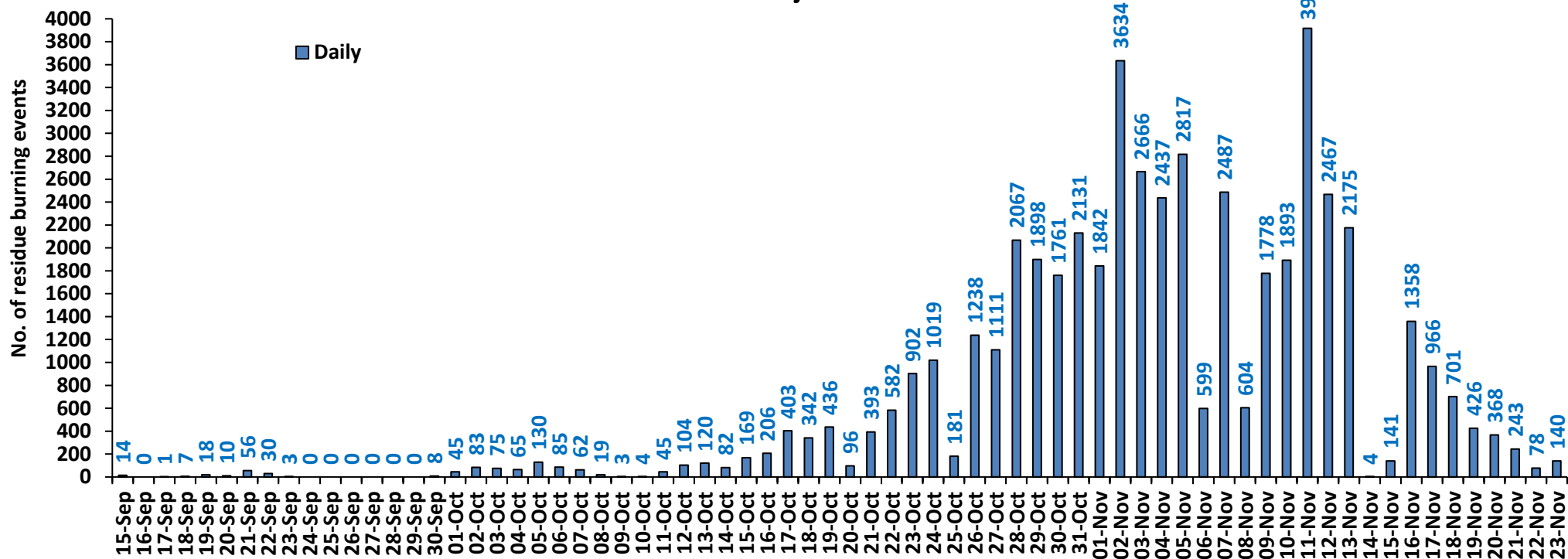
<http://creams.iari.res.in>

Highlights for 23-Nov-2022

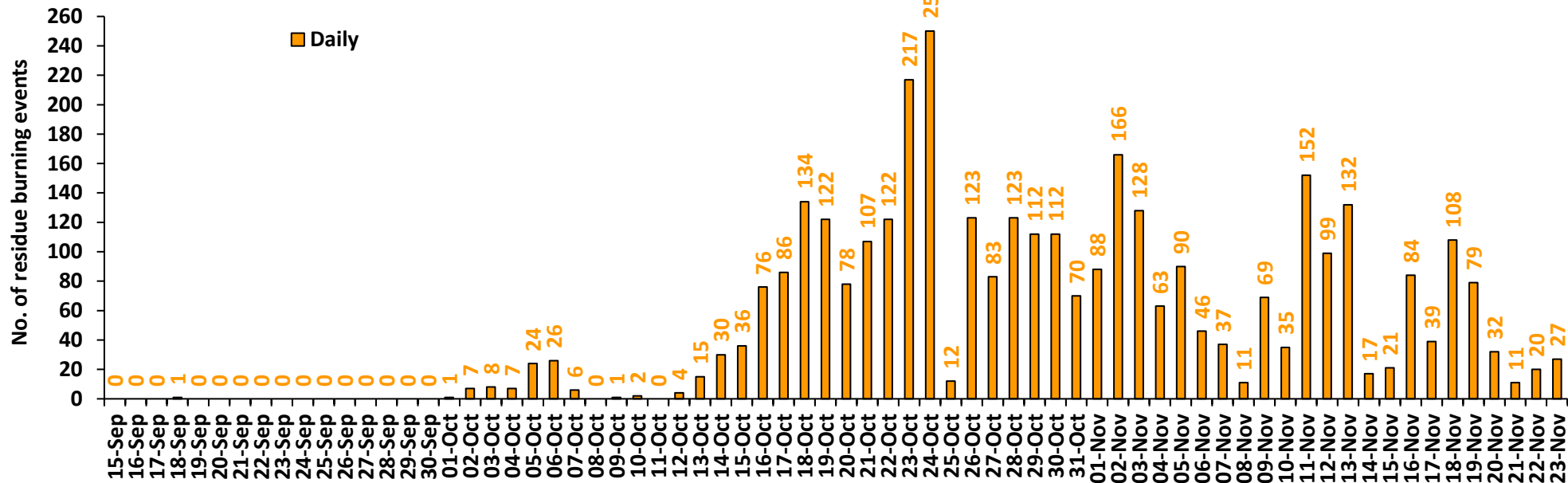
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **509** residue burning events in the six study States on 23-Nov-2022.
- The state wise events detected on 23-Nov-2022 were **140** in Punjab, **27** in Haryana, **73** in UP, **0** in Delhi, **10** in Rajasthan and **259** in MP.
- Total **67177** burning events were detected in the six states between 15-Sept-2022 and 23-Nov-2022, which are distributed as **49744**, **3549**, **2100**, **9**, **1241** and **10534** in Punjab, Haryana, UP, Delhi, Rajasthan and MP respectively.

Temporal distribution of rice residue burning events for the study States in 2022

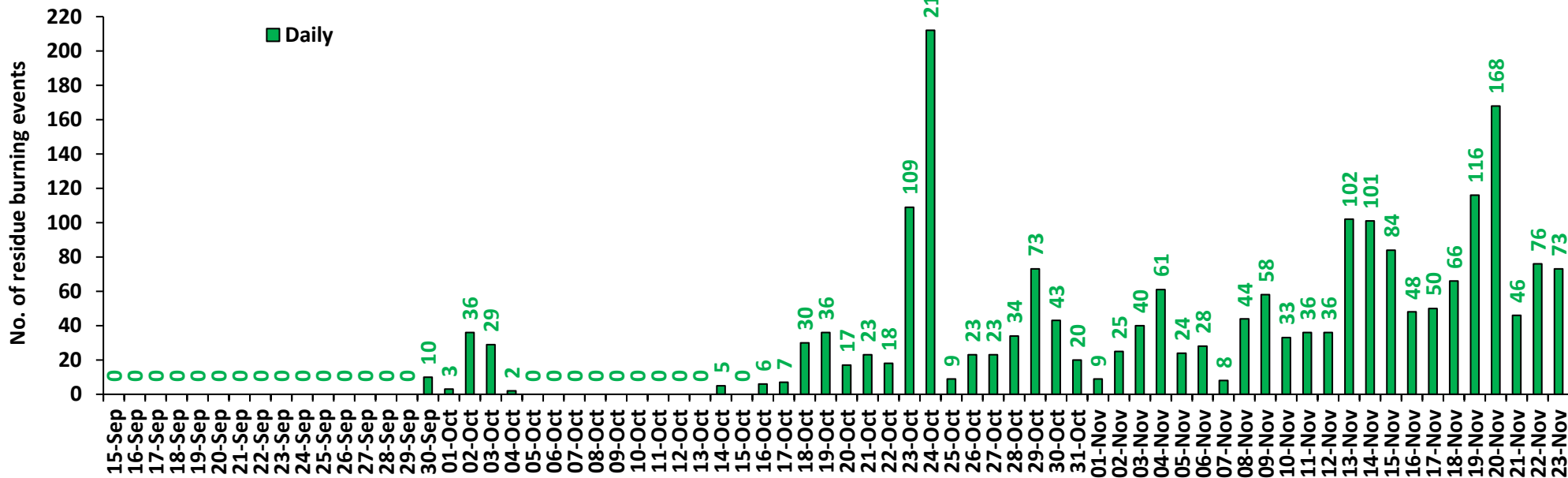
Punjab



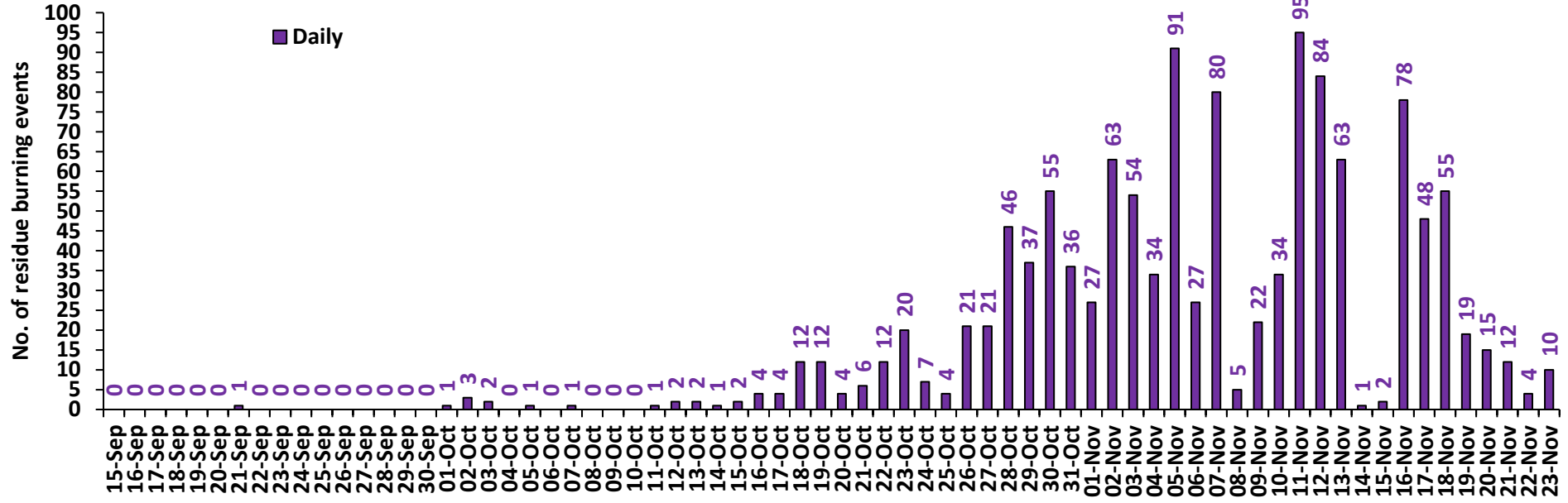
Haryana



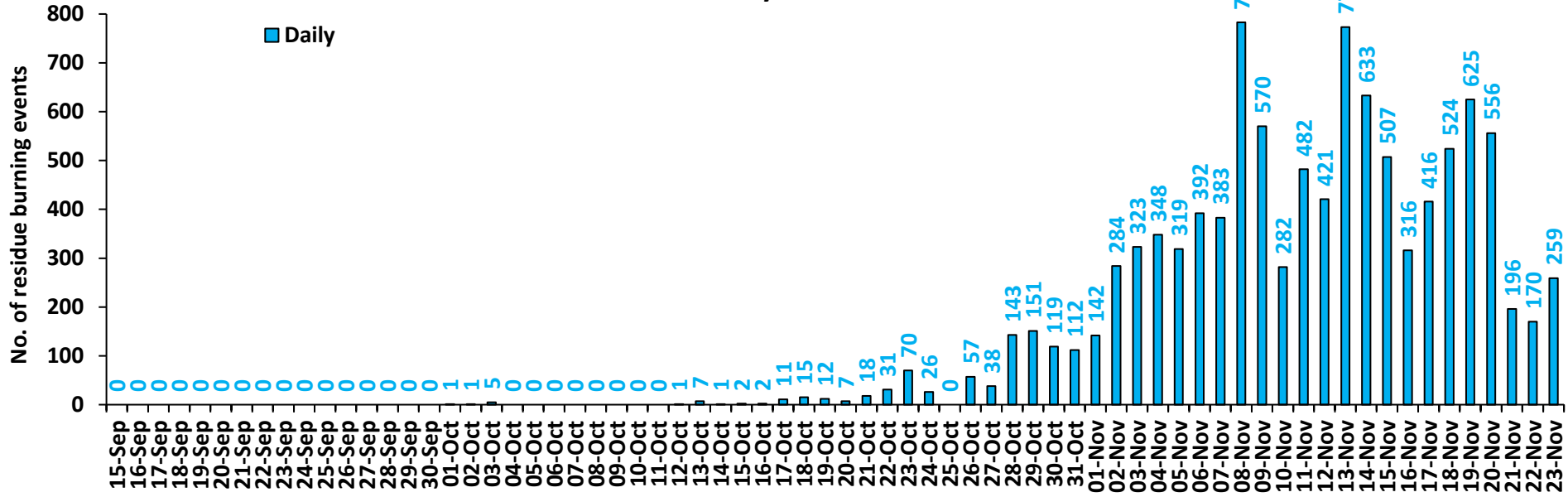
Uttar Pradesh



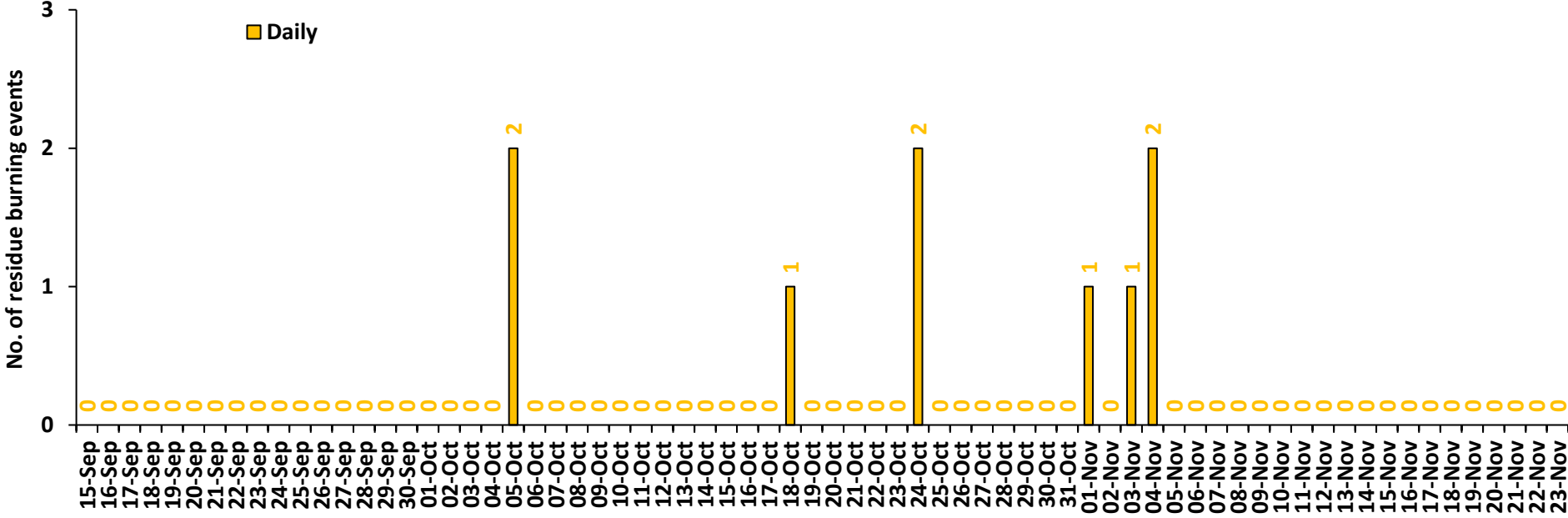
Rajasthan



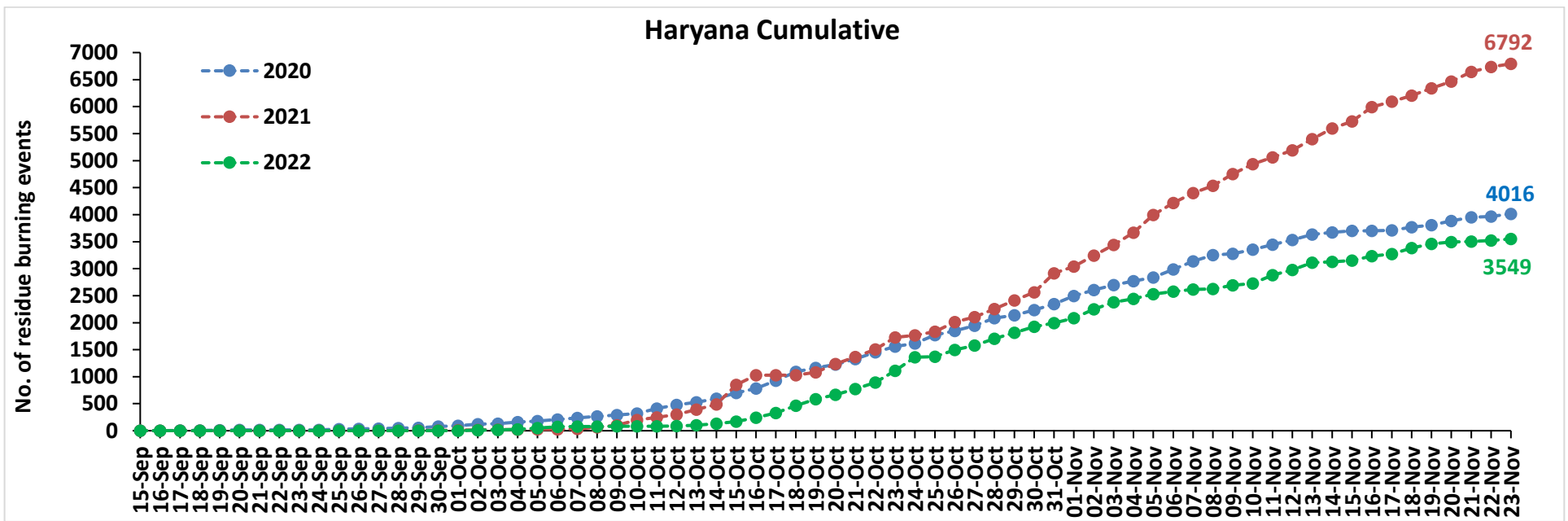
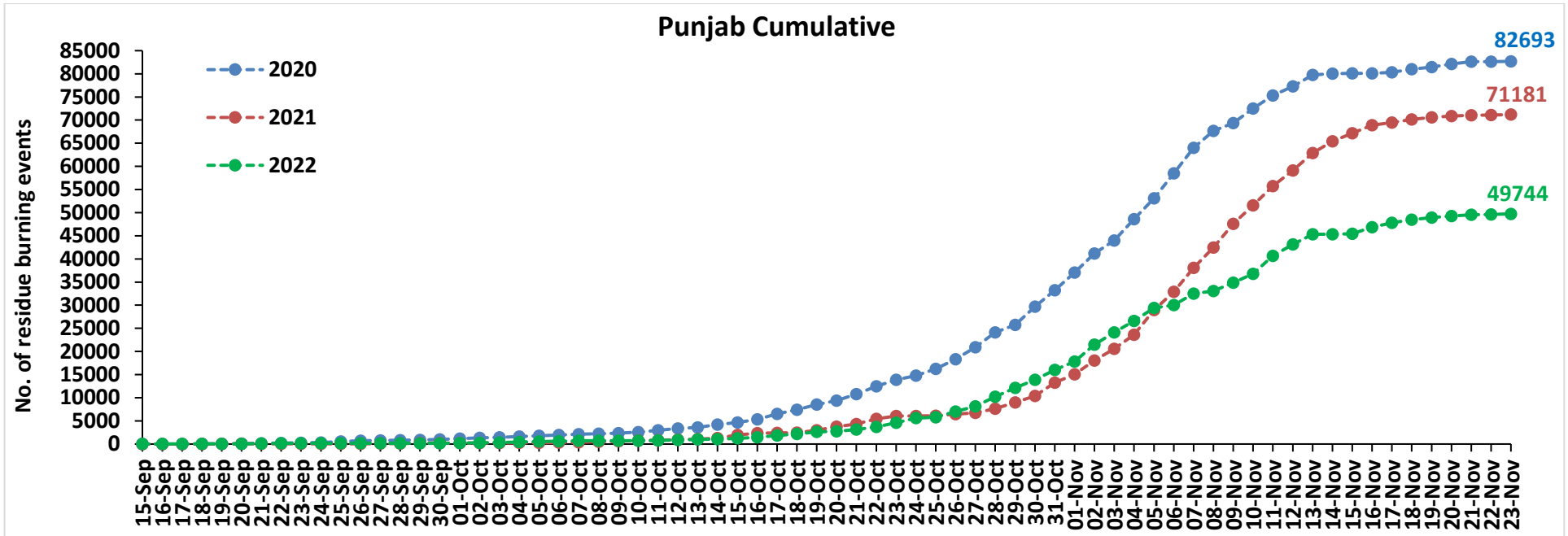
Madhya Pradesh



