



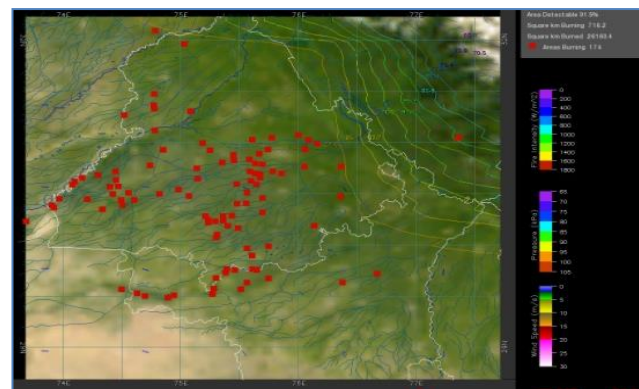
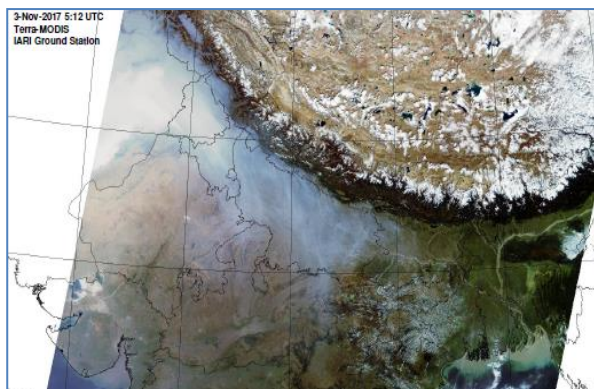
**Bulletin
No. 66**

**Events Date:
19-Nov-2021**

**Issued on:
19-Nov-2021**



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



Prepared by:

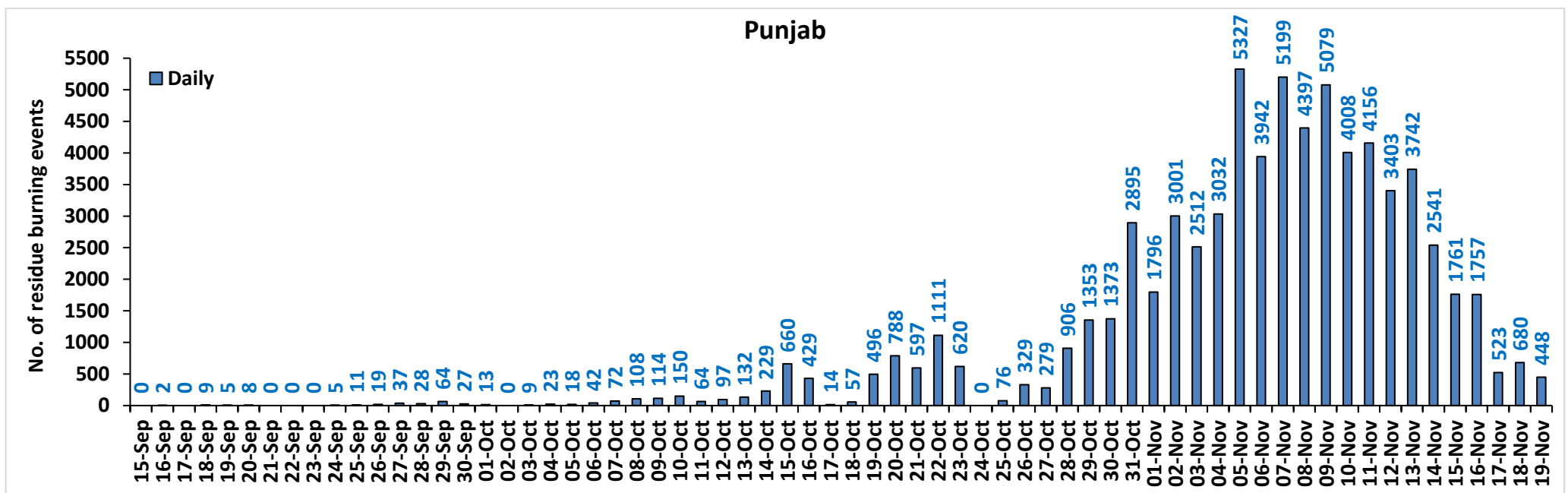
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

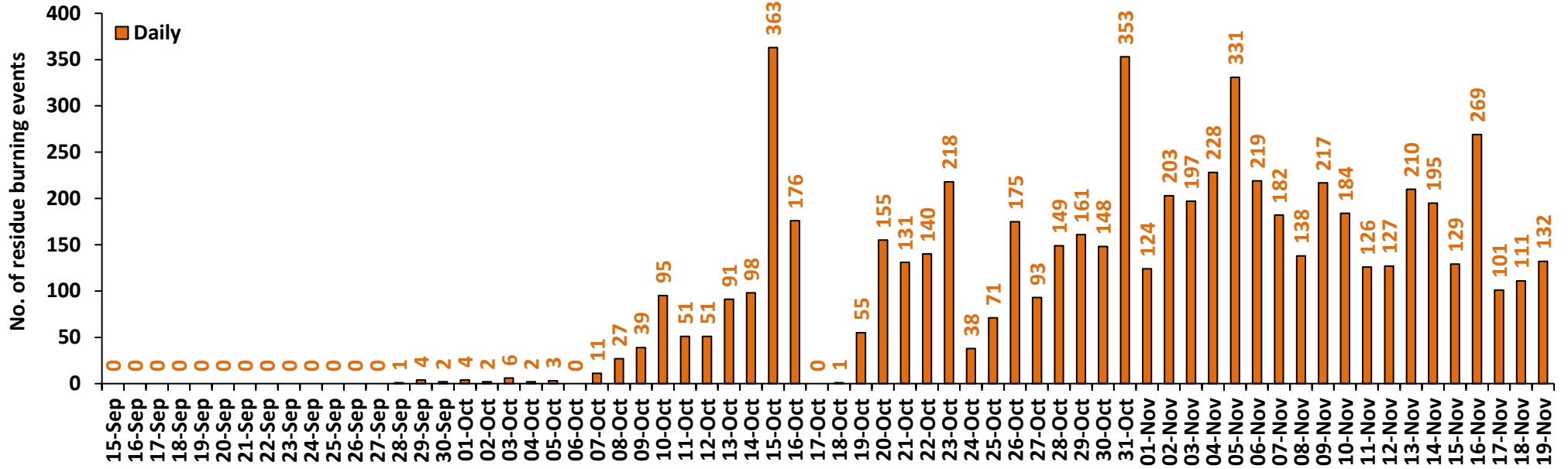
Highlights for 19-November-2021

- 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 **680** residue burning events in the six study States on 19-Nov-2021.
- The state wise events detected on 19-Nov-21 were **448** in Punjab, **132** in Haryana, **11** in UP, **0** in Delhi, **73** in Raj and **16** in MP.
- Detection of burning events by satellites was hampered due to scattered clouds over UP, MP and south eastern Rajasthan.
- The number of events has decreased from **1008** on 18-Nov-2021 to **680** on 19-Nov-2021 in the six study states.
- Total **86753** burning events were detected in the six states between 15-Sept-2021 and 19-Nov-2021, which are distributed as **70573**, **6337**, **2788**, **4**, **1015** and **6036** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Overall, the total burning events recorded in the six states are **15.6%** less than in 2020 till date. Punjab recorded **13.4%** reduction, Haryana recorded **66.5%** increase, UP recorded **11.0%** reduction, Delhi recorded **55.6%** reduction, Rajasthan recorded **30.5%** reduction and MP recorded **53.4%** reduction, in the current season than in 2020.

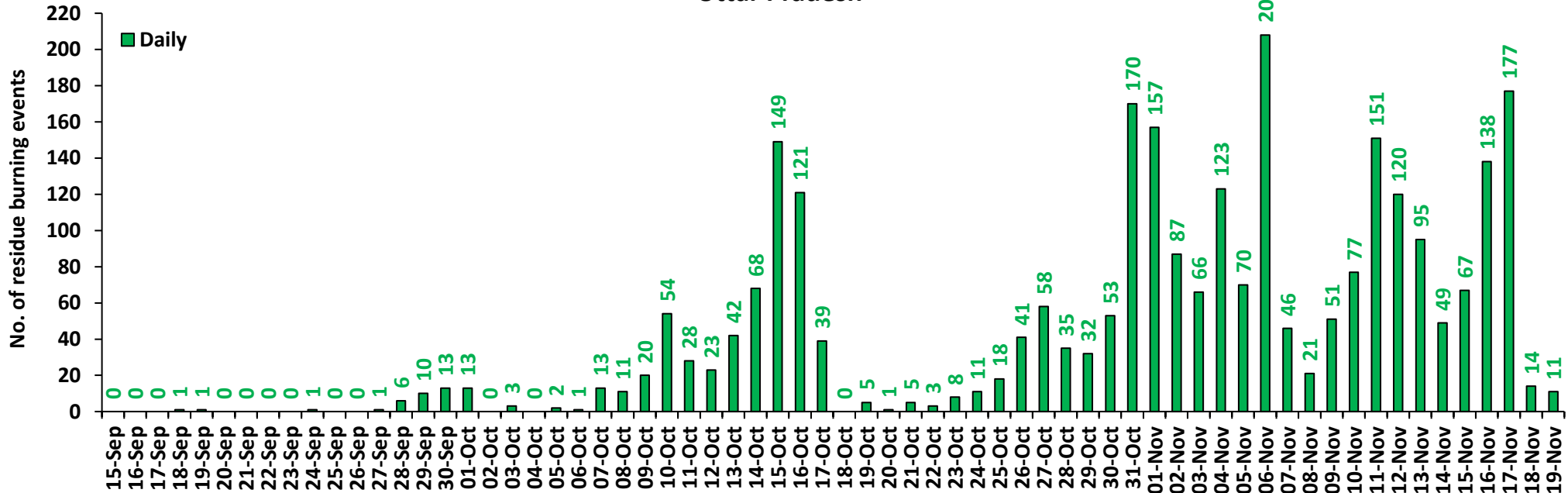
Temporal distribution of rice residue burning events for the study States in 2021



