



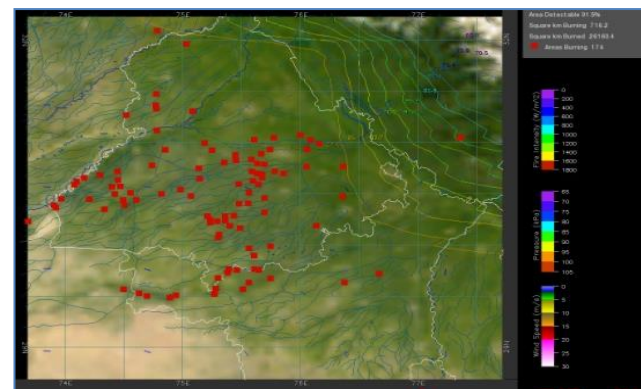
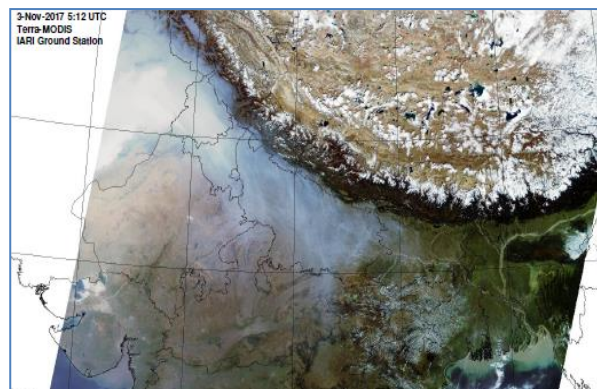
**Bulletin
No. 68**

**Events Date:
21-Nov-2021**

**Issued on:
21-Nov-2021**



MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2021



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**

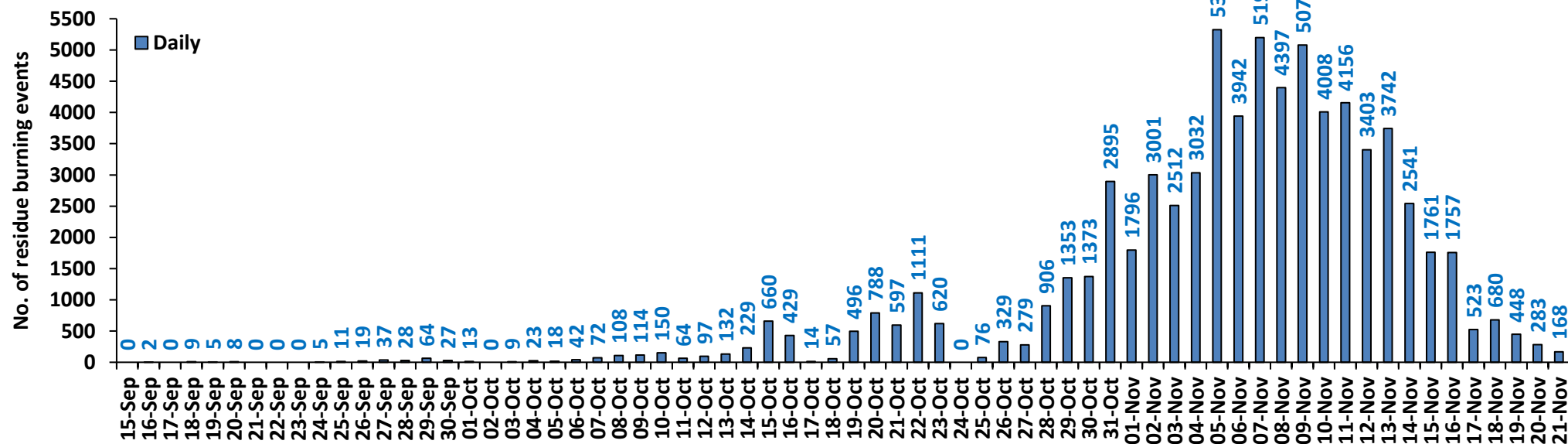
<http://creams.iari.res.in>

Highlights for 21-November-2021

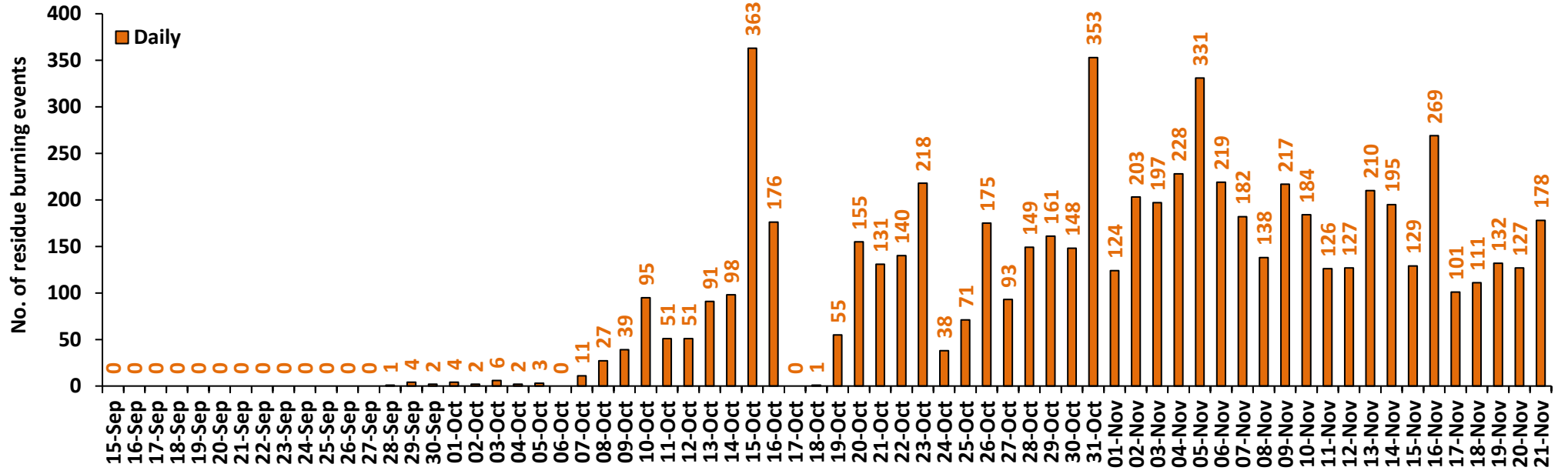
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **619** residue burning events in the six study States on 21-Nov-2021.
- The state wise events detected on 21-Nov-21 were **168** in Punjab, **178** in Haryana, **106** in UP, **0** in Delhi, **72** in Raj and **95** in MP.
- The number of events has increased from **489** on 20-Nov-2021 to **619** on 21-Nov-2021 in the six study states.
- Total **87861** burning events were detected in the six states between 15-Sept-2021 and 21-Nov-2021, which are distributed as **71024**, **6642**, **2914**, **4**, **1140** and **6137** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Overall, the total burning events recorded in the six states are **16.1%** less than in 2020 till date. Punjab recorded **14.0%** reduction, Haryana recorded **68.2%** increase, UP recorded **14.4%** reduction, Delhi recorded **55.6%** reduction, Rajasthan recorded **27.7%** reduction and MP recorded **53.6%** reduction, in the current season than in 2020.

Temporal distribution of rice residue burning events for the study States in 2021

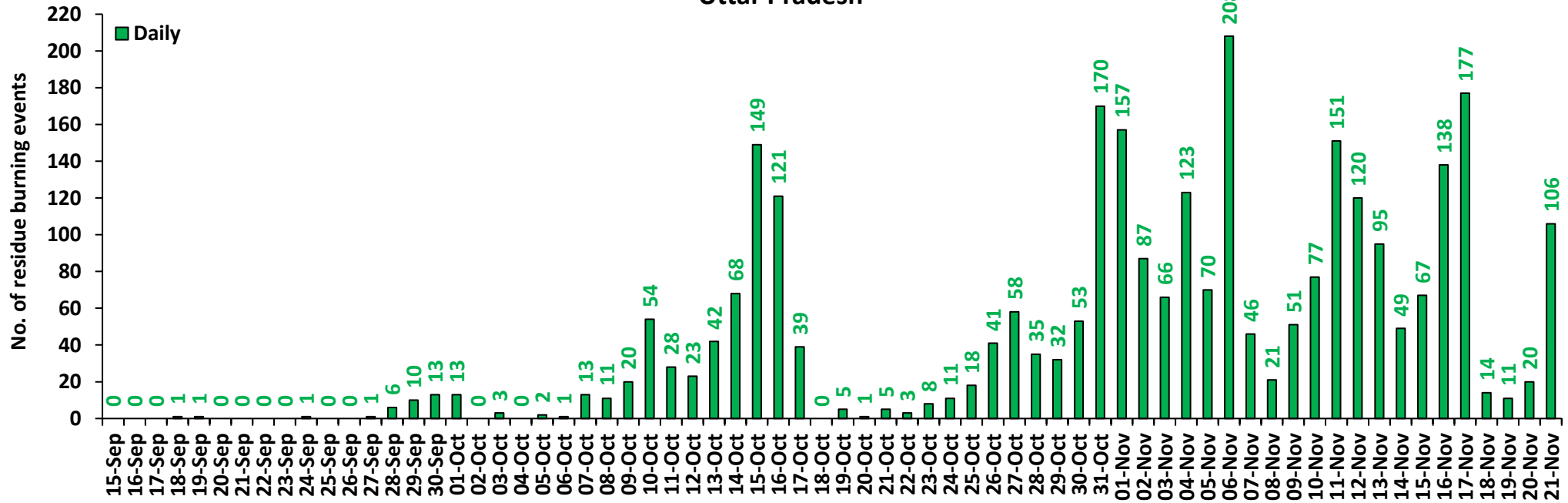
Punjab



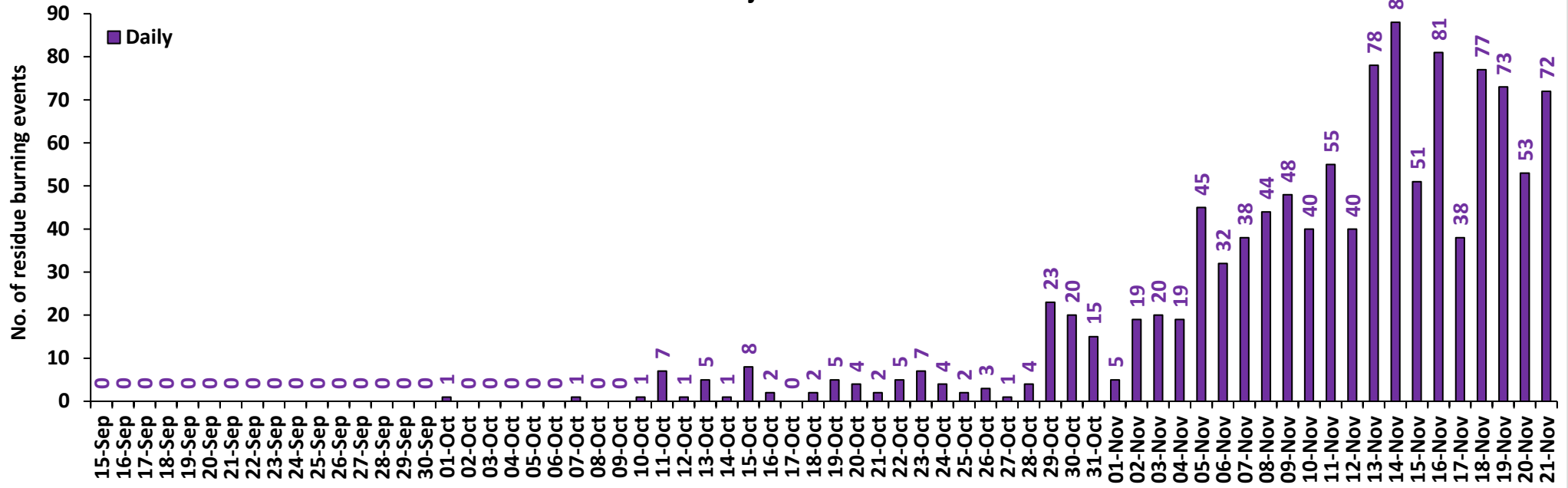
Haryana



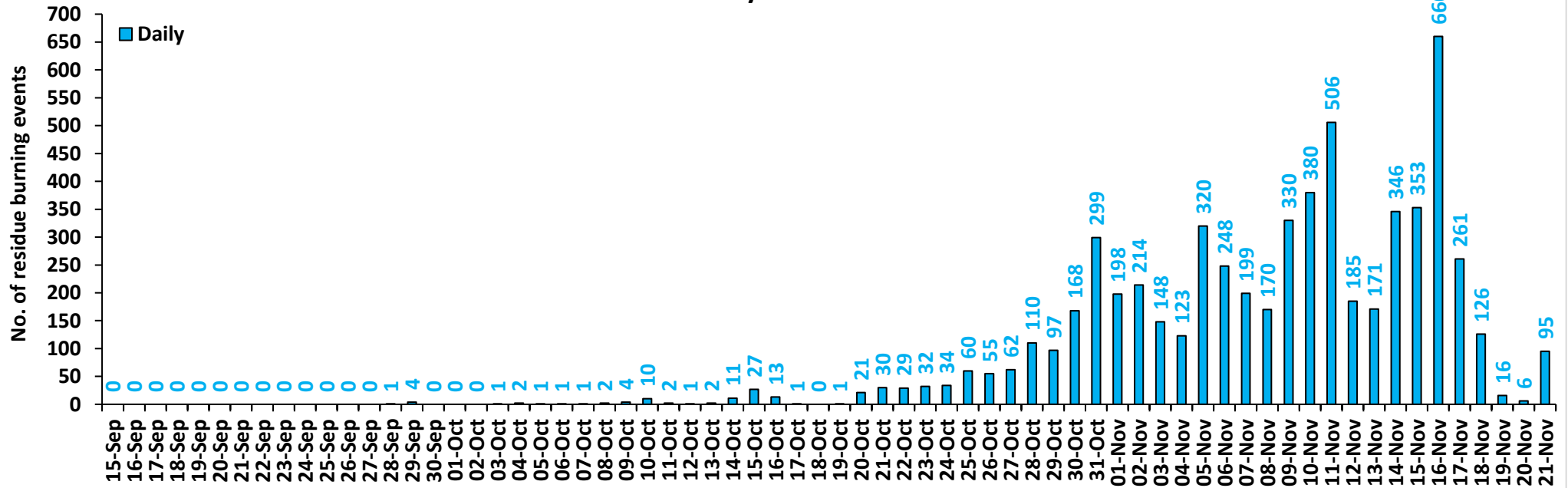
Uttar Pradesh



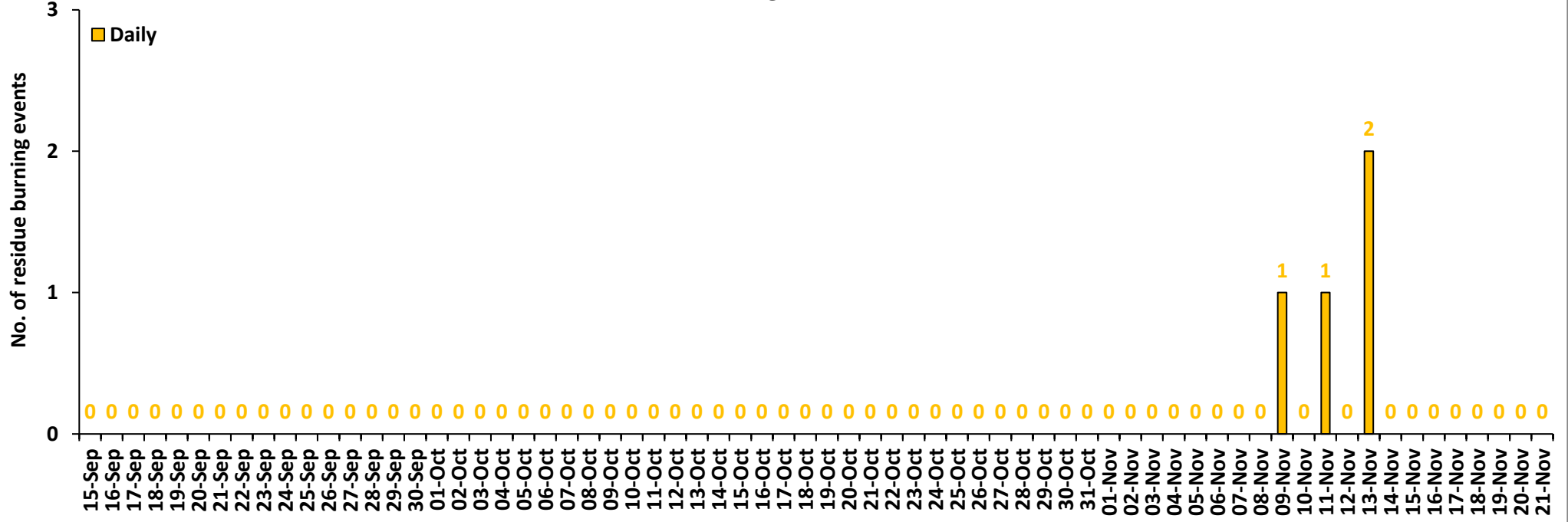
Rajasthan



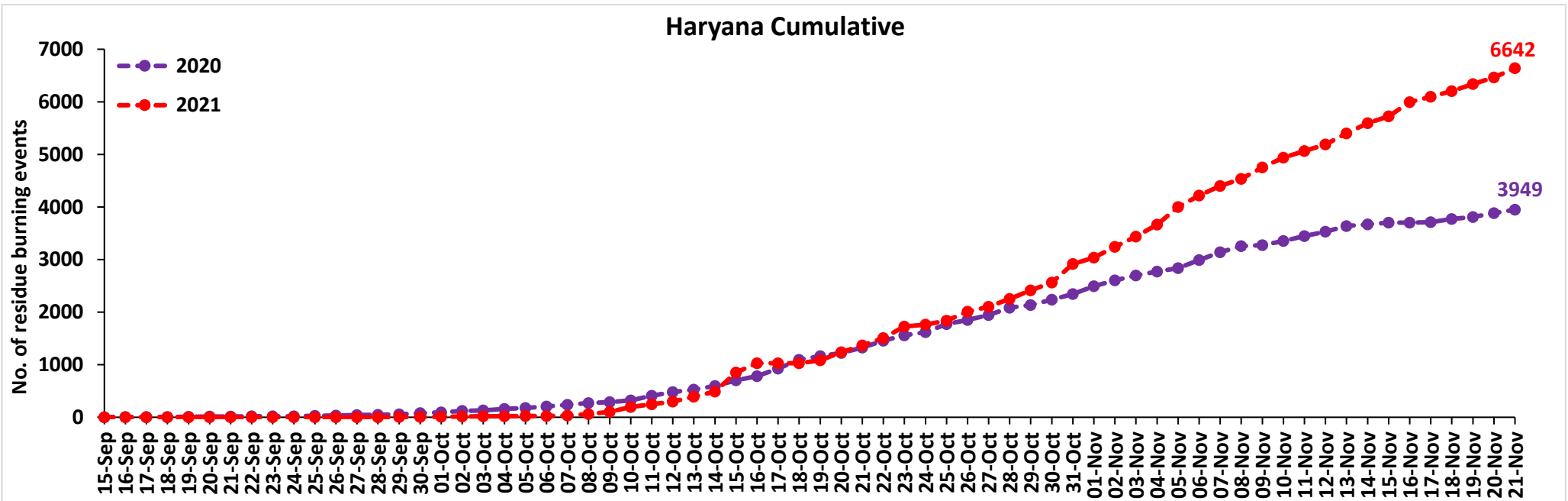
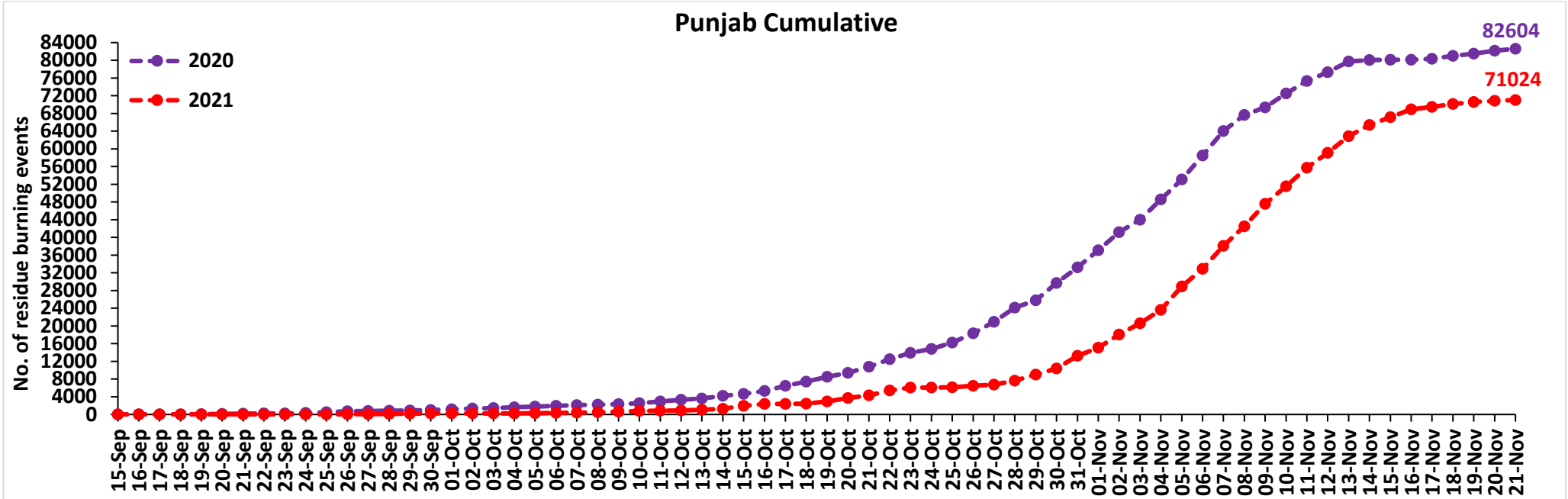
Madhya Pradesh