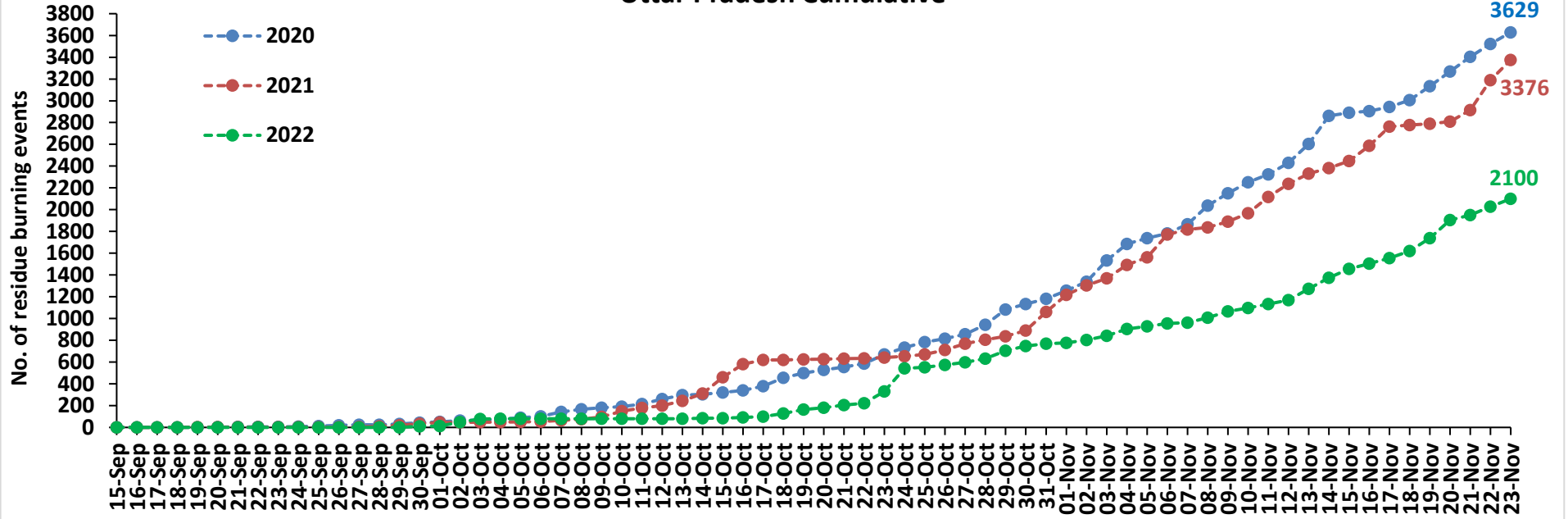
Delhi



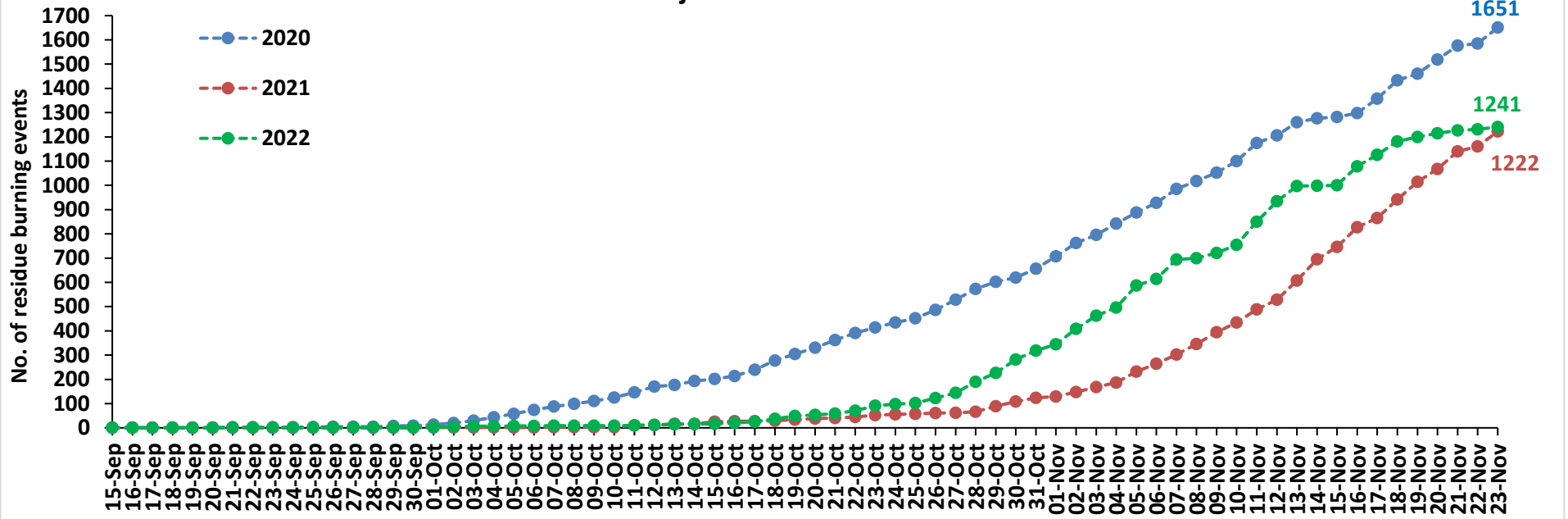
Comparison of residue burning events in current year (2022) with previous years (2020 and 2021) for the study States



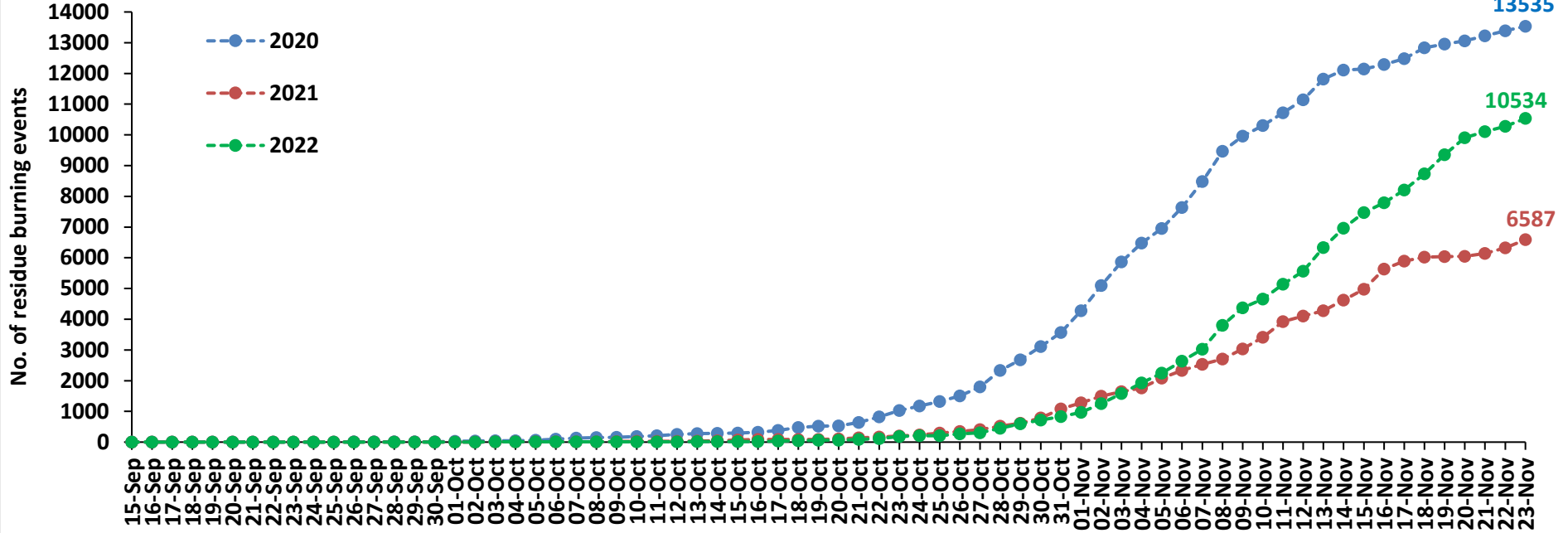
Uttar Pradesh Cumulative



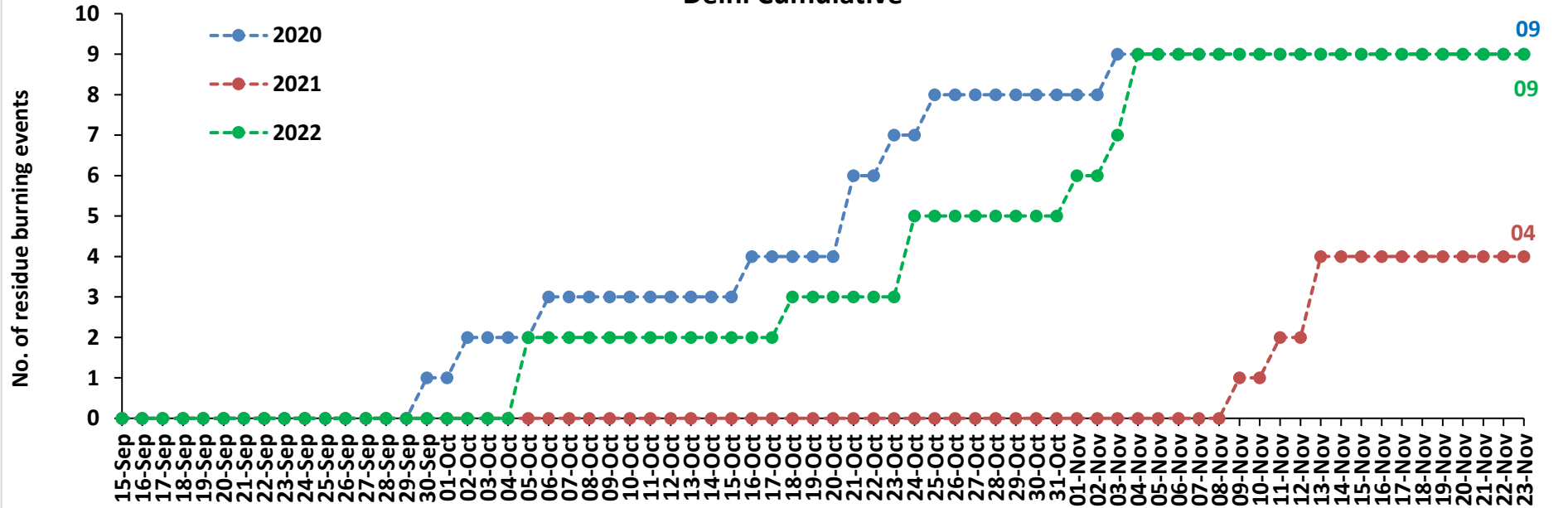
Rajasthan Cumulative



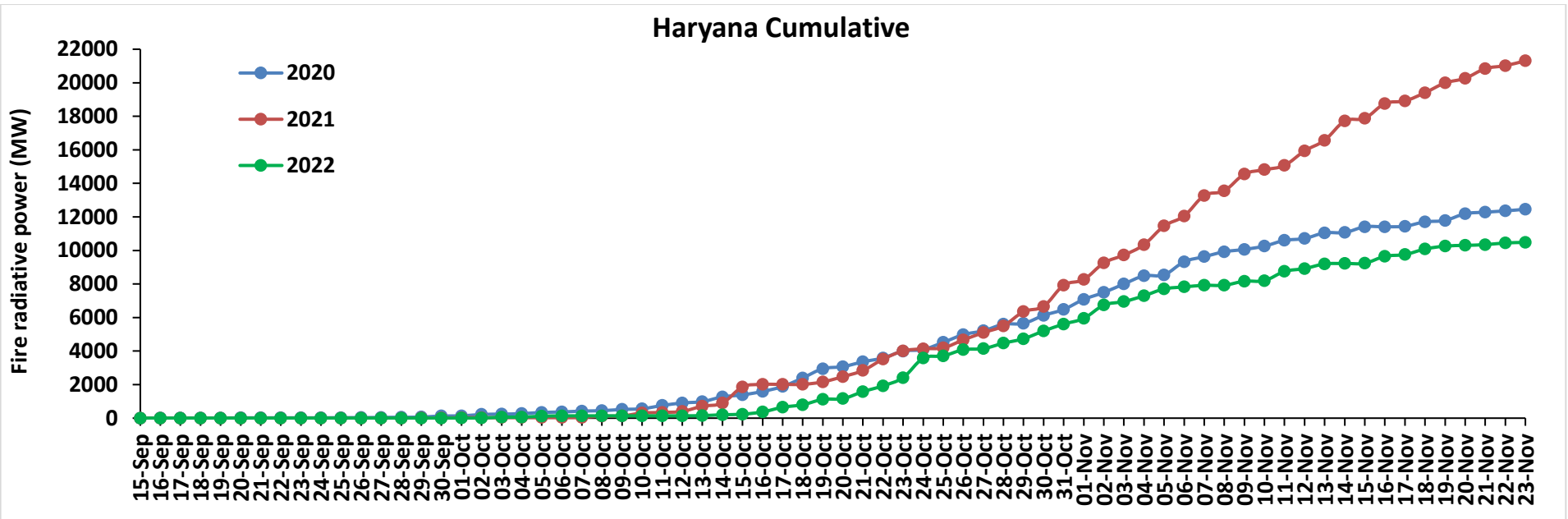
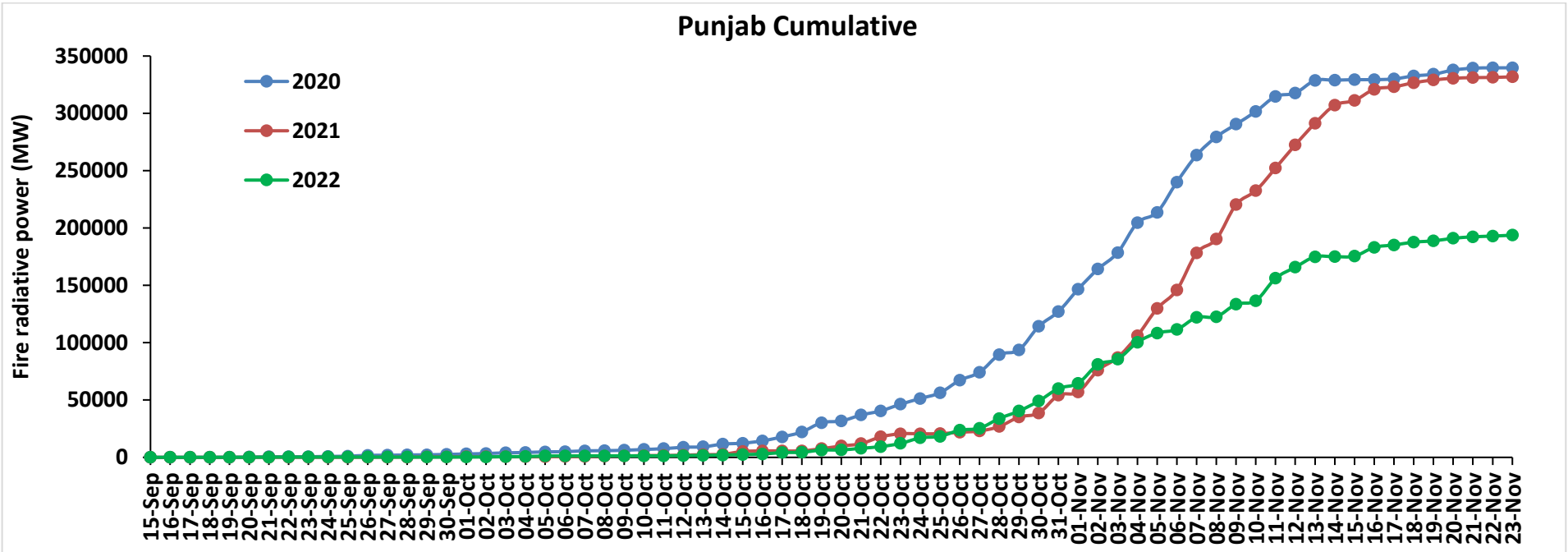
Madhya Pradesh Cumulative



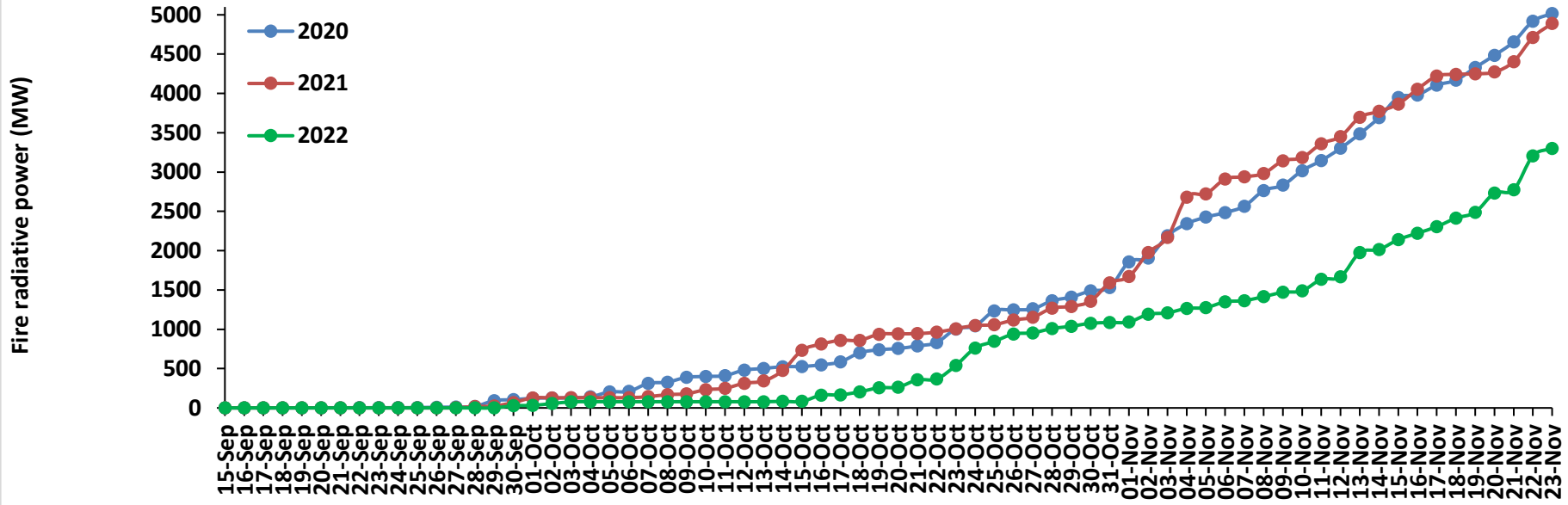
Delhi Cumulative



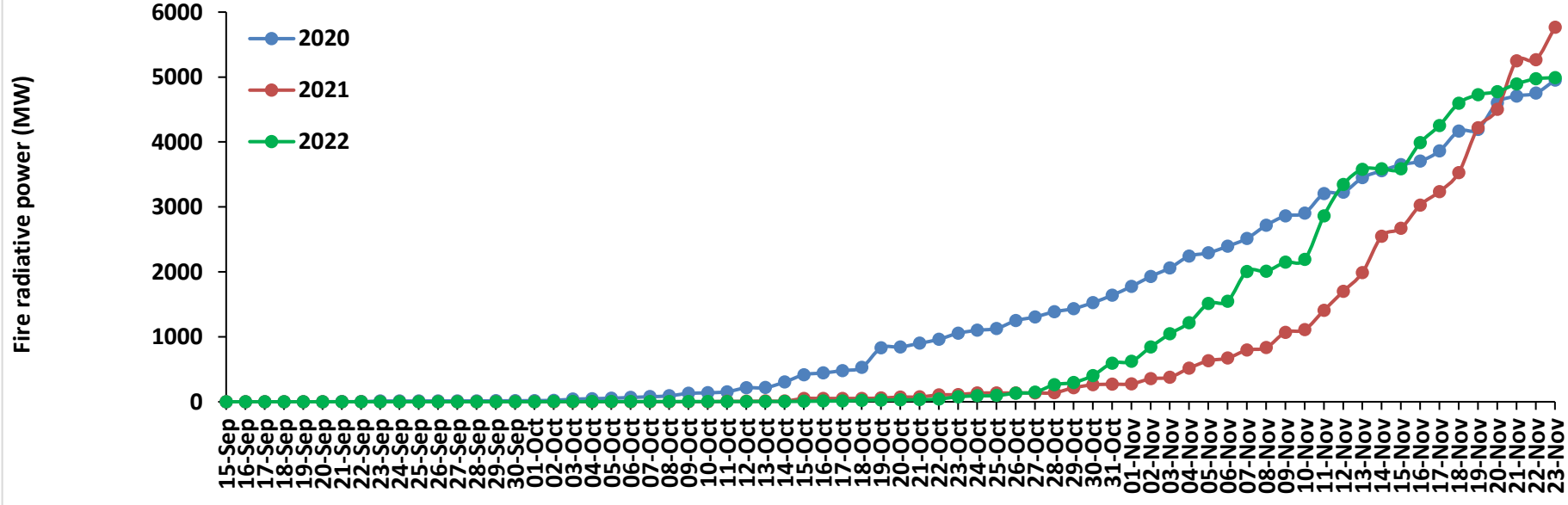
Comparison of residue burning fire power in current year (2022) with previous years (2021 and 2020) for the study States