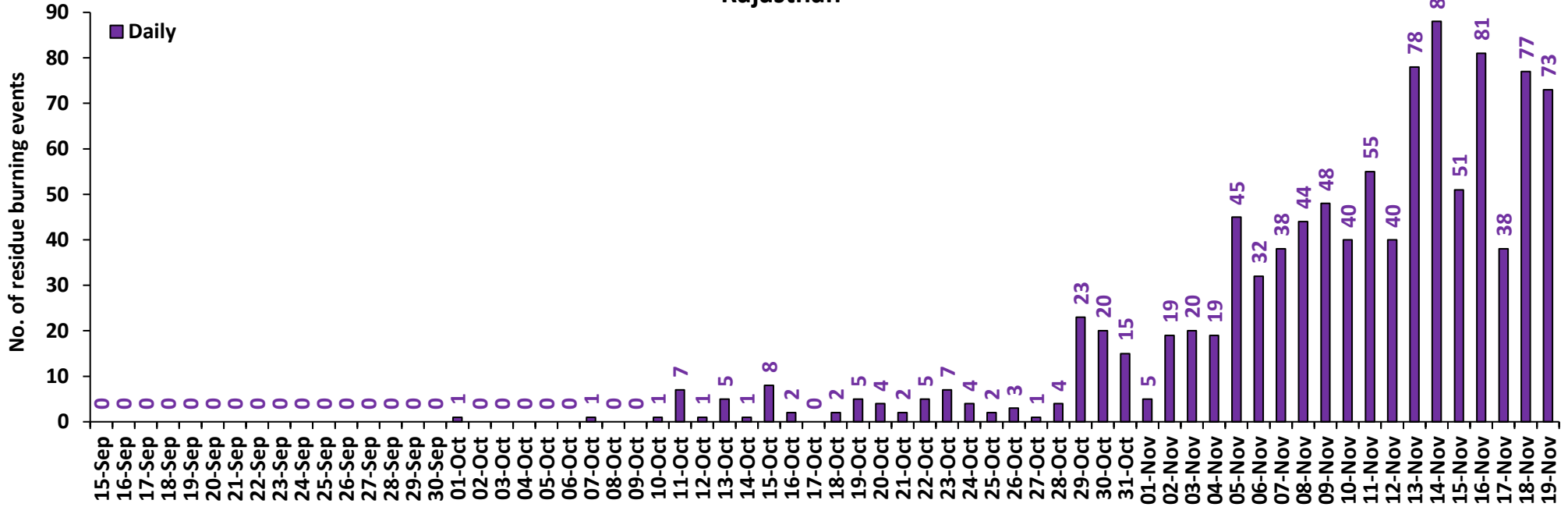
Haryana



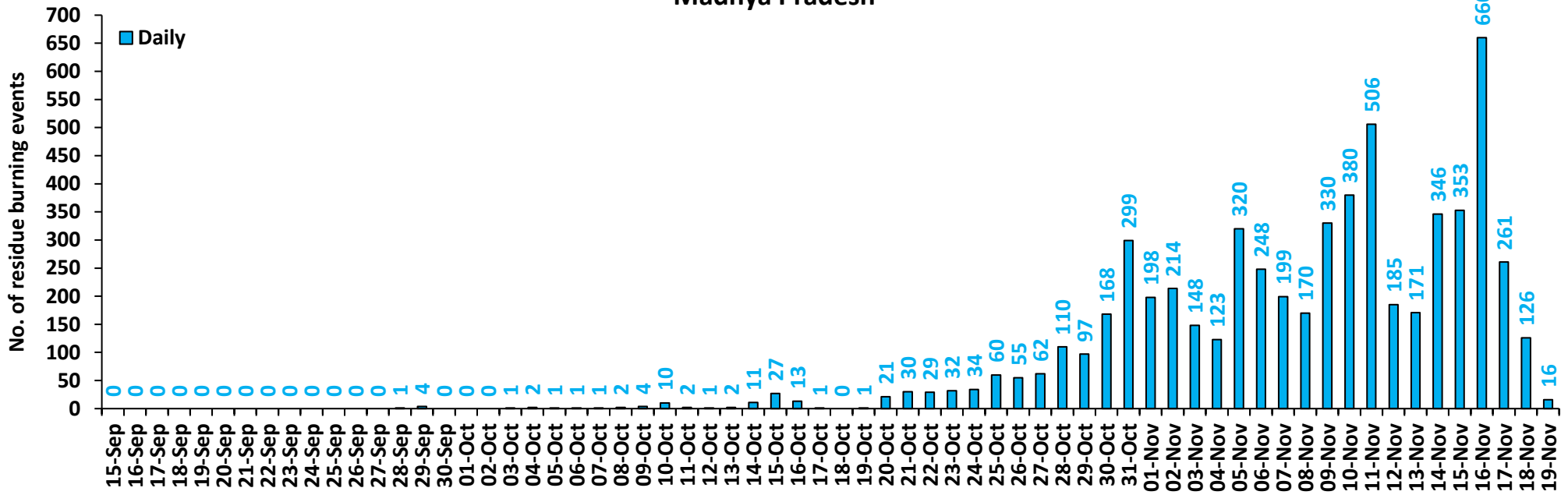
Uttar Pradesh



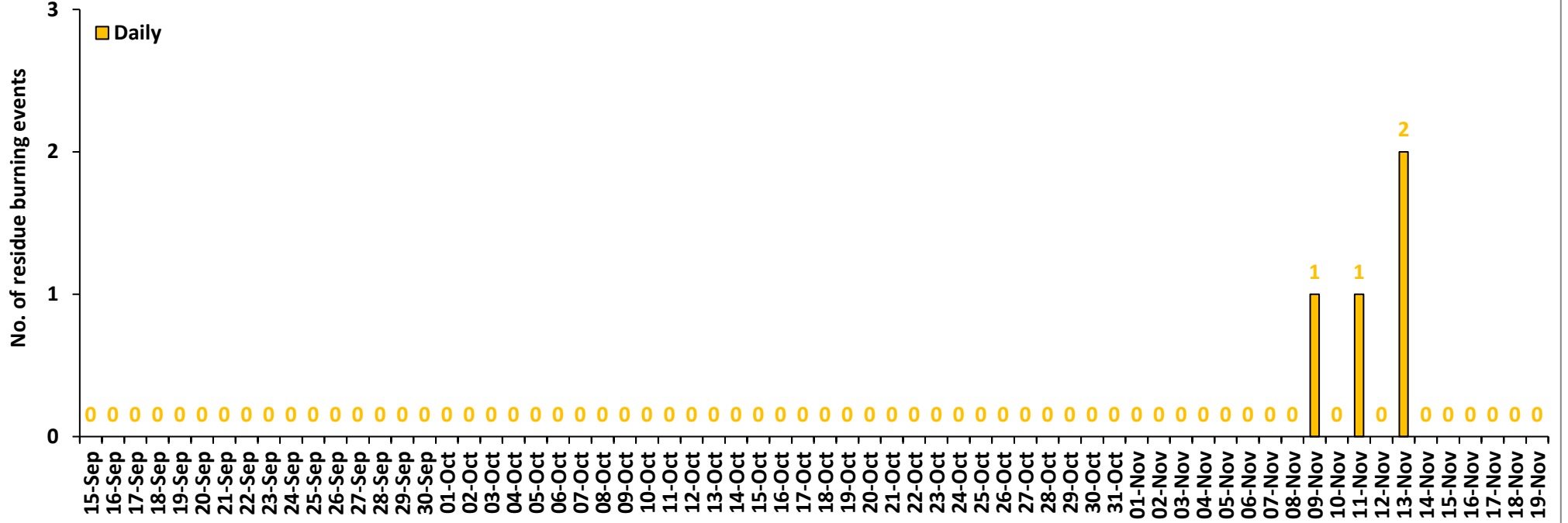
Rajasthan



Madhya Pradesh

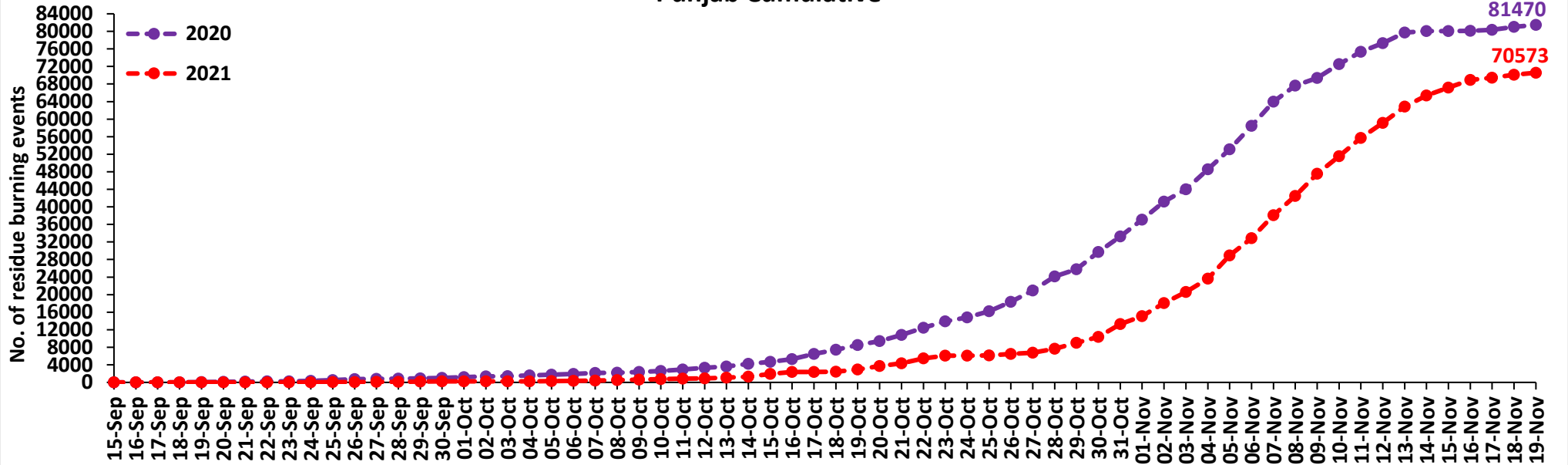


Delhi

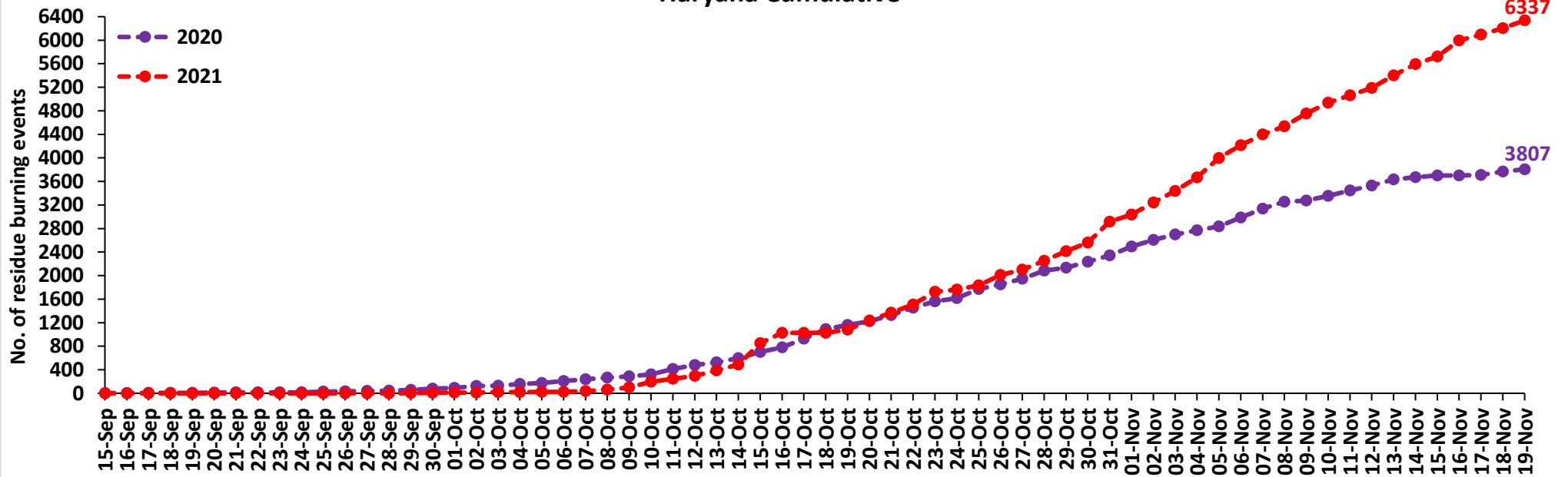


Comparison of residue burning events in current year (2021) with previous year (2020) for the study States