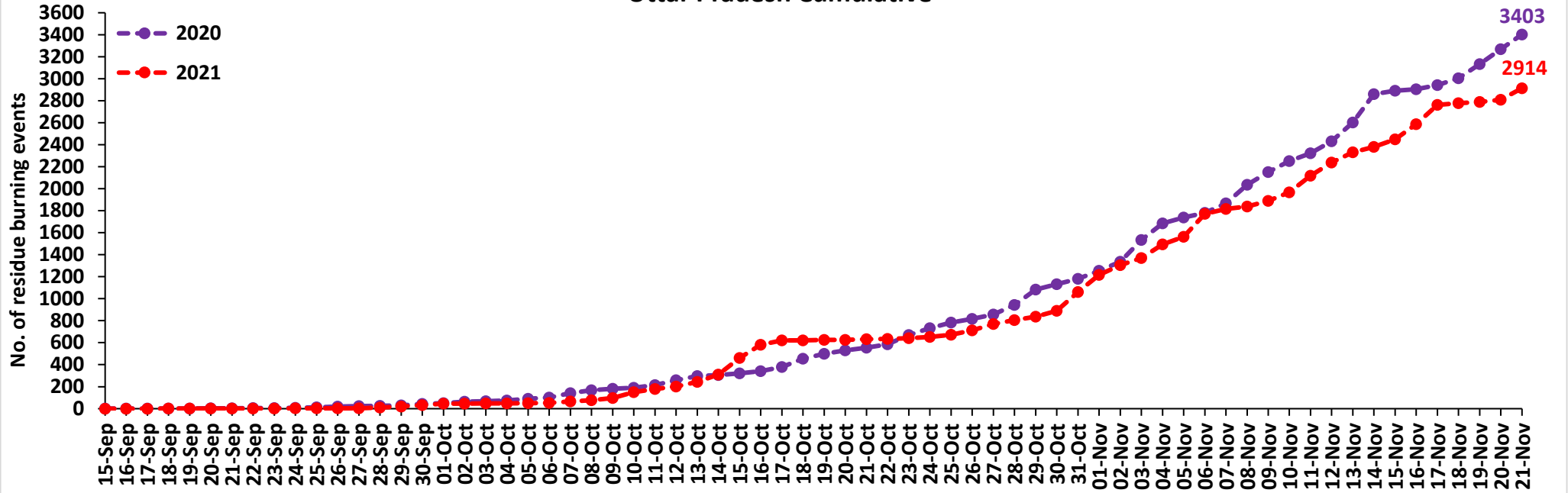
Delhi



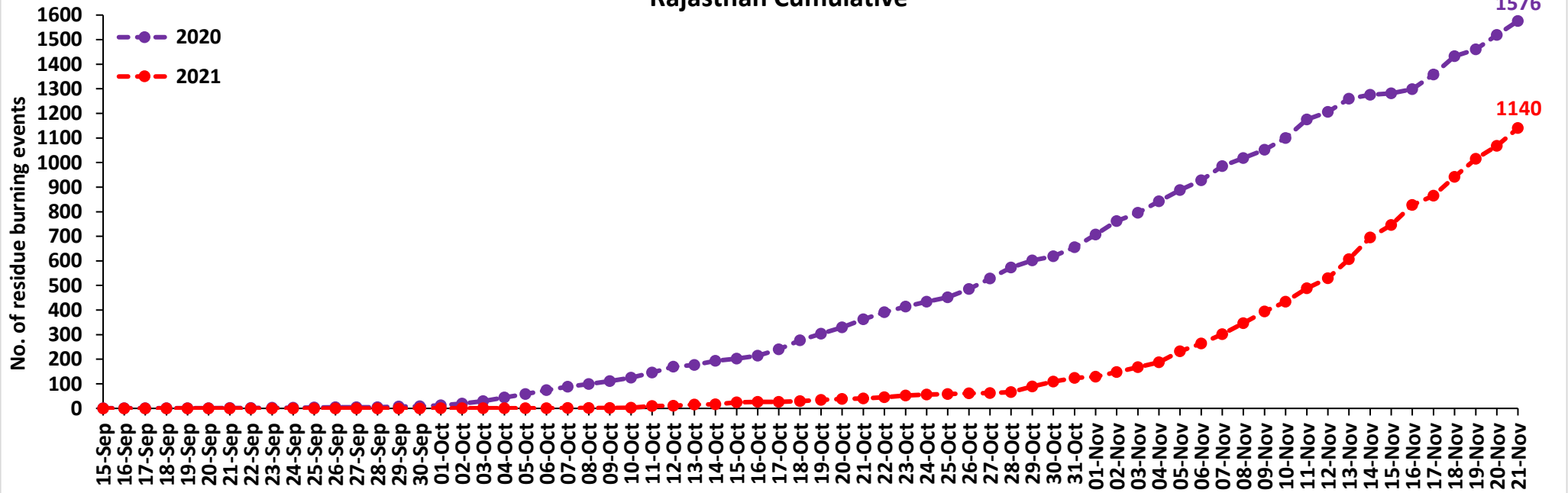
Comparison of residue burning events in current year (2021) with previous year (2020) for the study States



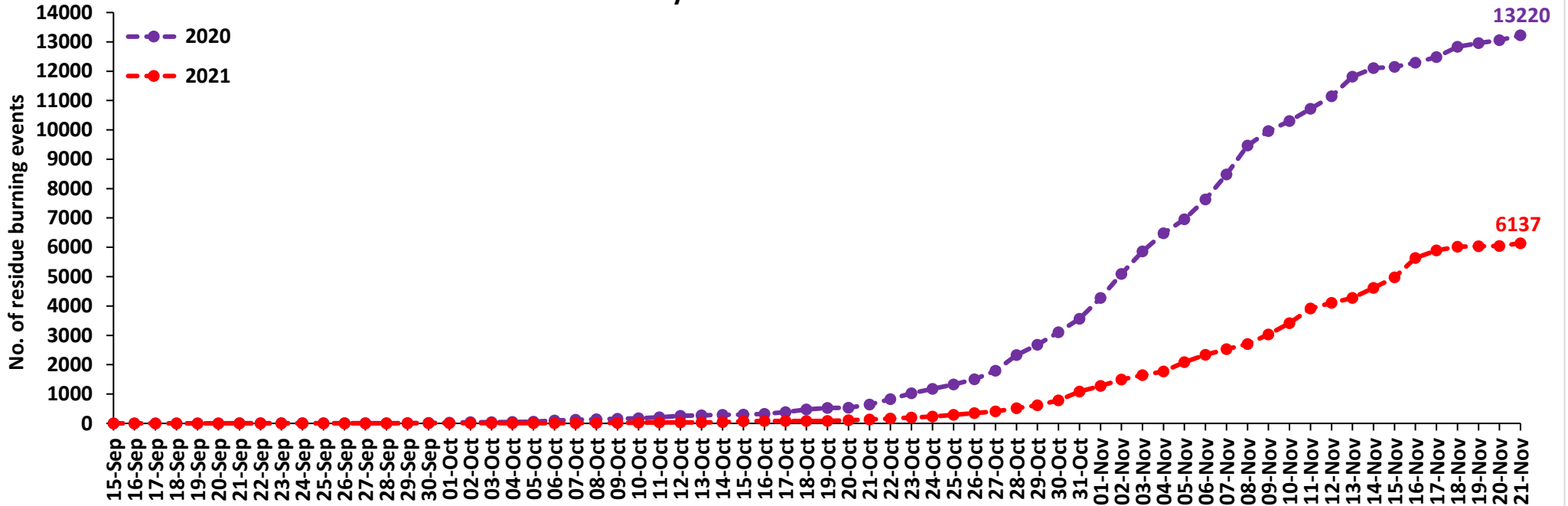
Uttar Pradesh Cumulative



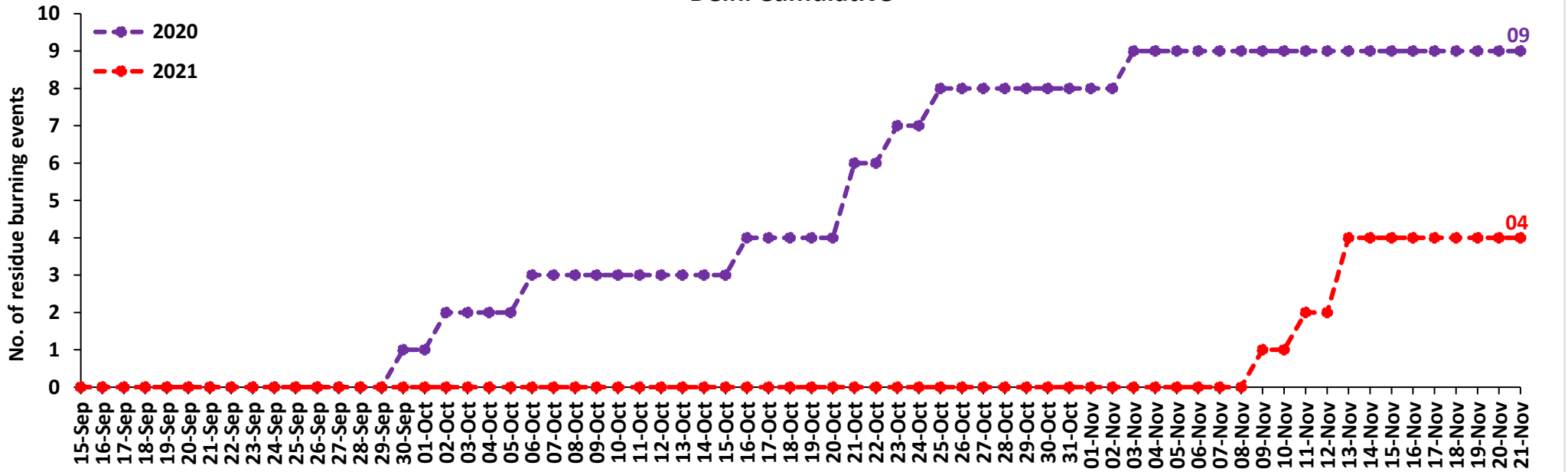
Rajasthan Cumulative



Madhya Pradesh Cumulative

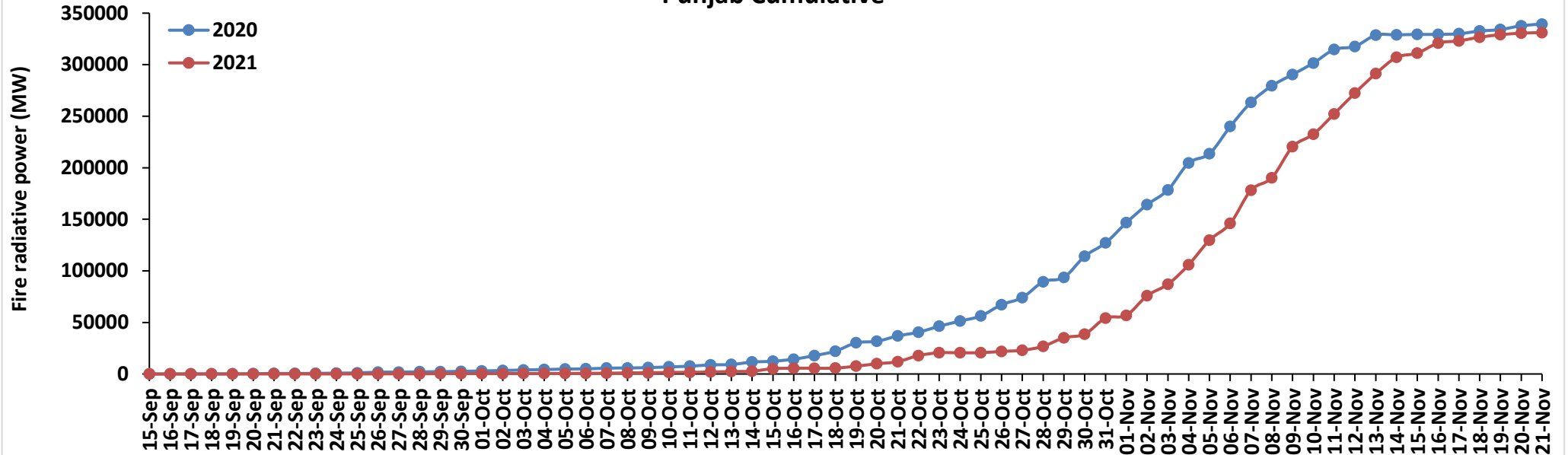


Delhi Cumulative

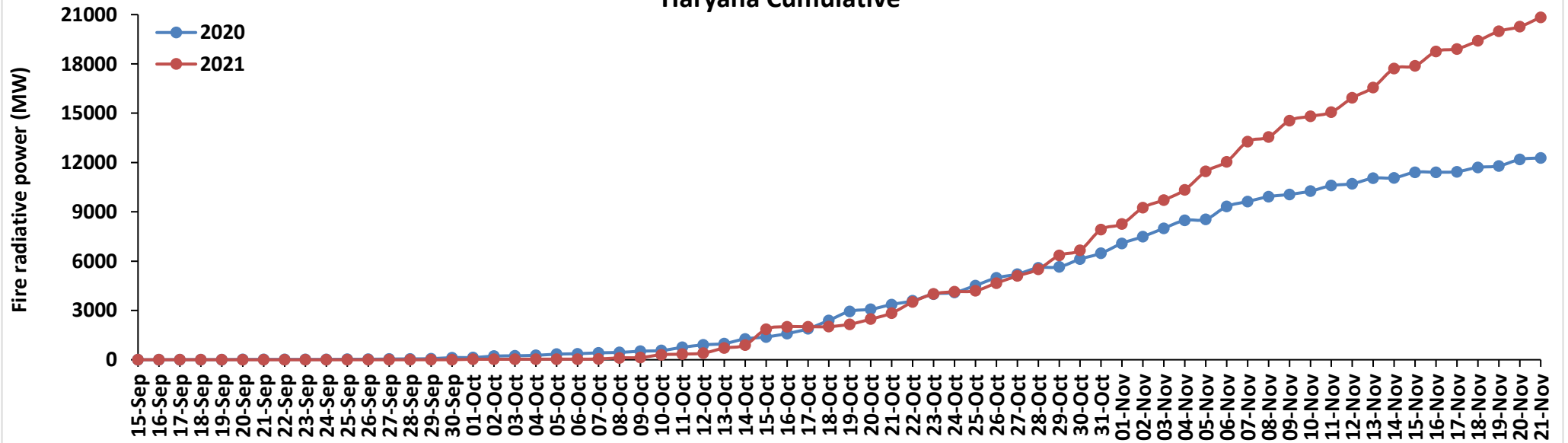


Comparison of residue burning fire power in current year (2021) with previous year (2020) for the study States