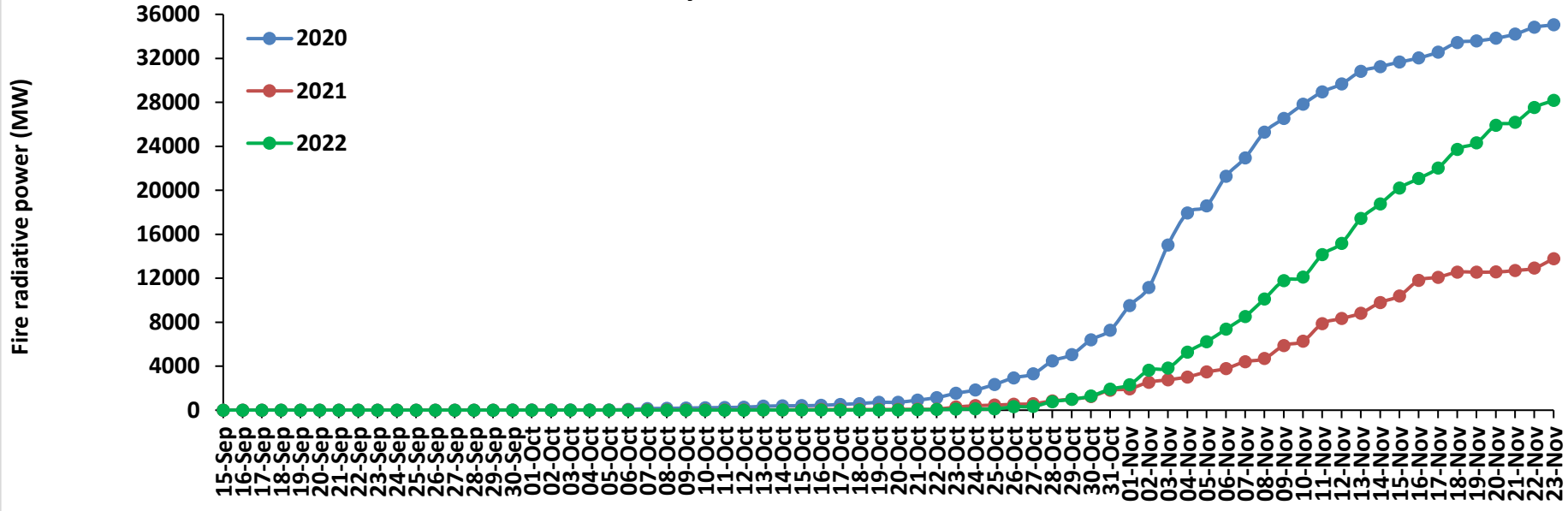
Uttar Pradesh Cumulative



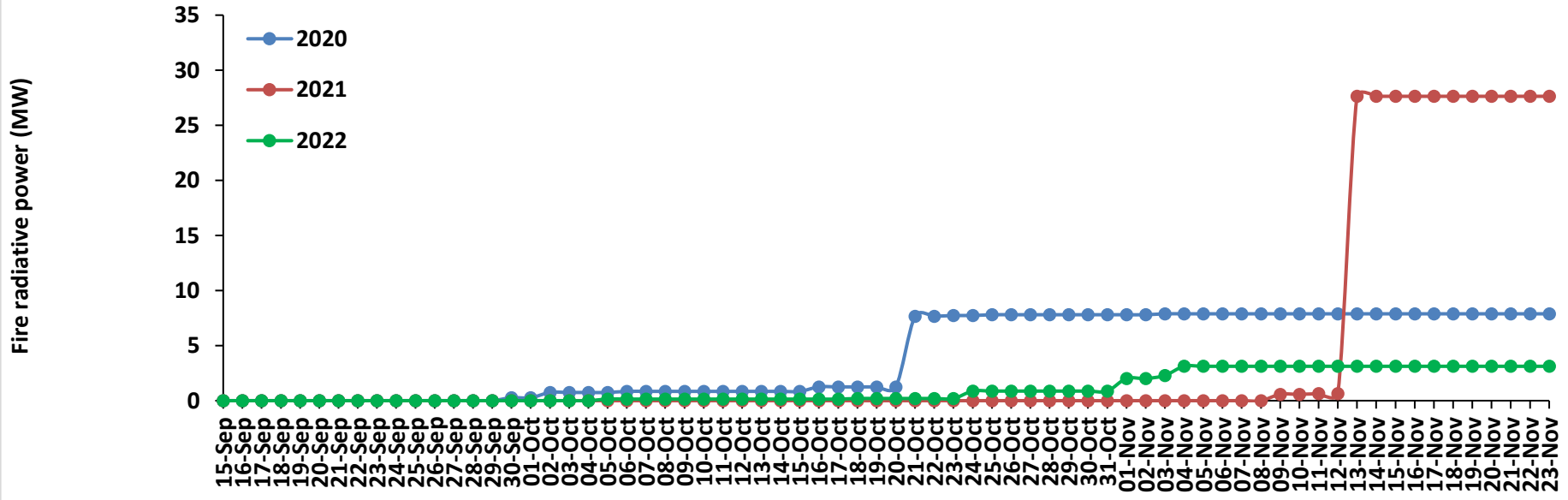
Rajasthan Cumulative



Madhya Pradesh Cumulative

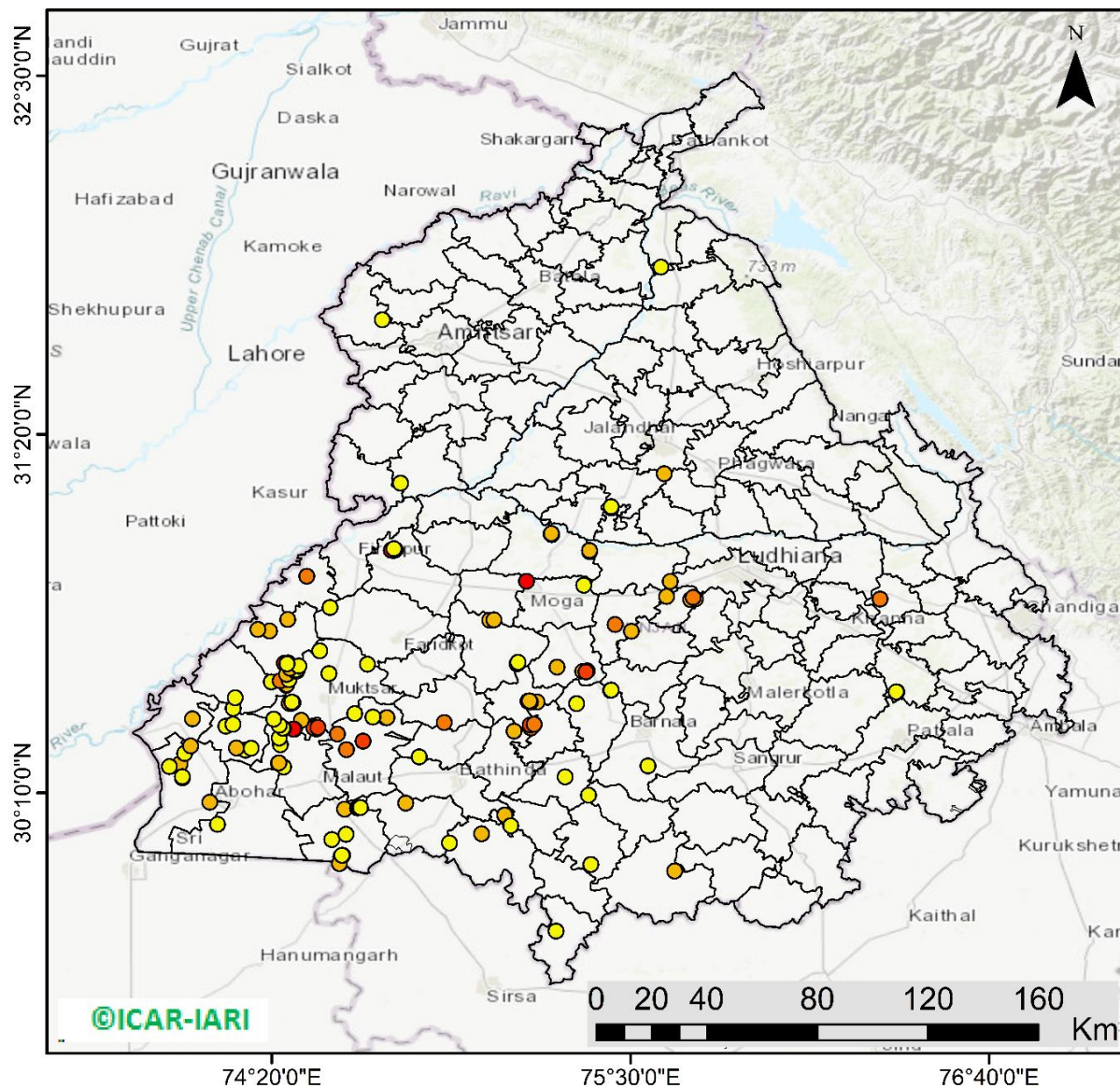


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



140 burning events detected in Punjab during (23rd Nov 2022)

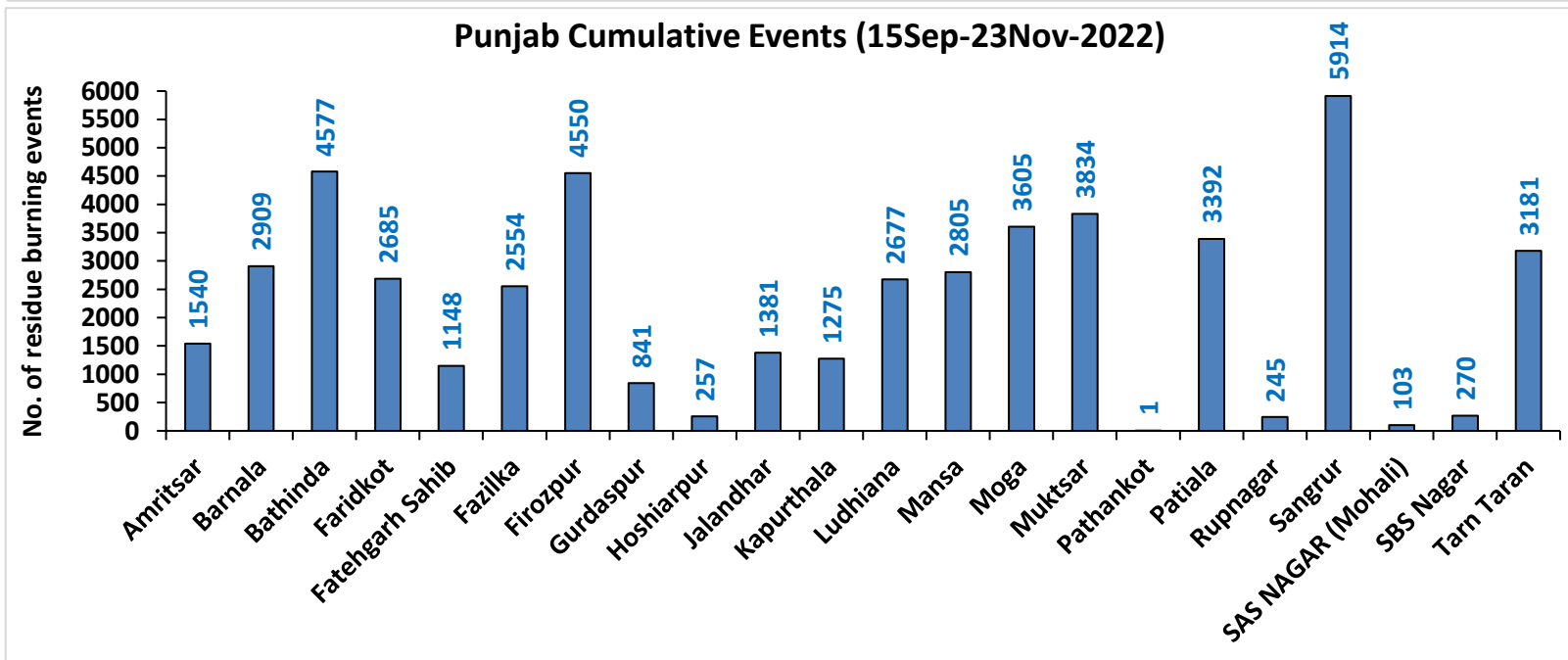
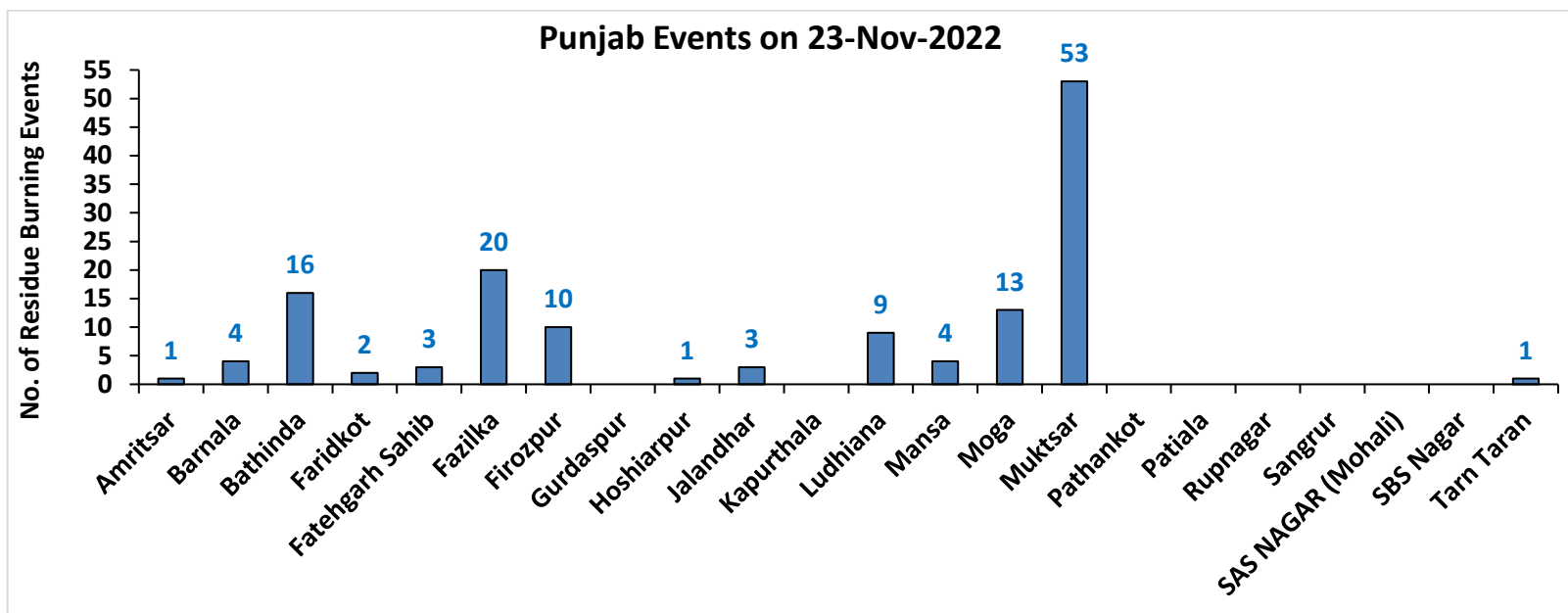
Fire Intensity (W/m²)

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



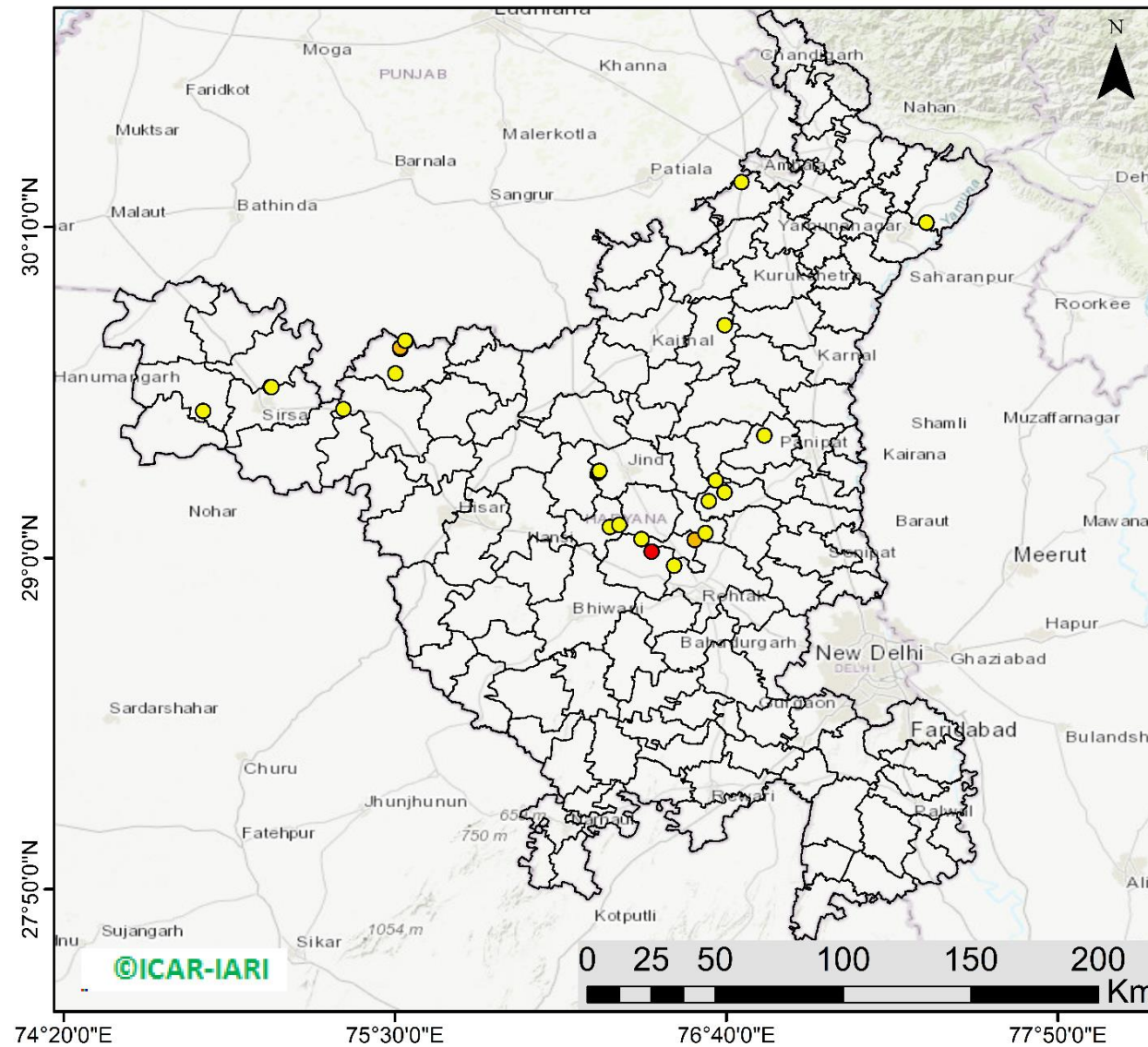
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15Sep- 23Nov-2022)



Haryana

RICE RESIDUE BURNING IN HARYANA



27 burning events detected in Haryana on (23rd Nov 2022)