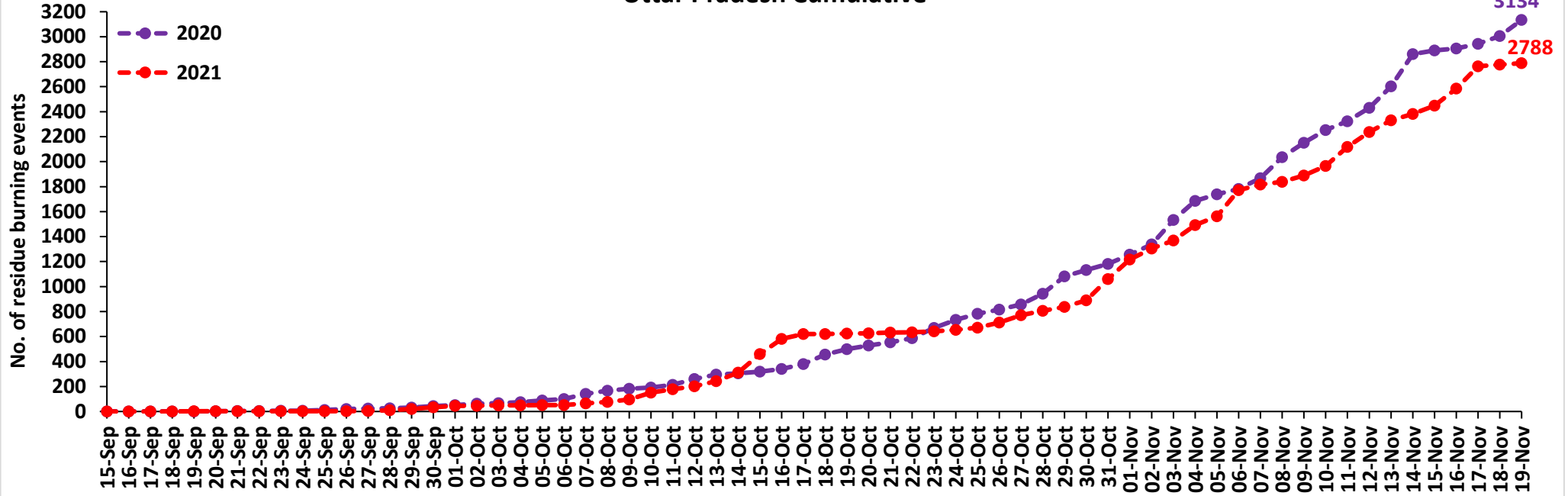
Punjab Cumulative



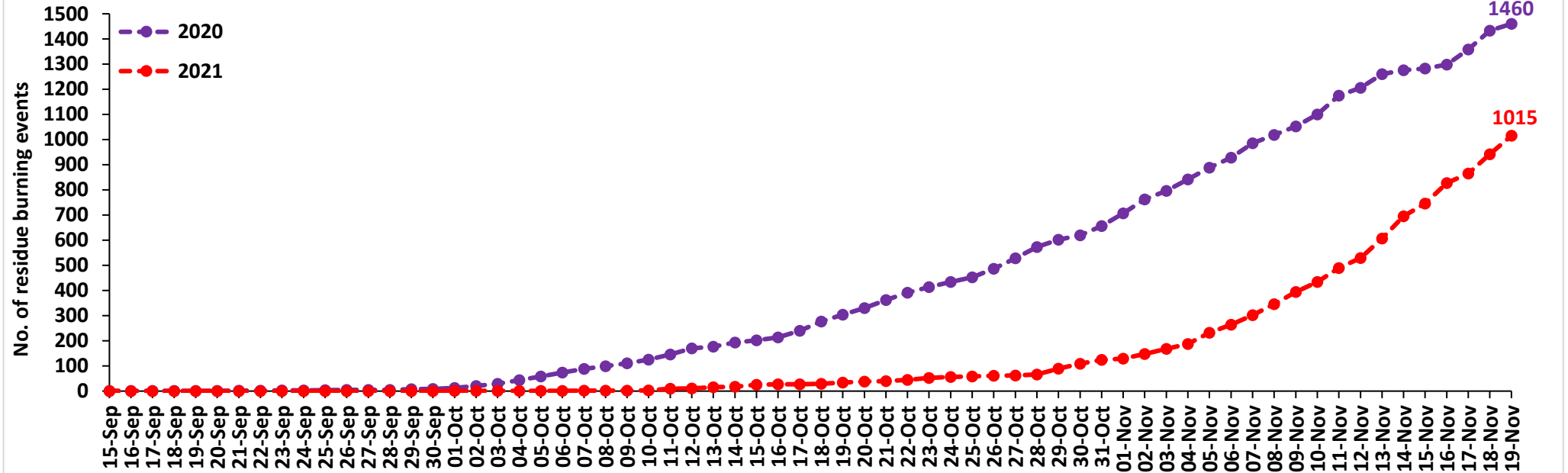
Haryana Cumulative



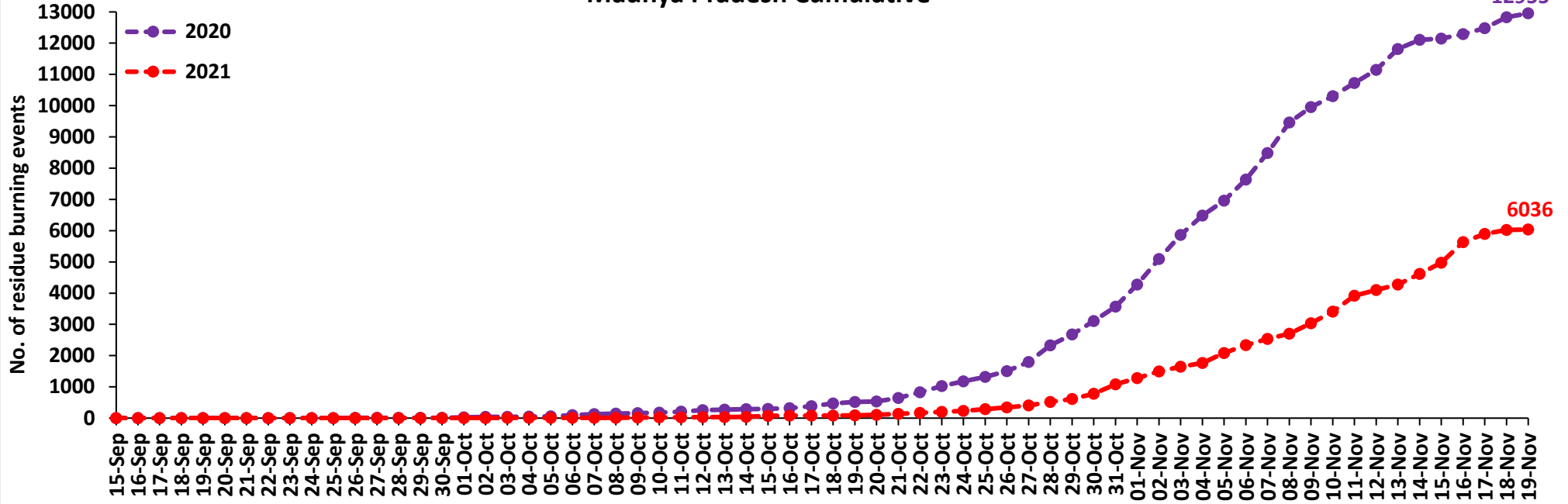
Uttar Pradesh Cumulative



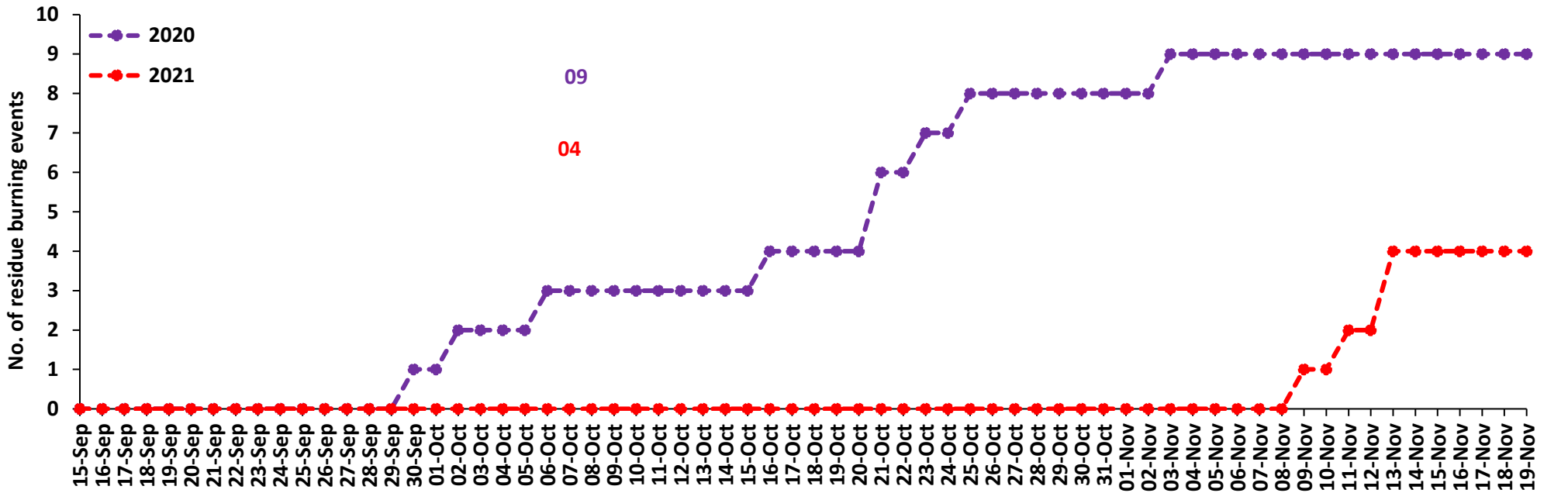
Rajasthan Cumulative



Madhya Pradesh Cumulative

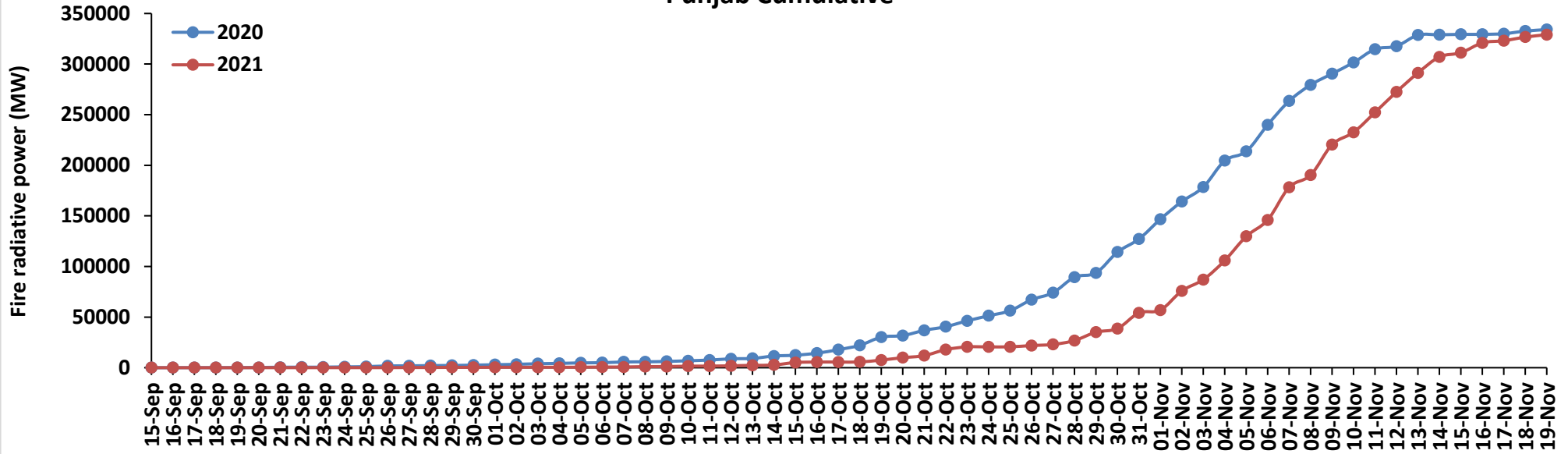


Delhi Cumulative

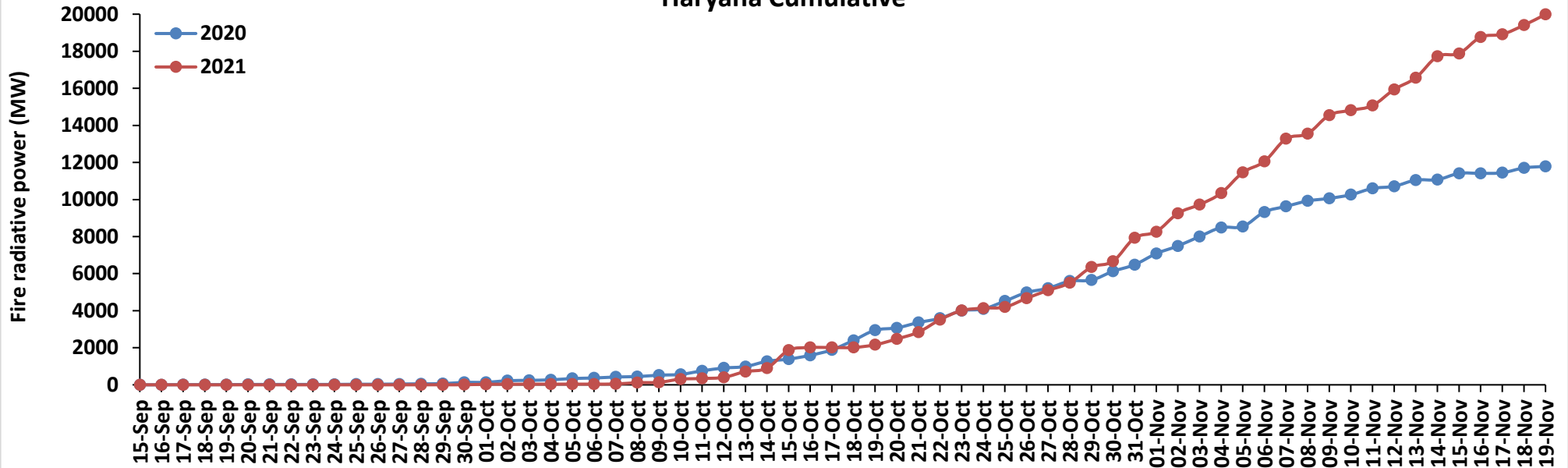


Comparison of residue burning fire power in current year (2021) with previous year (2020) for the study States