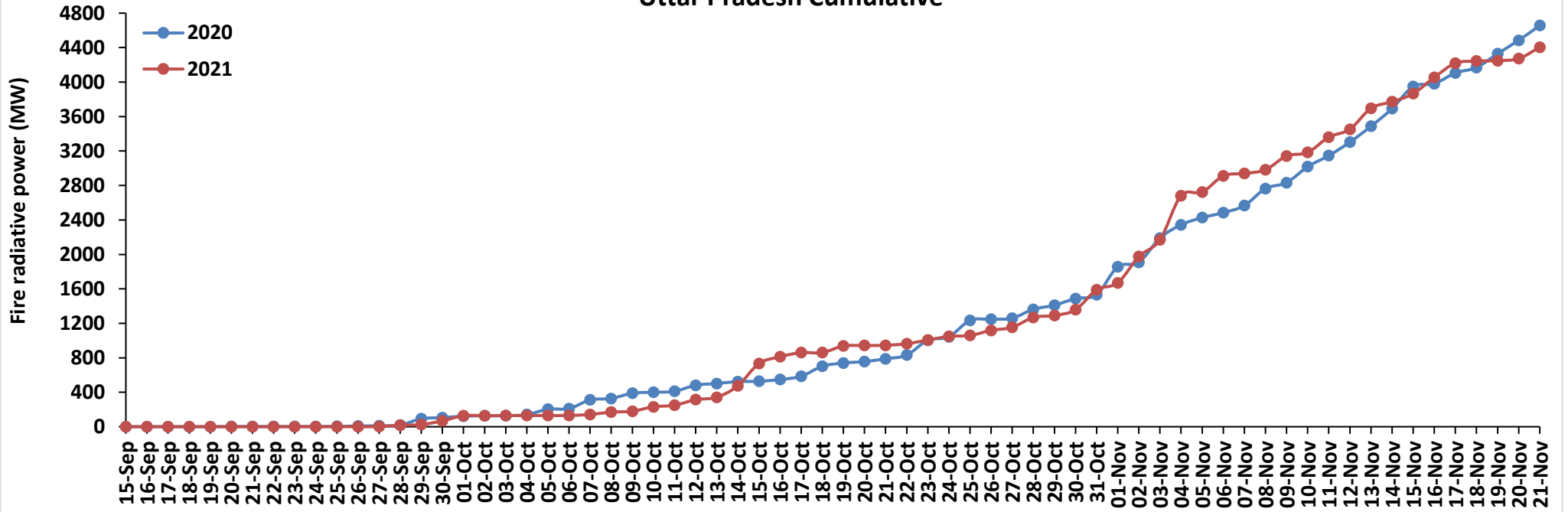
Punjab Cumulative



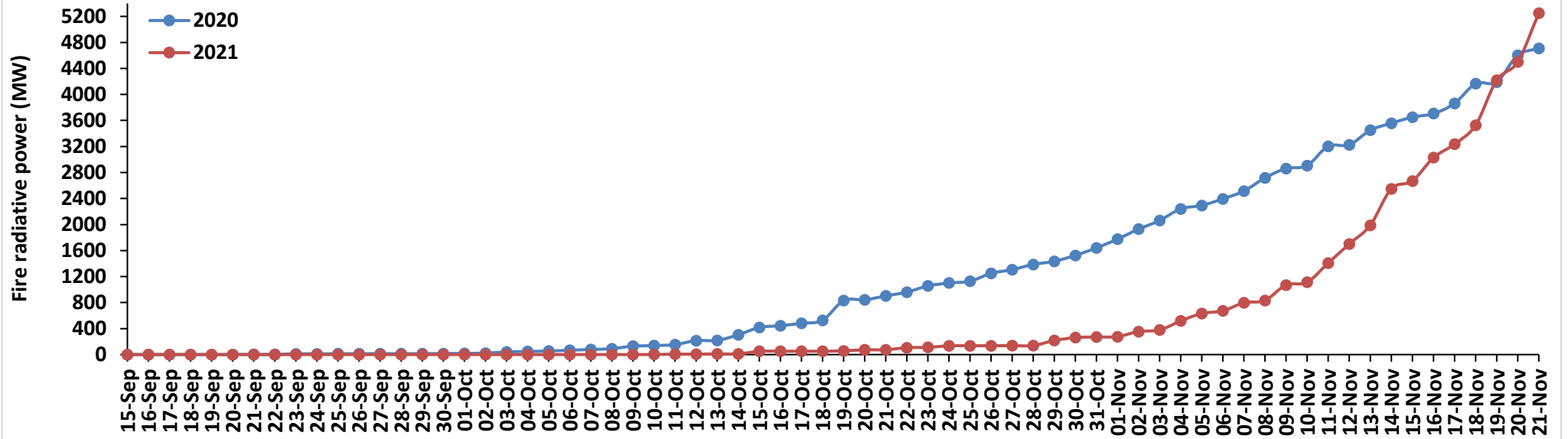
Haryana Cumulative



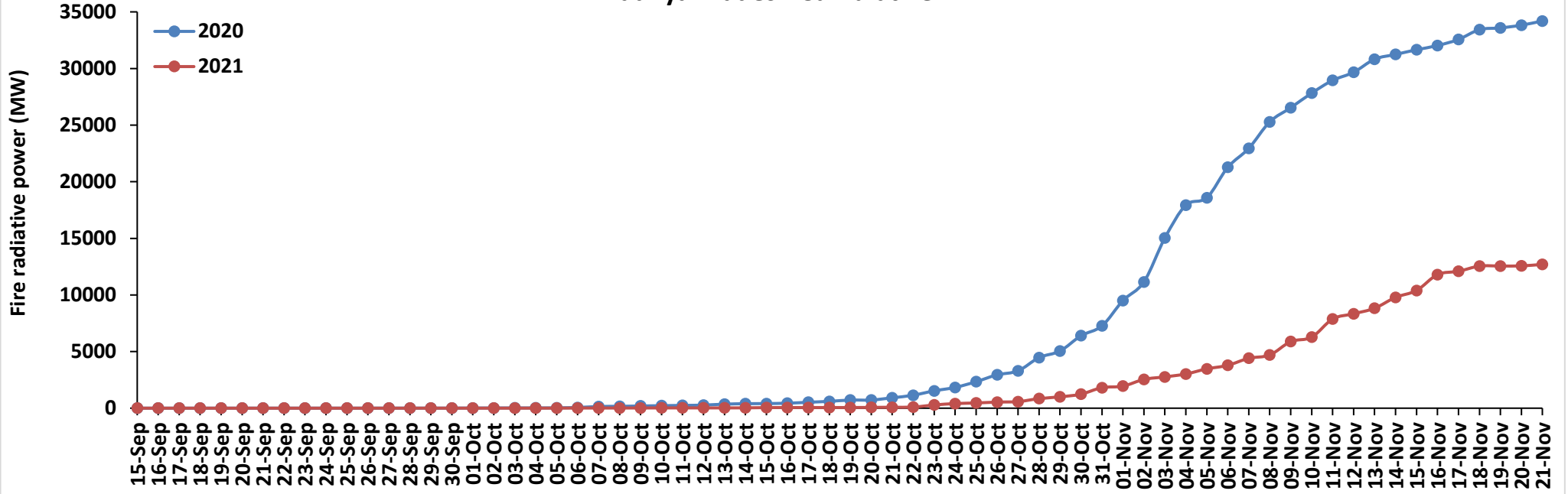
Uttar Pradesh Cumulative



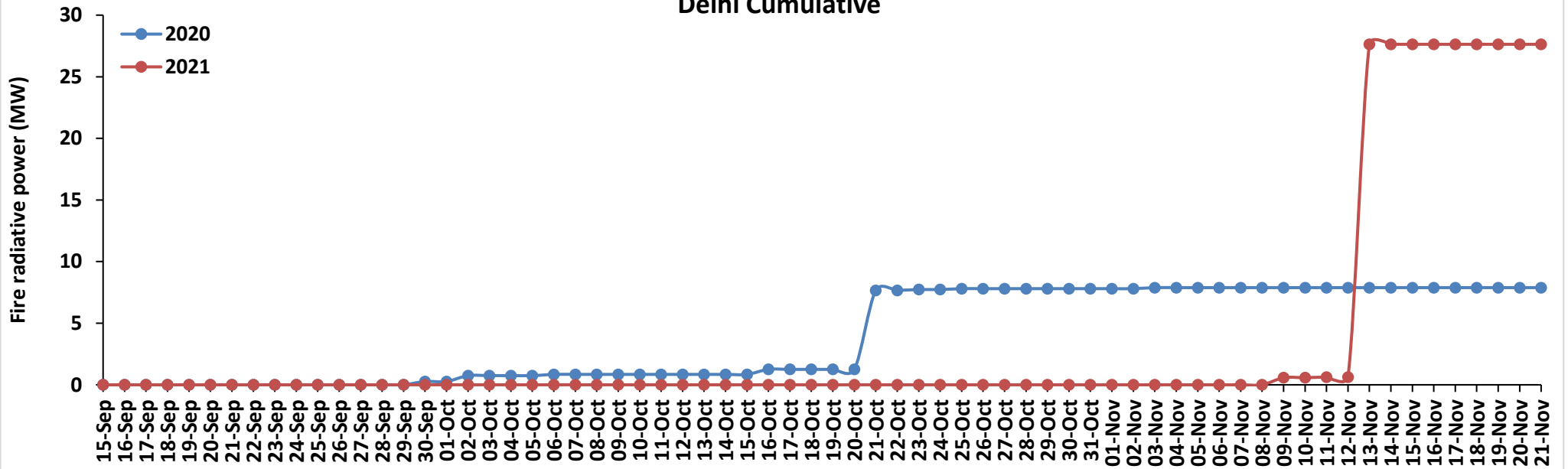
Rajasthan Cumulative



Madhya Pradesh Cumulative

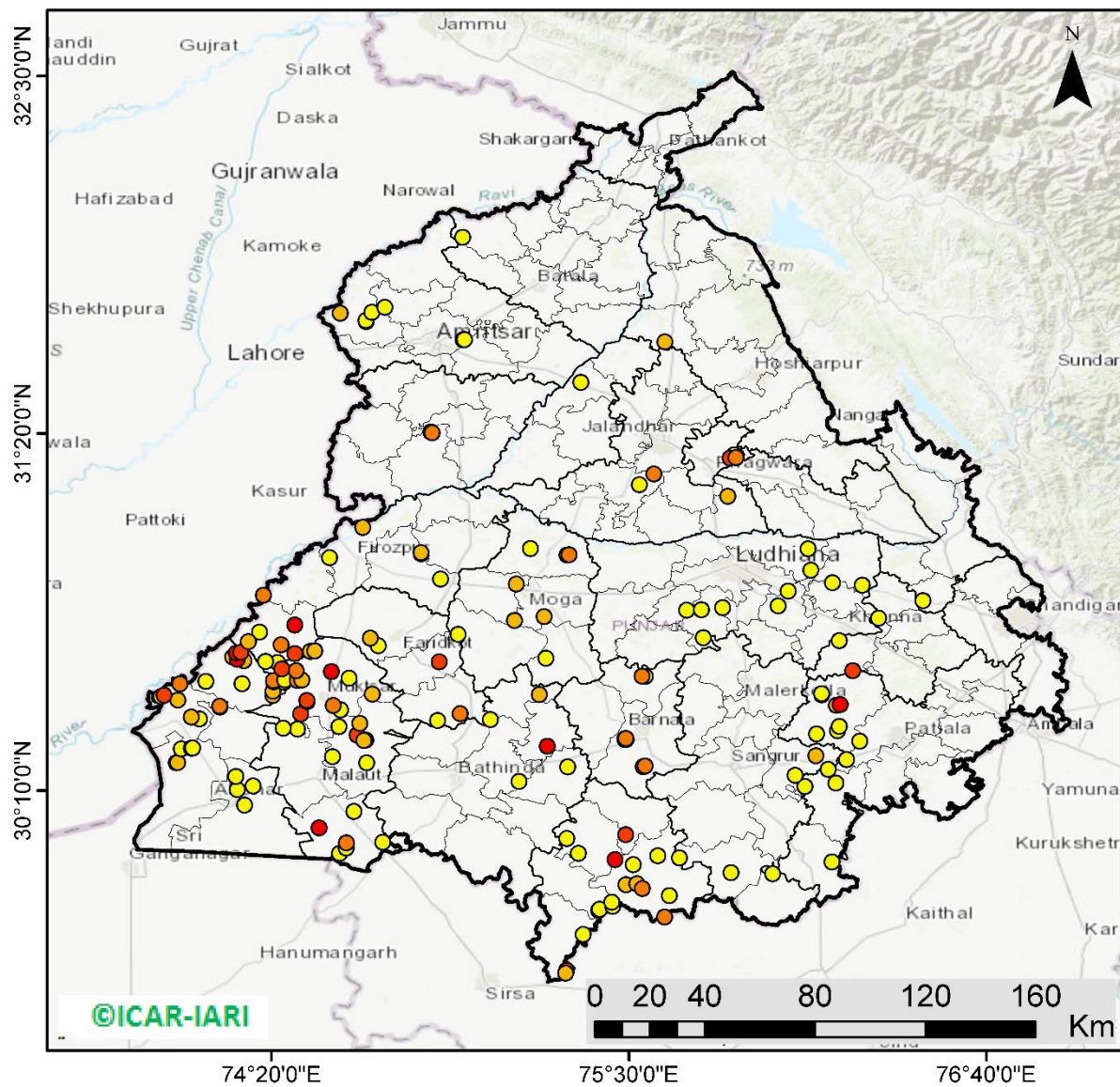


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



168 burning events detected in Punjab on 21st November 2021

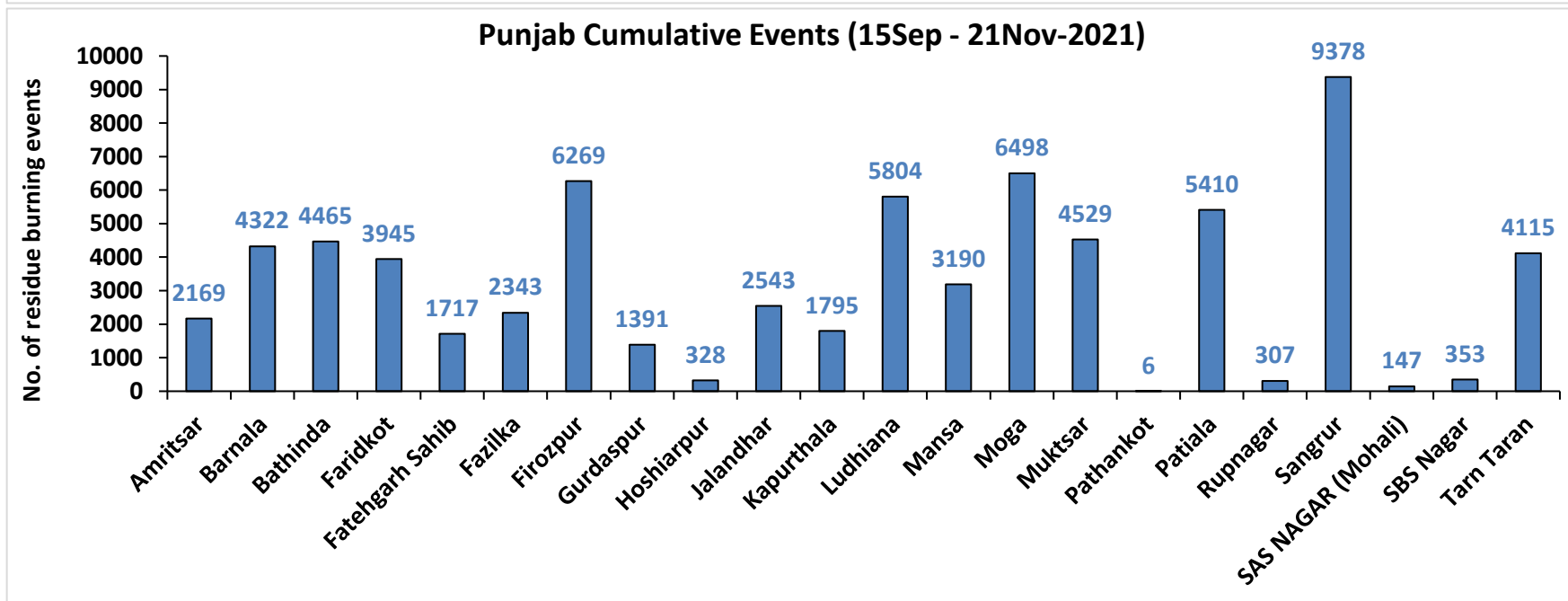
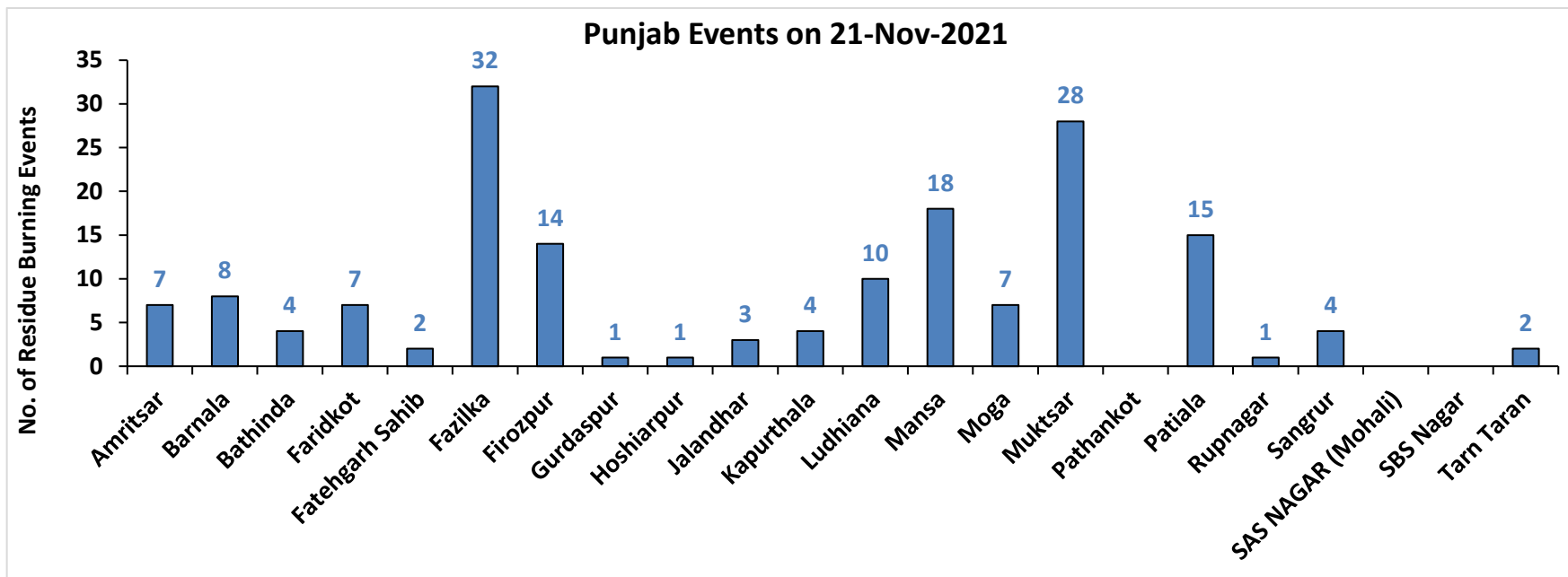
Fire Intensity (W/m²)

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



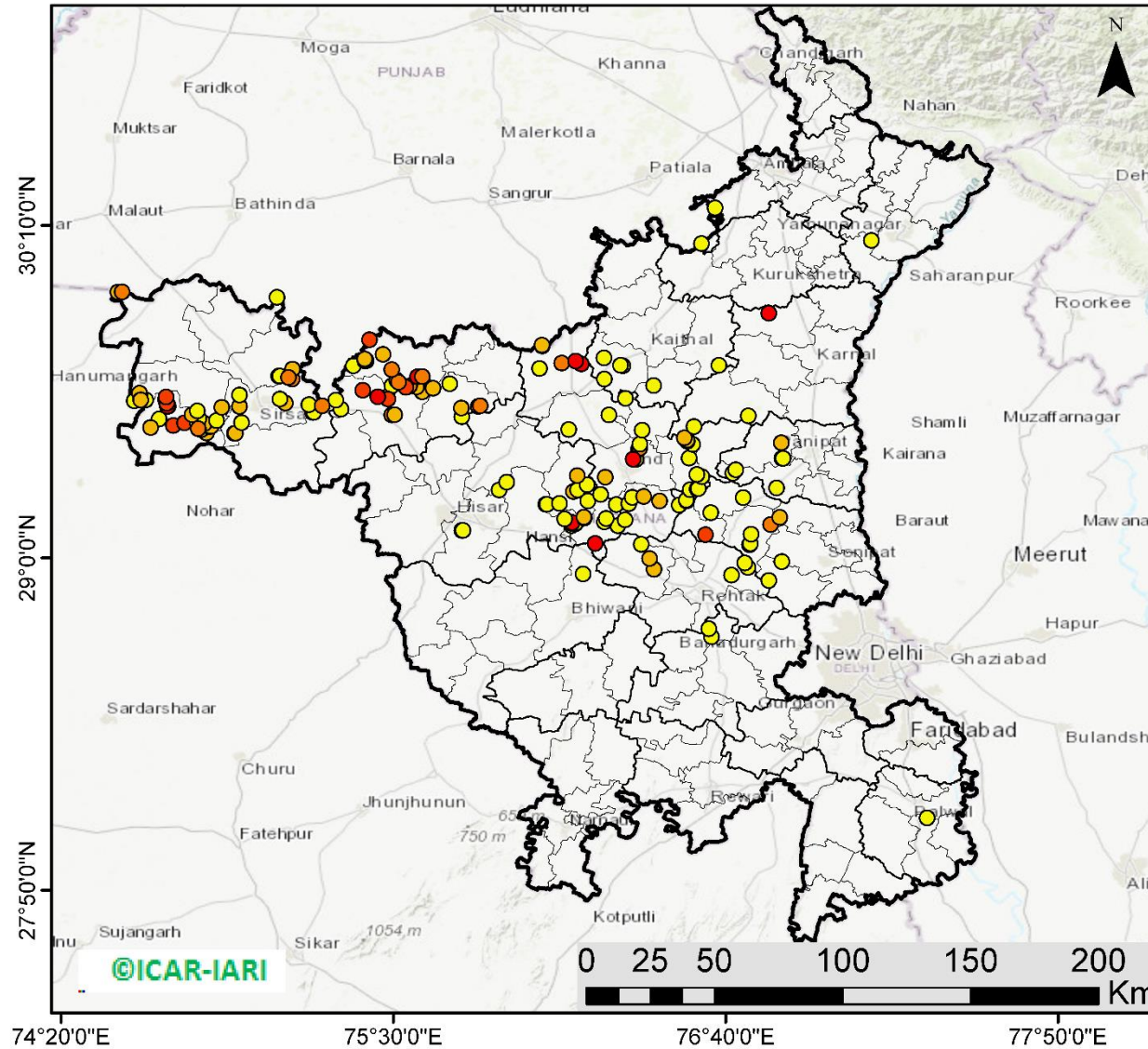
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15 Sep - 21 Nov-2021)



Haryana

RICE RESIDUE BURNING IN HARYANA



178 burning events detected in Haryana on 21st November 2021

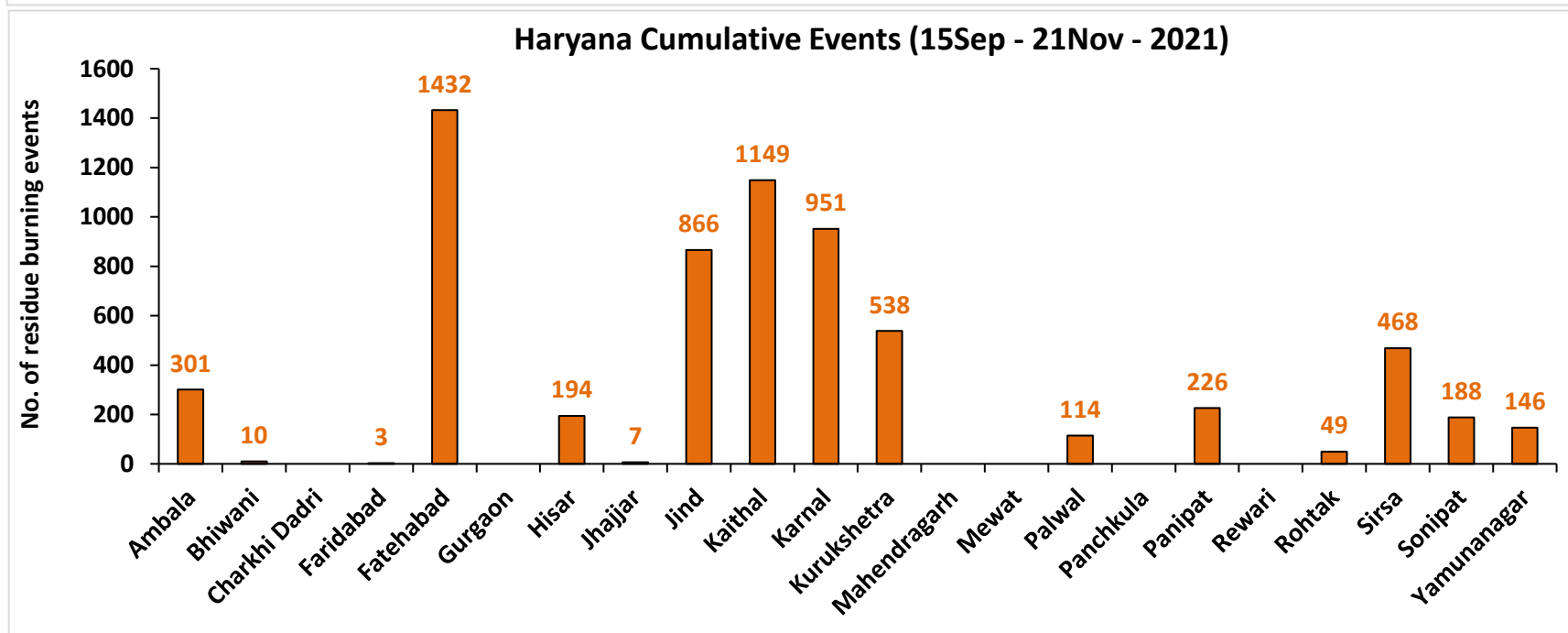
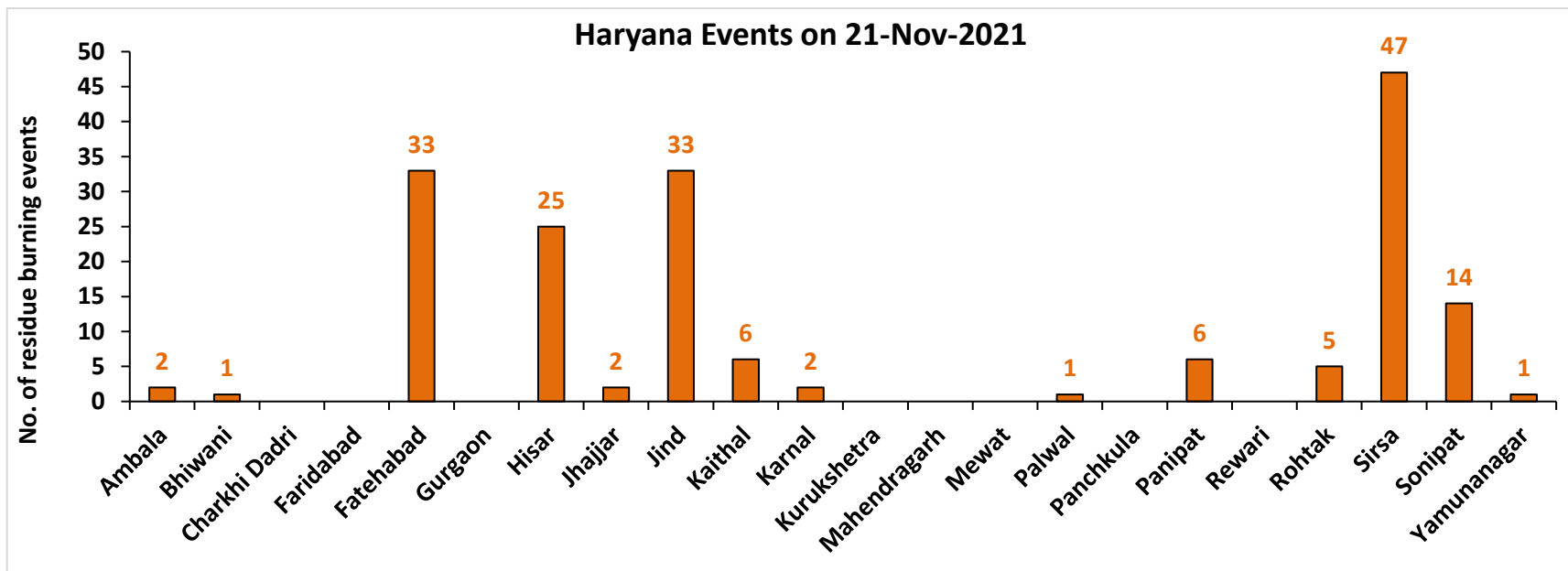
Fire Intensity (W/m²)

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



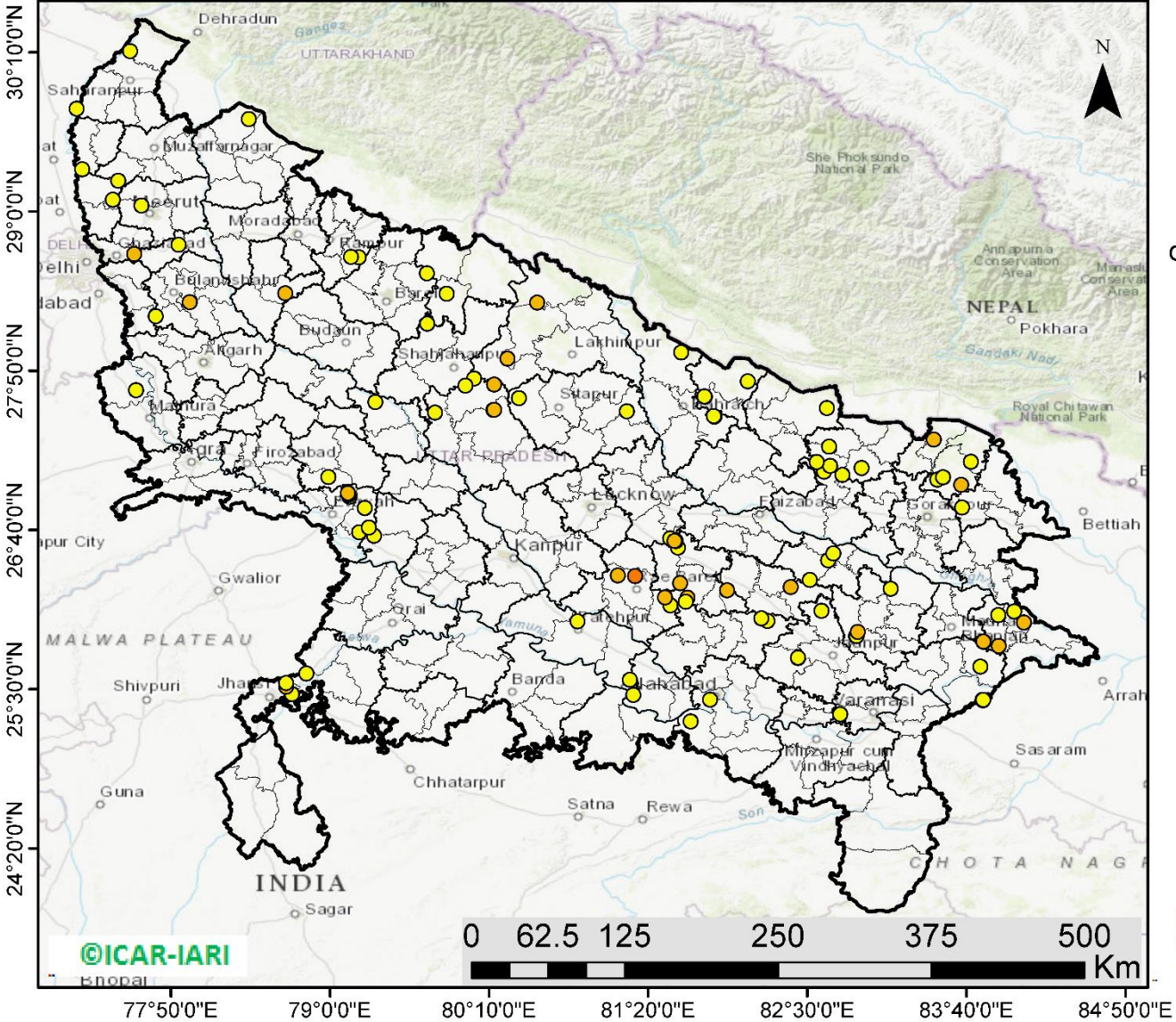
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15 Sep - 21 Nov-2021)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