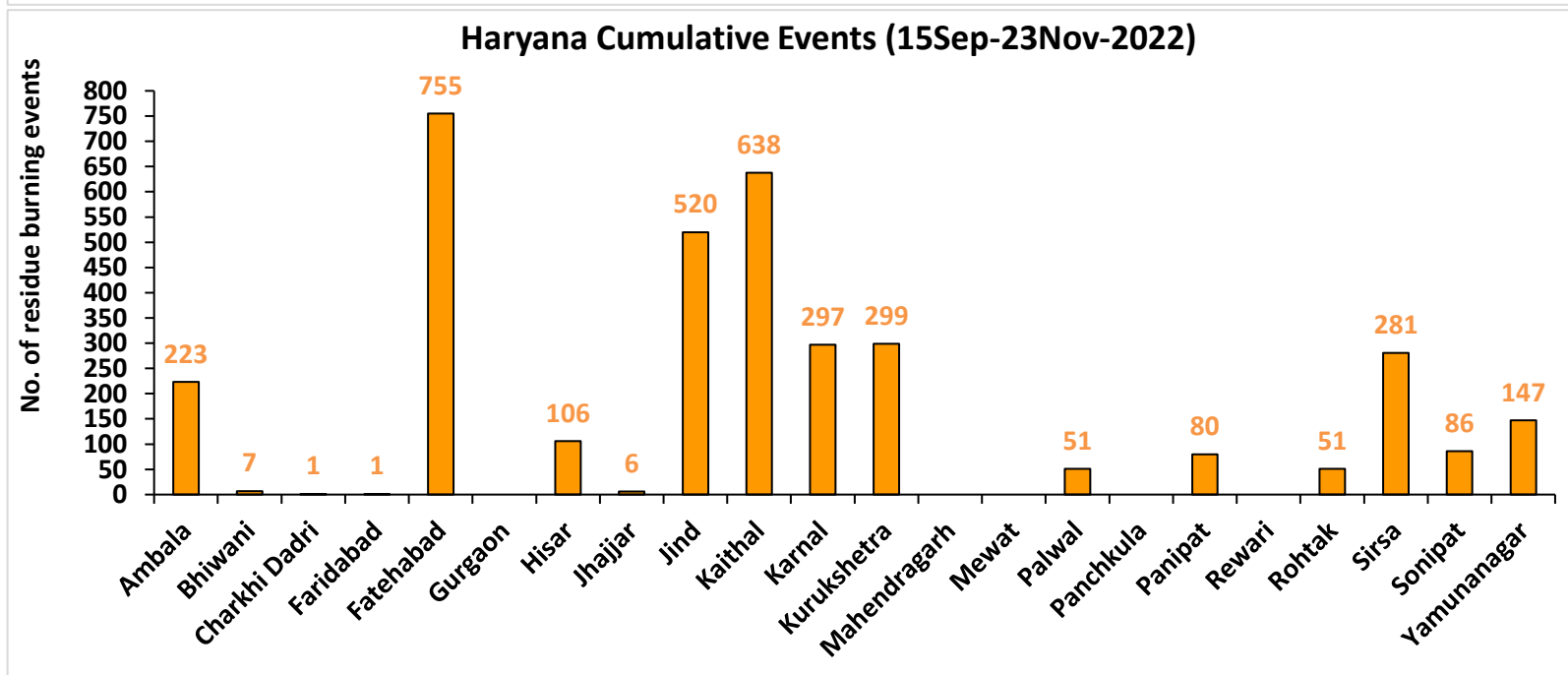
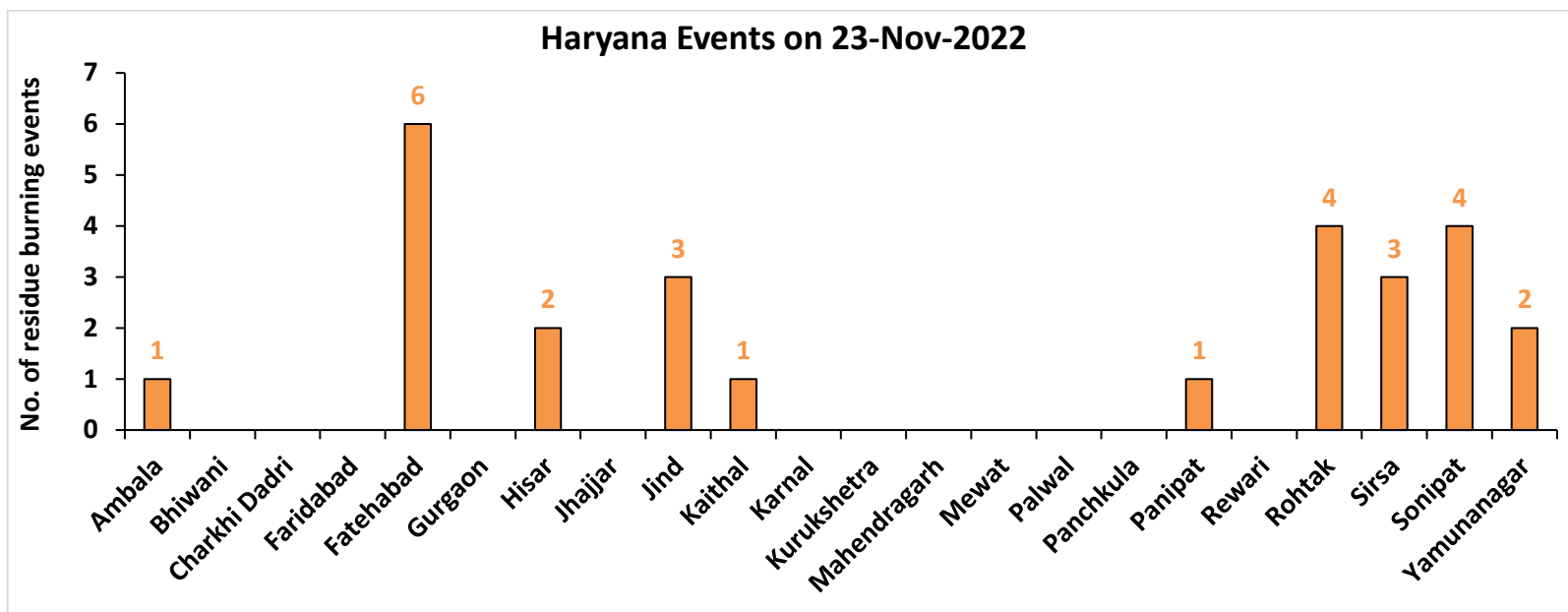
Fire Intensity (W/m²)

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



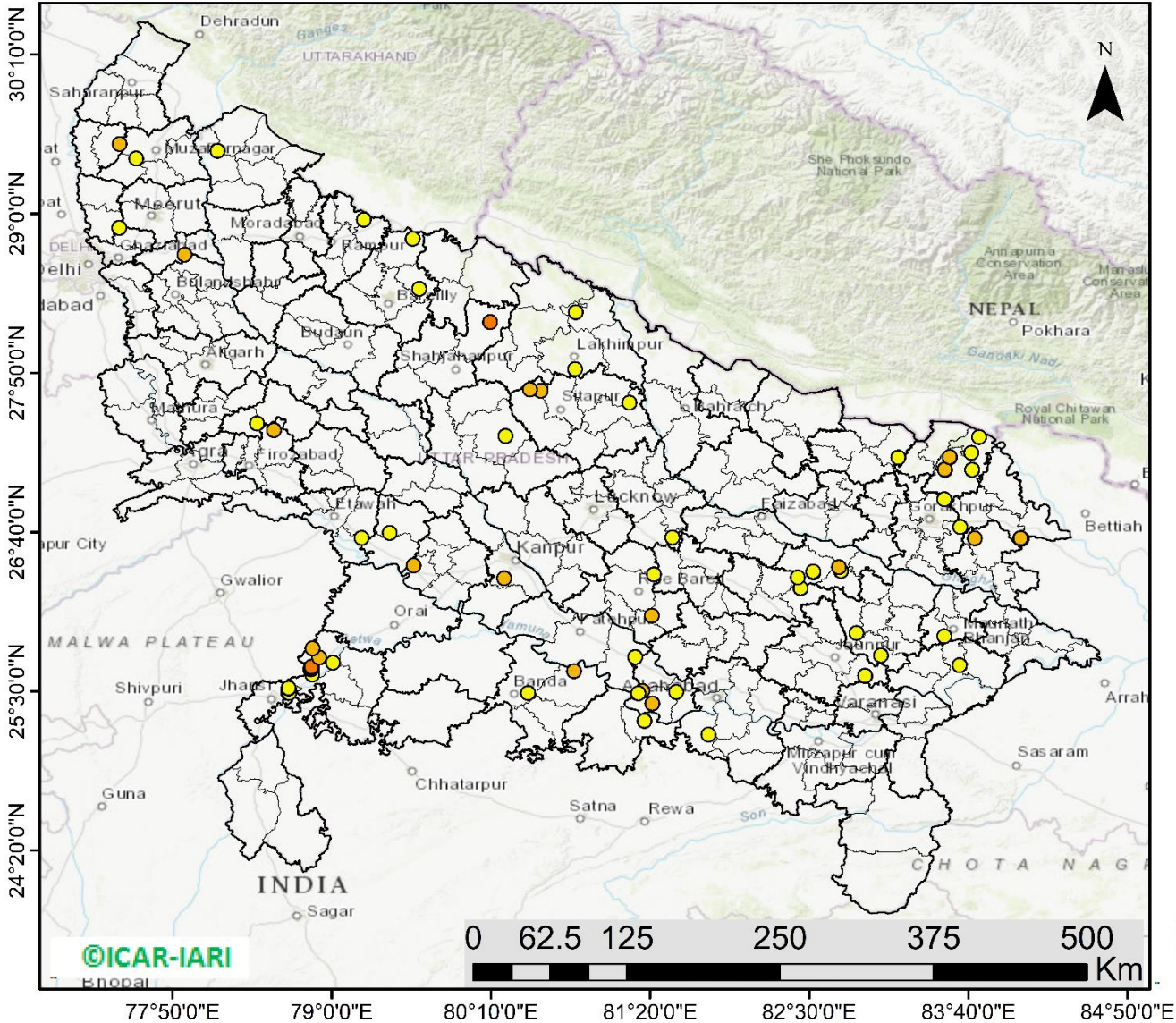
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15Sep- 23Nov-2022)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH

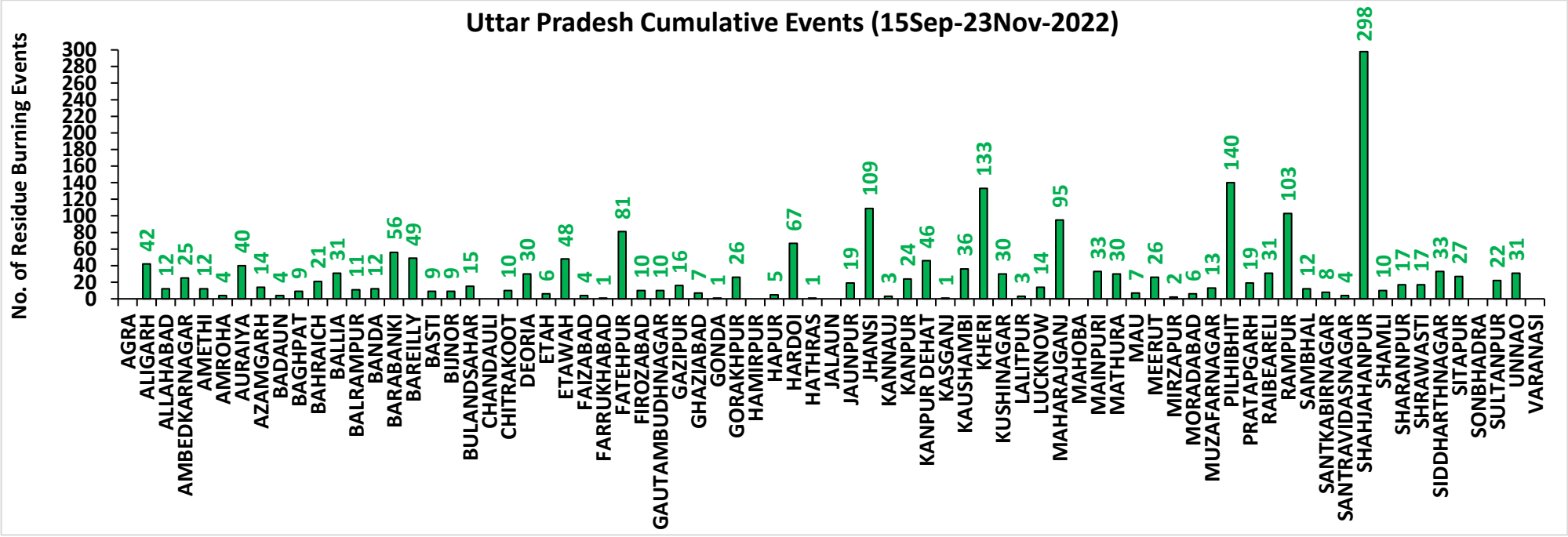
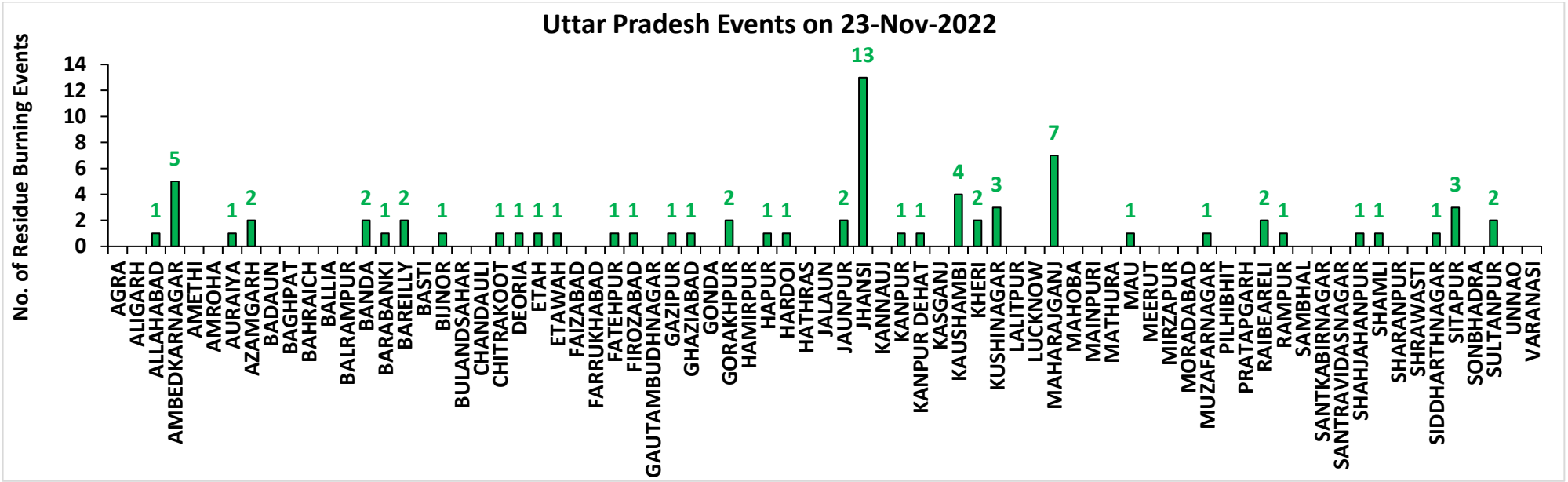


73 burning events detected in Uttar Pradesh on (23rd Nov 2022)

Fire Intensity (W/m²)

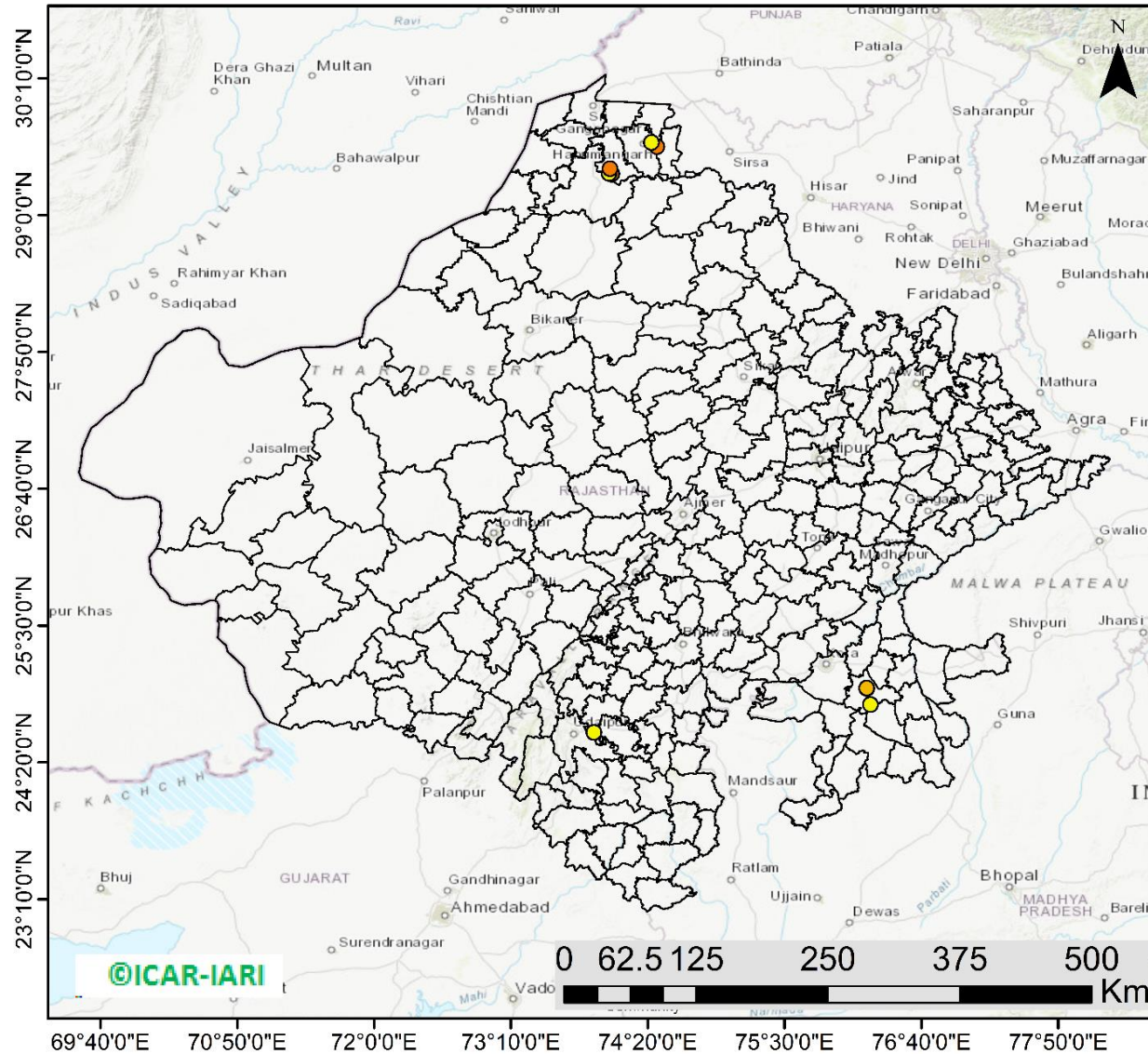
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep- 23Nov-2022)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



10 burning events
detected in Rajasthan on
(23rd Nov 2022)