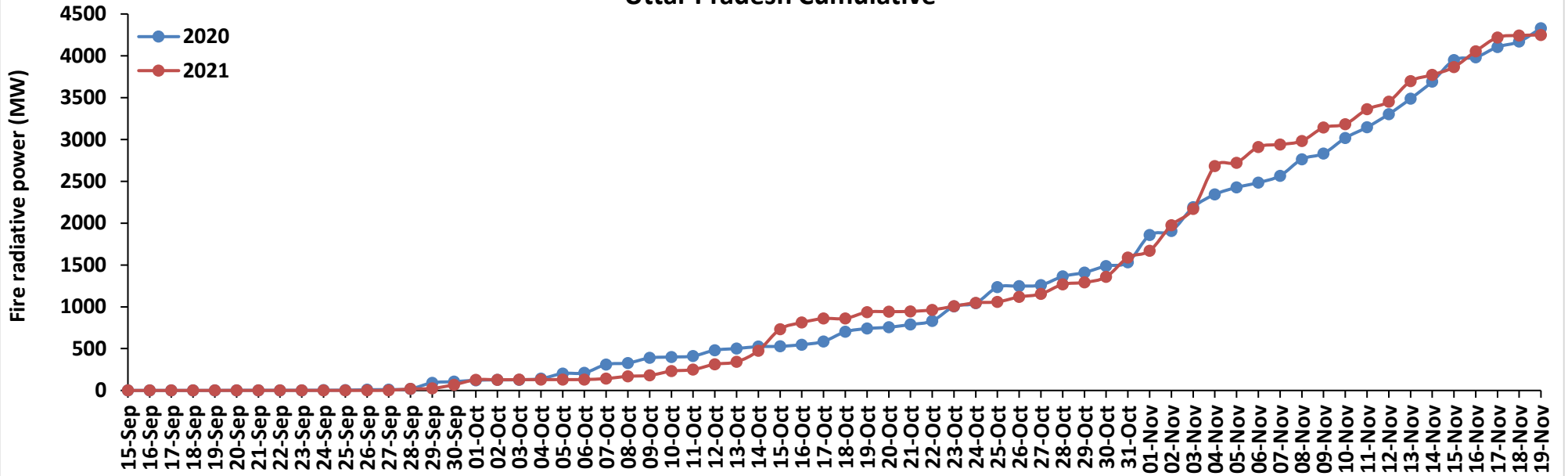
Punjab Cumulative



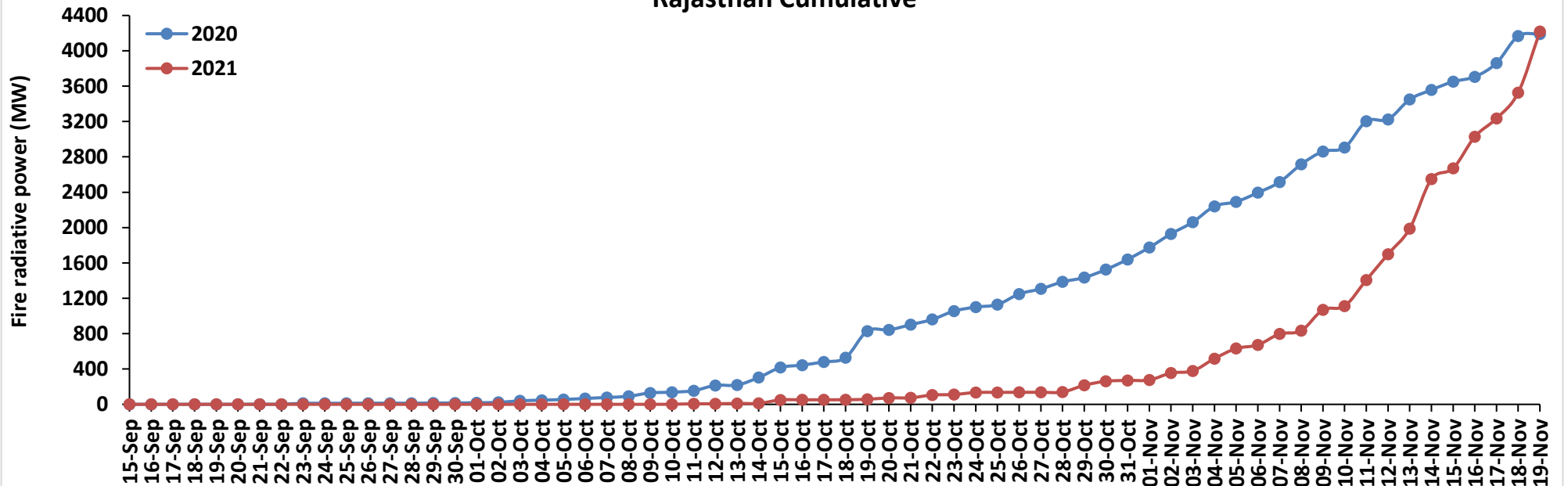
Haryana Cumulative



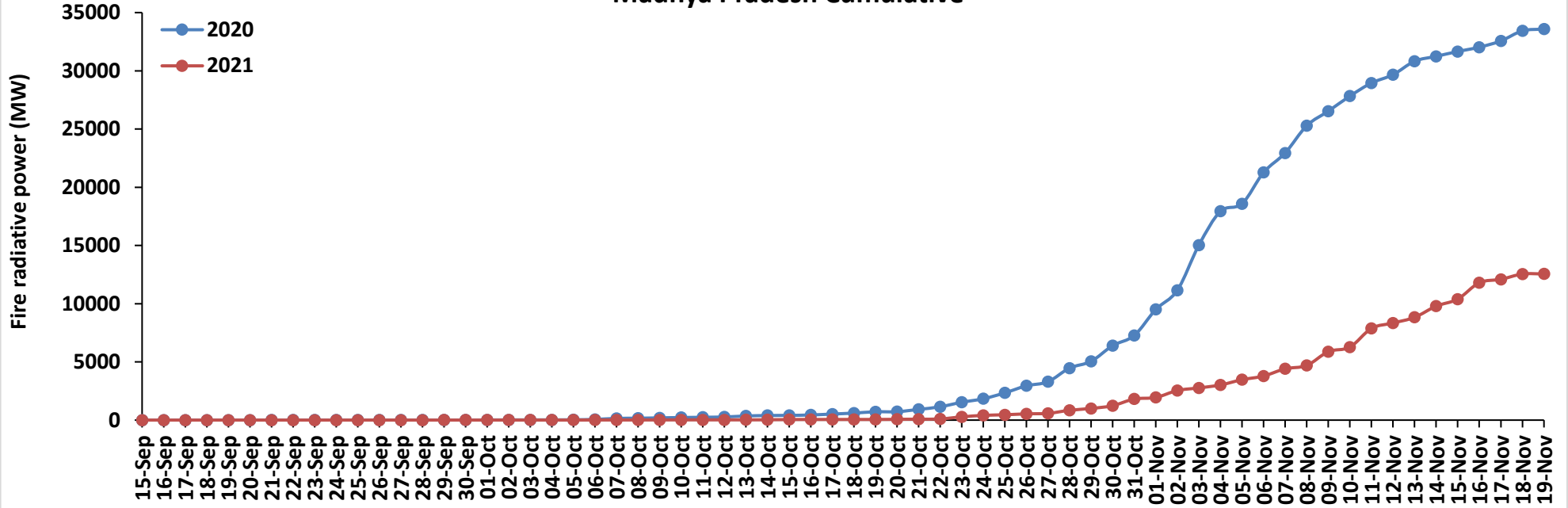
Uttar Pradesh Cumulative



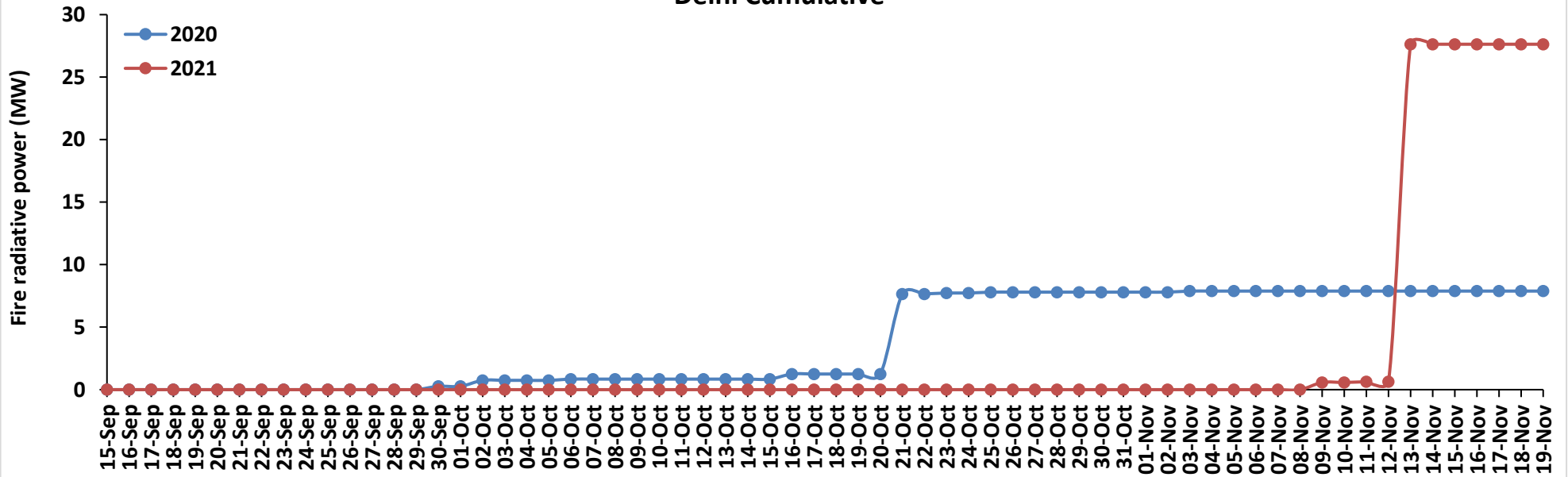
Rajasthan Cumulative



Madhya Pradesh Cumulative

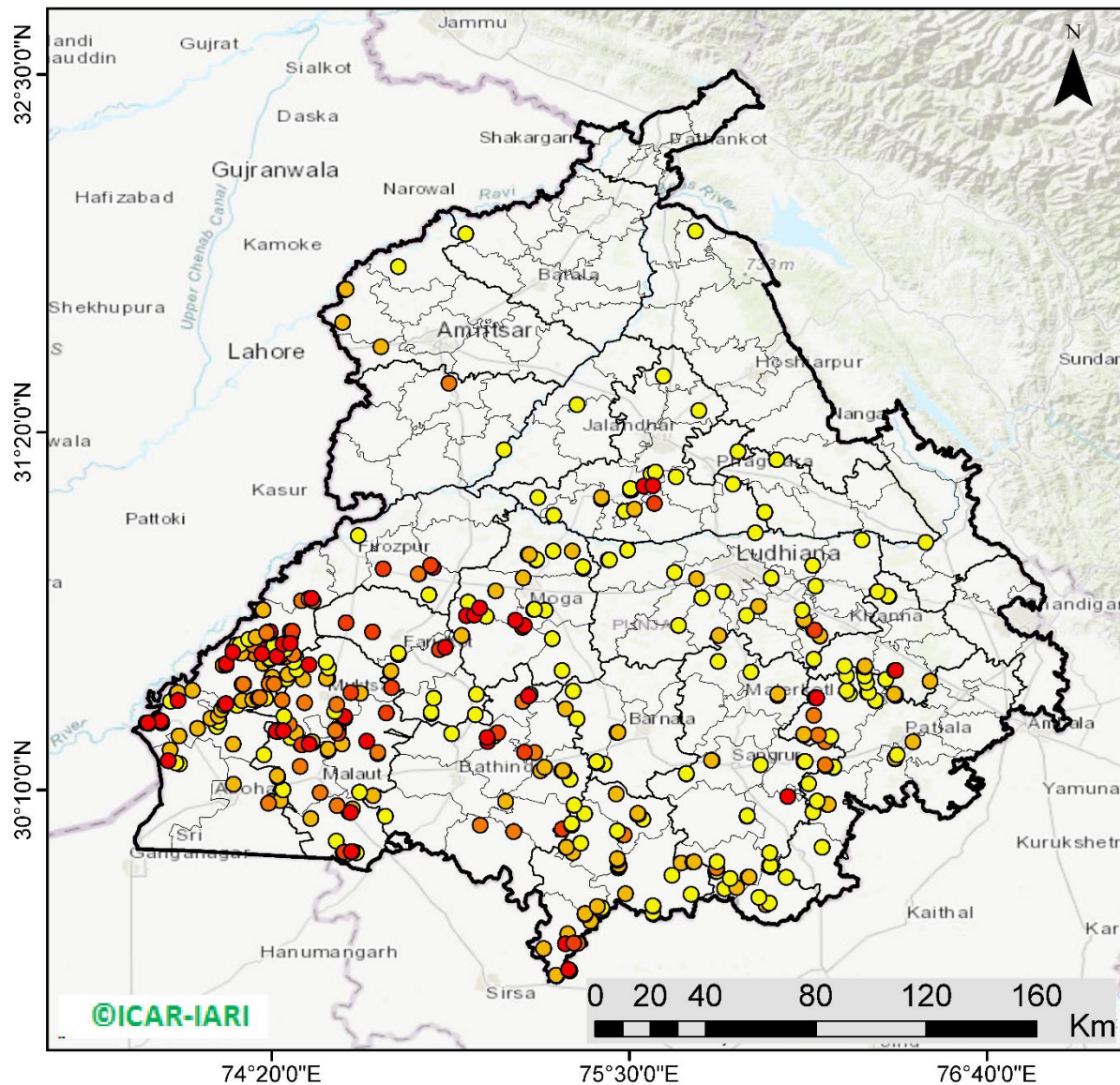


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