106 burning events detected in Uttar Pradesh on 21st November 2021

Fire Intensity (W/m²)

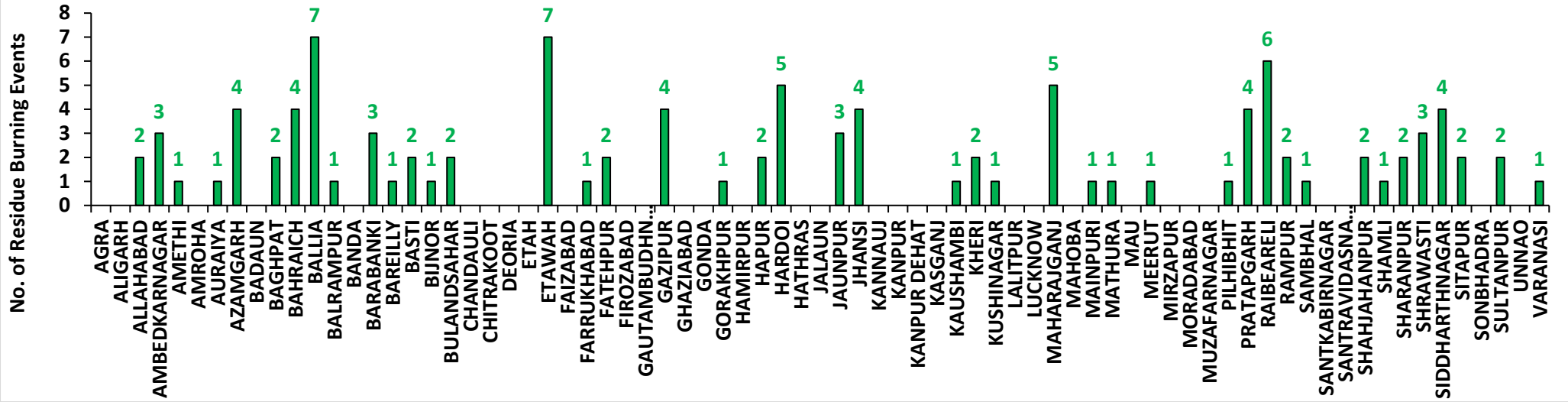
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



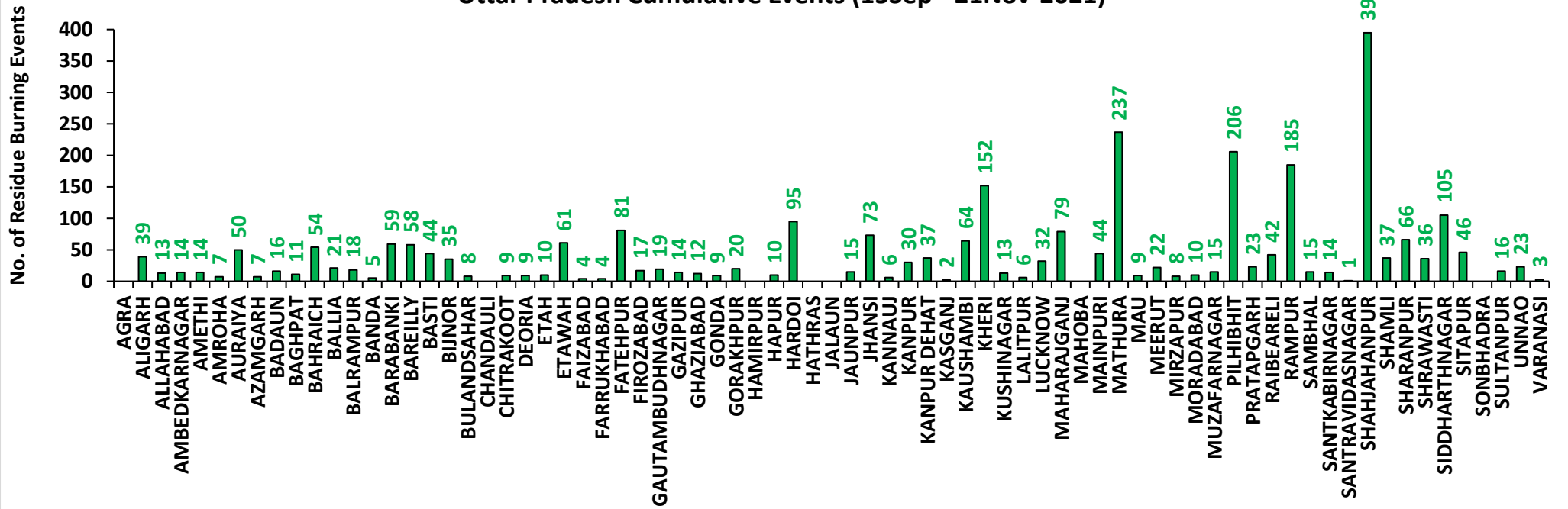
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District-wise cumulative number of residues burning events in Uttar Pradesh (15 Sep - 21 Nov-2021)

Uttar Pradesh Events on 21-Nov-2021

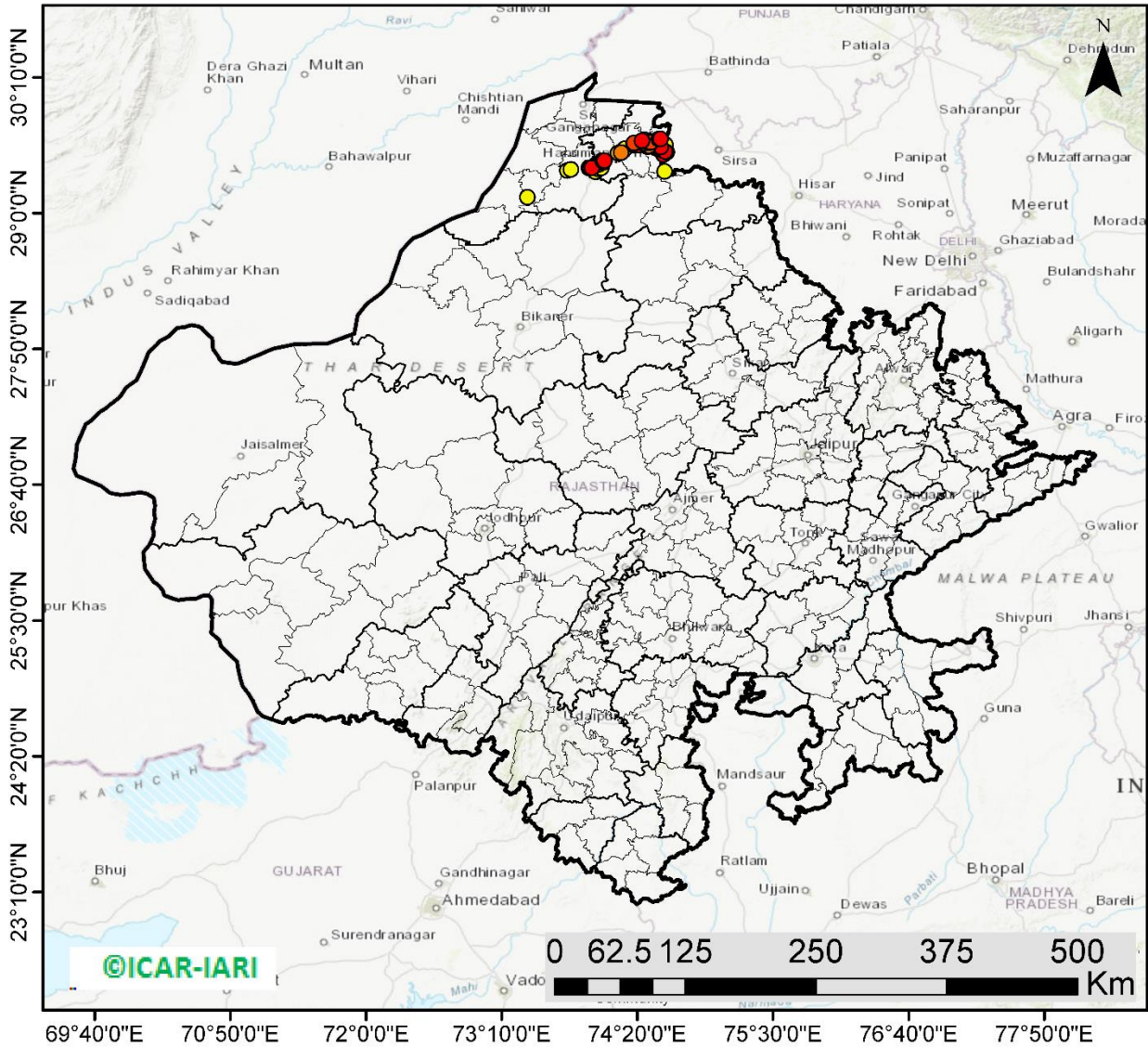


Uttar Pradesh Cumulative Events (15Sep - 21Nov-2021)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



72 burning events detected in Rajasthan on **21st November 2021**

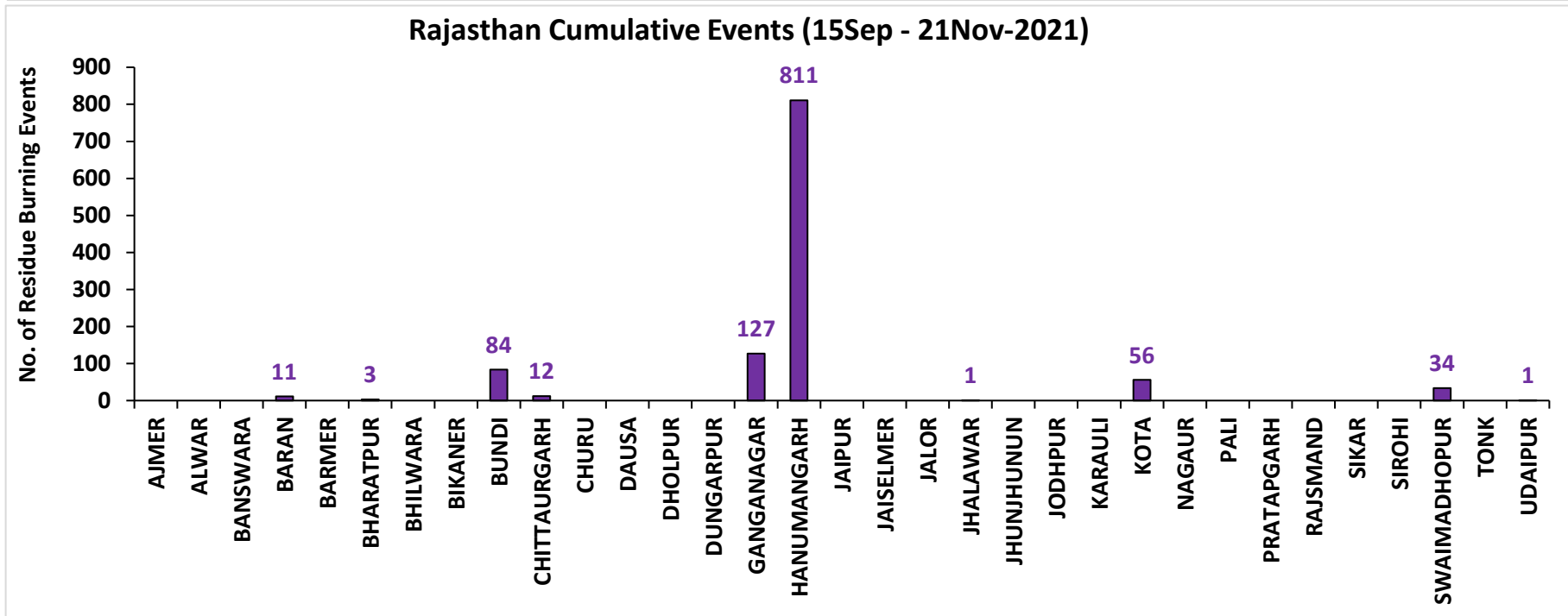
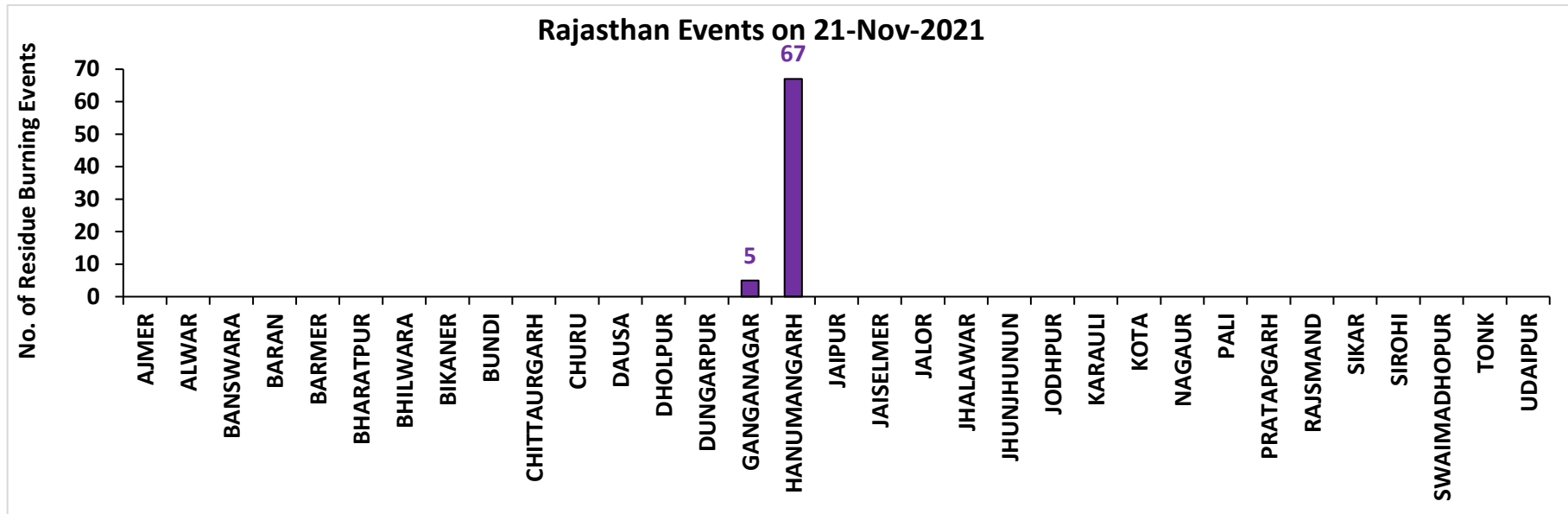
Fire Intensity (W/m²)

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



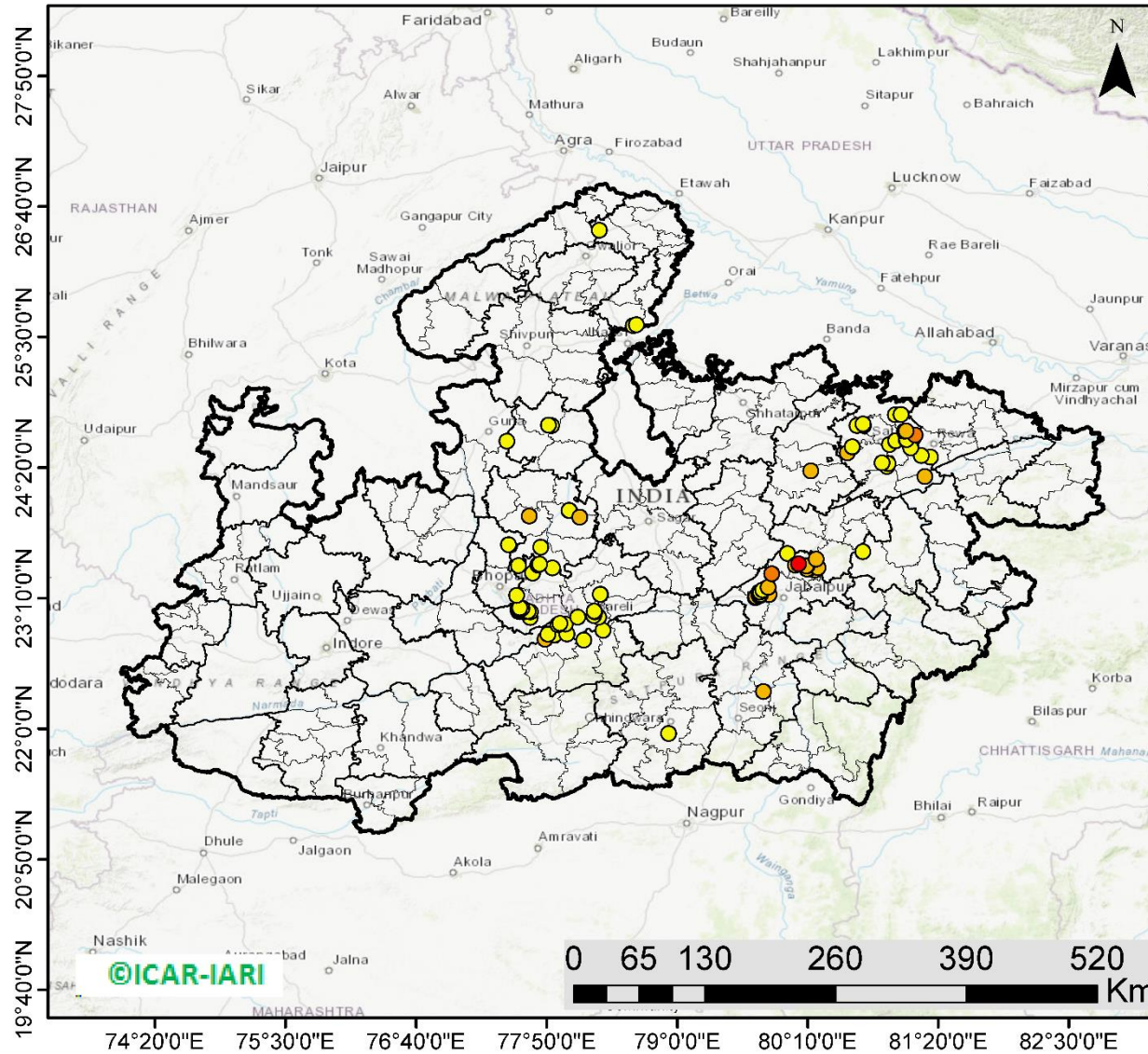
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15 Sep - 21 Nov-2021)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



95 burning events detected in MP on 21st November 2021

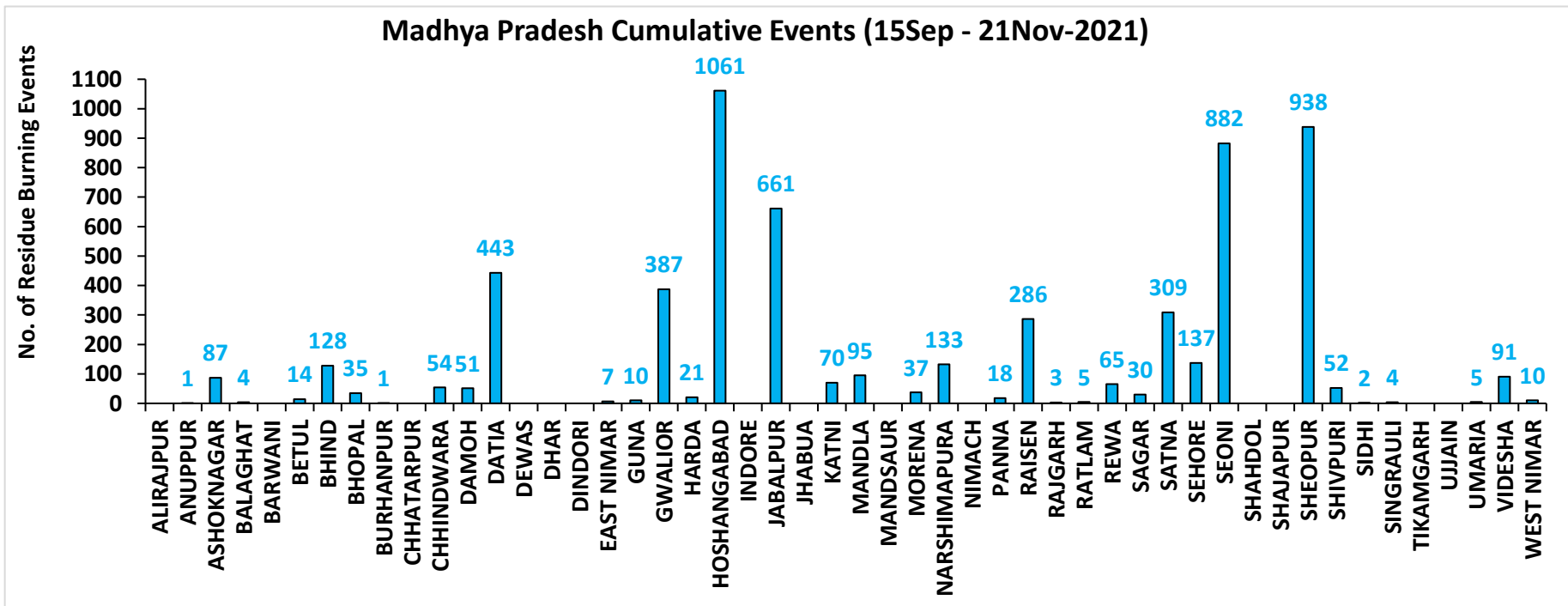
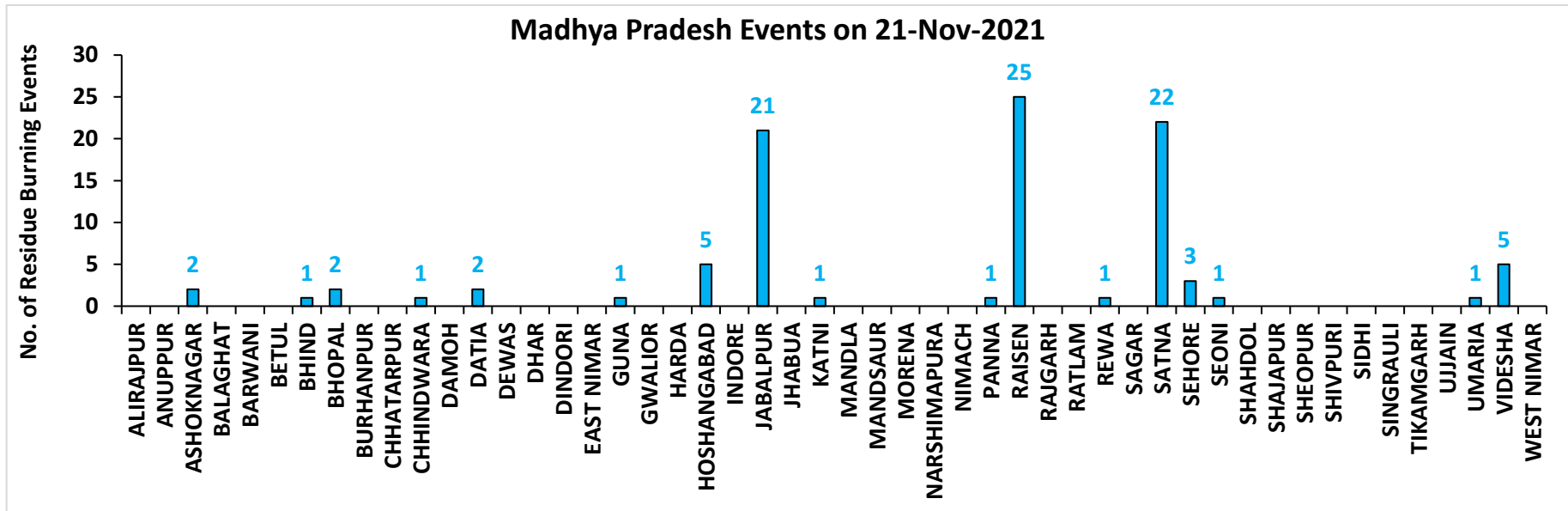
Fire Intensity (W/m²)