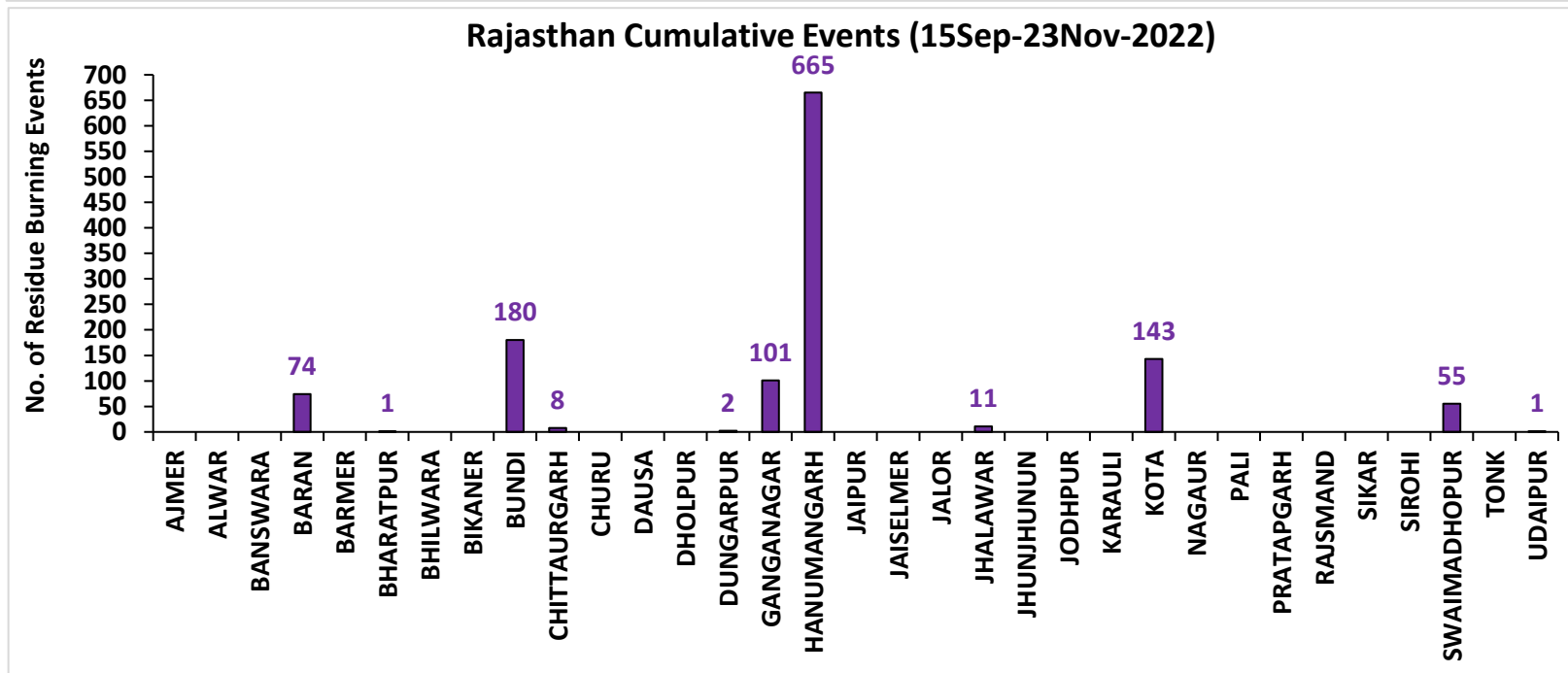
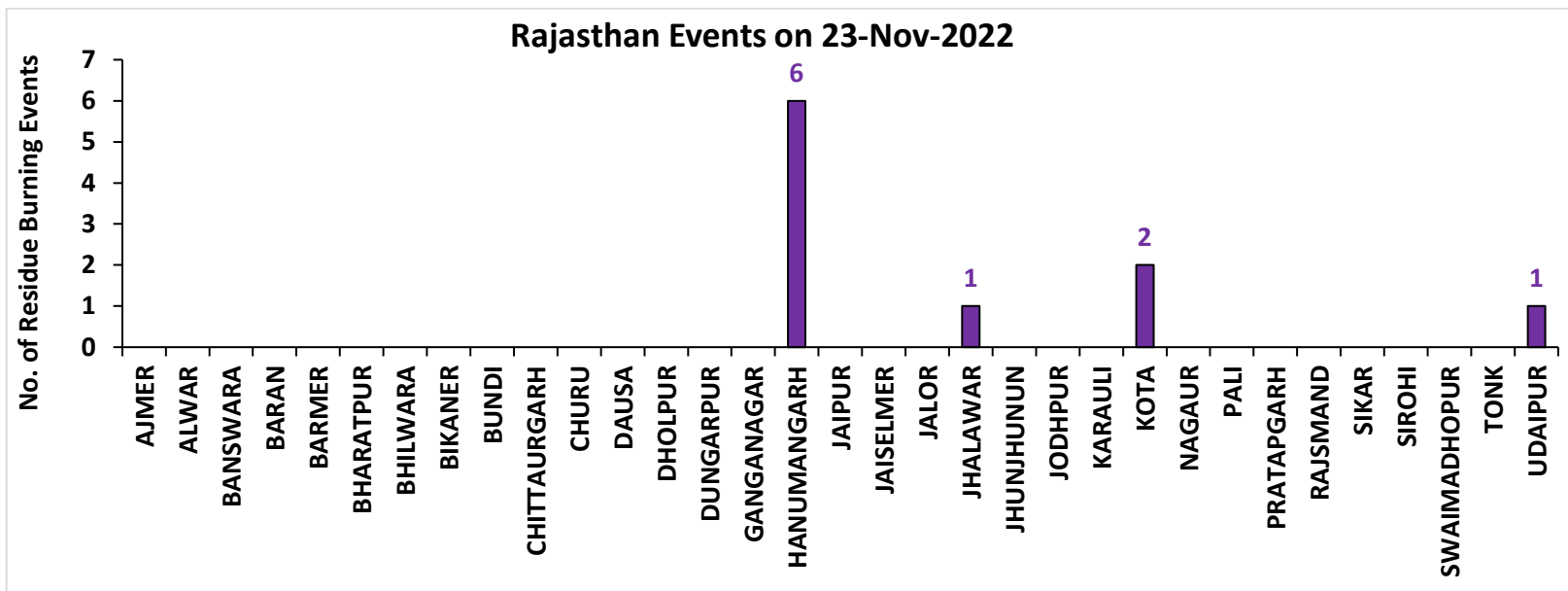
Fire Intensity (W/m²)

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



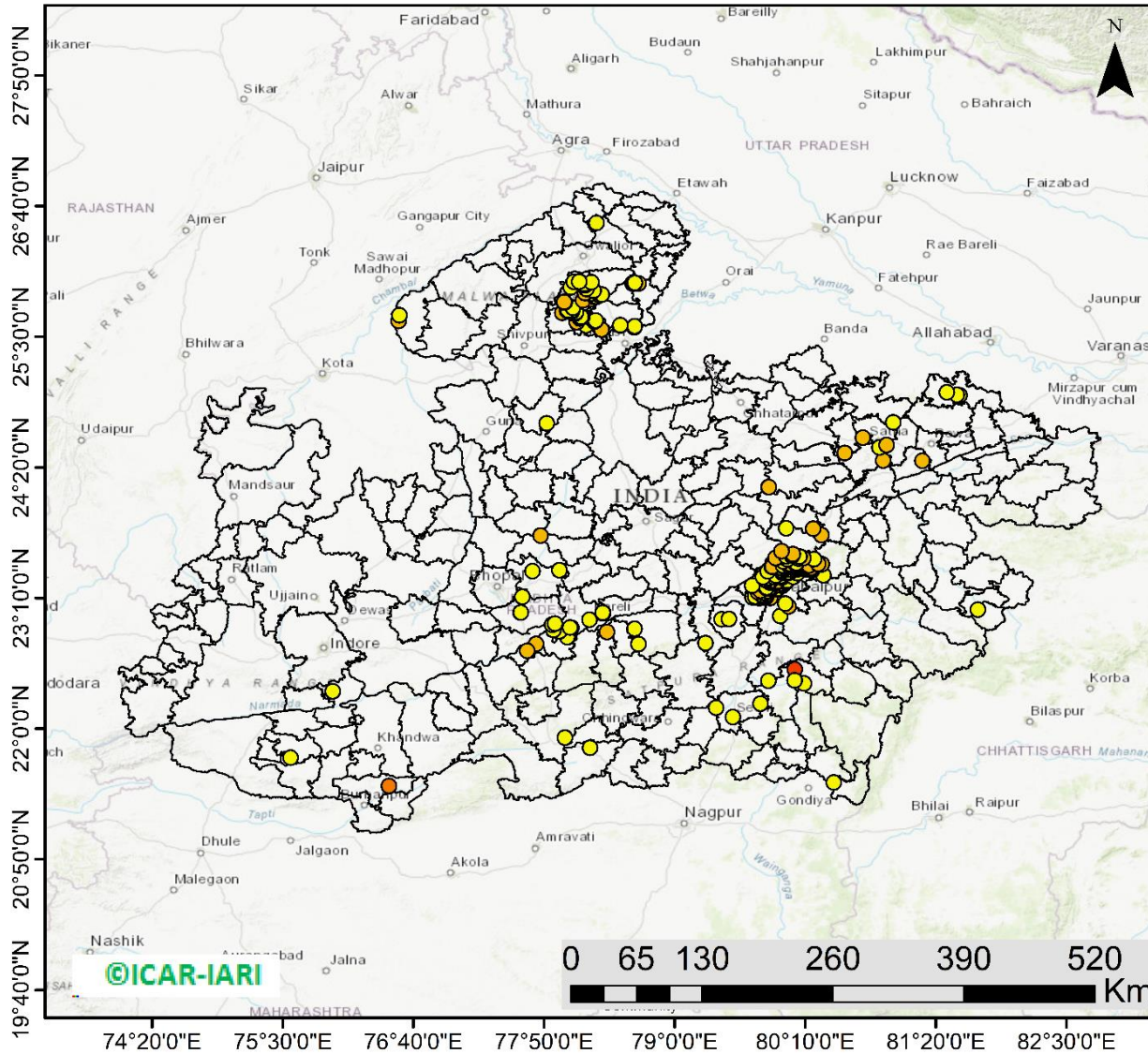
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15Sep- 23Nov-2022)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



259 burning events detected in MP on (23rd Nov 2022)

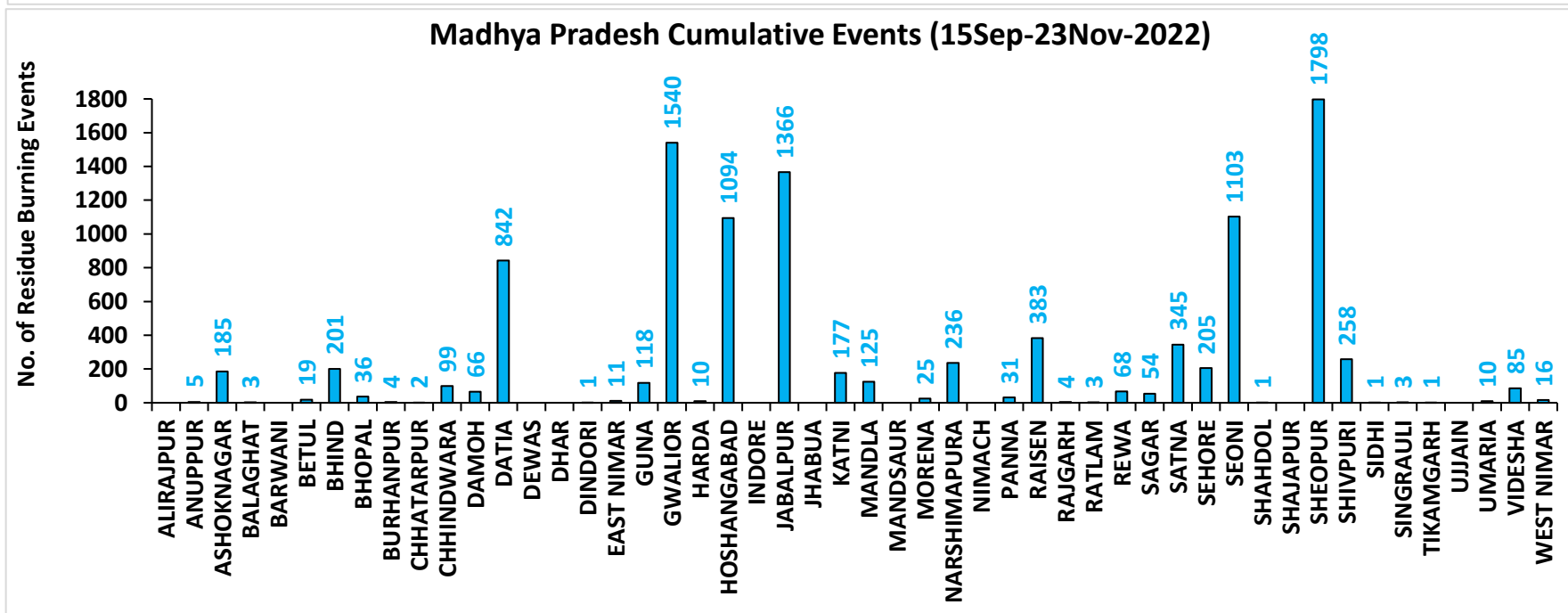
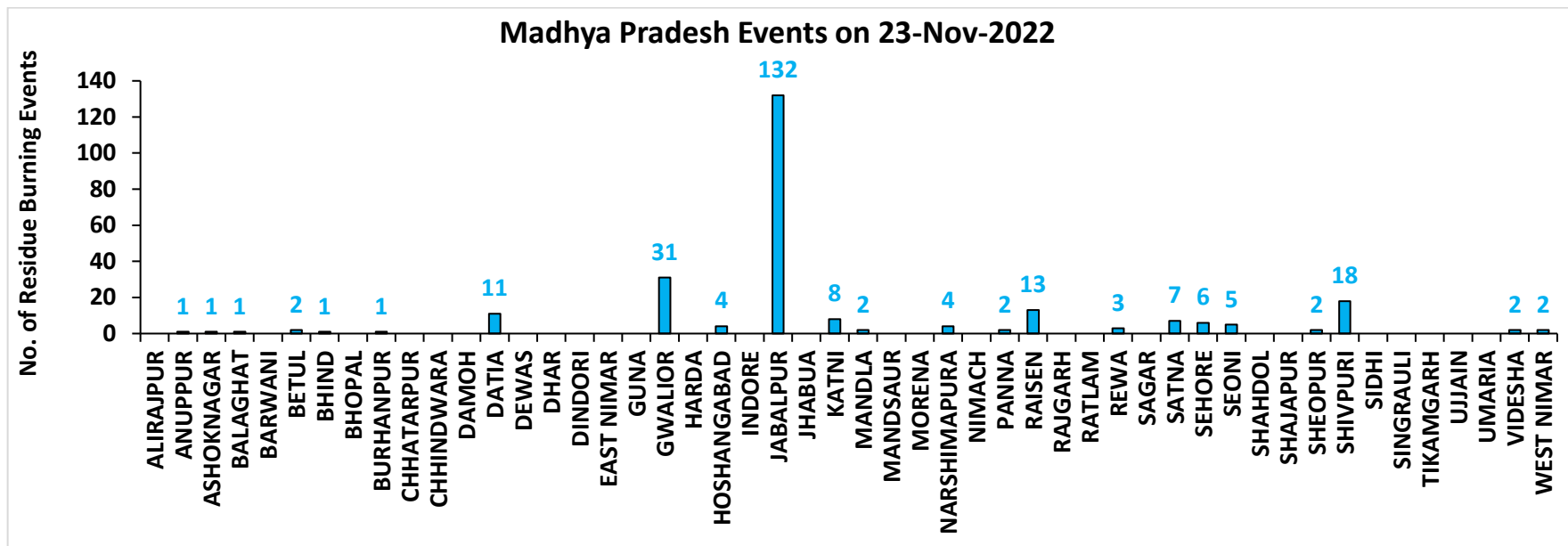
Fire Intensity (W/m²)

- 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- 23Nov-2022)



District-wise cumulative number of residues burning events detected in 2020 ,2021 and 2022
(Period: 15 September-23 November)

(a) Punjab

District	15 Sep-23 Nov 2022		
	2020	2021	2022
Amritsar	3059	2170	1540
Barnala	5336	4325	2909
Bathinda	5226	4477	4577
Faridkot	4727	3948	2685
Fatehgarh Sahib	1536	1718	1148
Fazilka	2523	2373	2554
Firozpur	8508	6283	4550
Gurdaspur	2124	1391	841
Hoshiarpur	386	328	257
Jalandhar	1939	2544	1381
Kapurthala	1883	1796	1275
Ludhiana	5054	5810	2677
Mansa	3778	3203	2805
Moga	7391	6513	3605
Muktsar	4988	4570	3834
Pathankot	13	6	1
Patiala	6431	5418	3392
Rupnagar	205	307	245
Sangrur	11724	9384	5914
SAS NAGAR (Mohali)	127	147	103
SBS Nagar	131	353	270
Tarn Taran	5604	4117	3181
Total	82693	71181	49744

(b) Haryana

District	15 Sep-23 Nov 2022		
	2020	2021	2022
AMBALA	346	301	223
BHIWANI	4	10	7
CHARKHI DADRI	0	0	1
FARIDABAD	1	3	1
FATEHABAD	837	1458	755
GURGAON	0	0	0
HISAR	52	215	106
JHAJJAR	6	7	6
JIND	343	895	520
KAITHAL	838	1152	638
KARNAL	581	952	297
KURUKSHETRA	406	538	299
MAHENDRAGARH	0	0	0
MEWAT	0	0	0
PALWAL	46	114	51
PANCHKULA	0	0	0
PANIPAT	50	238	80
REWARI	0	0	0
ROHTAK	48	61	51
SIRSA	246	503	281
SONIPAT	70	199	86
YAMUNANAGAR	142	146	147
Total	4016	6792	3549

(c) Uttar Pradesh

District	15 Sep-23 Nov 2022										
	2020	2021	2022	GAUTAMBUDHNAGAR	14	19	10	MUZAFARNAGAR	48	17	13
AGRA	7	0	0	GAZIPUR	16	22	16	PILHIBHIT	17	210	140
ALIGARH	113	39	42	GHAZIABAD	26	14	7	PRATAPGARH	38	35	19
ALLAHABAD	28	17	12	GONDA	12	11	1	RAIBEARELI	31	66	31
AMBEDKARNAGAR	24	24	25	GORAKHPUR	42	26	26	RAMPUR	162	187	103
AMETHI	3	19	12	HAMIRPUR	6	0	0	SAMBHAL	19	17	12
AMROHA	11	8	4	HAPUR	26	13	5	SANTKABIRNAGAR	29	20	8
AURAIYA	78	65	40	HARDOI	96	101	67	SANTRAVIDASNAGAR	4	5	4
AZAMGARH	47	22	14	HATHRAS	0	0	1	SHAHJAHANPUR	139	404	298
BADAUN	13	16	4	JALAUN	43	0	0	SHAMLI	46	37	10
BAGHPAT	18	12	9	JAUNPUR	40	29	19	SAHARANPUR	93	69	17
BAHRAICH	105	59	21	JHANSI	318	97	109	SHRAWASTI	45	45	17
BALLIA	90	53	31	KANNAUJ	33	6	3	SIDDHARTHANAGAR	73	128	33
BALRAMPUR	67	20	11	KANPUR	29	31	24	SITAPUR	59	46	27
BANDA	24	9	12	KANPUR DEHAT	76	46	46	SONBHADRA	0	2	0
BARABANKI	36	68	56	KASGANJ	3	2	1	SULTANPUR	5	23	22
BAREILLY	76	61	49	KAUSHAMBI	68	77	36	UNNAO	43	28	31
BASTI	54	49	9	KHERI	154	159	133	VARANASI	2	5	0
BIJNOR	40	37	9	KUSHINAGAR	74	28	30	Total	3629	3376	2100
BULANDSAHAR	57	8	15	LALITPUR	3	6	3				
CHANDAULI	3	4	0	LUCKNOW	35	33	14				
CHITRAKOOT	12	9	10	MAHARAJGANJ	51	121	95				
DEORIA	82	27	30	MAHOBA	27	0	0				
ETAH	17	10	6	MAINPURI	63	49	33				
ETAWAH	69	86	48	MATHURA	160	239	30				
FAIZABAD	11	11	4	MAU	25	15	7				
FARRUKHABAD	6	4	1	MEERUT	69	25	26				
FATEHPUR	117	89	81	MIRZAPUR	7	10	2				
FIROZABAD	26	17	10	MORADABAD	26	10	6				

(d) Delhi

District	15 Sep-23 Nov 2022		
	2020	2021	2022
CENTRAL	0	0	0
EAST	0	0	0
NEW DELHI	0	0	0
NORTH	3	3	8
NORTH EAST	0	0	0
NORTH WEST DELHI	3	1	0
SHAHADRA	0	0	0
SOUTH	1	0	0
SOUTH EAST	0	0	0
SOUTH WEST DELHI	0	0	0
WEST DELHI	2	0	1
Total	9	4	9

(e) Rajasthan

District	15 Sep-23 Nov 2022		
	2020	2021	2022
AJMER	3	0	0
ALWAR	9	0	0
BANSWARA	0	0	0
BARAN	167	11	74
BARMER	4	0	0
BHARATPUR	2	3	1
BHILWARA	11	0	0
BIKANER	1	0	0
BUNDI	128	84	180
CHITTAURGARH	2	13	8
CHURU	0	0	0
DAUSA	1	0	0
DHOLPUR	0	0	0
DUNGARPUR	0	0	2
GANGANAGAR	200	134	101
HANUMANGARH	883	885	665
JAIPUR	4	0	0
JAISELMER	5	0	0
JALOR	2	0	0
JHALAWAR	9	1	11
JHUNJHUNUN	1	0	0
JODHPUR	5	0	0
KARAULI	1	0	0
KOTA	116	56	143
NAGAUR	3	0	0
PALI	11	0	0
PRATAPGARH	8	0	0
RAJSMAND	1	0	0
SIKAR	0	0	0
SIROHI	2	0	0
SWAIMADHOPUR	65	34	55
TONK	5	0	0
UDAIPUR	2	1	1
Total	1651	1222	1241