448 burning events detected in Punjab on 19th November 2021

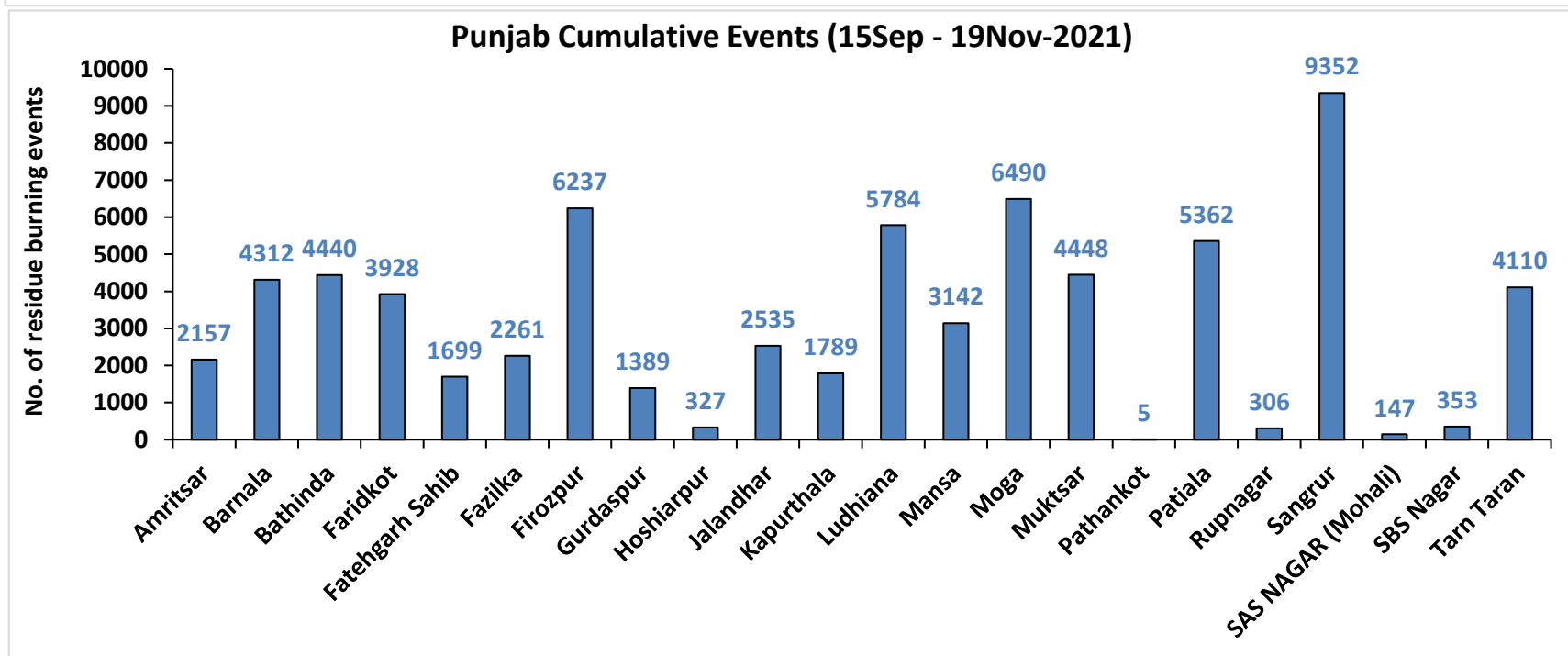
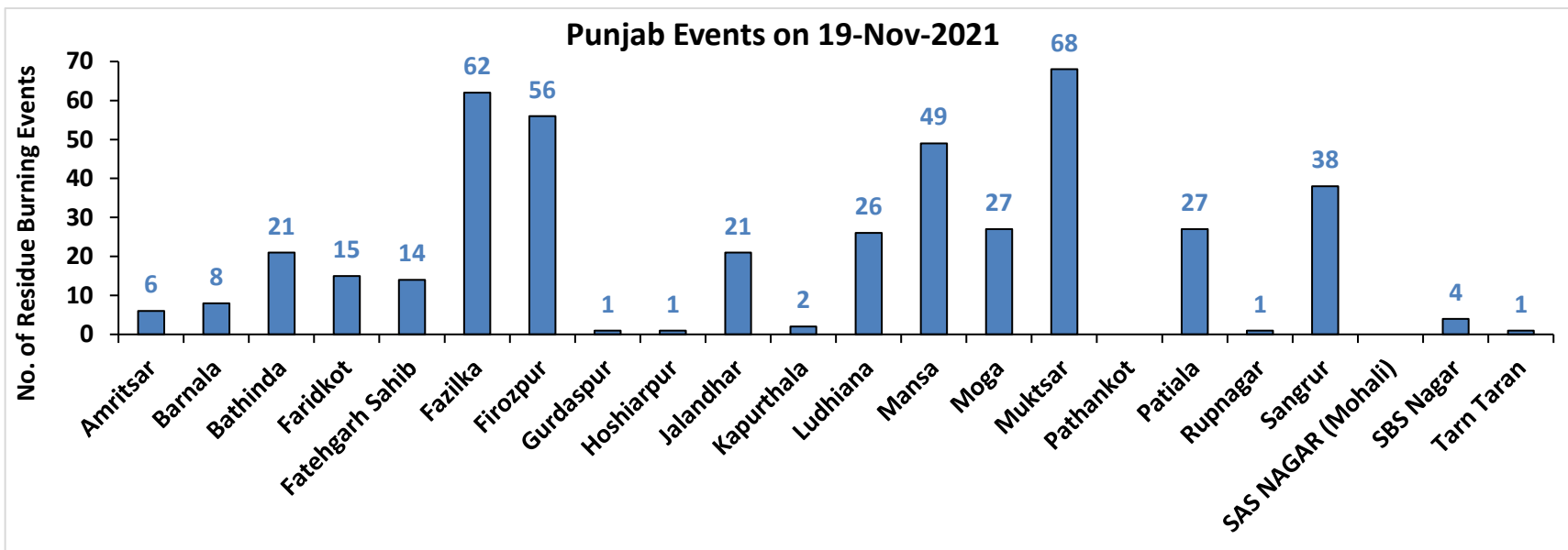
Fire Intensity (W/m²)

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



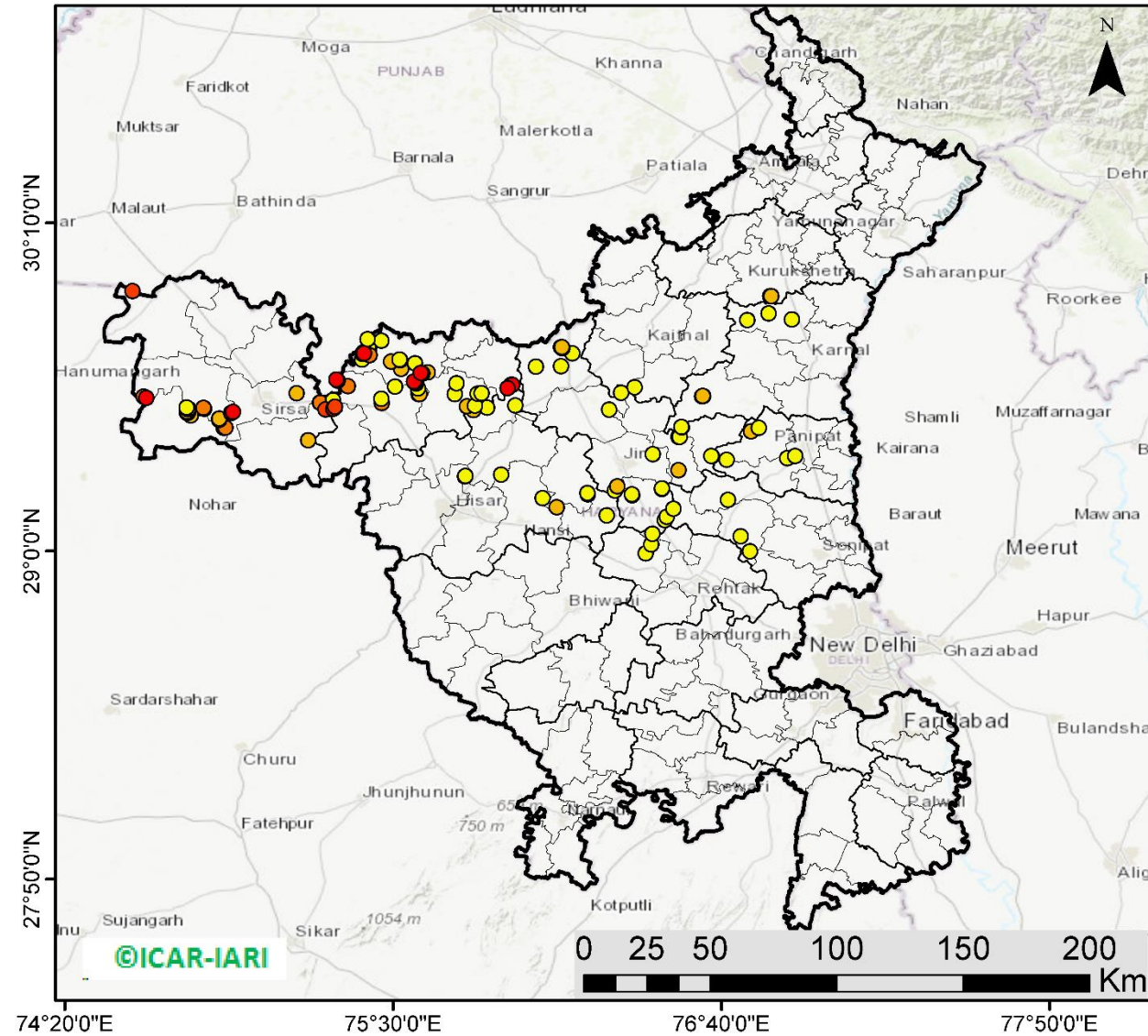
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15 Sep - 19 Nov-2021)