- 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 (15 Sep - 21 Nov-2021)



District-wise cumulative number of residues burning events detected in 2020 and 2021
(Period: 15 September - 21 November)

(a) Punjab

District	15 Sep – 21 Nov	
	2020	2021
AMRITSAR	3059	2169
BARNALA	5321	4322
BATHINDA	5218	4465
FARIDKOT	4726	3945
FATEHGARH SAHIB	1533	1717
FAZILKA	2517	2343
FIROZPUR	8507	6269
GURDASPUR	2122	1391
HOSHIARPUR	386	328
JALANDHAR	1937	2543
KAPURTHALA	1882	1795
LUDHIANA	5043	5804
MANSA	3771	3190
MOGA	7378	6498
MUKTSAR	4985	4529
PATHANKOT	13	6
PATIALA	6427	5410
RUPNAGAR	205	307
SANGRUR	11713	9378
SAS NAGAR (MOHALI)	127	147
SBS NAGAR	131	353
TARN TARAN	5603	4115
Total	82604	71024

(b) Haryana

District	15 Sep – 21 Nov	
	2020	2021
AMBALA	345	301
BHIWANI	4	10
CHARKHI DADRI	0	0
FARIDABAD	1	3
FATEHABAD	811	1432
GURGAON	0	0
HISAR	50	194
JHAJJAR	6	7
JIND	340	866
KAITHAL	835	1149
KARNAL	581	951
KURUKSHETRA	406	538
MAHENDRAGARH	0	0
MEWAT	0	0
PALWAL	46	114
PANCHKULA	0	0
PANIPAT	49	226
REWARI	0	0
ROHTAK	45	49
SIRSA	219	468
SONIPAT	69	188
YAMUNANAGAR	142	146
Total	3949	6642

(c) Uttar Pradesh

District	15 Sep – 21 Nov							
	2020	2021	GAUTAMBUDHNAGAR	14	19	MUZAFARNAGAR	40	15
AGRA	7	0	GAZIPUR	14	14	PILHIBHIT	16	206
ALIGARH	112	39	GHAZIABAD	22	12	PRATAPGARH	37	23
ALLAHABAD	27	13	GONDA	12	9	RAIBARELI	22	42
AMBEDKARNAGAR	20	14	GORAKHPUR	41	20	RAMPUR	155	185
AMETHI	3	14	HAMIRPUR	5	0	SAMBHAL	18	15
AMROHA	11	7	HAPUR	24	10	SANTKABIRNAGAR	28	14
AURAIYA	76	50	HARDOI	94	95	SANTRAVIDASNAGAR	4	1
AZAMGARH	45	7	HATHRAS	0	0	SHAHJAHANPUR	131	395
BADAUN	13	16	JALAUN	40	0	SHAMLI	46	37
BAGHPAT	16	11	JAUNPUR	37	15	SHARANPUR	93	66
BAHRAICH	105	54	JHANSI	281	73	SHRAWASTI	45	36
BALLIA	85	21	KANNAUJ	33	6	SIDDHARTHANAGAR	71	105
BALRAMPUR	64	18	KANPUR	27	30	SITAPUR	51	46
BANDA	19	5	KANPUR DEHAT	73	37	SONBHADRA	0	0
BARABANKI	35	59	KASGANJ	2	2	SULTANPUR	4	16
BAREILLY	72	58	KAUSHAMBI	55	64	UNNAO	41	23
BASTI	53	44	KHERI	143	152	VARANASI	1	3
BIJNOR	36	35	KUSHINAGAR	66	13	Total	3403	2914
BULANDSAHAR	53	8	LALITPUR	3	6			
CHANDAULI	3	0	LUCKNOW	35	32			
CHITRAKOOT	12	9	MAHARAJGANJ	47	79			
DEORIA	79	9	MAHOBA	27	0			
ETAH	17	10	MAINPURI	60	44			
ETAWAH	66	61	MATHURA	159	237			
FAIZABAD	9	4	MAU	23	9			
FARRUKHABAD	6	4	MEERUT	55	22			
FATEHPUR	106	81	MIRZAPUR	7	8			
FIROZABAD	26	17	MORADABAD	25	10			

(d) Delhi

District	15 Sep – 21 Nov	
	2020	2021
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	3	3
NORTH EAST	0	0
NORTH WEST DELHI	3	1
SHAHADRA	0	0
SOUTH	1	0
SOUTH EAST	0	0
SOUTH WEST DELHI	0	0
WEST DELHI	2	0
Total	9	4

(e) Rajasthan

District	15 Sep – 21 Nov	
	2020	2021
AJMER	3	0
ALWAR	9	0
BANSWARA	0	0
BARAN	166	11
BARMER	4	0
BHARATPUR	2	3
BHILWARA	11	0
BIKANER	1	0
BUNDI	128	84
CHITTAURGARH	1	12
CHURU	0	0
DAUSA	1	0
DHOLPUR	0	0
DUNGARPUR	0	0
GANGANAGAR	175	127
HANUMANGARH	837	811
JAIPUR	4	0
JAISELMER	5	0
JALOR	2	0
JHALAWAR	9	1
JHUNJHUNUN	1	0
JODHPUR	5	0
KARALI	1	0
KOTA	116	56
NAGPUR	3	0
PALI	9	0
PRATAPGARH	8	0
RAJSMAND	1	0
SIKAR	0	0
SIROHI	2	0
SWAIMADHOPUR	65	34
TONK	5	0
UDAIPUR	2	1
Total	1576	1140

(f) Madhya Pradesh

District	15 Sep – 21 Nov				
	2020	2021			
			PANNA	49	18
ALIRAJPUR	0	0	RAISEN	587	286
ANUPPUR	0	1	RAJGARH	10	3
ASHOKNAGAR	152	87	RATLAM	3	5
BALAGHAT	5	4	REWA	126	65
BARWANI	3	0	SAGAR	28	30
BETUL	36	14	SATNA	547	309
BHIND	252	128	SEHORE	150	137
BHOPAL	49	35	SEONI	1228	882
BURHANPUR	15	1	SHAHDOL	3	0
CHHATARPUR	7	0	SHAJAPUR	17	0
CHHINDWARA	127	54	SHEOPUR	1819	938
DAMOH	74	51	SHIVPURI	350	52
DATIA	1183	443	SIDHI	4	2
DEWAS	8	0	SINGRAULI	0	4
DHAR	43	0	TIKAMGARH	4	0
DINDORI	0	0	UJJAIN	10	0
EAST NIMAR	22	7	UMARIA	7	5
GUNA	67	10	VIDESHA	134	91
GWALIOR	1975	387	WEST NIMAR	63	10
HARDA	14	21	Total	13220	6137
HOSHANGABAD	1056	1061			
INDORE	4	0			
JABALPUR	2196	661			
JHABUA	0	0			
KATNI	306	70			
MANDLA	141	95			
MANDSAUR	12	0			
MORENA	62	37			
NARSHIMAPURA	270	133			
NIMACH	2	0			

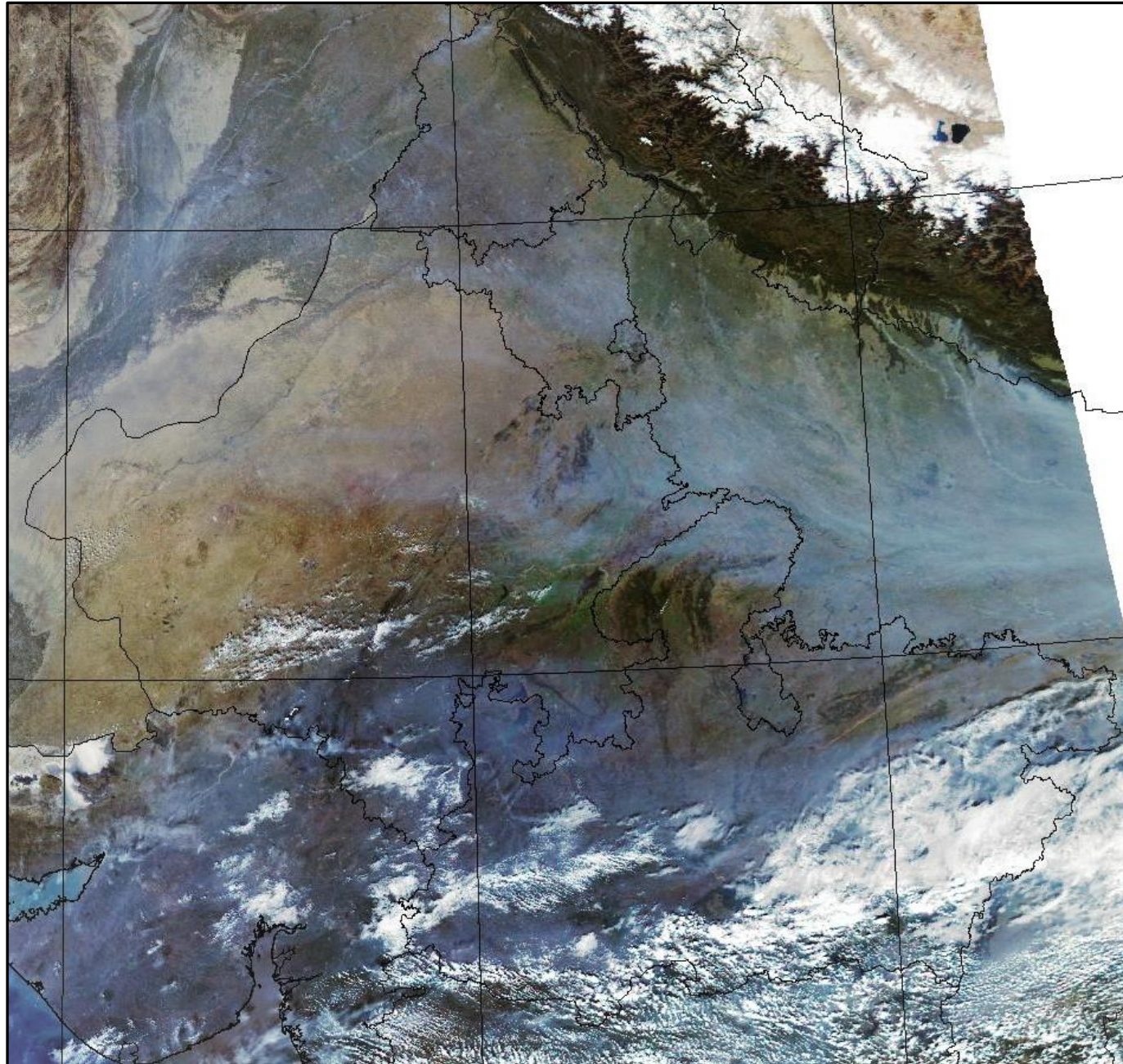
State-wise and date-wise number of paddy residue burning events detected in 2020 and 2021
(Period: 15 September – 21 November)

Number of Paddy Residue Burning Events Detected												
	Punjab		Haryana		Uttar Pradesh		Delhi		Rajasthan		Madhya Pradesh	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
15-Sep	5	0	2	0	1	0	0	0	1	0	2	0
16-Sep	0	2	1	0	0	0	0	0	0	0	0	0
17-Sep	5	0	3	0	0	0	0	0	0	0	0	0
18-Sep	17	9	0	0	0	1	0	0	0	0	0	0
19-Sep	30	5	2	0	0	1	0	0	0	0	0	0
20-Sep	67	8	6	0	2	0	0	0	0	0	0	0
21-Sep	54	0	2	0	1	0	0	0	1	0	2	0
22-Sep	34	0	1	0	1	0	0	0	0	0	0	0
23-Sep	49	0	0	0	1	0	0	0	1	0	0	0
24-Sep	78	5	0	0	1	1	0	0	0	0	0	0
25-Sep	184	11	11	0	5	0	0	0	1	0	0	0
26-Sep	190	19	5	0	8	0	0	0	1	0	2	0
27-Sep	78	37	8	0	4	1	0	0	0	0	1	0
28-Sep	55	28	6	1	1	6	0	0	0	0	1	1
29-Sep	63	64	9	4	6	10	0	0	3	0	0	4
30-Sep	116	27	22	2	13	13	1	0	1	0	5	0
01-Oct	165	13	15	4	7	13	0	0	4	1	13	0
02-Oct	141	0	30	2	12	0	1	0	7	0	12	0
03-Oct	110	9	8	6	4	3	0	0	9	0	5	1
04-Oct	162	23	29	2	8	0	0	0	15	0	4	2
05-Oct	161	18	17	3	14	2	0	0	14	0	13	1
06-Oct	171	42	30	0	12	1	1	0	16	0	37	1
07-Oct	197	72	32	11	41	13	0	0	14	1	31	1
08-Oct	95	108	29	27	25	11	0	0	11	0	17	2
09-Oct	121	114	20	39	15	20	0	0	12	0	15	4
10-Oct	232	150	33	95	9	54	0	0	14	1	18	10
11-Oct	377	64	90	51	23	28	0	0	21	7	32	2

12-Oct	388	97	69	51	46	23	0	0	24	1	44	1
13-Oct	266	132	47	91	36	42	0	0	7	5	21	2
14-Oct	605	229	69	98	9	68	0	0	16	1	15	11
15-Oct	449	660	106	363	15	149	0	0	9	8	8	27
16-Oct	654	429	80	176	21	121	1	0	12	2	23	13
17-Oct	1172	14	143	0	38	39	0	0	26	0	63	1
18-Oct	938	57	166	1	76	0	0	0	37	2	88	0
19-Oct	1080	496	72	55	43	5	0	0	27	5	49	1
20-Oct	890	788	62	155	31	1	0	0	26	4	9	21
21-Oct	1392	597	101	131	25	5	2	0	32	2	112	30
22-Oct	1665	1111	128	140	32	3	0	0	29	5	183	29
23-Oct	1438	620	106	218	84	8	1	0	23	7	204	32
24-Oct	911	0	57	38	63	11	0	0	20	4	150	34
25-Oct	1416	76	155	71	50	18	1	0	18	2	144	60
26-Oct	2126	329	77	175	33	41	0	0	34	3	178	55
27-Oct	2563	279	96	93	40	58	0	0	42	1	294	62
28-Oct	3232	906	139	149	87	35	0	0	45	4	537	110
29-Oct	1624	1353	52	161	139	32	0	0	29	23	349	97
30-Oct	3946	1373	100	148	50	53	0	0	17	20	428	168
31-Oct	3531	2895	108	353	49	170	0	0	37	15	455	299
01-Nov	3835	1796	151	124	74	157	0	0	51	5	709	198
02-Nov	4098	3001	111	203	82	87	0	0	55	19	820	214
03-Nov	2818	2512	93	197	197	66	1	0	34	20	771	148
04-Nov	4584	3032	72	228	152	123	0	0	46	19	618	123
05-Nov	4529	5327	66	331	52	70	0	0	46	45	474	320
06-Nov	5382	3942	151	219	43	208	0	0	40	32	678	248
07-Nov	5491	5199	150	182	86	46	0	0	57	38	848	199
08-Nov	3674	4397	115	138	169	21	0	0	33	44	981	170
09-Nov	1718	5079	21	217	115	51	0	1	34	48	495	330
10-Nov	3127	4008	80	184	101	77	0	0	48	40	346	380
11-Nov	2822	4156	93	126	71	151	0	1	75	55	418	506
12-Nov	1989	3403	83	127	108	120	0	0	31	40	422	185
13-Nov	2441	3742	105	210	172	95	0	2	54	78	670	171
14-Nov	307	2541	35	195	258	49	0	0	16	88	294	346
15-Nov	32	1761	31	129	29	67	0	0	6	51	35	353
16-Nov	8	1757	0	269	15	138	0	0	16	81	145	660

17-Nov	248	523	9	101	38	177	0	0	60	38	191	261
18-Nov	670	680	60	111	62	14	0	0	75	77	352	126
19-Nov	454	448	37	132	129	11	0	0	27	73	124	16
20-Nov	677	283	77	127	134	20	0	0	59	53	106	6
21-Nov	457	168	65	178	135	106	0	0	57	72	159	95
Total	82604	71024	3949	6642	3403	2914	9	4	1576	1140	13220	6137

[AQUA \(MODIS\) Satellite image \(TCC\) of North and Central India Acquired on 21-Nov-2021 at 14:00:00 IST by IARI Ground Station](#)



Details of residue burning events in Punjab on 21-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	CHOGAWAN	S-NPP	31.69790	74.64300	11/21/2021	13:30:01	D	2.30
2	AMRITSAR	CHOGAWAN	S-NPP	31.70120	74.64230	11/21/2021	13:30:01	D	2.80
3	AMRITSAR	CHOGAWAN	S-NPP	31.72800	74.66170	11/21/2021	13:30:01	D	2.80
4	AMRITSAR	CHOGAWAN	S-NPP	31.74470	74.70400	11/21/2021	13:30:01	D	2.90
5	AMRITSAR	CHOGAWAN	AQUA	31.72500	74.55800	11/21/2021	14:03:00	D	9.40
6	AMRITSAR	VERKA	S-NPP	31.63820	74.95920	11/21/2021	13:30:01	D	2.60
7	AMRITSAR	VERKA	S-NPP	31.63880	74.96320	11/21/2021	13:30:01	D	4.10
8	BARNALA	BARNALA	S-NPP	30.33330	75.48750	11/21/2021	13:30:01	D	10.20
9	BARNALA	BARNALA	S-NPP	30.33390	75.49150	11/21/2021	13:30:01	D	10.20
10	BARNALA	BARNALA	S-NPP	30.33650	75.48690	11/21/2021	13:30:01	D	10.20
11	BARNALA	BARNALA	S-NPP	30.33720	75.49080	11/21/2021	13:30:01	D	10.20
12	BARNALA	BARNALA	AQUA	30.24500	75.54700	11/21/2021	14:03:00	D	9.40
13	BARNALA	BARNALA	AQUA	30.24700	75.55300	11/21/2021	14:03:00	D	10.90
14	BARNALA	MAHAL KALAN	S-NPP	30.53940	75.55340	11/21/2021	13:30:01	D	2.20
15	BARNALA	MAHAL KALAN	AQUA	30.54000	75.54300	11/21/2021	14:03:00	D	13.10
16	BATHINDA	BHAGTA BHAI KA	S-NPP	30.48040	75.20780	11/21/2021	13:30:01	D	7.60
17	BATHINDA	NATHANA	S-NPP	30.19630	75.14200	11/21/2021	13:30:01	D	1.20
18	BATHINDA	PHUL	S-NPP	30.31170	75.23350	11/21/2021	13:30:01	D	27.80
19	BATHINDA	RAMPURA	S-NPP	30.24440	75.30030	11/21/2021	13:30:01	D	3.00
20	FARIDKOT	FARIDKOT	S-NPP	30.63990	74.68200	11/21/2021	13:30:01	D	4.10
21	FARIDKOT	FARIDKOT	AQUA	30.66400	74.65600	11/21/2021	14:03:00	D	8.40
22	FARIDKOT	JAITON	S-NPP	30.39590	74.87570	11/21/2021	13:30:01	D	4.50
23	FARIDKOT	JAITON	S-NPP	30.39870	75.04780	11/21/2021	13:30:01	D	2.70
24	FARIDKOT	JAITON	S-NPP	30.41750	74.94940	11/21/2021	13:30:01	D	10.70
25	FARIDKOT	KOT KAPURA	S-NPP	30.67690	74.94260	11/21/2021	13:30:01	D	4.80
26	FARIDKOT	KOT KAPURA	AQUA	30.58700	74.88100	11/21/2021	14:03:00	D	17.90
27	FATEHGARH SAHIB	AMLOH	S-NPP	30.65650	76.18740	11/21/2021	13:30:01	D	1.00
28	FATEHGARH SAHIB	KHAMANON	S-NPP	30.72960	76.31520	11/21/2021	13:30:01	D	1.20

29	FAZILKA	ABOHAR	S-NPP	30.11900	74.24550	11/21/2021	13:30:01	D	4.50
30	FAZILKA	ABOHAR	S-NPP	30.17020	74.22200	11/21/2021	13:30:01	D	4.70
31	FAZILKA	ABOHAR	S-NPP	30.18200	74.27390	11/21/2021	13:30:01	D	4.40
32	FAZILKA	ABOHAR	S-NPP	30.21310	74.21750	11/21/2021	13:30:01	D	2.70
33	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.43930	74.16570	11/21/2021	13:30:01	D	11.20
34	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.44260	74.16500	11/21/2021	13:30:01	D	11.20
35	FAZILKA	FAZILKA	S-NPP	30.40080	74.09840	11/21/2021	13:30:01	D	2.60
36	FAZILKA	FAZILKA	S-NPP	30.40690	74.07180	11/21/2021	13:30:01	D	7.90
37	FAZILKA	FAZILKA	S-NPP	30.47360	73.97310	11/21/2021	13:30:01	D	1.90
38	FAZILKA	FAZILKA	AQUA	30.46200	74.02800	11/21/2021	14:03:00	D	5.60
39	FAZILKA	FAZILKA	AQUA	30.47800	73.98300	11/21/2021	14:03:00	D	15.40
40	FAZILKA	FAZILKA	AQUA	30.51500	74.03500	11/21/2021	14:03:00	D	13.80
41	FAZILKA	JALALABAD	S-NPP	30.47710	74.33750	11/21/2021	13:30:01	D	10.00
42	FAZILKA	JALALABAD	S-NPP	30.49100	74.33870	11/21/2021	13:30:01	D	5.40
43	FAZILKA	JALALABAD	S-NPP	30.51600	74.23730	11/21/2021	13:30:01	D	2.20
44	FAZILKA	JALALABAD	S-NPP	30.52060	74.37410	11/21/2021	13:30:01	D	2.70
45	FAZILKA	JALALABAD	S-NPP	30.52210	74.34040	11/21/2021	13:30:01	D	12.80
46	FAZILKA	JALALABAD	S-NPP	30.52300	74.11940	11/21/2021	13:30:01	D	1.50
47	FAZILKA	JALALABAD	S-NPP	30.52540	74.33970	11/21/2021	13:30:01	D	12.80
48	FAZILKA	JALALABAD	S-NPP	30.52790	74.37670	11/21/2021	13:30:01	D	3.20
49	FAZILKA	JALALABAD	S-NPP	30.59100	74.24320	11/21/2021	13:30:01	D	7.50
50	FAZILKA	JALALABAD	S-NPP	30.60240	74.20730	11/21/2021	13:30:01	D	8.20
51	FAZILKA	JALALABAD	S-NPP	30.61360	74.23430	11/21/2021	13:30:01	D	55.10
52	FAZILKA	JALALABAD	S-NPP	30.61690	74.23350	11/21/2021	13:30:01	D	55.10
53	FAZILKA	JALALABAD	AQUA	30.59500	74.22200	11/21/2021	14:03:00	D	23.40
54	FAZILKA	JALALABAD	AQUA	30.61600	74.21900	11/21/2021	14:03:00	D	32.80
55	FAZILKA	JALALABAD	AQUA	30.61800	74.23400	11/21/2021	14:03:00	D	15.20
56	FAZILKA	KHUIAN SARWAR	S-NPP	30.25740	74.02310	11/21/2021	13:30:01	D	6.20
57	FAZILKA	KHUIAN SARWAR	S-NPP	30.25810	74.02720	11/21/2021	13:30:01	D	6.20
58	FAZILKA	KHUIAN SARWAR	S-NPP	30.30290	74.03890	11/21/2021	13:30:01	D	2.40
59	FAZILKA	KHUIAN SARWAR	S-NPP	30.30490	74.07210	11/21/2021	13:30:01	D	3.80
60	FAZILKA	KHUIAN SARWAR	S-NPP	30.30560	74.07620	11/21/2021	13:30:01	D	3.80