(f) Madhya Pradesh

District	15 Sep-23 Nov 2022						
	2020	2021	2022	PANNA	49	20	31
ALIRAJPUR	0	0	0	RAISEN	593	309	383
ANUPPUR	2	2	5	RAJGARH	11	3	5
ASHOKNAGAR	156	89	185	RATLAM	10	5	3
BALAGHAT	5	4	3	REWA	129	88	68
BARWANI	3	0	0	SAGAR	28	30	54
BETUL	36	14	19	SATNA	554	418	345
BHIND	254	145	201	SEHORE	155	145	205
BHOPAL	49	38	36	SEONI	1229	883	1103
BURHANPUR	16	1	4	SHAHDOL	3	1	1
CHHATARPUR	7	0	2	SHAJAPUR	20	0	0
CHHINDWARA	129	54	99	SHEOPUR	1847	939	1798
DAMOH	75	52	66	SHIVPURI	366	61	258
DATIA	1185	473	842	SIDHI	4	3	1
DEWAS	8	0	0	SINGRAULI	0	6	3
DHAR	43	0	0	TIKAMGARH	4	0	1
DINDORI	0	0	1	UJJAIN	14	0	0
EAST NIMAR	23	7	11	UMARIA	7	6	10
GUNA	67	10	118	VIDESHA	137	94	85
GWALIOR	2008	440	1540	WEST NIMAR	66	10	16
HARDA	14	21	10	Total	13535	6587	10534
HOSHANGABAD	1057	1061	1094				
INDORE	4	0	0				
JABALPUR	2359	787	1365				
JHABUA	0	0	0				
KATNI	313	89	177				
MANDLA	142	96	125				
MANDSAUR	13	0	0				
MORENA	62	37	25				
NARSHIMAPURA	277	146	236				
NIMACH	2	0	0				

State-wise and date-wise number of paddy residue burning events detected in 2020, 2021 and 2022
(Period: 15 September - 23 November 2022)

Number of Paddy Residue Burning Events Detected

	Punjab			Haryana			Uttar Pradesh			Delhi			Rajasthan			Madhya Pradesh		
	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022
15-Sep	5	0	14	2	0	0	1	0	0	0	0	0	1	0	0	2	0	0
16-Sep	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Sep	5	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Sep	17	9	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
19-Sep	30	5	18	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
20-Sep	67	8	10	6	0	0	2	0	0	0	0	0	0	0	0	0	0	0
21-Sep	54	0	56	2	0	0	1	0	0	0	0	0	1	0	1	2	0	0
22-Sep	34	0	30	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
23-Sep	49	0	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
24-Sep	78	5	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
25-Sep	184	11	0	11	0	0	5	0	0	0	0	0	1	0	0	0	0	0
26-Sep	190	19	0	5	0	0	8	0	0	0	0	0	1	0	0	2	0	0
27-Sep	78	37	0	8	0	0	4	1	0	0	0	0	0	0	0	1	0	0
28-Sep	55	28	0	6	1	0	1	6	0	0	0	0	0	0	0	1	1	0
29-Sep	63	64	0	9	4	0	6	10	0	0	0	0	3	0	0	0	4	0
30-Sep	116	27	8	22	2	0	13	13	10	1	0	0	1	0	0	5	0	0
01-Oct	165	13	45	15	4	1	7	13	3	0	0	0	4	1	1	13	0	1
02-Oct	141	0	83	30	2	7	12	0	36	1	0	0	7	0	3	12	0	1
03-Oct	110	9	75	8	6	8	4	3	29	0	0	0	9	0	2	5	1	5
04-Oct	162	23	65	29	2	7	8	0	2	0	0	0	15	0	0	4	2	0
05-Oct	161	18	130	17	3	24	14	2	0	0	0	2	14	0	1	13	1	0
06-Oct	171	42	85	30	0	26	12	1	0	1	0	0	16	0	0	37	1	0
07-Oct	197	72	62	32	11	6	41	13	0	0	0	0	14	1	1	31	1	0
08-Oct	95	108	19	29	27	0	25	11	0	0	0	0	11	0	0	17	2	0

09-Oct	121	114	3	20	39	1	15	20	0	0	0	0	12	0	0	15	4	0
10-Oct	232	150	4	33	95	2	9	54	0	0	0	0	14	1	0	18	10	0
11-Oct	377	64	45	90	51	0	23	28	0	0	0	0	21	7	1	32	2	0
12-Oct	388	97	104	69	51	4	46	23	0	0	0	0	24	1	2	44	1	1
13-Oct	266	132	120	47	91	15	36	42	0	0	0	0	7	5	2	21	2	7
14-Oct	605	229	82	69	98	30	9	68	5	0	0	0	16	1	1	15	11	1
15-Oct	449	660	169	106	363	36	15	149	0	0	0	0	9	8	2	8	27	2
16-Oct	654	429	206	80	176	76	21	121	6	1	0	0	12	2	4	23	13	2
17-Oct	1172	14	403	143	0	86	38	39	7	0	0	0	26	0	4	63	1	11
18-Oct	938	57	342	166	1	134	76	0	30	0	0	1	37	2	12	88	0	15
19-Oct	1080	496	436	72	55	122	43	5	36	0	0	0	27	5	12	49	1	12
20-Oct	890	788	96	62	155	78	31	1	17	0	0	0	26	4	4	9	21	7
21-Oct	1392	597	393	101	131	107	25	5	23	2	0	0	32	2	6	112	30	18
22-Oct	1665	1111	582	128	140	122	32	3	18	0	0	0	29	5	12	183	29	31
23-Oct	1438	620	902	106	218	217	84	8	109	1	0	0	23	7	20	204	32	70
24-Oct	911	0	1019	57	38	250	63	11	212	0	0	2	20	4	7	150	34	26
25-Oct	1416	76	181	155	71	12	50	18	9	1	0	0	18	2	4	144	60	0
26-Oct	2126	329	1238	77	175	123	33	41	23	0	0	0	34	3	21	178	55	57
27-Oct	2563	279	1111	96	93	83	40	58	23	0	0	0	42	1	21	294	62	38
28-Oct	3232	906	2067	139	149	123	87	35	34	0	0	0	45	4	46	537	110	143
29-Oct	1624	1353	1898	52	161	112	139	32	73	0	0	0	29	23	37	349	97	151
30-Oct	3946	1373	1761	100	148	112	50	53	43	0	0	0	17	20	55	428	168	119
31-Oct	3531	2895	2131	108	353	70	49	170	20	0	0	0	37	15	36	455	299	112
01-Nov	3835	1796	1842	151	124	88	74	157	9	0	0	1	51	5	27	709	198	142
02-Nov	4098	3001	3634	111	203	166	82	87	25	0	0	0	55	19	63	820	214	284
03-Nov	2818	2512	2666	93	197	128	197	66	40	1	0	1	34	20	54	771	148	323
04-Nov	4584	3032	2437	72	228	63	152	123	61	0	0	2	46	19	34	618	123	348
05-Nov	4529	5327	2817	66	331	90	52	70	24	0	0	0	46	45	91	474	320	319
06-Nov	5382	3942	599	151	219	46	43	208	28	0	0	0	40	32	27	678	248	392
07-Nov	5491	5199	2487	150	182	37	86	46	8	0	0	0	57	38	80	848	199	383
08-Nov	3674	4397	604	115	138	11	169	21	44	0	0	0	33	44	5	981	170	783

09-Nov	1718	5079	1778	21	217	69	115	51	58	0	1	0	34	48	22	495	330	570
10-Nov	3127	4008	1893	80	184	35	101	77	33	0	0	0	48	40	34	346	380	282
11-Nov	2822	4156	3916	93	126	152	71	151	36	0	1	0	75	55	95	418	506	482
12-Nov	1989	3403	2467	83	127	99	108	120	36	0	0	0	31	40	84	422	185	421
13-Nov	2441	3742	2175	105	210	132	172	95	102	0	2	0	54	78	63	670	171	773
14-Nov	307	2541	4	35	195	17	258	49	101	0	0	0	16	88	1	294	346	633
15-Nov	32	1761	141	31	129	21	29	67	84	0	0	0	6	51	2	35	353	507
16-Nov	8	1757	1358	0	269	84	15	138	48	0	0	0	16	81	78	145	660	316
17-Nov	248	523	966	9	101	39	38	177	50	0	0	0	60	38	48	191	261	416
18-Nov	670	680	701	60	111	108	62	14	66	0	0	0	75	77	55	352	126	524
19-Nov	454	448	426	37	132	79	129	11	116	0	0	0	27	73	19	124	16	625
20-Nov	677	283	368	77	127	32	134	20	168	0	0	0	59	53	15	106	6	556
21-Nov	457	168	243	65	178	11	135	106	46	0	0	0	57	72	12	159	95	196
22-Nov	46	66	78	15	91	20	120	276	76	0	0	0	9	21	4	165	188	170
23-Nov	43	91	140	52	59	27	106	186	73	0	0	0	66	61	10	150	262	259
Total	82693	71181	49744	4016	6792	3549	3629	3376	2100	9	4	9	1651	1222	1241	13535	6587	10534

Details of residue burning events in Punjab on 23-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	CHOGAWAN	S-NPP	31.70567	74.69269	13:47:53	D	1.70
2	BARNALA	BARNALA	S-NPP	30.25377	75.55717	13:47:53	D	4.50
3	BARNALA	SEHNA	S-NPP	30.45636	75.32513	13:47:53	D	3.00
4	BARNALA	SEHNA	S-NPP	30.49952	75.43534	13:47:53	D	2.40
5	BARNALA	SEHNA	S-NPP	30.50070	75.43747	13:47:53	D	2.90
6	BATHINDA	BHAGTA BHAI KA	AQUA	30.46200	75.19600	14:02:54	D	8.80
7	BATHINDA	BHAGTA BHAI KA	S-NPP	30.46127	75.17490	13:47:53	D	2.60
8	BATHINDA	BHAGTA BHAI KA	S-NPP	30.46439	75.16911	13:47:53	D	10.90
9	BATHINDA	BHAGTA BHAI KA	S-NPP	30.46469	75.16660	13:47:53	D	5.40
10	BATHINDA	BHAGTA BHAI KA	S-NPP	30.46530	75.17179	13:47:53	D	5.40
11	BATHINDA	GONIANA MANDI	S-NPP	30.28316	74.81250	13:47:53	D	4.20
12	BATHINDA	MAUR	AQUA	30.09400	75.09100	14:02:54	D	6.30
13	BATHINDA	MAUR	S-NPP	30.05935	75.11047	13:47:53	D	1.50
14	BATHINDA	NATHANA	S-NPP	30.36711	75.12118	13:47:53	D	8.40
15	BATHINDA	PHUL	AQUA	30.37700	75.17600	14:02:54	D	10.10
16	BATHINDA	PHUL	AQUA	30.38700	75.17400	14:02:54	D	20.00
17	BATHINDA	PHUL	AQUA	30.38900	75.18700	14:02:54	D	12.50
18	BATHINDA	RAMPURA	S-NPP	30.21800	75.28742	13:47:53	D	3.90
19	BATHINDA	SANGAT	S-NPP	30.13273	74.76890	13:47:53	D	6.50
20	BATHINDA	TALWANDI SABO	AQUA	30.03300	75.01600	14:02:54	D	7.70
21	BATHINDA	TALWANDI SABO	S-NPP	30.00286	74.91092	13:47:53	D	4.50
22	FARIDKOT	FARIDKOT	S-NPP	30.76960	74.52292	13:47:53	D	1.50
23	FARIDKOT	JAITON	AQUA	30.39500	74.89400	14:02:54	D	12.30
24	FATEHGARH SAHIB	KHAMANON	S-NPP	30.79681	76.31190	13:47:53	D	10.80
25	FATEHGARH SAHIB	SIRHIND	S-NPP	30.49414	76.36689	13:47:53	D	2.10
26	FATEHGARH SAHIB	SIRHIND	S-NPP	30.49496	76.36459	13:47:53	D	3.30
27	FAZILKA	ABOHAR	S-NPP	30.06366	74.15636	13:47:53	D	1.90
28	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.30511	74.24794	13:47:53	D	2.30
29	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.31108	74.26619	13:47:53	D	2.70

30	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.31226	74.21791	13:47:53	D	7.10
31	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.38288	74.18393	13:47:53	D	1.50
32	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.38942	74.20683	13:47:53	D	1.80
33	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.40606	74.33945	13:47:53	D	1.70
34	FAZILKA	FAZILKA	AQUA	30.40700	74.07500	14:02:54	D	7.60
35	FAZILKA	FAZILKA	S-NPP	30.31865	74.06908	13:47:53	D	5.30
36	FAZILKA	JALALABAD	S-NPP	30.44075	74.20788	13:47:53	D	4.50
37	FAZILKA	JALALABAD	S-NPP	30.47576	74.21407	13:47:53	D	3.80
38	FAZILKA	JALALABAD	S-NPP	30.52717	74.33166	13:47:53	D	3.10
39	FAZILKA	JALALABAD	S-NPP	30.53077	74.36038	13:47:53	D	13.70
40	FAZILKA	JALALABAD	S-NPP	30.53437	74.38921	13:47:53	D	3.40
41	FAZILKA	KHUIAN SARWAR	AQUA	30.26100	74.03500	14:02:54	D	9.20
42	FAZILKA	KHUIAN SARWAR	S-NPP	30.13562	74.13175	13:47:53	D	6.20
43	FAZILKA	KHUIAN SARWAR	S-NPP	30.21499	74.04276	13:47:53	D	2.30
44	FAZILKA	KHUIAN SARWAR	S-NPP	30.21854	74.04217	13:47:53	D	2.30
45	FAZILKA	KHUIAN SARWAR	S-NPP	30.25175	74.00021	13:47:53	D	1.50
46	FAZILKA	KHUIAN SARWAR	S-NPP	30.29433	74.04954	13:47:53	D	3.10
47	FIROZPUR	GHALL KHURD	AQUA	30.95500	74.72900	14:02:54	D	24.40
48	FIROZPUR	GHALL KHURD	AQUA	30.95600	74.72200	14:02:54	D	26.60
49	FIROZPUR	GHALL KHURD	AQUA	30.95700	74.73500	14:02:54	D	27.60
50	FIROZPUR	GHALL KHURD	S-NPP	30.96072	74.73048	13:47:53	D	1.90
51	FIROZPUR	GURUHAR SAHAI	AQUA	30.57800	74.37500	14:02:54	D	73.40
52	FIROZPUR	GURUHAR SAHAI	AQUA	30.58800	74.37400	14:02:54	D	38.50
53	FIROZPUR	GURUHAR SAHAI	AQUA	30.69300	74.32600	14:02:54	D	7.50
54	FIROZPUR	GURUHAR SAHAI	AQUA	30.69800	74.28800	14:02:54	D	6.20
55	FIROZPUR	GURUHAR SAHAI	S-NPP	30.73032	74.38512	13:47:53	D	6.10
56	FIROZPUR	MAMDOT	AQUA	30.87100	74.44700	14:02:54	D	11.00
57	HOSHIARPUR	DASUYA	S-NPP	31.87739	75.59922	13:47:53	D	3.40
58	JALANDHAR	MEHATPUR	S-NPP	31.09345	75.43759	13:47:53	D	3.50
59	JALANDHAR	MEHATPUR	S-NPP	31.09728	75.43700	13:47:53	D	3.50
60	JALANDHAR	RURKA KALAN	S-NPP	31.20472	75.61018	13:47:53	D	5.30
61	LUDHIANA	JAGRAON	AQUA	30.71400	75.45000	14:02:54	D	11.00
62	LUDHIANA	JAGRAON	S-NPP	30.80502	75.61742	13:47:53	D	7.20

63	LUDHIANA	RAIKOT	S-NPP	30.69206	75.50291	13:47:53	D	5.10
64	LUDHIANA	SIDHWAN BET	S-NPP	30.85442	75.62981	13:47:53	D	5.90
65	LUDHIANA	SIDHWAN BET	S-NPP	30.95124	75.36721	13:47:53	D	12.60
66	LUDHIANA	SIDHWAN BET	S-NPP	30.95505	75.36662	13:47:53	D	5.40
67	LUDHIANA	SUDHAR	AQUA	30.79500	75.69600	14:02:54	D	8.40
68	LUDHIANA	SUDHAR	AQUA	30.79700	75.71100	14:02:54	D	7.70
69	LUDHIANA	SUDHAR	AQUA	30.80200	75.70400	14:02:54	D	12.50
70	MANSA	BHIKHI	S-NPP	30.15847	75.36351	13:47:53	D	3.60
71	MANSA	BUDHLADA	S-NPP	29.91150	75.64390	13:47:53	D	9.20
72	MANSA	MANSA	S-NPP	29.93324	75.37106	13:47:53	D	3.90
73	MANSA	SARDULGARH	S-NPP	29.71617	75.25800	13:47:53	D	3.20
74	MOGA	BAGHA PURANA	AQUA	30.58600	75.13100	14:02:54	D	8.80
75	MOGA	BAGHA PURANA	AQUA	30.72800	75.04200	14:02:54	D	8.70
76	MOGA	BAGHA PURANA	AQUA	30.72900	75.05600	14:02:54	D	6.60
77	MOGA	BAGHA PURANA	S-NPP	30.59092	75.13422	13:47:53	D	4.40
78	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.00636	75.24370	13:47:53	D	8.40
79	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.00885	75.24144	13:47:53	D	23.90
80	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.01015	75.24310	13:47:53	D	9.00
81	MOGA	MOGA-1	S-NPP	30.84178	75.34816	13:47:53	D	4.50
82	MOGA	MOGA-2	S-NPP	30.85461	75.16193	13:47:53	D	25.50
83	MOGA	NIHAL SINGH	AQUA	30.56100	75.34500	14:02:54	D	8.50
84	MOGA	NIHAL SINGH	AQUA	30.56300	75.35900	14:02:54	D	9.30
85	MOGA	NIHAL SINGH	S-NPP	30.55978	75.35526	13:47:53	D	16.70
86	MOGA	NIHAL SINGH	S-NPP	30.57549	75.26113	13:47:53	D	6.00
87	MUKTSAR	KOT BHAI AT GIDDERBAHA	AQUA	30.30700	74.57600	14:02:54	D	10.60
88	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.33436	74.63005	13:47:53	D	15.10
89	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.41015	74.70528	13:47:53	D	6.10
90	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.41113	74.70784	13:47:53	D	5.50
91	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.41288	74.66231	13:47:53	D	1.90
92	MUKTSAR	LAMBI	AQUA	29.95800	74.55800	14:02:54	D	11.50
93	MUKTSAR	LAMBI	AQUA	30.11300	74.57000	14:02:54	D	7.70
94	MUKTSAR	LAMBI	AQUA	30.11700	74.61200	14:02:54	D	7.60
95	MUKTSAR	LAMBI	AQUA	30.11900	74.61900	14:02:54	D	7.00

96	MUKTSAR	LAMBI	S-NPP	29.93562	74.55350	13:47:53	D	5.30
97	MUKTSAR	LAMBI	S-NPP	29.96278	74.56373	13:47:53	D	4.10
98	MUKTSAR	LAMBI	S-NPP	29.96306	74.56158	13:47:53	D	3.10
99	MUKTSAR	LAMBI	S-NPP	30.01437	74.52868	13:47:53	D	2.90
100	MUKTSAR	LAMBI	S-NPP	30.03125	74.57491	13:47:53	D	2.60
101	MUKTSAR	LAMBI	S-NPP	30.11776	74.61677	13:47:53	D	3.50
102	MUKTSAR	LAMBI	S-NPP	30.11835	74.62163	13:47:53	D	4.50
103	MUKTSAR	MALOUT	AQUA	30.37400	74.47800	14:02:54	D	32.00
104	MUKTSAR	MALOUT	AQUA	30.37700	74.47000	14:02:54	D	15.60
105	MUKTSAR	MALOUT	AQUA	30.37900	74.48300	14:02:54	D	15.40
106	MUKTSAR	MALOUT	S-NPP	30.25010	74.37154	13:47:53	D	4.00
107	MUKTSAR	MALOUT	S-NPP	30.26267	74.35489	13:47:53	D	8.70
108	MUKTSAR	MALOUT	S-NPP	30.26367	74.35630	13:47:53	D	8.50
109	MUKTSAR	MALOUT	S-NPP	30.32306	74.36100	13:47:53	D	4.60
110	MUKTSAR	MALOUT	S-NPP	30.34467	74.35742	13:47:53	D	4.20
111	MUKTSAR	MUKTSAR	AQUA	30.37500	74.37200	14:02:54	D	8.30
112	MUKTSAR	MUKTSAR	AQUA	30.40200	74.42900	14:02:54	D	8.00
113	MUKTSAR	MUKTSAR	AQUA	30.45700	74.39500	14:02:54	D	18.20
114	MUKTSAR	MUKTSAR	AQUA	30.45800	74.39000	14:02:54	D	12.00
115	MUKTSAR	MUKTSAR	AQUA	30.46000	74.40200	14:02:54	D	7.40
116	MUKTSAR	MUKTSAR	AQUA	30.51600	74.38000	14:02:54	D	10.20
117	MUKTSAR	MUKTSAR	AQUA	30.56200	74.40300	14:02:54	D	32.50
118	MUKTSAR	MUKTSAR	AQUA	30.56300	74.41500	14:02:54	D	40.10
119	MUKTSAR	MUKTSAR	AQUA	30.58000	74.38800	14:02:54	D	54.30
120	MUKTSAR	MUKTSAR	AQUA	30.58900	74.38600	14:02:54	D	12.20
121	MUKTSAR	MUKTSAR	S-NPP	30.35745	74.54672	13:47:53	D	10.20
122	MUKTSAR	MUKTSAR	S-NPP	30.37300	74.40638	13:47:53	D	22.20
123	MUKTSAR	MUKTSAR	S-NPP	30.37350	74.40342	13:47:53	D	30.70
124	MUKTSAR	MUKTSAR	S-NPP	30.37593	74.37171	13:47:53	D	9.70
125	MUKTSAR	MUKTSAR	S-NPP	30.37659	74.36871	13:47:53	D	5.00
126	MUKTSAR	MUKTSAR	S-NPP	30.38623	74.35735	13:47:53	D	2.20
127	MUKTSAR	MUKTSAR	S-NPP	30.42381	74.60270	13:47:53	D	4.50
128	MUKTSAR	MUKTSAR	S-NPP	30.46138	74.39864	13:47:53	D	3.60