Haryana

RICE RESIDUE BURNING IN HARYANA



132 burning events detected in Haryana on 19th November 2021

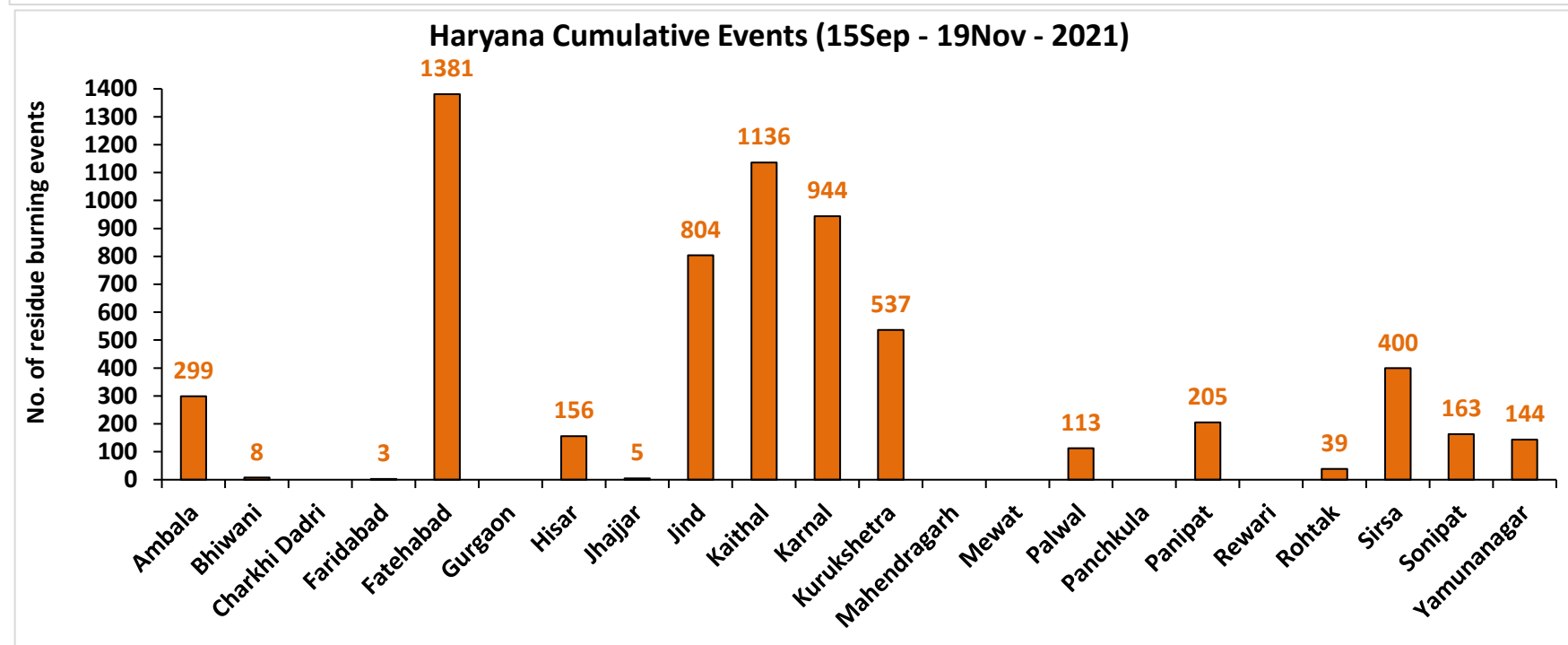
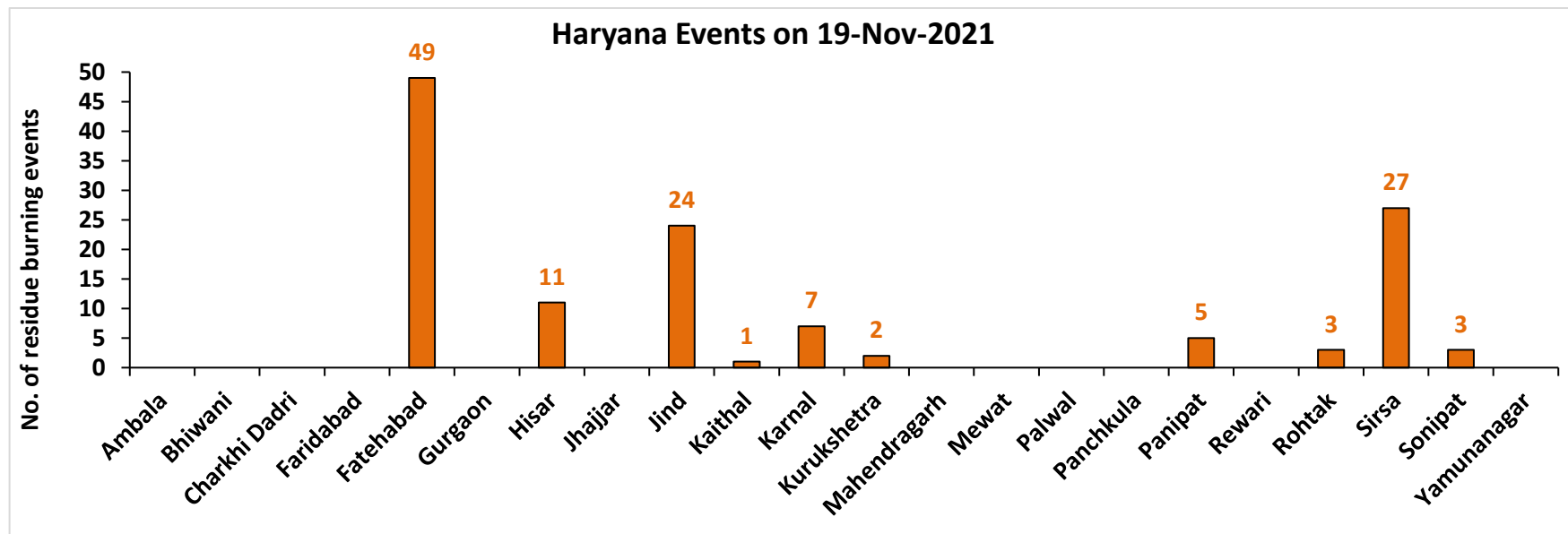
Fire Intensity (W/m²)

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



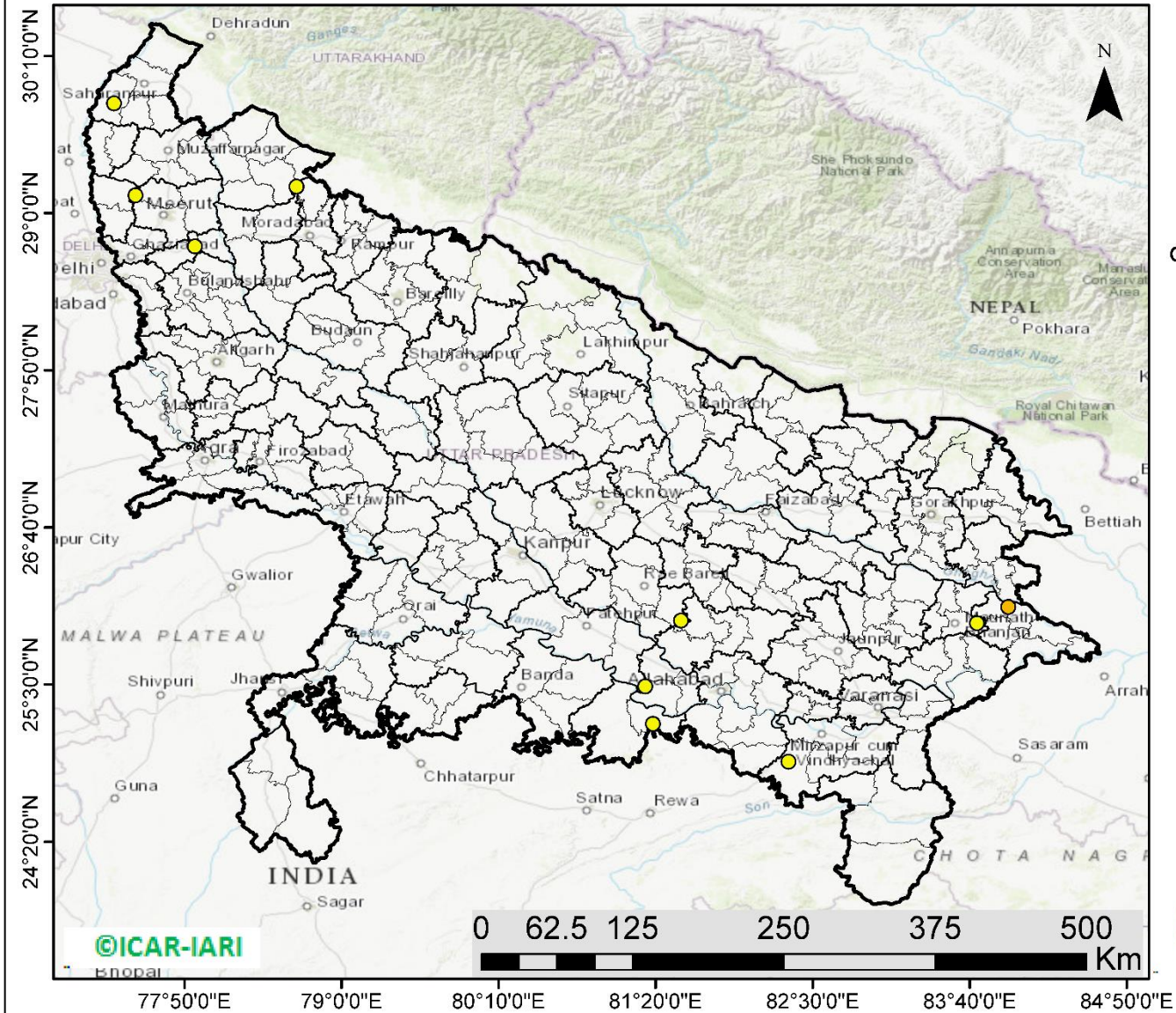
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15 Sep - 19 Nov-2021)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



11 burning events detected in Uttar Pradesh on 19th November 2021

Fire Intensity (W/m2)

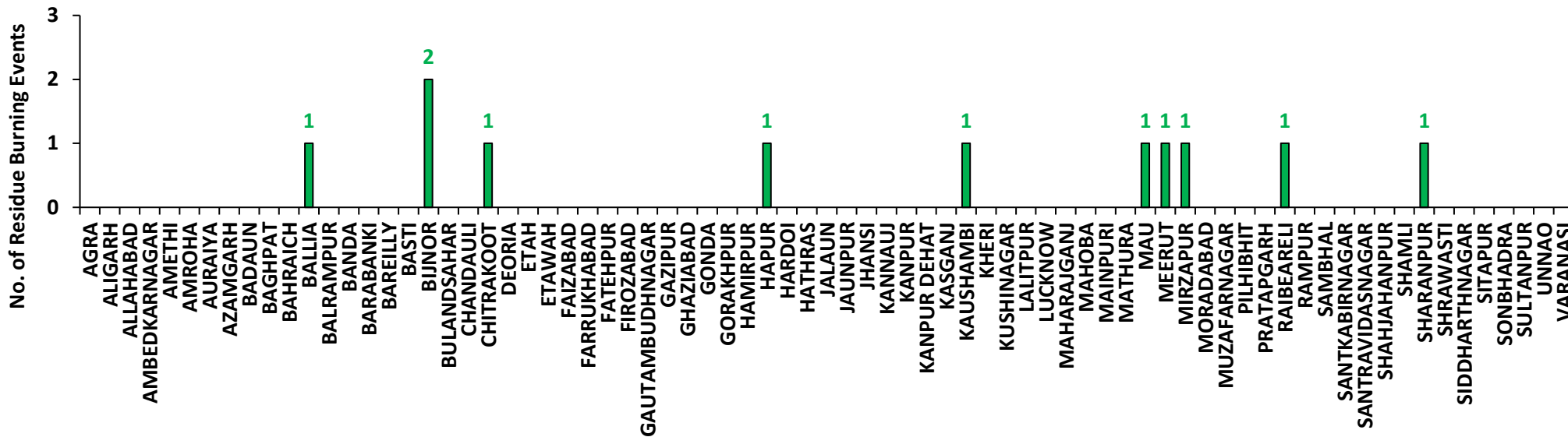
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