61	FIROZPUR	FIROZPUR	S-NPP	30.92690	74.52330	11/21/2021	13:30:01	D	2.10
62	FIROZPUR	FIROZPUR	S-NPP	31.02570	74.63130	11/21/2021	13:30:01	D	6.30
63	FIROZPUR	GHALL KHURD	S-NPP	30.85770	74.88520	11/21/2021	13:30:01	D	4.50
64	FIROZPUR	GHALL KHURD	S-NPP	30.93990	74.82270	11/21/2021	13:30:01	D	2.80
65	FIROZPUR	GURUHAR SAHAI	S-NPP	30.58450	74.35320	11/21/2021	13:30:01	D	2.20
66	FIROZPUR	GURUHAR SAHAI	S-NPP	30.58870	74.31480	11/21/2021	13:30:01	D	3.20
67	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61400	74.40940	11/21/2021	13:30:01	D	15.50
68	FIROZPUR	GURUHAR SAHAI	S-NPP	30.68400	74.29490	11/21/2021	13:30:01	D	3.10
69	FIROZPUR	GURUHAR SAHAI	AQUA	30.56400	74.36700	11/21/2021	14:03:00	D	19.10
70	FIROZPUR	GURUHAR SAHAI	AQUA	30.64300	74.36500	11/21/2021	14:03:00	D	11.00
71	FIROZPUR	GURUHAR SAHAI	AQUA	30.65300	74.25800	11/21/2021	14:03:00	D	6.50
72	FIROZPUR	GURUHAR SAHAI	AQUA	30.70700	74.41000	11/21/2021	14:03:00	D	21.70
73	FIROZPUR	MAMDOT	S-NPP	30.80450	74.30710	11/21/2021	13:30:01	D	10.30
74	FIROZPUR	ZIRA	S-NPP	30.94320	74.82200	11/21/2021	13:30:01	D	7.50
75	GURDASPUR	DERA BABA NANAK	S-NPP	31.97300	74.95740	11/21/2021	13:30:01	D	2.30
76	HOSHIARPUR	TANDA	S-NPP	31.63140	75.61740	11/21/2021	13:30:01	D	6.20
77	JALANDHAR	NAKODAR	S-NPP	31.16580	75.53460	11/21/2021	13:30:01	D	4.90
78	JALANDHAR	NAKODAR	S-NPP	31.20000	75.58160	11/21/2021	13:30:01	D	11.10
79	JALANDHAR	PHILLAUR	S-NPP	31.12760	75.82360	11/21/2021	13:30:01	D	5.60
80	KAPURTHALA	DHILWAN	S-NPP	31.49990	75.34380	11/21/2021	13:30:01	D	2.40
81	KAPURTHALA	PHAGWARA	S-NPP	31.26240	75.84380	11/21/2021	13:30:01	D	2.50
82	KAPURTHALA	PHAGWARA	AQUA	31.25200	75.83100	11/21/2021	14:03:00	D	19.10
83	KAPURTHALA	PHAGWARA	AQUA	31.25400	75.85000	11/21/2021	14:03:00	D	14.00
84	LUDHIANA	DEHLON	S-NPP	30.76370	75.80620	11/21/2021	13:30:01	D	2.20
85	LUDHIANA	DORAHA	S-NPP	30.76990	75.98720	11/21/2021	13:30:01	D	2.00
86	LUDHIANA	DORAHA	S-NPP	30.81790	76.02030	11/21/2021	13:30:01	D	4.40
87	LUDHIANA	LUDHIANA-2	S-NPP	30.88660	76.09440	11/21/2021	13:30:01	D	2.10
88	LUDHIANA	LUDHIANA-2	S-NPP	30.95610	76.08550	11/21/2021	13:30:01	D	1.60
89	LUDHIANA	MACHHIWARA	S-NPP	30.83710	76.26170	11/21/2021	13:30:01	D	2.30
90	LUDHIANA	PAKHOWAL	S-NPP	30.66590	75.74280	11/21/2021	13:30:01	D	2.80
91	LUDHIANA	PAKHOWAL	S-NPP	30.75690	75.73730	11/21/2021	13:30:01	D	3.20
92	LUDHIANA	SAMRALA	S-NPP	30.84560	76.16490	11/21/2021	13:30:01	D	4.50
93	LUDHIANA	SUDHAR	S-NPP	30.75570	75.68880	11/21/2021	13:30:01	D	1.80

94	MANSA	BHIKHI	AQUA	30.02300	75.49000	11/21/2021	14:03:00	D	15.20
95	MANSA	BUDHLADA	S-NPP	29.75400	75.61660	11/21/2021	13:30:01	D	11.00
96	MANSA	BUDHLADA	S-NPP	29.78920	75.44740	11/21/2021	13:30:01	D	2.90
97	MANSA	BUDHLADA	S-NPP	29.80240	75.44480	11/21/2021	13:30:01	D	2.90
98	MANSA	BUDHLADA	S-NPP	29.82400	75.63220	11/21/2021	13:30:01	D	1.10
99	MANSA	BUDHLADA	S-NPP	29.85970	75.49050	11/21/2021	13:30:01	D	9.10
100	MANSA	BUDHLADA	S-NPP	29.86250	75.52660	11/21/2021	13:30:01	D	9.50
101	MANSA	BUDHLADA	S-NPP	29.92450	75.51440	11/21/2021	13:30:01	D	1.70
102	MANSA	BUDHLADA	S-NPP	29.95360	75.59440	11/21/2021	13:30:01	D	3.30
103	MANSA	BUDHLADA	AQUA	29.84700	75.54400	11/21/2021	14:03:00	D	10.40
104	MANSA	JHUNIR	S-NPP	29.77540	75.40130	11/21/2021	13:30:01	D	5.30
105	MANSA	JHUNIR	S-NPP	29.77930	75.40450	11/21/2021	13:30:01	D	2.60
106	MANSA	MANSA	S-NPP	29.96170	75.33570	11/21/2021	13:30:01	D	2.50
107	MANSA	MANSA	S-NPP	30.01020	75.29730	11/21/2021	13:30:01	D	2.20
108	MANSA	MANSA	AQUA	29.94100	75.45500	11/21/2021	14:03:00	D	30.10
109	MANSA	SARDULGARH	S-NPP	29.58010	75.29690	11/21/2021	13:30:01	D	17.30
110	MANSA	SARDULGARH	S-NPP	29.69660	75.35090	11/21/2021	13:30:01	D	1.80
111	MANSA	SARDULGARH	AQUA	29.57100	75.29400	11/21/2021	14:03:00	D	9.10
112	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.95700	75.17860	11/21/2021	13:30:01	D	2.20
113	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	30.93600	75.29800	11/21/2021	14:03:00	D	10.20
114	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	30.93700	75.30500	11/21/2021	14:03:00	D	11.70
115	MOGA	MOGA-1	S-NPP	30.72220	75.12700	11/21/2021	13:30:01	D	8.10
116	MOGA	MOGA-1	AQUA	30.73500	75.22300	11/21/2021	14:03:00	D	9.60
117	MOGA	MOGA-2	AQUA	30.84100	75.13300	11/21/2021	14:03:00	D	9.80
118	MOGA	NIHAL SINGH	S-NPP	30.59910	75.22930	11/21/2021	13:30:01	D	2.10
119	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.25780	74.64420	11/21/2021	13:30:01	D	3.10
120	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.27730	74.53280	11/21/2021	13:30:01	D	2.10
121	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.33200	74.64140	11/21/2021	13:30:01	D	6.40
122	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.34810	74.61330	11/21/2021	13:30:01	D	16.30

123	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.37530	74.55380	11/21/2021	13:30:01	D	3.50
124	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.38610	74.62190	11/21/2021	13:30:01	D	8.00
125	MUKTSAR	KOT BHAI AT GIDDERBAHA	AQUA	30.33000	74.63500	11/21/2021	14:03:00	D	7.80
126	MUKTSAR	LAMBI	S-NPP	29.96190	74.55580	11/21/2021	13:30:01	D	3.20
127	MUKTSAR	LAMBI	S-NPP	29.97900	74.57710	11/21/2021	13:30:01	D	2.70
128	MUKTSAR	LAMBI	S-NPP	29.99800	74.69700	11/21/2021	13:30:01	D	3.60
129	MUKTSAR	LAMBI	S-NPP	30.09860	74.60280	11/21/2021	13:30:01	D	1.60
130	MUKTSAR	LAMBI	AQUA	29.99600	74.57800	11/21/2021	14:03:00	D	10.50
131	MUKTSAR	LAMBI	AQUA	30.04500	74.48900	11/21/2021	14:03:00	D	24.30
132	MUKTSAR	MALOUT	S-NPP	30.36750	74.41850	11/21/2021	13:30:01	D	3.40
133	MUKTSAR	MALOUT	S-NPP	30.37040	74.37210	11/21/2021	13:30:01	D	3.50
134	MUKTSAR	MUKTSAR	S-NPP	30.41710	74.42880	11/21/2021	13:30:01	D	17.90
135	MUKTSAR	MUKTSAR	S-NPP	30.43080	74.55880	11/21/2021	13:30:01	D	3.80
136	MUKTSAR	MUKTSAR	S-NPP	30.44420	74.53530	11/21/2021	13:30:01	D	10.70
137	MUKTSAR	MUKTSAR	S-NPP	30.45740	74.44990	11/21/2021	13:30:01	D	17.20
138	MUKTSAR	MUKTSAR	S-NPP	30.46070	74.44920	11/21/2021	13:30:01	D	17.20
139	MUKTSAR	MUKTSAR	S-NPP	30.53380	74.58730	11/21/2021	13:30:01	D	3.60
140	MUKTSAR	MUKTSAR	S-NPP	30.55540	74.52890	11/21/2021	13:30:01	D	26.70
141	MUKTSAR	MUKTSAR	AQUA	30.48200	74.66300	11/21/2021	14:03:00	D	8.20
142	MUKTSAR	MUKTSAR	AQUA	30.52600	74.41800	11/21/2021	14:03:00	D	11.10
143	MUKTSAR	MUKTSAR	AQUA	30.52800	74.43300	11/21/2021	14:03:00	D	9.60
144	MUKTSAR	MUKTSAR	AQUA	30.55800	74.41400	11/21/2021	14:03:00	D	12.30
145	MUKTSAR	MUKTSAR	AQUA	30.62100	74.46000	11/21/2021	14:03:00	D	8.30
146	MUKTSAR	MUKTSAR	AQUA	30.62300	74.47500	11/21/2021	14:03:00	D	9.70
147	PATIALA	NABHA	S-NPP	30.35210	76.11280	11/21/2021	13:30:01	D	1.50
148	PATIALA	NABHA	S-NPP	30.36200	76.18120	11/21/2021	13:30:01	D	3.30
149	PATIALA	NABHA	S-NPP	30.37650	76.18670	11/21/2021	13:30:01	D	2.30
150	PATIALA	NABHA	S-NPP	30.44560	76.17770	11/21/2021	13:30:01	D	8.50
151	PATIALA	NABHA	S-NPP	30.44730	76.18980	11/21/2021	13:30:01	D	33.00
152	PATIALA	NABHA	S-NPP	30.47950	76.12980	11/21/2021	13:30:01	D	2.10
153	PATIALA	NABHA	S-NPP	30.48280	76.12910	11/21/2021	13:30:01	D	5.00

154	PATIALA	NABHA	S-NPP	30.55830	76.23110	11/21/2021	13:30:01	D	18.70
155	PATIALA	PATIALA	S-NPP	30.26820	76.21060	11/21/2021	13:30:01	D	3.80
156	PATIALA	PATIALA	S-NPP	30.32820	76.25400	11/21/2021	13:30:01	D	2.00
157	PATIALA	PATRAN	S-NPP	29.89480	75.96960	11/21/2021	13:30:01	D	1.90
158	PATIALA	PATRAN	S-NPP	29.93360	76.16300	11/21/2021	13:30:01	D	4.60
159	PATIALA	SAMANA	S-NPP	30.18020	76.07490	11/21/2021	13:30:01	D	3.60
160	PATIALA	SAMANA	S-NPP	30.19150	76.17580	11/21/2021	13:30:01	D	2.10
161	PATIALA	SAMANA	S-NPP	30.23560	76.15080	11/21/2021	13:30:01	D	1.80
162	RUPNAGAR	MORINDA	S-NPP	30.78670	76.46000	11/21/2021	13:30:01	D	1.90
163	SANGRUR	BHAWANIGARH	S-NPP	30.21640	76.04310	11/21/2021	13:30:01	D	3.20
164	SANGRUR	BHAWANIGARH	S-NPP	30.28010	76.11020	11/21/2021	13:30:01	D	8.20
165	SANGRUR	LEHRA GAGA	S-NPP	29.89850	75.83390	11/21/2021	13:30:01	D	2.20
166	SANGRUR	LEHRA GAGA	S-NPP	29.94730	75.66510	11/21/2021	13:30:01	D	3.40
167	TARN TARAN	PATTI	S-NPP	31.33750	74.85370	11/21/2021	13:30:01	D	4.30
168	TARN TARAN	PATTI	AQUA	31.33500	74.85800	11/21/2021	14:03:00	D	11.00

Details of residue burning events in Haryana on 21-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA-II	S-NPP	30.10230	76.58190	11/21/2021	13:30:01	D	1.90
2	AMBALA	AMBALA-II	S-NPP	30.22770	76.62980	11/21/2021	13:30:01	D	1.60
3	BHIWANI	BHIWANI	S-NPP	28.94290	76.16660	11/21/2021	13:30:01	D	1.10
4	FATEHABAD	BHUNA	S-NPP	29.49490	75.74060	11/21/2021	13:30:01	D	2.00
5	FATEHABAD	BHUNA	S-NPP	29.52520	75.73880	11/21/2021	13:30:01	D	9.10
6	FATEHABAD	BHUNA	S-NPP	29.59500	75.63980	11/21/2021	13:30:01	D	7.10
7	FATEHABAD	BHUNA	S-NPP	29.61050	75.69780	11/21/2021	13:30:01	D	3.70
8	FATEHABAD	BHUNA	AQUA	29.53100	75.79800	11/21/2021	14:03:00	D	18.70
9	FATEHABAD	BHUNA	AQUA	29.53300	75.80500	11/21/2021	14:03:00	D	13.40
10	FATEHABAD	FATEHABAD	S-NPP	29.52190	75.31670	11/21/2021	13:30:01	D	2.50
11	FATEHABAD	FATEHABAD	S-NPP	29.56380	75.47920	11/21/2021	13:30:01	D	3.60
12	FATEHABAD	FATEHABAD	S-NPP	29.58240	75.60160	11/21/2021	13:30:01	D	7.90
13	FATEHABAD	FATEHABAD	S-NPP	29.58800	75.39300	11/21/2021	13:30:01	D	15.30
14	FATEHABAD	FATEHABAD	AQUA	29.50100	75.49500	11/21/2021	14:03:00	D	10.60
15	FATEHABAD	FATEHABAD	AQUA	29.50200	75.50500	11/21/2021	14:03:00	D	9.80
16	FATEHABAD	FATEHABAD	AQUA	29.55700	75.48100	11/21/2021	14:03:00	D	18.10
17	FATEHABAD	FATEHABAD	AQUA	29.56500	75.44600	11/21/2021	14:03:00	D	32.30
18	FATEHABAD	RATIA	S-NPP	29.59980	75.58190	11/21/2021	13:30:01	D	8.00
19	FATEHABAD	RATIA	S-NPP	29.60100	75.54510	11/21/2021	13:30:01	D	45.10
20	FATEHABAD	RATIA	S-NPP	29.60220	75.55300	11/21/2021	13:30:01	D	8.20
21	FATEHABAD	RATIA	S-NPP	29.60280	75.55690	11/21/2021	13:30:01	D	13.10
22	FATEHABAD	RATIA	S-NPP	29.60370	75.49570	11/21/2021	13:30:01	D	3.00
23	FATEHABAD	RATIA	S-NPP	29.62320	75.51220	11/21/2021	13:30:01	D	8.50
24	FATEHABAD	RATIA	S-NPP	29.67410	75.35950	11/21/2021	13:30:01	D	3.60
25	FATEHABAD	RATIA	S-NPP	29.69060	75.40100	11/21/2021	13:30:01	D	5.90
26	FATEHABAD	RATIA	S-NPP	29.69120	75.40500	11/21/2021	13:30:01	D	5.90
27	FATEHABAD	RATIA	S-NPP	29.69390	75.40030	11/21/2021	13:30:01	D	5.90
28	FATEHABAD	RATIA	S-NPP	29.69450	75.40430	11/21/2021	13:30:01	D	5.90
29	FATEHABAD	RATIA	S-NPP	29.69720	75.39970	11/21/2021	13:30:01	D	9.00
30	FATEHABAD	RATIA	AQUA	29.59800	75.54400	11/21/2021	14:03:00	D	17.00

31	FATEHABAD	RATIA	AQUA	29.61600	75.51800	11/21/2021	14:03:00	D	13.60
32	FATEHABAD	RATIA	AQUA	29.63500	75.58500	11/21/2021	14:03:00	D	30.60
33	FATEHABAD	RATIA	AQUA	29.63600	75.60200	11/21/2021	14:03:00	D	13.80
34	FATEHABAD	RATIA	AQUA	29.66000	75.49500	11/21/2021	14:03:00	D	10.60
35	FATEHABAD	RATIA	AQUA	29.71400	75.46400	11/21/2021	14:03:00	D	9.70
36	FATEHABAD	RATIA	AQUA	29.76500	75.41700	11/21/2021	14:03:00	D	15.30
37	HISAR	HANSI-I	S-NPP	29.18710	76.03520	11/21/2021	13:30:01	D	4.80
38	HISAR	HANSI-I	S-NPP	29.18770	76.03920	11/21/2021	13:30:01	D	4.80
39	HISAR	HANSI-I	S-NPP	29.23740	75.87130	11/21/2021	13:30:01	D	2.70
40	HISAR	HANSI-I	S-NPP	29.26520	75.89840	11/21/2021	13:30:01	D	1.70
41	HISAR	HANSI-II	S-NPP	29.11260	76.12630	11/21/2021	13:30:01	D	1.10
42	HISAR	HANSI-II	S-NPP	29.11270	76.28880	11/21/2021	13:30:01	D	2.70
43	HISAR	HANSI-II	S-NPP	29.11760	76.13750	11/21/2021	13:30:01	D	2.60
44	HISAR	HANSI-II	S-NPP	29.11980	76.12900	11/21/2021	13:30:01	D	1.60
45	HISAR	HANSI-II	S-NPP	29.12150	76.14090	11/21/2021	13:30:01	D	2.60
46	HISAR	HANSI-II	S-NPP	29.12310	76.12840	11/21/2021	13:30:01	D	21.20
47	HISAR	HANSI-II	S-NPP	29.12620	76.24150	11/21/2021	13:30:01	D	1.80
48	HISAR	HANSI-II	S-NPP	29.13610	76.10150	11/21/2021	13:30:01	D	2.60
49	HISAR	HANSI-II	S-NPP	29.13730	76.24750	11/21/2021	13:30:01	D	3.10
50	HISAR	HANSI-II	S-NPP	29.18670	76.28290	11/21/2021	13:30:01	D	1.40
51	HISAR	HANSI-II	AQUA	29.05000	76.20900	11/21/2021	14:03:00	D	25.10
52	HISAR	HISAR-I	S-NPP	29.09550	75.74070	11/21/2021	13:30:01	D	5.90
53	HISAR	HISAR-I	S-NPP	29.09610	75.74470	11/21/2021	13:30:01	D	2.80
54	HISAR	NARNAUND	S-NPP	29.13940	76.16990	11/21/2021	13:30:01	D	4.90
55	HISAR	NARNAUND	S-NPP	29.14270	76.16930	11/21/2021	13:30:01	D	5.90
56	HISAR	NARNAUND	S-NPP	29.19080	76.08320	11/21/2021	13:30:01	D	1.80
57	HISAR	NARNAUND	S-NPP	29.19920	76.18290	11/21/2021	13:30:01	D	4.70
58	HISAR	NARNAUND	S-NPP	29.23210	76.13210	11/21/2021	13:30:01	D	5.80
59	HISAR	NARNAUND	S-NPP	29.23770	76.14730	11/21/2021	13:30:01	D	3.50
60	HISAR	NARNAUND	S-NPP	29.25620	76.18030	11/21/2021	13:30:01	D	2.20
61	HISAR	NARNAUND	S-NPP	29.28850	76.14570	11/21/2021	13:30:01	D	7.20
62	JHAJJAR	BERI	S-NPP	28.72240	76.61720	11/21/2021	13:30:01	D	3.10
63	JHAJJAR	BERI	S-NPP	28.75050	76.60780	11/21/2021	13:30:01	D	2.10