129	MUKTSAR	MUKTSAR	S-NPP	30.51872	74.38198	13:47:53	D	6.50
130	MUKTSAR	MUKTSAR	S-NPP	30.54944	74.39162	13:47:53	D	70.50
131	MUKTSAR	MUKTSAR	S-NPP	30.55184	74.38140	13:47:53	D	5.20
132	MUKTSAR	MUKTSAR	S-NPP	30.55428	74.51932	13:47:53	D	2.00
133	MUKTSAR	MUKTSAR	S-NPP	30.56271	74.40910	13:47:53	D	3.90
134	MUKTSAR	MUKTSAR	S-NPP	30.56694	74.41333	13:47:53	D	3.90
135	MUKTSAR	MUKTSAR	S-NPP	30.57174	74.39285	13:47:53	D	9.60
136	MUKTSAR	MUKTSAR	S-NPP	30.57902	74.42118	13:47:53	D	2.70
137	MUKTSAR	MUKTSAR	S-NPP	30.58469	74.64449	13:47:53	D	4.70
138	MUKTSAR	MUKTSAR	S-NPP	30.58592	74.38278	13:47:53	D	1.50
139	MUKTSAR	MUKTSAR	S-NPP	30.62858	74.48943	13:47:53	D	3.50
140	TARN TARAN	PATTI	S-NPP	31.17397	74.75233	13:47:53	D	3.70

Details of residue burning events in Haryana on 23-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-II	S-NPP	30.32396	76.72002	13:47:53	D	2.00
2	FATEHABAD	FATEHABAD	S-NPP	29.52395	75.31873	13:47:53	D	2.70
3	FATEHABAD	RATIA	S-NPP	29.64984	75.50175	13:47:53	D	4.70
4	FATEHABAD	RATIA	S-NPP	29.73639	75.51893	13:47:53	D	2.20
5	FATEHABAD	RATIA	S-NPP	29.74017	75.51835	13:47:53	D	8.10
6	FATEHABAD	RATIA	S-NPP	29.76479	75.53863	13:47:53	D	3.80
7	FATEHABAD	RATIA	S-NPP	29.76545	75.53592	13:47:53	D	2.70
8	HISAR	HANSI-II	S-NPP	29.10869	76.25656	13:47:53	D	4.90
9	HISAR	HANSI-II	S-NPP	29.11641	76.28973	13:47:53	D	1.80
10	JIND	JIND	AQUA	29.30000	76.21500	14:02:54	D	7.90
11	JIND	JIND	S-NPP	29.30633	76.21803	13:47:53	D	3.90
12	JIND	JIND	S-NPP	29.30670	76.22015	13:47:53	D	3.90
13	KAITHAL	PUNDRI	S-NPP	29.81972	76.66095	13:47:53	D	1.70
14	PANIPAT	MADLAUDA	S-NPP	29.43165	76.80050	13:47:53	D	2.10
15	ROHTAK	LAKHAN MAJRA	S-NPP	29.06325	76.55546	13:47:53	D	7.70
16	ROHTAK	MEHAM	S-NPP	28.97256	76.48306	13:47:53	D	3.90
17	ROHTAK	MEHAM	S-NPP	29.02211	76.40358	13:47:53	D	20.30
18	ROHTAK	MEHAM	S-NPP	29.06610	76.36824	13:47:53	D	3.00
19	SIRSA	BARAGUNDA	AQUA	29.60200	75.06200	14:02:54	D	10.70
20	SIRSA	BARAGUNDA	S-NPP	29.60195	75.06510	13:47:53	D	3.00
21	SIRSA	RANIA	S-NPP	29.51732	74.82470	13:47:53	D	2.60
22	SONIPAT	KATHURA	S-NPP	29.08775	76.59338	13:47:53	D	2.70
23	SONIPAT	MUNDLANA	S-NPP	29.20018	76.60504	13:47:53	D	4.70
24	SONIPAT	MUNDLANA	S-NPP	29.23085	76.66055	13:47:53	D	3.40
25	SONIPAT	MUNDLANA	S-NPP	29.27294	76.62923	13:47:53	D	4.20
26	YAMUNANAGAR	JAGADHRI	S-NPP	30.18077	77.37177	13:47:53	D	2.90
27	YAMUNANAGAR	JAGADHRI	S-NPP	30.18145	77.37095	13:47:53	D	1.80

Details of residue burning events in Uttar Pradesh on 23-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ALLAHABAD	BARA	S-NPP	25.18154	81.76198	00:57:36	N	0.70
2	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.33299	82.41655	13:47:53	D	4.00
3	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.37012	82.53048	13:47:53	D	3.20
4	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.37568	82.52996	13:47:53	D	2.20
5	AMBEDKARNAGAR	JALALPUR	S-NPP	26.38068	82.73261	13:47:53	D	3.20
6	AMBEDKARNAGAR	JALALPUR	S-NPP	26.40785	82.71754	13:47:53	D	5.60
7	AURAIYA	BIDHUNA	S-NPP	26.65924	79.42557	02:37:53	N	0.50
8	AZAMGARH	LALGANJ	S-NPP	25.76159	83.02550	13:47:53	D	2.50
9	AZAMGARH	PHULPUR	TERRA	25.92600	82.84700	10:27:41	D	4.40
10	BANDA	BABERU	S-NPP	25.64716	80.77692	13:47:53	D	8.80
11	BANDA	BANDA	TERRA	25.48600	80.43900	10:27:41	D	4.20
12	BARABANKI	HAIARGARH	S-NPP	26.62513	81.49704	13:47:53	D	1.80
13	BAREILLY	BAHERI	S-NPP	28.81517	79.59401	13:47:53	D	2.50
14	BAREILLY	NAWABGANJ	S-NPP	28.44897	79.64253	13:47:53	D	2.40
15	BIJNOR	BIJNOR	S-NPP	29.45978	78.16378	13:47:53	D	2.10
16	CHITRAKOOT	MAU	S-NPP	25.28165	81.29285	13:47:53	D	2.20
17	DEORIA	DEORIA	S-NPP	26.61978	83.71294	13:47:53	D	6.10
18	ETAH	JALESAR	S-NPP	27.46178	78.45289	13:47:53	D	2.60
19	ETAWAH	BHARTHNA	S-NPP	26.62263	79.22002	13:47:53	D	2.20
20	FATEHPUR	KHAGA	S-NPP	25.74892	81.22536	02:37:53	N	1.90
21	FIROZABAD	JASRANA	S-NPP	27.41242	78.57710	13:47:53	D	8.80
22	GAZIPUR	GAZIPUR	S-NPP	25.68917	83.60247	13:47:53	D	3.10
23	GHAZIABAD	MODINAGAR	S-NPP	28.89519	77.44298	13:47:53	D	2.90
24	GORAKHPUR	CHAURI CHAURA	S-NPP	26.70306	83.60757	12:09:01	D	2.90
25	GORAKHPUR	GORAKHPUR	S-NPP	26.90584	83.49043	12:09:01	D	3.20
26	HAPUR	HAPUR	S-NPP	28.69874	77.92162	13:47:53	D	5.50
27	HARDOI	HARDOI	S-NPP	27.36956	80.27428	02:37:53	N	0.70
28	JAUNPUR	KIRAKAT	S-NPP	25.61069	82.90974	13:47:53	D	2.90
29	JAUNPUR	KIRAKAT	S-NPP	25.61289	82.90897	13:47:53	D	3.20

30	JHANSI	JHANSI	AQUA	25.49000	78.68100	14:02:54	D	11.50
31	JHANSI	JHANSI	S-NPP	25.48691	78.68847	13:47:53	D	4.00
32	JHANSI	JHANSI	S-NPP	25.51895	78.68558	13:47:53	D	7.40
33	JHANSI	JHANSI	S-NPP	25.52145	78.68403	13:47:53	D	4.60
34	JHANSI	MOTH	S-NPP	25.65960	78.84455	13:47:53	D	7.10
35	JHANSI	MOTH	S-NPP	25.66009	78.84917	13:47:53	D	8.10
36	JHANSI	MOTH	S-NPP	25.66981	78.85733	13:47:53	D	13.00
37	JHANSI	MOTH	S-NPP	25.67418	78.85677	13:47:53	D	4.90
38	JHANSI	MOTH	S-NPP	25.67807	78.85157	13:47:53	D	12.10
39	JHANSI	MOTH	S-NPP	25.70813	79.00953	13:47:53	D	3.90
40	JHANSI	MOTH	S-NPP	25.74647	78.90908	13:47:53	D	7.50
41	JHANSI	MOTH	S-NPP	25.81258	78.86081	13:47:53	D	9.00
42	JHANSI	TAHRAULI	S-NPP	25.62110	78.85772	13:47:53	D	3.30
43	KANPUR	KANPUR NAGAR	S-NPP	26.32687	80.26490	13:47:53	D	5.30
44	KANPUR DEHAT	SIKANDRA	S-NPP	26.42113	79.60126	13:47:53	D	7.20
45	KAUSHAMBI	CHAIL	S-NPP	25.49289	81.52556	13:47:53	D	2.40
46	KAUSHAMBI	MANJHANPUR	TERRA	25.40900	81.35000	10:27:41	D	7.30
47	KAUSHAMBI	MANJHANPUR	TERRA	25.50100	81.27700	10:27:41	D	7.10
48	KAUSHAMBI	MANJHANPUR	S-NPP	25.48377	81.24799	13:47:53	D	2.20
49	KHERI	LAKHIMPUR	S-NPP	27.86027	80.78433	13:47:53	D	1.60
50	KHERI	NIGHASAN	S-NPP	28.27721	80.78876	12:09:01	D	3.90
51	KUSHINAGAR	KASAYA	S-NPP	26.61703	84.05728	12:09:01	D	3.30
52	KUSHINAGAR	KASAYA	S-NPP	26.62013	84.04811	13:47:53	D	4.40
53	KUSHINAGAR	KASAYA	S-NPP	26.62036	84.05024	13:47:53	D	6.70
54	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.12108	83.49569	13:47:53	D	6.80
55	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.12401	83.49365	13:47:53	D	5.40
56	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.21385	83.53149	13:47:53	D	6.60
57	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.21636	83.52954	13:47:53	D	8.10
58	MAHARAJGANJ	NICHLAUL	S-NPP	27.12209	83.69399	12:09:01	D	4.80
59	MAHARAJGANJ	NICHLAUL	S-NPP	27.24609	83.68894	13:47:53	D	4.00
60	MAHARAJGANJ	NICHLAUL	S-NPP	27.36180	83.74554	12:09:01	D	3.10
61	MAU	MAU	S-NPP	25.90209	83.49006	13:47:53	D	3.70
62	MUZAFARNAGAR	MUZAFFARNAGAR	S-NPP	29.40305	77.56727	13:47:53	D	2.40
63	RAIBEARELI	MAHARAJGANG	S-NPP	26.35513	81.36160	13:47:53	D	3.10

64	RAIBEARELI	SALON	S-NPP	26.05249	81.34679	13:47:53	D	6.30
65	RAMPUR	BILASPUR	S-NPP	28.95492	79.23584	13:47:53	D	4.40
66	SHAHJAHANPUR	PUWANYA	TERRA	28.20500	80.16100	10:27:41	D	13.40
67	SHAMLI	SHAMLI	S-NPP	29.50995	77.44578	13:47:53	D	7.90
68	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.21174	83.15275	13:47:53	D	3.40
69	SITAPUR	BISWAN	S-NPP	27.61281	81.18225	13:47:53	D	1.10
70	SITAPUR	MISRIK	TERRA	27.70100	80.53200	10:27:41	D	6.10
71	SITAPUR	MISRIK	S-NPP	27.71077	80.45335	13:47:53	D	5.50
72	SULTANPUR	KADIRPUR	S-NPP	26.25426	82.43580	00:57:36	N	0.40
73	SULTANPUR	KADIRPUR	S-NPP	26.25447	82.43828	00:57:36	N	0.40

Details of residue burning events in Rajasthan on 23-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	HANUMANGARH	HANUMANGARH	S-NPP	29.61823	74.36487	13:47:53	D	2.70
2	HANUMANGARH	HANUMANGARH	S-NPP	29.61988	74.36600	13:47:53	D	2.40
3	HANUMANGARH	PILIBANGA	S-NPP	29.35134	74.02799	13:47:53	D	12.00
4	HANUMANGARH	PILIBANGA	S-NPP	29.35539	74.00442	13:47:53	D	2.50
5	HANUMANGARH	PILIBANGA	S-NPP	29.39576	74.01246	13:47:53	D	10.30
6	HANUMANGARH	TIBI	AQUA	29.58400	74.41200	14:02:54	D	11.40
7	JHALAWAR	KHANPUR	S-NPP	24.82555	76.23338	02:37:53	N	0.40
8	KOTA	SANGOD	S-NPP	24.96246	76.20131	13:47:53	D	7.20
9	KOTA	SANGOD	S-NPP	24.96617	76.20076	13:47:53	D	7.20
10	UDAIPUR	MAVLI	S-NPP	24.58705	73.87485	13:47:53	D	5.00

Details of residue burning events in Madhya Pradesh on 23-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ANUPPUR	ANUPUR	S-NPP	23.06242	81.70927	13:47:53	D	1.50
2	ASHOKNAGAR	ISAGARH	S-NPP	24.72662	77.85819	13:47:53	D	2.30
3	BALAGHAT	LANJI	S-NPP	21.51911	80.42265	13:47:53	D	3.80
4	BETUL	BETUL	S-NPP	21.91844	78.02143	13:47:53	D	3.20
5	BETUL	MULTAI	S-NPP	21.82855	78.24546	13:47:53	D	5.00
6	BHIND	GOHAD	S-NPP	26.51583	78.30408	13:47:53	D	2.50
7	BURHANPUR	NEPANAGAR	AQUA	21.48700	76.45000	14:02:54	D	11.10
8	DATIA	DATIA	S-NPP	25.56465	78.34869	13:47:53	D	7.10
9	DATIA	DATIA	S-NPP	25.58412	78.64060	13:47:53	D	5.00
10	DATIA	DATIA	S-NPP	25.59324	78.64399	13:47:53	D	4.20
11	DATIA	DATIA	S-NPP	25.60080	78.51643	13:47:53	D	3.50
12	DATIA	DATIA	S-NPP	25.60320	78.51684	13:47:53	D	1.50
13	DATIA	DATIA	S-NPP	25.64381	78.29533	13:47:53	D	1.60
14	DATIA	SEONDHA	AQUA	25.97600	78.62500	14:02:54	D	14.80
15	DATIA	SEONDHA	AQUA	25.97800	78.64300	14:02:54	D	23.40
16	DATIA	SEONDHA	S-NPP	25.97552	78.67851	13:47:53	D	7.50
17	DATIA	SEONDHA	S-NPP	25.97983	78.63629	13:47:53	D	9.80
18	DATIA	SEONDHA	S-NPP	25.98080	78.64541	13:47:53	D	2.60
19	GWALIOR	BHITARWAR	AQUA	25.80700	78.01600	14:02:54	D	13.80
20	GWALIOR	BHITARWAR	AQUA	25.99200	78.15000	14:02:54	D	15.80
21	GWALIOR	BHITARWAR	S-NPP	25.72542	78.06744	13:47:53	D	3.80
22	GWALIOR	BHITARWAR	S-NPP	25.72730	78.08416	13:47:53	D	2.90
23	GWALIOR	BHITARWAR	S-NPP	25.73093	78.04143	13:47:53	D	2.40
24	GWALIOR	BHITARWAR	S-NPP	25.73100	78.07941	13:47:53	D	2.80
25	GWALIOR	BHITARWAR	S-NPP	25.73604	78.04919	13:47:53	D	3.00
26	GWALIOR	BHITARWAR	S-NPP	25.75793	78.09282	13:47:53	D	3.10
27	GWALIOR	BHITARWAR	S-NPP	25.80508	78.01470	13:47:53	D	5.50
28	GWALIOR	BHITARWAR	S-NPP	25.80554	78.01885	13:47:53	D	5.50
29	GWALIOR	BHITARWAR	S-NPP	25.80924	78.01413	13:47:53	D	5.50

30	GWALIOR	BHITARWAR	S-NPP	25.93989	78.07352	13:47:53	D	3.10
31	GWALIOR	BHITARWAR	S-NPP	25.95829	78.20019	13:47:53	D	3.80
32	GWALIOR	BHITARWAR	S-NPP	25.96298	78.20390	13:47:53	D	3.80
33	GWALIOR	BHITARWAR	S-NPP	25.97045	78.19420	13:47:53	D	2.80
34	GWALIOR	BHITARWAR	S-NPP	25.98612	78.25752	13:47:53	D	3.90
35	GWALIOR	BHITARWAR	S-NPP	25.98973	78.10099	13:47:53	D	3.70
36	GWALIOR	BHITARWAR	S-NPP	25.99002	78.10127	13:47:53	D	3.30
37	GWALIOR	BHITARWAR	S-NPP	25.99087	78.14822	13:47:53	D	2.70
38	GWALIOR	DABRA	AQUA	25.83300	78.25300	14:02:54	D	9.20
39	GWALIOR	DABRA	AQUA	25.87900	78.24700	14:02:54	D	13.30
40	GWALIOR	DABRA	S-NPP	25.82370	78.18282	13:47:53	D	5.50
41	GWALIOR	DABRA	S-NPP	25.85613	78.28282	13:47:53	D	1.80
42	GWALIOR	DABRA	S-NPP	25.85853	78.30442	13:47:53	D	3.10
43	GWALIOR	DABRA	S-NPP	25.86989	78.32933	13:47:53	D	6.60
44	GWALIOR	DABRA	S-NPP	25.87656	78.35055	13:47:53	D	3.00
45	GWALIOR	DABRA	S-NPP	25.88753	78.25673	13:47:53	D	1.80
46	GWALIOR	DABRA	S-NPP	25.88965	78.20000	13:47:53	D	8.40
47	GWALIOR	DABRA	S-NPP	25.88997	78.20074	13:47:53	D	9.40
48	GWALIOR	DABRA	S-NPP	25.91094	78.27644	13:47:53	D	4.70
49	GWALIOR	DABRA	S-NPP	25.92552	78.21328	13:47:53	D	4.00
50	HOSHANGABAD	BANKHERI	S-NPP	22.75507	78.67812	13:47:53	D	2.20
51	HOSHANGABAD	HOSHANGABAD	AQUA	22.75600	77.76400	14:02:54	D	7.50
52	HOSHANGABAD	HOSHANGABAD	S-NPP	22.69413	77.68378	13:47:53	D	5.20
53	HOSHANGABAD	PIPARIYA	S-NPP	22.86273	78.39613	13:47:53	D	5.70
54	JABALPUR	JABALPUR	AQUA	23.23800	79.89800	14:02:54	D	15.70
55	JABALPUR	JABALPUR	AQUA	23.23800	79.90300	14:02:54	D	24.10
56	JABALPUR	JABALPUR	AQUA	23.28000	79.93400	14:02:54	D	13.60
57	JABALPUR	JABALPUR	AQUA	23.32800	79.88000	14:02:54	D	16.00
58	JABALPUR	JABALPUR	S-NPP	23.00521	79.94447	13:47:53	D	2.60
59	JABALPUR	JABALPUR	S-NPP	23.09155	80.01900	13:47:53	D	7.60
60	JABALPUR	JABALPUR	S-NPP	23.11670	79.98927	13:47:53	D	4.70
61	JABALPUR	JABALPUR	S-NPP	23.16640	79.85368	13:47:53	D	6.50
62	JABALPUR	JABALPUR	S-NPP	23.17111	79.81373	13:47:53	D	5.50