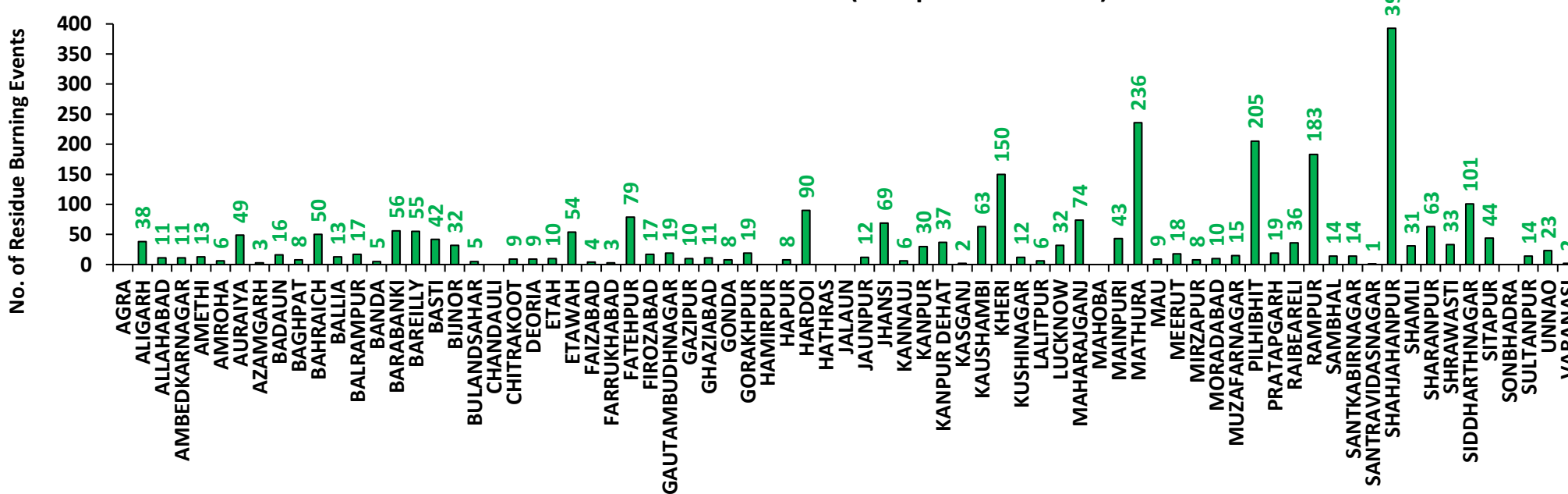
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (15 Sep - 19 Nov-2021)

Uttar Pradesh Events on 19-Nov-2021

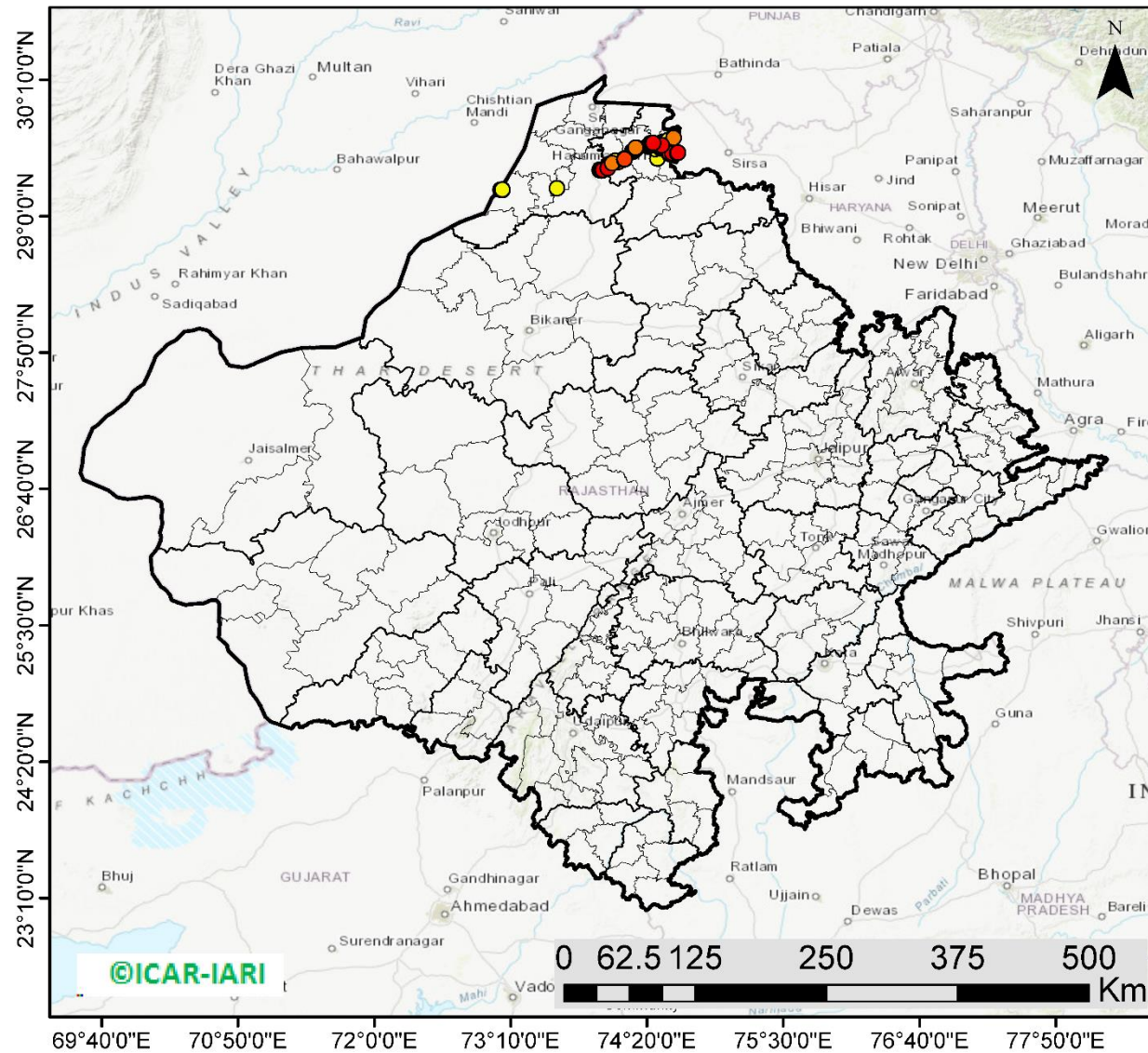


Uttar Pradesh Cumulative Events (15Sep - 19Nov-2021)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



73 burning events detected in Rajasthan on 19th November 2021

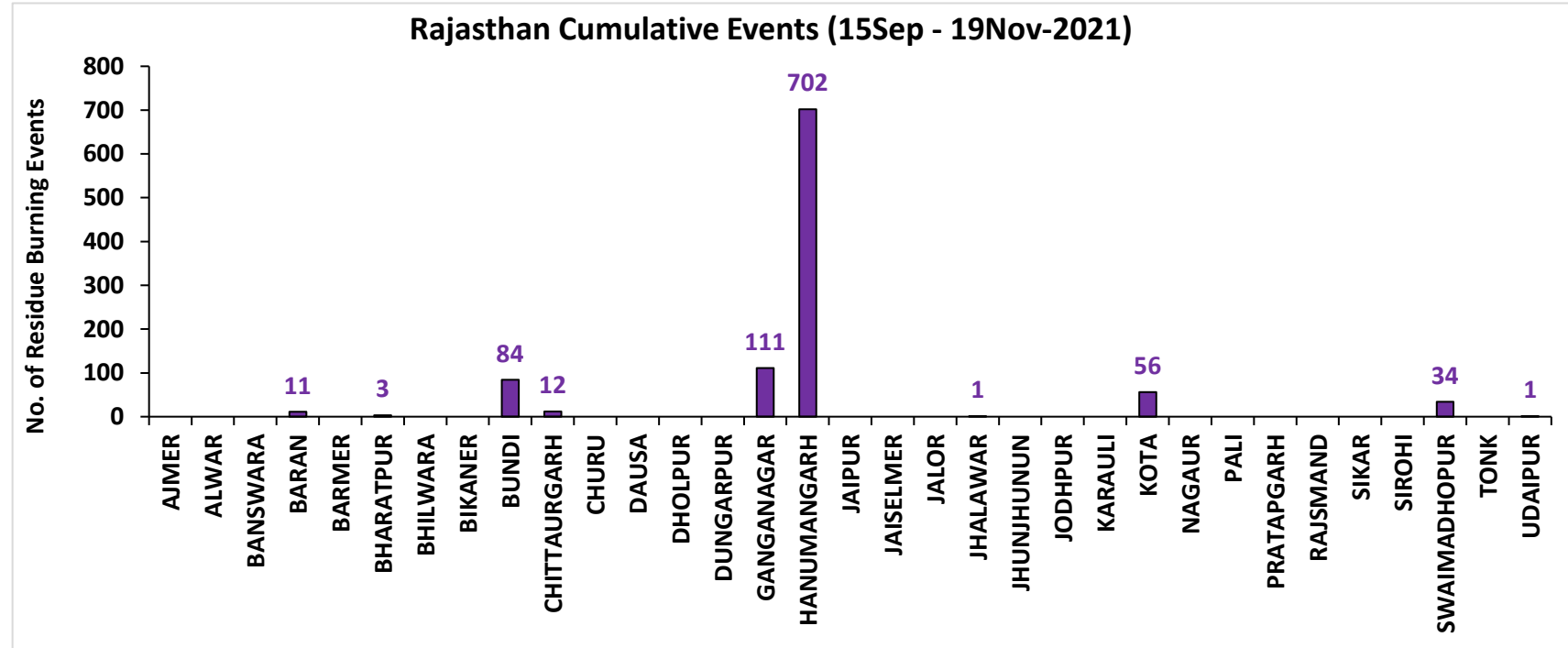
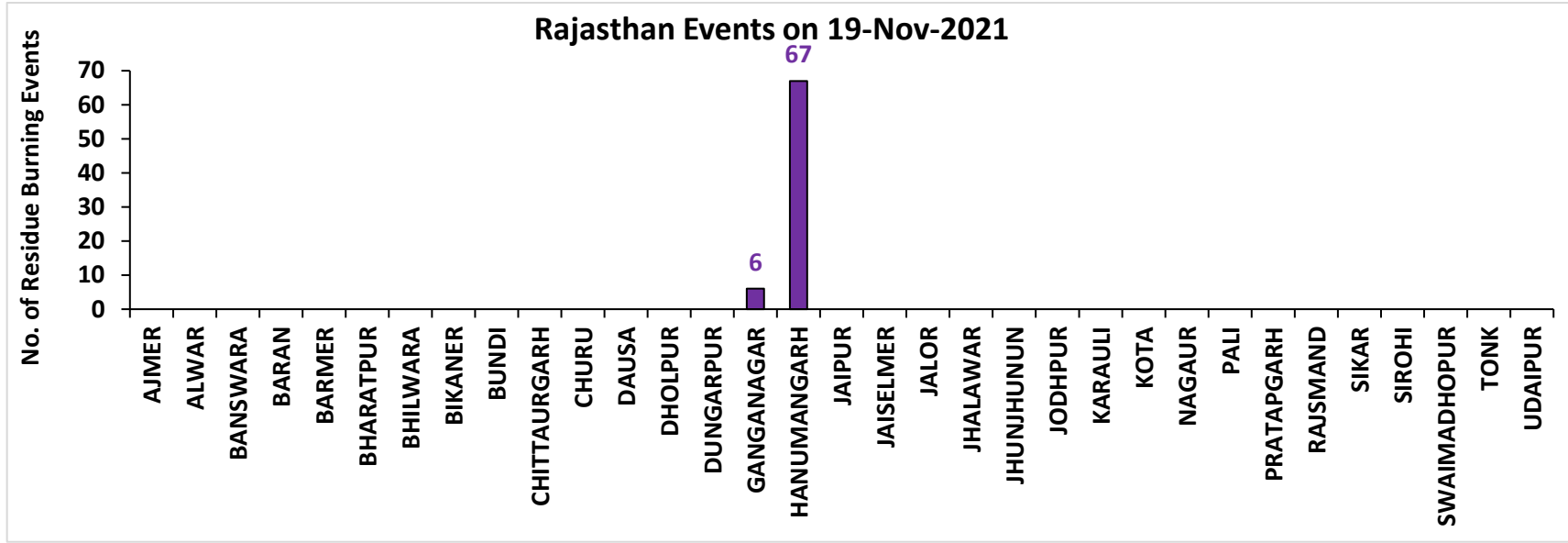
Fire Intensity (W/m²)