64	JIND	ALEWA	S-NPP	29.44710	76.37330	11/21/2021	13:30:01	D	3.00
65	JIND	ALEWA	S-NPP	29.55950	76.31530	11/21/2021	13:30:01	D	2.50
66	JIND	JIND	S-NPP	29.22230	76.22750	11/21/2021	13:30:01	D	2.20
67	JIND	JIND	S-NPP	29.28270	76.24450	11/21/2021	13:30:01	D	6.30
68	JIND	JIND	S-NPP	29.34510	76.35170	11/21/2021	13:30:01	D	4.80
69	JIND	JIND	S-NPP	29.38060	76.36130	11/21/2021	13:30:01	D	4.90
70	JIND	JIND	S-NPP	29.38450	76.36470	11/21/2021	13:30:01	D	14.00
71	JIND	JIND	S-NPP	29.39830	76.36610	11/21/2021	13:30:01	D	3.80
72	JIND	JIND	AQUA	29.34600	76.34200	11/21/2021	14:03:00	D	24.30
73	JIND	JULANA	S-NPP	29.13330	76.31340	11/21/2021	13:30:01	D	2.90
74	JIND	JULANA	S-NPP	29.18980	76.32710	11/21/2021	13:30:01	D	3.10
75	JIND	JULANA	S-NPP	29.19890	76.43550	11/21/2021	13:30:01	D	8.50
76	JIND	JULANA	S-NPP	29.21210	76.33920	11/21/2021	13:30:01	D	2.60
77	JIND	JULANA	S-NPP	29.21460	76.37950	11/21/2021	13:30:01	D	6.90
78	JIND	NARWANA	S-NPP	29.66440	76.01330	11/21/2021	13:30:01	D	2.80
79	JIND	NARWANA	S-NPP	29.68280	76.09140	11/21/2021	13:30:01	D	14.40
80	JIND	NARWANA	S-NPP	29.74320	76.02250	11/21/2021	13:30:01	D	8.20
81	JIND	NARWANA	S-NPP	29.74650	76.02190	11/21/2021	13:30:01	D	8.20
82	JIND	NARWANA	AQUA	29.68000	76.16000	11/21/2021	14:03:00	D	20.20
83	JIND	NARWANA	AQUA	29.69000	76.14000	11/21/2021	14:03:00	D	24.00
84	JIND	PILLUKHERA	S-NPP	29.23840	76.54260	11/21/2021	13:30:01	D	1.80
85	JIND	PILLUKHERA	S-NPP	29.24190	76.56660	11/21/2021	13:30:01	D	2.10
86	JIND	PILLUKHERA	S-NPP	29.24250	76.57060	11/21/2021	13:30:01	D	3.00
87	JIND	PILLUKHERA	S-NPP	29.28440	76.58360	11/21/2021	13:30:01	D	1.40
88	JIND	PILLUKHERA	S-NPP	29.29210	76.56580	11/21/2021	13:30:01	D	4.40
89	JIND	PILLUKHERA	S-NPP	29.34960	76.53850	11/21/2021	13:30:01	D	4.60
90	JIND	PILLUKHERA	S-NPP	29.39790	76.55080	11/21/2021	13:30:01	D	3.50
91	JIND	PILLUKHERA	S-NPP	29.40890	76.53220	11/21/2021	13:30:01	D	5.70
92	JIND	PILLUKHERA	S-NPP	29.41220	76.53160	11/21/2021	13:30:01	D	9.10
93	JIND	PILLUKHERA	S-NPP	29.42100	76.52170	11/21/2021	13:30:01	D	9.20
94	JIND	SAFIDON	S-NPP	29.46010	76.55550	11/21/2021	13:30:01	D	4.20
95	JIND	UCHANA	S-NPP	29.44950	76.11570	11/21/2021	13:30:01	D	2.20
96	JIND	UCHANA	S-NPP	29.50100	76.25690	11/21/2021	13:30:01	D	3.40

97	KAITHAL	KALAYAT	S-NPP	29.62710	76.24100	11/21/2021	13:30:01	D	2.20
98	KAITHAL	KALAYAT	S-NPP	29.67340	76.30620	11/21/2021	13:30:01	D	3.00
99	KAITHAL	KALAYAT	S-NPP	29.67560	76.29760	11/21/2021	13:30:01	D	5.00
100	KAITHAL	KALAYAT	S-NPP	29.70120	76.23940	11/21/2021	13:30:01	D	2.00
101	KAITHAL	PUNDRI	S-NPP	29.67530	76.64360	11/21/2021	13:30:01	D	3.20
102	KAITHAL	RAJOUND	S-NPP	29.60450	76.41350	11/21/2021	13:30:01	D	2.50
103	KARNAL	ASSANDH	S-NPP	29.49790	76.74660	11/21/2021	13:30:01	D	1.80
104	KARNAL	NILOKHERI	S-NPP	29.85800	76.81820	11/21/2021	13:30:01	D	23.50
105	PALWAL	HODAL	S-NPP	28.08670	77.37430	11/21/2021	13:30:01	D	4.00
106	PANIPAT	ISRANA	S-NPP	29.24460	76.84610	11/21/2021	13:30:01	D	1.30
107	PANIPAT	ISRANA	S-NPP	29.29670	76.69240	11/21/2021	13:30:01	D	3.70
108	PANIPAT	ISRANA	S-NPP	29.30840	76.70260	11/21/2021	13:30:01	D	2.60
109	PANIPAT	MADLAUDA	S-NPP	29.34870	76.86460	11/21/2021	13:30:01	D	4.50
110	PANIPAT	MADLAUDA	S-NPP	29.34920	76.86870	11/21/2021	13:30:01	D	4.50
111	PANIPAT	MADLAUDA	S-NPP	29.40330	76.86280	11/21/2021	13:30:01	D	5.40
112	ROHTAK	MEHAM	S-NPP	28.95910	76.41510	11/21/2021	13:30:01	D	6.00
113	ROHTAK	MEHAM	S-NPP	28.99770	76.39970	11/21/2021	13:30:01	D	8.20
114	ROHTAK	MEHAM	S-NPP	29.04730	76.37030	11/21/2021	13:30:01	D	3.00
115	ROHTAK	ROHTAK	S-NPP	28.91990	76.81800	11/21/2021	13:30:01	D	3.90
116	ROHTAK	ROHTAK	S-NPP	28.93870	76.68740	11/21/2021	13:30:01	D	4.70
117	SIRSA	BARAGUNDA	S-NPP	29.63710	75.09770	11/21/2021	13:30:01	D	2.40
118	SIRSA	BARAGUNDA	S-NPP	29.63770	75.10170	11/21/2021	13:30:01	D	2.50
119	SIRSA	DABWALI	AQUA	29.93200	74.53300	11/21/2021	14:03:00	D	7.90
120	SIRSA	DABWALI	AQUA	29.93300	74.54800	11/21/2021	14:03:00	D	11.10
121	SIRSA	ELLENABAD	S-NPP	29.43790	74.84390	11/21/2021	13:30:01	D	9.50
122	SIRSA	ELLENABAD	S-NPP	29.44870	74.82530	11/21/2021	13:30:01	D	2.00
123	SIRSA	ELLENABAD	S-NPP	29.46030	74.85570	11/21/2021	13:30:01	D	6.90
124	SIRSA	ELLENABAD	S-NPP	29.46090	74.85970	11/21/2021	13:30:01	D	8.40
125	SIRSA	ELLENABAD	S-NPP	29.46400	74.72770	11/21/2021	13:30:01	D	20.00
126	SIRSA	ELLENABAD	S-NPP	29.47100	74.83710	11/21/2021	13:30:01	D	9.20
127	SIRSA	ELLENABAD	S-NPP	29.47360	74.76680	11/21/2021	13:30:01	D	19.30
128	SIRSA	ELLENABAD	S-NPP	29.47390	74.81190	11/21/2021	13:30:01	D	2.60
129	SIRSA	ELLENABAD	S-NPP	29.48690	74.67770	11/21/2021	13:30:01	D	4.30

130	SIRSA	ELLENABAD	S-NPP	29.53180	74.70960	11/21/2021	13:30:01	D	5.70
131	SIRSA	ELLENABAD	S-NPP	29.53510	74.70890	11/21/2021	13:30:01	D	8.20
132	SIRSA	ELLENABAD	S-NPP	29.55440	74.70080	11/21/2021	13:30:01	D	2.50
133	SIRSA	ELLENABAD	AQUA	29.45300	74.81500	11/21/2021	14:03:00	D	10.50
134	SIRSA	ELLENABAD	AQUA	29.45700	74.64800	11/21/2021	14:03:00	D	7.20
135	SIRSA	ELLENABAD	AQUA	29.53200	74.70700	11/21/2021	14:03:00	D	23.70
136	SIRSA	ELLENABAD	AQUA	29.54200	74.70500	11/21/2021	14:03:00	D	19.40
137	SIRSA	NATHUSARI CHOPTA	S-NPP	29.43750	74.94610	11/21/2021	13:30:01	D	7.50
138	SIRSA	NATHUSARI CHOPTA	S-NPP	29.51000	75.21720	11/21/2021	13:30:01	D	4.40
139	SIRSA	NATHUSARI CHOPTA	S-NPP	29.51060	75.22120	11/21/2021	13:30:01	D	4.40
140	SIRSA	NATHUSARI CHOPTA	S-NPP	29.55310	75.29820	11/21/2021	13:30:01	D	3.50
141	SIRSA	NATHUSARI CHOPTA	AQUA	29.53300	75.25000	11/21/2021	14:03:00	D	12.00
142	SIRSA	ODHAN	S-NPP	29.91400	75.09190	11/21/2021	13:30:01	D	2.20
143	SIRSA	RANIA	S-NPP	29.48120	74.88010	11/21/2021	13:30:01	D	3.50
144	SIRSA	RANIA	S-NPP	29.48840	74.81710	11/21/2021	13:30:01	D	4.80
145	SIRSA	RANIA	S-NPP	29.50180	74.79390	11/21/2021	13:30:01	D	8.90
146	SIRSA	RANIA	S-NPP	29.51490	74.81170	11/21/2021	13:30:01	D	2.60
147	SIRSA	RANIA	S-NPP	29.55050	74.59030	11/21/2021	13:30:01	D	4.60
148	SIRSA	RANIA	S-NPP	29.55350	74.63090	11/21/2021	13:30:01	D	2.10
149	SIRSA	RANIA	S-NPP	29.57420	74.61020	11/21/2021	13:30:01	D	5.30
150	SIRSA	RANIA	S-NPP	29.57750	74.60950	11/21/2021	13:30:01	D	5.30
151	SIRSA	RANIA	AQUA	29.52800	74.89800	11/21/2021	14:03:00	D	9.50
152	SIRSA	RANIA	AQUA	29.55400	74.61300	11/21/2021	14:03:00	D	8.50
153	SIRSA	RANIA	AQUA	29.56400	74.70200	11/21/2021	14:03:00	D	16.60
154	SIRSA	SIRSA	S-NPP	29.43680	74.94210	11/21/2021	13:30:01	D	3.70
155	SIRSA	SIRSA	S-NPP	29.47450	74.96740	11/21/2021	13:30:01	D	2.10
156	SIRSA	SIRSA	S-NPP	29.53130	74.96000	11/21/2021	13:30:01	D	6.10
157	SIRSA	SIRSA	S-NPP	29.53700	75.20410	11/21/2021	02:20:44	N	1.50
158	SIRSA	SIRSA	S-NPP	29.54270	75.12090	11/21/2021	13:30:01	D	7.90
159	SIRSA	SIRSA	S-NPP	29.55680	75.10190	11/21/2021	13:30:01	D	1.90

160	SIRSA	SIRSA	S-NPP	29.57130	74.96000	11/21/2021	13:30:01	D	3.60
161	SIRSA	SIRSA	S-NPP	29.62740	75.14460	11/21/2021	13:30:01	D	12.60
162	SIRSA	SIRSA	S-NPP	29.66160	75.14590	11/21/2021	13:30:01	D	5.10
163	SIRSA	SIRSA	AQUA	29.63300	75.13200	11/21/2021	14:03:00	D	14.70
164	SONIPAT	GANAUR	S-NPP	29.14160	76.85670	11/21/2021	13:30:01	D	6.20
165	SONIPAT	GOHANA	S-NPP	28.96600	76.74470	11/21/2021	13:30:01	D	3.70
166	SONIPAT	GOHANA	S-NPP	28.98140	76.73360	11/21/2021	13:30:01	D	3.10
167	SONIPAT	GOHANA	S-NPP	29.04540	76.75050	11/21/2021	13:30:01	D	2.20
168	SONIPAT	GOHANA	S-NPP	29.04930	76.75380	11/21/2021	13:30:01	D	1.80
169	SONIPAT	GOHANA	S-NPP	29.08280	76.75630	11/21/2021	13:30:01	D	2.30
170	SONIPAT	GOHANA	S-NPP	29.11640	76.82420	11/21/2021	13:30:01	D	11.40
171	SONIPAT	KATHURA	S-NPP	29.18500	76.50360	11/21/2021	13:30:01	D	2.00
172	SONIPAT	KATHURA	S-NPP	29.19900	76.52960	11/21/2021	13:30:01	D	1.70
173	SONIPAT	KATHURA	S-NPP	29.20230	76.52900	11/21/2021	13:30:01	D	3.80
174	SONIPAT	KATHURA	AQUA	29.08100	76.59600	11/21/2021	14:03:00	D	16.40
175	SONIPAT	MUNDLANA	S-NPP	29.15810	76.61500	11/21/2021	13:30:01	D	1.40
176	SONIPAT	MUNDLANA	S-NPP	29.21060	76.72860	11/21/2021	13:30:01	D	1.90
177	SONIPAT	SONIPAT	S-NPP	28.98650	76.86420	11/21/2021	13:30:01	D	2.70
178	YAMUNANAGAR	RADAUR	S-NPP	30.11370	77.17880	11/21/2021	13:30:01	D	1.40

Details of residue burning events in Uttar Pradesh on 21-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALLAHABAD	ALLAHABAD	S-NPP	25.42310	81.78790	11/21/2021	02:20:44	N	0.80
2	ALLAHABAD	BARA	S-NPP	25.26420	81.64510	11/21/2021	02:20:44	N	0.60
3	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.30060	82.51940	11/21/2021	13:30:01	D	2.40
4	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.44380	82.65440	11/21/2021	13:30:01	D	3.40
5	AMBEDKARNAGAR	TANDA	S-NPP	26.49430	82.69240	11/21/2021	13:30:01	D	4.20
6	AMETHI	MUSAFIRKHANA	S-NPP	26.53690	81.55290	11/21/2021	13:30:01	D	4.20
7	AURAIYA	AURAIYA	S-NPP	26.62450	79.32360	11/21/2021	13:30:01	D	2.30
8	AZAMGARH	PHULPUR	S-NPP	25.88890	82.85780	11/21/2021	13:30:01	D	3.70
9	AZAMGARH	PHULPUR	S-NPP	25.88940	82.86210	11/21/2021	13:30:01	D	3.70
10	AZAMGARH	PHULPUR	TERRA	25.91900	82.87100	11/21/2021	10:51:15	D	6.60
11	AZAMGARH	SAGRI	S-NPP	26.23610	83.11190	11/21/2021	13:30:01	D	3.40
12	BAGHPAT	BARAUT	S-NPP	29.08700	77.40880	11/21/2021	13:30:01	D	2.00
13	BAGHPAT	BARAUT	S-NPP	29.22490	77.44830	11/21/2021	13:30:01	D	2.80
14	BAHRAICH	BAHRAICH	S-NPP	27.49730	81.81930	11/21/2021	13:30:01	D	2.10
15	BAHRAICH	BAHRAICH	S-NPP	27.50090	81.81470	11/21/2021	13:30:01	D	4.20
16	BAHRAICH	NANPARA	S-NPP	27.96770	81.57660	11/21/2021	13:30:01	D	2.20
17	BAHRAICH	NANPARA	S-NPP	27.96820	81.57670	11/21/2021	13:30:01	D	2.20
18	BALLIA	BELTHARA ROAD	S-NPP	26.04310	83.90130	11/21/2021	13:30:01	D	2.40
19	BALLIA	RASRA	S-NPP	25.81650	83.90400	11/21/2021	13:30:01	D	6.20
20	BALLIA	RASRA	S-NPP	25.84620	83.79400	11/21/2021	13:30:01	D	7.90
21	BALLIA	RASRA	S-NPP	25.84780	83.79090	11/21/2021	13:30:01	D	6.10
22	BALLIA	SIKANDARPUR	S-NPP	25.98790	84.09030	11/21/2021	13:30:01	D	3.30
23	BALLIA	SIKANDARPUR	S-NPP	25.98860	84.08810	11/21/2021	13:30:01	D	6.00
24	BALLIA	SIKANDARPUR	S-NPP	26.06900	84.01750	11/21/2021	13:30:01	D	4.90
25	BALRAMPUR	TULSIPUR	S-NPP	27.56010	82.64500	11/21/2021	13:30:01	D	2.00
26	BARABANKI	Haidargarh	S-NPP	26.60510	81.49500	11/21/2021	13:30:01	D	3.80
27	BARABANKI	Haidargarh	TERRA	26.58500	81.53700	11/21/2021	10:51:15	D	8.70
28	BARABANKI	Haidargarh	TERRA	26.58700	81.52700	11/21/2021	10:51:15	D	5.30
29	BAREILLY	NAWABGANJ	TERRA	28.54700	79.71200	11/21/2021	10:51:15	D	3.70

30	BASTI	BHANPUR	S-NPP	27.06990	82.75800	11/21/2021	13:30:01	D	3.70
31	BASTI	BHANPUR	S-NPP	27.09440	82.62370	11/21/2021	13:30:01	D	2.10
32	BIJNOR	NAJIBABAD	S-NPP	29.67700	78.40680	11/21/2021	13:30:01	D	3.40
33	BULANSAHAR	KHURJA	S-NPP	28.23230	77.72360	11/21/2021	13:30:01	D	2.10
34	BULANSAHAR	SHIKARPUR	TERRA	28.33600	77.97300	11/21/2021	10:51:15	D	6.10
35	ETAWAH	BHARTHNA	S-NPP	26.65010	79.21590	11/21/2021	13:30:01	D	2.80
36	ETAWAH	BHARTHNA	S-NPP	26.68470	79.28680	11/21/2021	13:30:01	D	3.20
37	ETAWAH	BHARTHNA	S-NPP	26.82740	79.25680	11/21/2021	13:30:01	D	3.90
38	ETAWAH	BHARTHNA	S-NPP	26.82770	79.25560	11/21/2021	13:30:01	D	3.60
39	ETAWAH	ETAWAH	S-NPP	26.90990	79.14430	11/21/2021	13:30:01	D	1.00
40	ETAWAH	ETAWAH	S-NPP	26.92670	79.13860	11/21/2021	13:30:01	D	5.90
41	ETAWAH	ETAWAH	S-NPP	26.93670	79.13250	11/21/2021	13:30:01	D	6.40
42	FARRUKHABAD	KARIMGANJ	S-NPP	27.60440	79.33440	11/21/2021	13:30:01	D	2.40
43	FATEHPUR	FATEHPUR	S-NPP	25.99620	80.81560	11/21/2021	13:30:01	D	3.60
44	FATEHPUR	KHAGA	S-NPP	25.56850	81.19960	11/21/2021	13:30:01	D	2.20
45	GAZIPUR	MUHAMMADBAD	S-NPP	25.66440	83.76960	11/21/2021	13:30:01	D	4.00
46	GAZIPUR	ZAMANIA	S-NPP	25.41930	83.78800	11/21/2021	13:30:01	D	5.20
47	GAZIPUR	ZAMANIA	S-NPP	25.42120	83.78470	11/21/2021	13:30:01	D	3.20
48	GAZIPUR	ZAMANIA	S-NPP	25.42170	83.78960	11/21/2021	13:30:01	D	4.40
49	GORAKHPUR	GORAKHPUR	S-NPP	26.88650	83.50100	11/21/2021	02:20:44	N	0.30
50	HAPUR	HAPUR	S-NPP	28.68750	77.56610	11/21/2021	13:30:01	D	5.50
51	HAPUR	HAPUR	S-NPP	28.75650	77.89070	11/21/2021	13:30:01	D	1.80
52	HARDOI	HARDOI	S-NPP	27.54590	80.19980	11/21/2021	13:30:01	D	2.30
53	HARDOI	HARDOI	S-NPP	27.54650	80.20480	11/21/2021	13:30:01	D	6.20
54	HARDOI	SHAHABAD	TERRA	27.72500	79.99500	11/21/2021	10:51:15	D	3.70
55	HARDOI	SHAHABAD	TERRA	27.73200	80.20400	11/21/2021	10:51:15	D	6.80
56	HARDOI	SIWAIJPUR	S-NPP	27.52590	79.77170	11/21/2021	13:30:01	D	2.60
57	JAUNPUR	MACHHALI SAHAR	S-NPP	25.72760	82.43270	11/21/2021	13:30:01	D	2.60
58	JAUNPUR	MACHHALI SAHAR	S-NPP	25.73170	82.43210	11/21/2021	13:30:01	D	3.30
59	JAUNPUR	SHHGANJ	S-NPP	26.07510	82.60420	11/21/2021	13:30:01	D	3.00
60	JHANSI	JHANSI	S-NPP	25.46410	78.72250	11/21/2021	13:30:01	D	3.10
61	JHANSI	JHANSI	S-NPP	25.51770	78.68010	11/21/2021	13:30:01	D	6.40
62	JHANSI	JHANSI	S-NPP	25.54570	78.67960	11/21/2021	13:30:01	D	2.70

63	JHANSI	TAHRAULI	S-NPP	25.61420	78.82850	11/21/2021	13:30:01	D	2.50
64	KAUSHAMBI	MANJHANPUR	S-NPP	25.45860	81.22600	11/21/2021	13:30:01	D	3.00
65	KHERI	GOLA	TERRA	27.92100	80.30200	11/21/2021	10:51:15	D	8.60
66	KHERI	PALIA KALAN	TERRA	28.33200	80.52000	11/21/2021	10:51:15	D	5.10
67	KUSHINAGAR	HATA	S-NPP	26.83120	83.63510	11/21/2021	13:30:01	D	3.20
68	MAHARAJGANJ	MAHARAJGANJ	S-NPP	26.99680	83.62880	11/21/2021	13:30:01	D	7.00
69	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.03510	83.45350	11/21/2021	13:30:01	D	2.60
70	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.05310	83.49650	11/21/2021	13:30:01	D	4.20
71	MAHARAJGANJ	NAUTANWA	S-NPP	27.32900	83.42790	11/21/2021	13:30:01	D	6.50
72	MAHARAJGANJ	NICHLAUL	S-NPP	27.16630	83.70010	11/21/2021	13:30:01	D	4.60
73	MAINPURI	KARHAL	S-NPP	27.05440	78.98920	11/21/2021	13:30:01	D	4.70
74	MATHURA	CHHATA	S-NPP	27.69040	77.57930	11/21/2021	13:30:01	D	2.30
75	MEERUT	MEERUT	S-NPP	29.04300	77.61930	11/21/2021	13:30:01	D	4.90
76	PILHIBHIT	BISALPUR	S-NPP	28.39670	79.85620	11/21/2021	02:20:44	N	0.60
77	PRATAPGARH	LALGANJ	S-NPP	26.17110	81.62170	11/21/2021	13:30:01	D	6.80
78	PRATAPGARH	LALGANJ	TERRA	26.14000	81.61000	11/21/2021	10:51:15	D	4.90
79	PRATAPGARH	PATTI	S-NPP	25.99950	82.20810	11/21/2021	13:30:01	D	3.00
80	PRATAPGARH	PATTI	S-NPP	26.01840	82.16470	11/21/2021	13:30:01	D	3.70
81	RAIBEARELI	RAEBARELI	S-NPP	26.32890	81.24020	11/21/2021	13:30:01	D	7.30
82	RAIBEARELI	RAEBARELI	S-NPP	26.32900	81.23740	11/21/2021	13:30:01	D	12.00
83	RAIBEARELI	RAEBARELI	S-NPP	26.33390	81.11170	11/21/2021	13:30:01	D	5.10
84	RAIBEARELI	SALON	S-NPP	26.11370	81.49670	11/21/2021	13:30:01	D	3.40
85	RAIBEARELI	SALON	S-NPP	26.17210	81.45770	11/21/2021	13:30:01	D	9.80
86	RAIBEARELI	TILOI	TERRA	26.27600	81.56900	11/21/2021	10:51:15	D	5.10
87	RAMPUR	MILAK	S-NPP	28.66410	79.21260	11/21/2021	13:30:01	D	4.30
88	RAMPUR	MILAK	S-NPP	28.66780	79.15490	11/21/2021	13:30:01	D	4.10
89	SAMBHAL	CHANDAUSI	TERRA	28.40000	78.67300	11/21/2021	10:51:15	D	6.10
90	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.77710	80.05740	11/21/2021	13:30:01	D	4.60
91	SHAHJAHANPUR	TILHAR	S-NPP	28.17840	79.71480	11/21/2021	13:30:01	D	1.40
92	SHAMLI	KAIRANA	S-NPP	29.30970	77.18430	11/21/2021	13:30:01	D	4.00
93	SHARANPUR	BEHAT	S-NPP	30.17600	77.53490	11/21/2021	13:30:01	D	1.70
94	SHARANPUR	NAKUR	S-NPP	29.75330	77.14390	11/21/2021	13:30:01	D	4.40
95	SHRAWASTI	BHINGA	S-NPP	27.75540	82.06500	11/21/2021	02:20:44	N	0.90