63	JABALPUR	JABALPUR	S-NPP	23.24200	79.91029	13:47:53	D	5.50
64	JABALPUR	JABALPUR	S-NPP	23.24253	79.91522	13:47:53	D	5.50
65	JABALPUR	JABALPUR	S-NPP	23.24653	79.90974	13:47:53	D	4.80
66	JABALPUR	JABALPUR	S-NPP	23.24706	79.91467	13:47:53	D	4.80
67	JABALPUR	JABALPUR	S-NPP	23.25082	79.86443	13:47:53	D	3.60
68	JABALPUR	JABALPUR	S-NPP	23.27513	79.96139	13:47:53	D	6.70
69	JABALPUR	JABALPUR	S-NPP	23.28099	79.93054	13:47:53	D	3.50
70	JABALPUR	JABALPUR	S-NPP	23.28587	79.97523	13:47:53	D	3.90
71	JABALPUR	JABALPUR	S-NPP	23.29334	79.95919	13:47:53	D	3.60
72	JABALPUR	JABALPUR	S-NPP	23.29589	79.89873	13:47:53	D	8.90
73	JABALPUR	JABALPUR	S-NPP	23.29640	79.89567	13:47:53	D	9.70
74	JABALPUR	JABALPUR	S-NPP	23.30042	79.89817	13:47:53	D	10.90
75	JABALPUR	JABALPUR	S-NPP	23.30145	79.90005	13:47:53	D	9.70
76	JABALPUR	JABALPUR	S-NPP	23.30455	79.85291	13:47:53	D	10.10
77	JABALPUR	JABALPUR	S-NPP	23.30538	79.84975	13:47:53	D	8.10
78	JABALPUR	JABALPUR	S-NPP	23.30589	79.85465	13:47:53	D	10.20
79	JABALPUR	JABALPUR	S-NPP	23.30615	79.99006	13:47:53	D	3.10
80	JABALPUR	JABALPUR	S-NPP	23.30685	79.99797	13:47:53	D	6.50
81	JABALPUR	JABALPUR	S-NPP	23.31169	79.91680	13:47:53	D	6.00
82	JABALPUR	JABALPUR	S-NPP	23.31259	79.91870	13:47:53	D	7.00
83	JABALPUR	JABALPUR	S-NPP	23.31734	79.92614	13:47:53	D	5.70
84	JABALPUR	JABALPUR	S-NPP	23.32166	80.00633	13:47:53	D	4.70
85	JABALPUR	JABALPUR	S-NPP	23.34914	79.95953	13:47:53	D	6.20
86	JABALPUR	JABALPUR	S-NPP	23.35136	79.89395	13:47:53	D	3.90
87	JABALPUR	JABALPUR	S-NPP	23.36175	79.94790	13:47:53	D	4.60
88	JABALPUR	JABALPUR	S-NPP	23.36657	79.90710	13:47:53	D	2.60
89	JABALPUR	MAJHOULI	AQUA	23.42100	80.03600	14:02:54	D	19.70
90	JABALPUR	MAJHOULI	AQUA	23.45000	80.07000	14:02:54	D	40.70
91	JABALPUR	MAJHOULI	AQUA	23.52900	79.94700	14:02:54	D	13.70
92	JABALPUR	MAJHOULI	S-NPP	23.39124	79.96451	13:47:53	D	7.20
93	JABALPUR	MAJHOULI	S-NPP	23.39178	79.96950	13:47:53	D	7.20
94	JABALPUR	MAJHOULI	S-NPP	23.40950	79.96395	13:47:53	D	4.50
95	JABALPUR	MAJHOULI	S-NPP	23.42130	80.03381	13:47:53	D	5.50

96	JABALPUR	MAJHOULI	S-NPP	23.42178	80.03198	13:47:53	D	6.20
97	JABALPUR	MAJHOULI	S-NPP	23.42827	79.96672	13:47:53	D	3.90
98	JABALPUR	MAJHOULI	S-NPP	23.42828	79.96507	13:47:53	D	2.40
99	JABALPUR	MAJHOULI	S-NPP	23.43714	80.05238	13:47:53	D	5.30
100	JABALPUR	MAJHOULI	S-NPP	23.43776	80.05053	13:47:53	D	8.50
101	JABALPUR	MAJHOULI	S-NPP	23.43949	79.98566	13:47:53	D	5.00
102	JABALPUR	MAJHOULI	S-NPP	23.44226	80.05689	13:47:53	D	5.30
103	JABALPUR	MAJHOULI	S-NPP	23.44369	80.02596	13:47:53	D	4.40
104	JABALPUR	MAJHOULI	S-NPP	23.44459	79.99014	13:47:53	D	8.10
105	JABALPUR	MAJHOULI	S-NPP	23.44474	80.03606	13:47:53	D	5.90
106	JABALPUR	MAJHOULI	S-NPP	23.44563	79.86884	13:47:53	D	7.80
107	JABALPUR	MAJHOULI	S-NPP	23.44615	79.87378	13:47:53	D	7.80
108	JABALPUR	MAJHOULI	S-NPP	23.45618	79.96841	13:47:53	D	4.90
109	JABALPUR	MAJHOULI	S-NPP	23.46553	80.01306	13:47:53	D	1.90
110	JABALPUR	MAJHOULI	S-NPP	23.46821	80.03834	13:47:53	D	5.10
111	JABALPUR	MAJHOULI	S-NPP	23.49324	79.96889	13:47:53	D	2.00
112	JABALPUR	MAJHOULI	S-NPP	23.51133	80.00751	13:47:53	D	2.60
113	JABALPUR	MAJHOULI	S-NPP	23.51774	80.10963	13:47:53	D	3.30
114	JABALPUR	MAJHOULI	S-NPP	23.52216	80.15074	13:47:53	D	5.80
115	JABALPUR	MAJHOULI	S-NPP	23.52315	79.90450	13:47:53	D	6.90
116	JABALPUR	MAJHOULI	S-NPP	23.52370	79.90282	13:47:53	D	9.80
117	JABALPUR	MAJHOULI	S-NPP	23.53635	80.11631	13:47:53	D	4.70
118	JABALPUR	MAJHOULI	S-NPP	23.53813	79.99749	13:47:53	D	2.70
119	JABALPUR	MAJHOULI	S-NPP	23.53824	79.99905	13:47:53	D	3.20
120	JABALPUR	MAJHOULI	S-NPP	23.54336	80.04819	13:47:53	D	8.30
121	JABALPUR	MAJHOULI	S-NPP	23.54383	80.04966	13:47:53	D	15.50
122	JABALPUR	MAJHOULI	S-NPP	23.55820	80.05661	13:47:53	D	5.80
123	JABALPUR	MAJHOULI	S-NPP	23.58474	79.95612	13:47:53	D	7.20
124	JABALPUR	PATAN	AQUA	23.20200	79.80500	14:02:54	D	22.30
125	JABALPUR	PATAN	AQUA	23.20300	79.80000	14:02:54	D	22.60
126	JABALPUR	PATAN	AQUA	23.22200	79.73700	14:02:54	D	11.80
127	JABALPUR	PATAN	AQUA	23.25700	79.83400	14:02:54	D	20.90
128	JABALPUR	PATAN	AQUA	23.30700	79.82800	14:02:54	D	14.70

129	JABALPUR	PATAN	AQUA	23.31200	79.84100	14:02:54	D	23.10
130	JABALPUR	PATAN	AQUA	23.35800	79.79500	14:02:54	D	13.90
131	JABALPUR	PATAN	S-NPP	23.18489	79.80342	13:47:53	D	2.90
132	JABALPUR	PATAN	S-NPP	23.18693	79.82283	13:47:53	D	2.10
133	JABALPUR	PATAN	S-NPP	23.18859	79.80669	13:47:53	D	3.70
134	JABALPUR	PATAN	S-NPP	23.21139	79.79523	13:47:53	D	3.10
135	JABALPUR	PATAN	S-NPP	23.21969	79.74532	13:47:53	D	5.10
136	JABALPUR	PATAN	S-NPP	23.22854	79.82757	13:47:53	D	6.80
137	JABALPUR	PATAN	S-NPP	23.23128	79.76829	13:47:53	D	7.20
138	JABALPUR	PATAN	S-NPP	23.25322	79.84432	13:47:53	D	9.40
139	JABALPUR	PATAN	S-NPP	23.25508	79.81938	13:47:53	D	3.40
140	JABALPUR	PATAN	S-NPP	23.26012	79.82369	13:47:53	D	3.40
141	JABALPUR	PATAN	S-NPP	23.27766	79.69440	13:47:53	D	3.00
142	JABALPUR	PATAN	S-NPP	23.30908	79.85236	13:47:53	D	10.10
143	JABALPUR	PATAN	S-NPP	23.31998	79.85789	13:47:53	D	1.80
144	JABALPUR	PATAN	S-NPP	23.32487	79.81762	13:47:53	D	5.30
145	JABALPUR	PATAN	S-NPP	23.32938	79.81705	13:47:53	D	5.30
146	JABALPUR	PATAN	S-NPP	23.34450	79.83004	13:47:53	D	6.90
147	JABALPUR	PATAN	S-NPP	23.35382	79.78938	13:47:53	D	5.00
148	JABALPUR	PATAN	S-NPP	23.40434	79.83264	13:47:53	D	2.70
149	JABALPUR	SAHPURA	S-NPP	23.16468	79.75585	13:47:53	D	3.60
150	JABALPUR	SAHPURA	S-NPP	23.17168	79.69682	13:47:53	D	2.40
151	JABALPUR	SAHPURA	S-NPP	23.17232	79.72691	13:47:53	D	2.70
152	JABALPUR	SAHPURA	S-NPP	23.17884	79.72013	13:47:53	D	4.20
153	JABALPUR	SAHPURA	S-NPP	23.19186	79.78295	13:47:53	D	4.10
154	JABALPUR	SAHPURA	S-NPP	23.19486	79.78142	13:47:53	D	4.00
155	JABALPUR	SIHORA	AQUA	23.42900	80.22900	14:02:54	D	21.20
156	JABALPUR	SIHORA	TERRA	23.43000	80.18700	10:27:41	D	4.90
157	JABALPUR	SIHORA	AQUA	23.45200	80.09100	14:02:54	D	25.20
158	JABALPUR	SIHORA	S-NPP	23.35517	80.06042	13:47:53	D	3.20
159	JABALPUR	SIHORA	S-NPP	23.38703	80.09766	13:47:53	D	3.70
160	JABALPUR	SIHORA	S-NPP	23.39320	80.02522	13:47:53	D	7.20
161	JABALPUR	SIHORA	S-NPP	23.39560	80.00458	13:47:53	D	4.40

162	JABALPUR	SIHORA	S-NPP	23.41516	80.22962	13:47:53	D	3.60
163	JABALPUR	SIHORA	S-NPP	23.41833	80.17174	13:47:53	D	4.30
164	JABALPUR	SIHORA	S-NPP	23.42296	80.17120	13:47:53	D	4.30
165	JABALPUR	SIHORA	S-NPP	23.42345	80.10039	13:47:53	D	3.10
166	JABALPUR	SIHORA	S-NPP	23.42495	80.10349	13:47:53	D	4.10
167	JABALPUR	SIHORA	S-NPP	23.42910	80.22803	13:47:53	D	5.40
168	JABALPUR	SIHORA	S-NPP	23.43023	80.16709	13:47:53	D	4.00
169	JABALPUR	SIHORA	S-NPP	23.43262	80.21712	13:47:53	D	6.60
170	JABALPUR	SIHORA	S-NPP	23.43476	80.11974	13:47:53	D	4.50
171	JABALPUR	SIHORA	S-NPP	23.43584	80.11773	13:47:53	D	3.80
172	JABALPUR	SIHORA	S-NPP	23.44436	80.07721	13:47:53	D	2.30
173	JABALPUR	SIHORA	S-NPP	23.44463	80.17058	13:47:53	D	3.90
174	JABALPUR	SIHORA	S-NPP	23.44608	80.16845	13:47:53	D	9.50
175	JABALPUR	SIHORA	S-NPP	23.44618	80.12684	13:47:53	D	3.80
176	JABALPUR	SIHORA	S-NPP	23.44896	80.07664	13:47:53	D	6.00
177	JABALPUR	SIHORA	S-NPP	23.44925	80.17001	13:47:53	D	10.30
178	JABALPUR	SIHORA	S-NPP	23.45127	80.17304	13:47:53	D	10.70
179	JABALPUR	SIHORA	S-NPP	23.45411	80.19885	13:47:53	D	5.60
180	JABALPUR	SIHORA	S-NPP	23.45621	80.10156	13:47:53	D	4.80
181	JABALPUR	SIHORA	S-NPP	23.45707	80.20048	13:47:53	D	7.90
182	JABALPUR	SIHORA	S-NPP	23.45869	80.08063	13:47:53	D	7.20
183	JABALPUR	SIHORA	S-NPP	23.47356	80.08914	13:47:53	D	5.00
184	JABALPUR	SIHORA	S-NPP	23.47709	80.07838	13:47:53	D	6.90
185	JABALPUR	SIHORA	S-NPP	23.47816	80.08858	13:47:53	D	4.70
186	KATNI	BAHURIBAND	S-NPP	23.78828	79.99648	13:47:53	D	3.20
187	KATNI	DHIMERKHEDA	S-NPP	23.36914	80.33039	13:47:53	D	2.80
188	KATNI	DHIMERKHEDA	S-NPP	23.46666	80.31356	13:47:53	D	3.60
189	KATNI	DHIMERKHEDA	S-NPP	23.46883	80.31546	13:47:53	D	5.90
190	KATNI	DHIMERKHEDA	S-NPP	23.47028	80.28336	13:47:53	D	5.60
191	KATNI	DHIMERKHEDA	S-NPP	23.51357	80.24636	13:47:53	D	4.40
192	KATNI	RITHI	S-NPP	23.72870	80.31219	13:47:53	D	10.00
193	KATNI	RITHI	S-NPP	23.78522	80.23877	13:47:53	D	6.80
194	MANDLA	NAINPUR	AQUA	22.52900	80.07400	14:02:54	D	18.00

195	MANDLA	NAINPUR	S-NPP	22.40258	80.15578	13:47:53	D	3.30
196	NARSHIMAPURA	GADARWARA	S-NPP	22.89166	78.64359	13:47:53	D	2.90
197	NARSHIMAPURA	GOTECAON	S-NPP	22.97563	79.42149	13:47:53	D	3.70
198	NARSHIMAPURA	GOTECAON	S-NPP	22.97831	79.48595	13:47:53	D	4.40
199	NARSHIMAPURA	NARSIMHAPUR	S-NPP	22.76358	79.27738	13:47:53	D	2.40
200	PANNA	SHAHNAGAR	S-NPP	24.15631	79.83945	13:47:53	D	7.90
201	PANNA	SHAHNAGAR	S-NPP	24.15632	79.84226	13:47:53	D	9.10
202	RAISEN	BARELI	TERRA	22.90000	78.07800	10:27:41	D	11.80
203	RAISEN	BARELI	S-NPP	22.81656	78.04173	13:47:53	D	3.30
204	RAISEN	BARELI	S-NPP	22.90254	78.06773	13:47:53	D	2.90
205	RAISEN	BARELI	S-NPP	22.97226	78.24010	13:47:53	D	2.50
206	RAISEN	BARELI	S-NPP	23.02888	78.36096	02:37:53	N	0.60
207	RAISEN	BARELI	S-NPP	23.02965	78.35747	02:37:53	N	0.70
208	RAISEN	BARELI	S-NPP	23.03411	78.36234	02:37:53	N	0.60
209	RAISEN	BARELI	S-NPP	23.03489	78.35883	02:37:53	N	0.70
210	RAISEN	GOHARGANJ	S-NPP	23.03598	77.62515	13:47:53	D	4.80
211	RAISEN	GOHARGANJ	S-NPP	23.03658	77.62755	13:47:53	D	2.40
212	RAISEN	GOHARGANJ	S-NPP	23.17661	77.64094	13:47:53	D	3.20
213	RAISEN	RAISEN	S-NPP	23.40588	77.73199	13:47:53	D	3.30
214	RAISEN	SILVANI	S-NPP	23.16499	78.24226	02:37:53	N	0.20
215	REWA	TEONTHAR	S-NPP	24.97668	81.54536	13:47:53	D	3.20
216	REWA	TEONTHAR	S-NPP	24.97972	81.52144	13:47:53	D	3.00
217	REWA	TEONTHAR	S-NPP	25.00262	81.43202	13:47:53	D	2.70
218	SATNA	AMARPATAN	S-NPP	24.39101	81.21360	13:47:53	D	8.70
219	SATNA	MAIHAR	S-NPP	24.39297	80.86362	13:47:53	D	5.70
220	SATNA	NAGOD	S-NPP	24.46090	80.52027	13:47:53	D	5.10
221	SATNA	NAGOD	S-NPP	24.59742	80.68293	13:47:53	D	5.70
222	SATNA	RAMPURBAGHLEAN	S-NPP	24.53202	80.89413	13:47:53	D	6.60
223	SATNA	RAMPURBAGHLEAN	S-NPP	24.73497	80.95362	13:47:53	D	3.80
224	SATNA	UCHAHAR	S-NPP	24.51089	80.83037	13:47:53	D	3.20
225	SEHORE	BUDHNI	S-NPP	22.86679	77.97112	13:47:53	D	5.30
226	SEHORE	BUDHNI	S-NPP	22.86905	77.97204	13:47:53	D	3.90
227	SEHORE	BUDHNI	S-NPP	22.87501	77.87368	02:37:53	N	0.30

228	SEHORE	BUDHNI	S-NPP	22.88084	77.91843	13:47:53	D	3.40
229	SEHORE	BUDHNI	S-NPP	22.92792	77.90626	13:47:53	D	2.20
230	SEHORE	BUDHNI	S-NPP	22.93779	77.93185	02:37:53	N	0.40
231	SEONI	GHANSAUR	S-NPP	22.42705	79.83846	13:47:53	D	2.50
232	SEONI	KEWLARI	S-NPP	22.43040	80.07263	13:47:53	D	2.50
233	SEONI	SEONI	S-NPP	22.10234	79.52149	13:47:53	D	3.20
234	SEONI	SEONI	S-NPP	22.18633	79.37123	13:47:53	D	3.40
235	SEONI	SEONI	S-NPP	22.22269	79.76772	13:47:53	D	3.70
236	SHEOPUR	SHEOPUR	S-NPP	25.64038	76.53474	13:47:53	D	8.20
237	SHEOPUR	SHEOPUR	S-NPP	25.69176	76.54284	13:47:53	D	4.00
238	SHIVPURI	NARWAR	AQUA	25.62900	78.27500	14:02:54	D	14.40
239	SHIVPURI	NARWAR	AQUA	25.66200	78.15000	14:02:54	D	13.80
240	SHIVPURI	NARWAR	S-NPP	25.60026	78.21043	13:47:53	D	3.30
241	SHIVPURI	NARWAR	S-NPP	25.62905	78.12547	13:47:53	D	5.50
242	SHIVPURI	NARWAR	S-NPP	25.63395	78.28362	13:47:53	D	3.20
243	SHIVPURI	NARWAR	S-NPP	25.63817	78.28307	13:47:53	D	5.30
244	SHIVPURI	NARWAR	S-NPP	25.66213	78.15516	13:47:53	D	5.60
245	SHIVPURI	NARWAR	S-NPP	25.67156	78.15562	13:47:53	D	1.40
246	SHIVPURI	NARWAR	S-NPP	25.67195	78.16668	13:47:53	D	2.10
247	SHIVPURI	NARWAR	S-NPP	25.67292	78.17511	13:47:53	D	2.60
248	SHIVPURI	NARWAR	S-NPP	25.67385	78.17673	13:47:53	D	3.20
249	SHIVPURI	NARWAR	S-NPP	25.67614	78.16612	13:47:53	D	1.70
250	SHIVPURI	NARWAR	S-NPP	25.70460	78.10848	13:47:53	D	10.10
251	SHIVPURI	NARWAR	S-NPP	25.70738	78.09535	13:47:53	D	3.50
252	SHIVPURI	NARWAR	S-NPP	25.70971	78.11633	13:47:53	D	5.30
253	SHIVPURI	NARWAR	S-NPP	25.71332	77.99751	13:47:53	D	5.30
254	SHIVPURI	NARWAR	S-NPP	25.71849	78.08110	13:47:53	D	2.00
255	SHIVPURI	NARWAR	S-NPP	25.71854	78.11944	13:47:53	D	4.50
256	VIDESHA	VIDESHA	TERRA	23.72300	77.80400	10:27:41	D	8.70
257	VIDESHA	VIDESHA	S-NPP	23.41384	77.97216	13:47:53	D	3.10
258	WEST NIMAR	BARWAH	S-NPP	22.33299	75.94771	13:47:53	D	2.70
259	WEST NIMAR	KHARGON	S-NPP	21.74006	75.57048	13:47:53	D	1.50

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**

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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)

and on IARI CREAMS website (<http://creams.iari.res.in/cms2/index.php>)