96	SHRAWASTI	IKAUNA	S-NPP	27.64210	81.75070	11/21/2021	13:30:01	D	3.60
97	SHRAWASTI	IKAUNA	S-NPP	27.64570	81.74610	11/21/2021	13:30:01	D	4.70
98	SIDDHARTHANAGAR	BANSI	S-NPP	27.11980	82.89900	11/21/2021	13:30:01	D	4.70
99	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.13640	82.66820	11/21/2021	13:30:01	D	4.40
100	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.16490	82.57020	11/21/2021	13:30:01	D	1.70
101	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.27700	82.66010	11/21/2021	13:30:01	D	2.10
102	SITAPUR	BISWAN	S-NPP	27.53610	81.17800	11/21/2021	13:30:01	D	4.40
103	SITAPUR	MISRIK	TERRA	27.63300	80.38600	11/21/2021	10:51:15	D	4.20
104	SULTANPUR	AMETHI	S-NPP	26.22440	81.91200	11/21/2021	13:30:01	D	9.80
105	SULTANPUR	KADIRPUR	TERRA	26.24800	82.37900	11/21/2021	10:51:15	D	8.10
106	VARANASI	VARANASI	S-NPP	25.31580	82.74250	11/21/2021	02:20:44	N	0.80

Details of residue burning events in Rajasthan on 21-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	GANGANAGAR	SURATGARH	S-NPP	29.35290	73.97560	11/21/2021	13:30:01	D	1.30
2	GANGANAGAR	SURATGARH	S-NPP	29.35560	73.97080	11/21/2021	13:30:01	D	2.80
3	GANGANAGAR	SURATGARH	S-NPP	29.36490	73.73020	11/21/2021	13:30:01	D	2.50
4	GANGANAGAR	SURATGARH	S-NPP	29.37390	73.76260	11/21/2021	13:30:01	D	2.10
5	GANGANAGAR	VIJAY NAGAR	S-NPP	29.13530	73.38830	11/21/2021	13:30:01	D	3.40
6	HANUMANGARH	HANUMANGARH	S-NPP	29.51380	74.16930	11/21/2021	13:30:01	D	6.00
7	HANUMANGARH	HANUMANGARH	S-NPP	29.52970	74.20370	11/21/2021	13:30:01	D	2.50
8	HANUMANGARH	HANUMANGARH	S-NPP	29.55230	74.22520	11/21/2021	13:30:01	D	4.50
9	HANUMANGARH	HANUMANGARH	S-NPP	29.58210	74.30240	11/21/2021	13:30:01	D	8.30
10	HANUMANGARH	HANUMANGARH	S-NPP	29.58540	74.30170	11/21/2021	13:30:01	D	8.90
11	HANUMANGARH	HANUMANGARH	S-NPP	29.59210	74.30030	11/21/2021	13:30:01	D	8.70
12	HANUMANGARH	HANUMANGARH	S-NPP	29.59260	74.34610	11/21/2021	13:30:01	D	10.20
13	HANUMANGARH	HANUMANGARH	S-NPP	29.60260	74.34400	11/21/2021	13:30:01	D	6.80
14	HANUMANGARH	HANUMANGARH	S-NPP	29.60590	74.34330	11/21/2021	13:30:01	D	3.60
15	HANUMANGARH	HANUMANGARH	S-NPP	29.61310	74.36680	11/21/2021	13:30:01	D	4.70
16	HANUMANGARH	HANUMANGARH	S-NPP	29.63100	74.39220	11/21/2021	13:30:01	D	3.10
17	HANUMANGARH	HANUMANGARH	AQUA	29.51500	74.16700	11/21/2021	14:03:00	D	8.10
18	HANUMANGARH	HANUMANGARH	AQUA	29.51800	74.19500	11/21/2021	14:03:00	D	10.50
19	HANUMANGARH	HANUMANGARH	AQUA	29.58500	74.35000	11/21/2021	14:03:00	D	25.40
20	HANUMANGARH	HANUMANGARH	AQUA	29.59900	74.37700	11/21/2021	14:03:00	D	12.90
21	HANUMANGARH	HANUMANGARH	AQUA	29.60000	74.39200	11/21/2021	14:03:00	D	8.00
22	HANUMANGARH	HANUMANGARH	AQUA	29.60100	74.30500	11/21/2021	14:03:00	D	19.20
23	HANUMANGARH	HANUMANGARH	AQUA	29.62000	74.37400	11/21/2021	14:03:00	D	27.10
24	HANUMANGARH	P LIBANGA	S-NPP	29.37770	73.99990	11/21/2021	13:30:01	D	2.00
25	HANUMANGARH	P LIBANGA	S-NPP	29.38840	74.02300	11/21/2021	13:30:01	D	3.90
26	HANUMANGARH	P LIBANGA	S-NPP	29.38850	73.91710	11/21/2021	13:30:01	D	7.30
27	HANUMANGARH	P LIBANGA	S-NPP	29.38920	73.94240	11/21/2021	13:30:01	D	4.20
28	HANUMANGARH	P LIBANGA	S-NPP	29.39250	73.94170	11/21/2021	13:30:01	D	9.80
29	HANUMANGARH	P LIBANGA	S-NPP	29.41280	73.97580	11/21/2021	13:30:01	D	2.90

30	HANUMANGARH	P LIBANGA	S-NPP	29.41690	74.00030	11/21/2021	13:30:01	D	4.90
31	HANUMANGARH	P LIBANGA	S-NPP	29.43360	74.03900	11/21/2021	13:30:01	D	4.20
32	HANUMANGARH	P LIBANGA	S-NPP	29.44970	74.03130	11/21/2021	13:30:01	D	10.80
33	HANUMANGARH	P LIBANGA	AQUA	29.38600	73.92800	11/21/2021	14:03:00	D	37.30
34	HANUMANGARH	P LIBANGA	AQUA	29.38800	73.94200	11/21/2021	14:03:00	D	43.90
35	HANUMANGARH	P LIBANGA	AQUA	29.44100	74.04400	11/21/2021	14:03:00	D	34.70
36	HANUMANGARH	P LIBANGA	AQUA	29.44700	74.03700	11/21/2021	14:03:00	D	21.70
37	HANUMANGARH	P LIBANGA	AQUA	29.44900	74.05100	11/21/2021	14:03:00	D	36.40
38	HANUMANGARH	TIBI	S-NPP	29.35720	74.56800	11/21/2021	13:30:01	D	2.30
39	HANUMANGARH	TIBI	S-NPP	29.50090	74.55920	11/21/2021	13:30:01	D	20.40
40	HANUMANGARH	TIBI	S-NPP	29.52270	74.58780	11/21/2021	13:30:01	D	2.70
41	HANUMANGARH	TIBI	S-NPP	29.53540	74.56040	11/21/2021	13:30:01	D	5.30
42	HANUMANGARH	TIBI	S-NPP	29.54630	74.52090	11/21/2021	13:30:01	D	9.20
43	HANUMANGARH	TIBI	S-NPP	29.55630	74.49810	11/21/2021	13:30:01	D	2.60
44	HANUMANGARH	TIBI	S-NPP	29.55790	74.57220	11/21/2021	13:30:01	D	2.70
45	HANUMANGARH	TIBI	S-NPP	29.56120	74.57150	11/21/2021	13:30:01	D	3.30
46	HANUMANGARH	TIBI	S-NPP	29.56180	74.57550	11/21/2021	13:30:01	D	5.40
47	HANUMANGARH	TIBI	S-NPP	29.57140	74.42020	11/21/2021	13:30:01	D	32.50
48	HANUMANGARH	TIBI	S-NPP	29.57190	74.44500	11/21/2021	13:30:01	D	4.20
49	HANUMANGARH	TIBI	S-NPP	29.57400	74.41550	11/21/2021	13:30:01	D	32.50
50	HANUMANGARH	TIBI	S-NPP	29.58330	74.43020	11/21/2021	13:30:01	D	6.30
51	HANUMANGARH	TIBI	S-NPP	29.58430	74.47980	11/21/2021	13:30:01	D	50.60
52	HANUMANGARH	TIBI	S-NPP	29.58500	74.42670	11/21/2021	13:30:01	D	2.90
53	HANUMANGARH	TIBI	S-NPP	29.58830	74.48310	11/21/2021	13:30:01	D	29.00
54	HANUMANGARH	TIBI	S-NPP	29.58900	74.57400	11/21/2021	13:30:01	D	4.70
55	HANUMANGARH	TIBI	S-NPP	29.59490	74.44540	11/21/2021	13:30:01	D	4.70
56	HANUMANGARH	TIBI	S-NPP	29.60950	74.42990	11/21/2021	13:30:01	D	3.70
57	HANUMANGARH	TIBI	S-NPP	29.61020	74.43390	11/21/2021	13:30:01	D	8.50
58	HANUMANGARH	TIBI	S-NPP	29.61070	74.45870	11/21/2021	13:30:01	D	1.70
59	HANUMANGARH	TIBI	S-NPP	29.61130	74.48350	11/21/2021	13:30:01	D	1.80
60	HANUMANGARH	TIBI	S-NPP	29.61680	74.43250	11/21/2021	13:30:01	D	5.10
61	HANUMANGARH	TIBI	AQUA	29.51900	74.58800	11/21/2021	14:03:00	D	56.50
62	HANUMANGARH	TIBI	AQUA	29.52800	74.57200	11/21/2021	14:03:00	D	28.00
63	HANUMANGARH	TIBI	AQUA	29.52900	74.58600	11/21/2021	14:03:00	D	134.60

64	HANUMANGARH	TIBI	AQUA	29.56200	74.49200	11/21/2021	14:03:00	D	56.70
65	HANUMANGARH	TIBI	AQUA	29.56400	74.50700	11/21/2021	14:03:00	D	12.50
66	HANUMANGARH	TIBI	AQUA	29.56500	74.52200	11/21/2021	14:03:00	D	9.80
67	HANUMANGARH	TIBI	AQUA	29.56700	74.53600	11/21/2021	14:03:00	D	31.30
68	HANUMANGARH	TIBI	AQUA	29.57700	74.43100	11/21/2021	14:03:00	D	14.80
69	HANUMANGARH	TIBI	AQUA	29.60500	74.43500	11/21/2021	14:03:00	D	15.10
70	HANUMANGARH	TIBI	AQUA	29.60700	74.45000	11/21/2021	14:03:00	D	17.80
71	HANUMANGARH	TIBI	AQUA	29.63600	74.51900	11/21/2021	14:03:00	D	11.80
72	HANUMANGARH	TIBI	AQUA	29.63700	74.53400	11/21/2021	14:03:00	D	21.80

Details of residue burning events in Madhya Pradesh on 21-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ASHOKNAGAR	ISAGARH	S-NPP	24.70860	77.87800	11/21/2021	13:30:01	D	2.60
2	ASHOKNAGAR	ISAGARH	S-NPP	24.71140	77.84990	11/21/2021	13:30:01	D	3.90
3	BHIND	GOHAD	S-NPP	26.45440	78.30620	11/21/2021	13:30:01	D	2.50
4	BHOPAL	BERASIYA	S-NPP	23.64320	77.49410	11/21/2021	02:20:44	N	1.20
5	BHOPAL	HUZUR	S-NPP	23.18990	77.56620	11/21/2021	13:30:01	D	2.50
6	CHHINDWARA	CHHINDWARA	S-NPP	21.95550	78.92510	11/21/2021	13:30:01	D	1.40
7	DATIA	DATIA	S-NPP	25.60150	78.60790	11/21/2021	13:30:01	D	2.50
8	DATIA	DATIA	S-NPP	25.60880	78.63590	11/21/2021	13:30:01	D	2.60
9	GUNA	GUNA	S-NPP	24.56940	77.47840	11/21/2021	13:30:01	D	3.60
10	HOSHANGABAD	BABAI	S-NPP	22.79820	77.81880	11/21/2021	13:30:01	D	6.10
11	HOSHANGABAD	BABAI	S-NPP	22.83810	77.90430	11/21/2021	13:30:01	D	3.80
12	HOSHANGABAD	BABAI	S-NPP	22.84300	77.84570	11/21/2021	13:30:01	D	4.40
13	HOSHANGABAD	PIPARIYA	S-NPP	22.87740	78.33840	11/21/2021	02:20:44	N	1.30
14	HOSHANGABAD	SOHAGPUR	S-NPP	22.79160	78.16690	11/21/2021	13:30:01	D	3.70
15	JABALPUR	MAJHOULI	S-NPP	23.56510	79.98750	11/21/2021	13:30:01	D	3.70
16	JABALPUR	PATAN	S-NPP	23.19760	79.82170	11/21/2021	13:30:01	D	5.90
17	JABALPUR	PATAN	S-NPP	23.21750	79.73320	11/21/2021	13:30:01	D	3.70
18	JABALPUR	PATAN	S-NPP	23.21920	79.74570	11/21/2021	13:30:01	D	4.00
19	JABALPUR	PATAN	S-NPP	23.23740	79.76490	11/21/2021	13:30:01	D	4.10
20	JABALPUR	PATAN	S-NPP	23.26160	79.81240	11/21/2021	13:30:01	D	8.00
21	JABALPUR	PATAN	S-NPP	23.38430	79.84530	11/21/2021	13:30:01	D	10.30
22	JABALPUR	SAHPURA	S-NPP	23.17010	79.69820	11/21/2021	13:30:01	D	5.00
23	JABALPUR	SAHPURA	S-NPP	23.17820	79.70540	11/21/2021	13:30:01	D	6.60
24	JABALPUR	SAHPURA	S-NPP	23.18560	79.73390	11/21/2021	13:30:01	D	2.80
25	JABALPUR	SAHPURA	S-NPP	23.18910	79.73340	11/21/2021	13:30:01	D	6.00
26	JABALPUR	SAHPURA	S-NPP	23.19720	79.74060	11/21/2021	13:30:01	D	4.40
27	JABALPUR	SAHPURA	S-NPP	23.19780	79.74480	11/21/2021	13:30:01	D	4.40
28	JABALPUR	SIHORA	TERRA	23.41500	80.22900	11/21/2021	10:51:15	D	8.10
29	JABALPUR	SIHORA	TERRA	23.42400	80.17100	11/21/2021	10:51:15	D	6.60
30	JABALPUR	SIHORA	TERRA	23.42500	80.16100	11/21/2021	10:51:15	D	6.60
31	JABALPUR	SIHORA	TERRA	23.43800	80.25900	11/21/2021	10:51:15	D	7.80

32	JABALPUR	SIHORA	TERRA	23.45300	80.16200	11/21/2021	10:51:15	D	6.50
33	JABALPUR	SIHORA	TERRA	23.45400	80.15300	11/21/2021	10:51:15	D	7.80
34	JABALPUR	SIHORA	TERRA	23.45900	80.05800	11/21/2021	10:51:15	D	8.70
35	JABALPUR	SIHORA	TERRA	23.47300	80.08600	11/21/2021	10:51:15	D	23.80
36	KATNI	DHIMERKHEDA	TERRA	23.51400	80.24200	11/21/2021	10:51:15	D	7.10
37	PANNA	PAWAI	S-NPP	24.30230	80.19490	11/21/2021	13:30:01	D	6.30
38	RAISEN	BARELI	S-NPP	22.93300	78.00020	11/21/2021	13:30:01	D	2.00
39	RAISEN	BARELI	S-NPP	22.99730	78.11300	11/21/2021	13:30:01	D	2.20
40	RAISEN	BARELI	S-NPP	22.99730	78.29960	11/21/2021	13:30:01	D	3.10
41	RAISEN	BARELI	S-NPP	23.01120	78.25440	11/21/2021	13:30:01	D	1.60
42	RAISEN	BARELI	S-NPP	23.04240	78.26470	11/21/2021	13:30:01	D	3.50
43	RAISEN	BARELI	S-NPP	23.04860	78.25980	11/21/2021	13:30:01	D	2.40
44	RAISEN	GOHARGANJ	S-NPP	22.99140	77.68570	11/21/2021	13:30:01	D	3.10
45	RAISEN	GOHARGANJ	S-NPP	23.04270	77.68840	11/21/2021	13:30:01	D	1.50
46	RAISEN	GOHARGANJ	S-NPP	23.04360	77.63020	11/21/2021	13:30:01	D	1.60
47	RAISEN	GOHARGANJ	S-NPP	23.04520	77.59540	11/21/2021	13:30:01	D	4.70
48	RAISEN	GOHARGANJ	S-NPP	23.04680	77.58360	11/21/2021	13:30:01	D	2.60
49	RAISEN	GOHARGANJ	S-NPP	23.04920	77.66770	11/21/2021	13:30:01	D	2.30
50	RAISEN	GOHARGANJ	S-NPP	23.05070	77.58670	11/21/2021	13:30:01	D	5.80
51	RAISEN	GOHARGANJ	S-NPP	23.06280	77.57690	11/21/2021	13:30:01	D	2.70
52	RAISEN	GOHARGANJ	S-NPP	23.06720	77.58380	11/21/2021	13:30:01	D	2.90
53	RAISEN	GOHARGANJ	S-NPP	23.07500	77.61320	11/21/2021	13:30:01	D	2.80
54	RAISEN	GOHARGANJ	S-NPP	23.07880	77.59340	11/21/2021	13:30:01	D	1.80
55	RAISEN	RAISEN	S-NPP	23.39020	77.70870	11/21/2021	13:30:01	D	3.00
56	RAISEN	RAISEN	S-NPP	23.43670	77.88640	11/21/2021	13:30:01	D	1.60
57	RAISEN	RAISEN	S-NPP	23.45620	77.58150	11/21/2021	13:30:01	D	1.30
58	RAISEN	RAISEN	S-NPP	23.46150	77.75430	11/21/2021	13:30:01	D	2.60
59	RAISEN	RAISEN	S-NPP	23.46200	77.75810	11/21/2021	13:30:01	D	2.60
60	RAISEN	RAISEN	S-NPP	23.47090	77.77200	11/21/2021	13:30:01	D	2.00
61	RAISEN	SILVANI	S-NPP	23.19960	78.31480	11/21/2021	02:20:44	N	1.70
62	RAISEN	SILVANI	S-NPP	23.20090	78.31400	11/21/2021	02:20:44	N	1.80
63	REWA	HUZUR	S-NPP	24.42600	81.26500	11/21/2021	13:30:01	D	2.90
64	SATNA	AMARPATAN	S-NPP	24.43880	81.18110	11/21/2021	13:30:01	D	3.30
65	SATNA	AMARPATAN	S-NPP	24.50790	81.08710	11/21/2021	13:30:01	D	3.80
66	SATNA	MAIHAR	S-NPP	24.34380	80.87490	11/21/2021	13:30:01	D	1.60
67	SATNA	MAIHAR	S-NPP	24.36790	80.88610	11/21/2021	13:30:01	D	3.20

68	SATNA	MAJHGAWAN	S-NPP	24.80510	80.94940	11/21/2021	13:30:01	D	3.10
69	SATNA	MAJHGAWAN	S-NPP	24.80740	80.99960	11/21/2021	13:30:01	D	2.20
70	SATNA	NAGOD	S-NPP	24.46320	80.52090	11/21/2021	13:30:01	D	7.70
71	SATNA	NAGOD	S-NPP	24.51660	80.56660	11/21/2021	13:30:01	D	1.90
72	SATNA	NAGOD	S-NPP	24.51730	80.56520	11/21/2021	13:30:01	D	2.50
73	SATNA	RAGURAJNAGAR	S-NPP	24.70780	80.66500	11/21/2021	13:30:01	D	4.60
74	SATNA	RAGURAJNAGAR	S-NPP	24.70790	80.60680	11/21/2021	13:30:01	D	4.00
75	SATNA	RAGURAJNAGAR	S-NPP	24.72250	80.66270	11/21/2021	13:30:01	D	3.60
76	SATNA	RAMNAGAR	S-NPP	24.25120	81.21340	11/21/2021	13:30:01	D	8.40
77	SATNA	RAMPURBAGHLEAN	S-NPP	24.53750	80.89780	11/21/2021	13:30:01	D	2.10
78	SATNA	RAMPURBAGHLEAN	S-NPP	24.57110	80.95250	11/21/2021	13:30:01	D	2.60
79	SATNA	RAMPURBAGHLEAN	S-NPP	24.57200	80.95410	11/21/2021	13:30:01	D	3.60
80	SATNA	RAMPURBAGHLEAN	S-NPP	24.58340	81.04780	11/21/2021	13:30:01	D	3.00
81	SATNA	RAMPURBAGHLEAN	S-NPP	24.58370	81.05090	11/21/2021	13:30:01	D	2.70
82	SATNA	RAMPURBAGHLEAN	S-NPP	24.62380	81.12800	11/21/2021	13:30:01	D	14.90
83	SATNA	RAMPURBAGHLEAN	S-NPP	24.65790	81.03180	11/21/2021	13:30:01	D	3.10
84	SATNA	RAMPURBAGHLEAN	S-NPP	24.65980	81.04670	11/21/2021	13:30:01	D	5.60
85	SATNA	UCHAHAR	S-NPP	24.37610	80.83100	11/21/2021	13:30:01	D	2.70
86	SEHORE	BUDHNI	S-NPP	22.84430	78.01500	11/21/2021	13:30:01	D	5.00
87	SEHORE	BUDHNI	S-NPP	22.92690	77.93560	11/21/2021	13:30:01	D	3.30
88	SEHORE	BUDHNI	S-NPP	22.93960	77.95270	11/21/2021	13:30:01	D	2.20
89	SEONI	SEONI	S-NPP	22.33160	79.77060	11/21/2021	13:30:01	D	8.40
90	UMARIA	BANDHOGARH	S-NPP	23.58040	80.65980	11/21/2021	13:30:01	D	3.80
91	VIDESHA	BASODA	S-NPP	23.94840	78.03250	11/21/2021	13:30:01	D	2.70
92	VIDESHA	BASODA	S-NPP	23.94900	78.03630	11/21/2021	13:30:01	D	3.10
93	VIDESHA	BASODA	TERRA	23.88900	78.13100	11/21/2021	10:51:15	D	6.00
94	VIDESHA	NATERAN	S-NPP	23.89980	77.67800	11/21/2021	13:30:01	D	5.50
95	VIDESHA	VIDESHA	S-NPP	23.62040	77.78050	11/21/2021	13:30:01	D	3.60

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

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