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



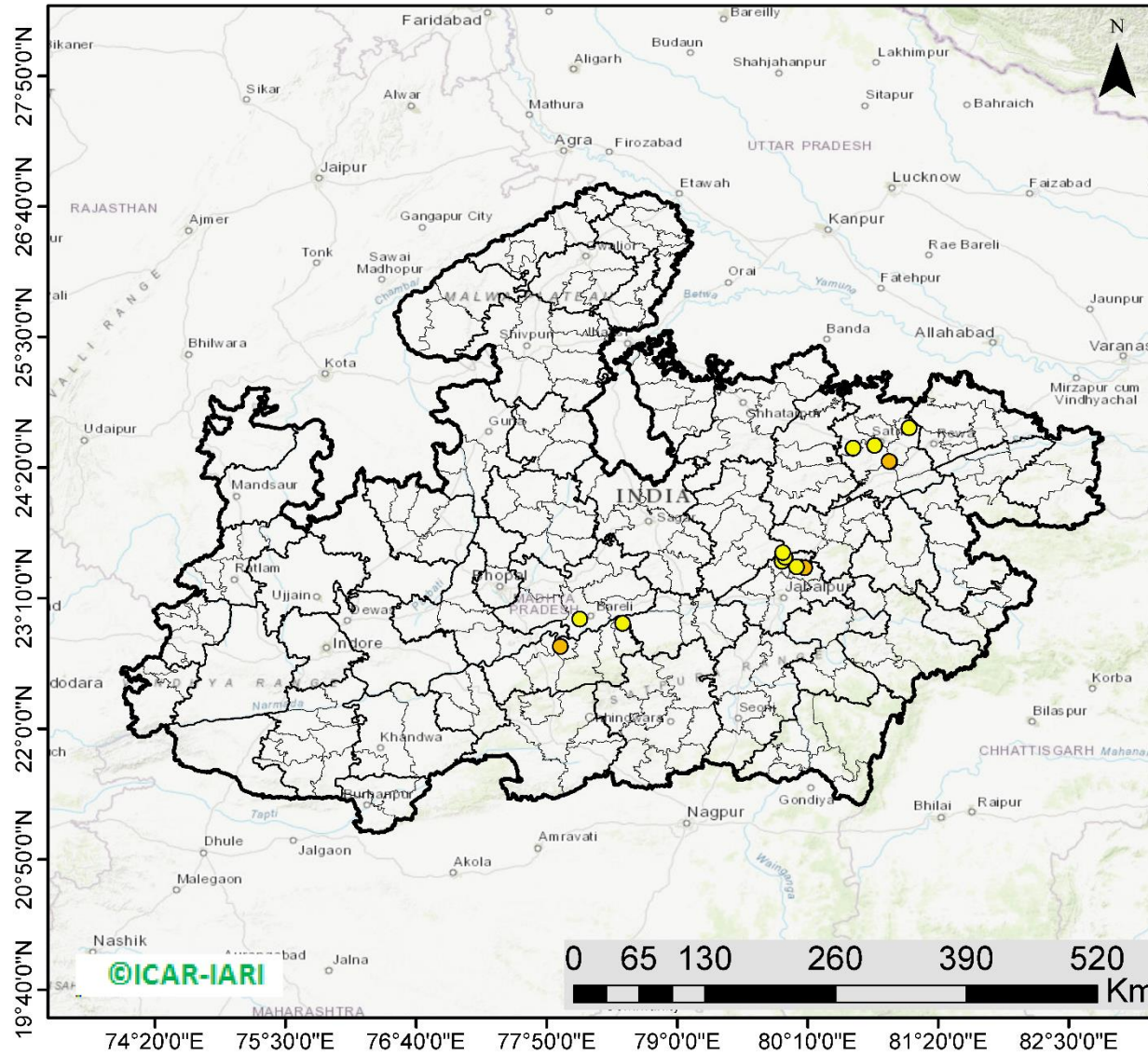
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15 Sep - 19 Nov-2021)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



16 burning events detected in MP on 19th November 2021

Fire Intensity (W/m²)

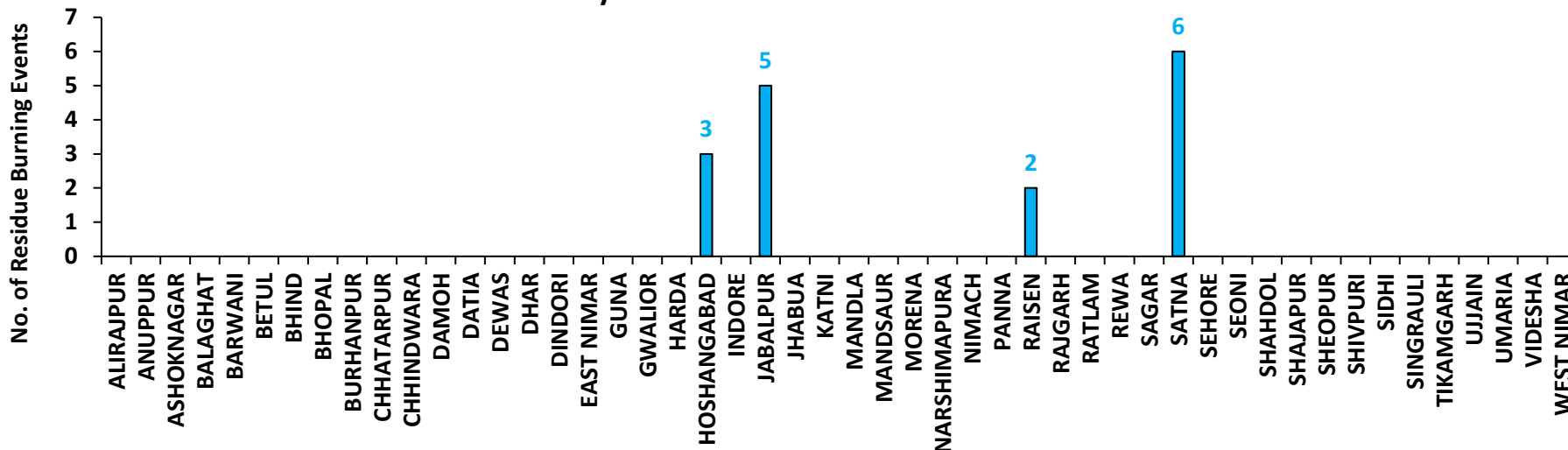
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



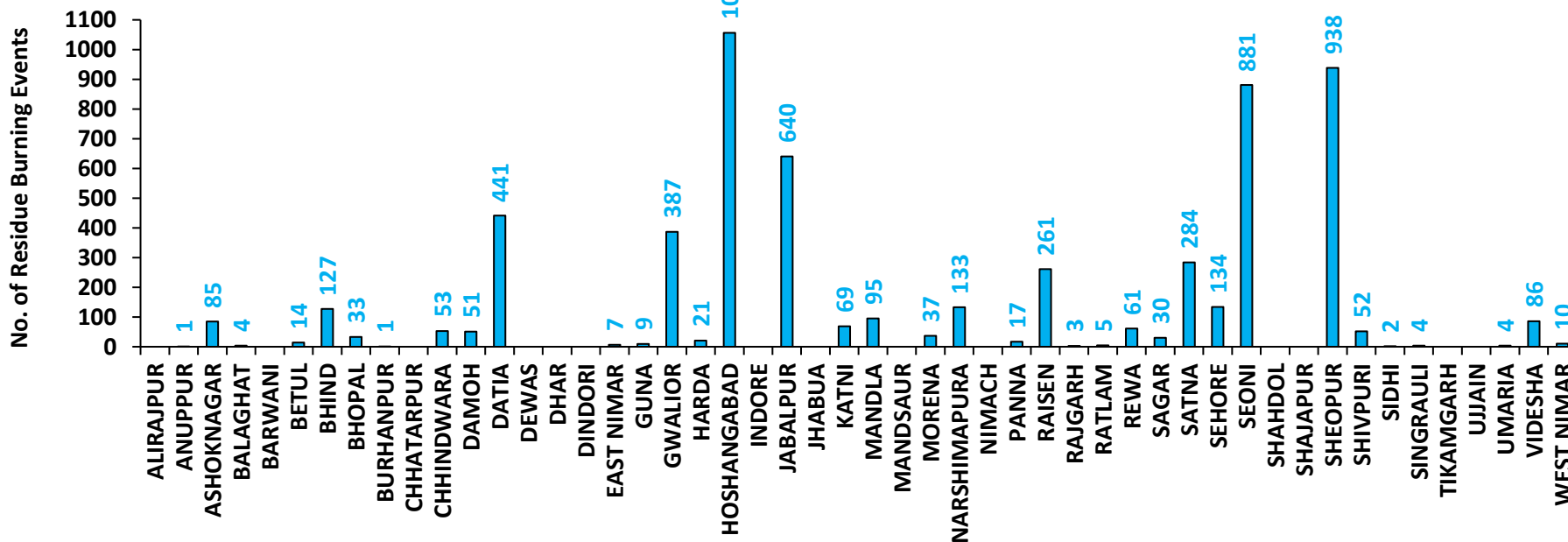
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Madhya Pradesh (15 Sep - 19 Nov-2021)

Madhya Pradesh Events on 19-Nov-2021



Madhya Pradesh Cumulative Events (15Sep - 19Nov-2021)



District-wise cumulative number of residues burning events detected in 2020 and 2021
(Period: 15 September - 19 November)

(a) Punjab

District	15 Sep – 19 Nov	
	2020	2021
AMRITSAR	3053	2157
BARNALA	5263	4312
BATHINDA	5120	4440
FARIDKOT	4652	3928
FATEHGARH SAHIB	1530	1699
FAZILKA	2233	2261
FIROZPUR	8402	6237
GURDASPUR	2120	1389
HOSHIARPUR	386	327
JALANDHAR	1930	2535
KAPURTHALA	1880	1789
LUDHIANA	4993	5784
MANSA	3708	3142
MOGA	7271	6490
MUKTSAR	4761	4448
PATHANKOT	13	5
PATIALA	6403	5362
RUPNAGAR	205	306
SANGRUR	11695	9352
SAS NAGAR (MOHALI)	127	147
SBS NAGAR	131	353
TARN TARAN	5594	4110
Total	81470	70573

(b) Haryana

District	15 Sep – 19 Nov	
	2020	2021
AMBALA	345	299
BHIWANI	4	8
CHARKHI DADRI	0	0
FARIDABAD	1	3
FATEHABAD	754	1381
GURGAON	0	0
HISAR	49	156
JHAJJAR	6	5
JIND	333	804
KAITHAL	829	1136
KARNAL	578	944
KURUKSHETRA	405	537
MAHENDRAGARH	0	0
MEWAT	0	0
PALWAL	46	113
PANCHKULA	0	0
PANIPAT	48	205
REWARI	0	0
ROHTAK	43	39
SIRSA	158	400
SONIPAT	66	163
YAMUNANAGAR	142	144
Total	3807	6337

(c) Uttar Pradesh

District	15 Sep – 19 Nov							
	2020	2021						
			GAUTAMBUDHNAGAR	13	19	MUZAFARNAGAR	38	15
AGRA	7	0	GAZIPUR	9	10	PILHIBHIT	15	205
ALIGARH	112	38	GHAZIABAD	20	11	PRATAPGARH	30	19
ALLAHABAD	25	11	GONDA	12	8	RAIBEARELI	14	36
AMBEDKARNAGAR	14	11	GORAKHPUR	35	19	RAMPUR	153	183
AMETHI	3	13	HAMIRPUR	3	0	SAMBHAL	18	14
AMROHA	10	6	HAPUR	22	8	SANTKABIRNAGAR	24	14
AURAIYA	76	49	HARDOI	92	90	SANTRAVIDASNAGAR	4	1
AZAMGARH	41	3	HATHRAS	0	0	SHAHJAHANPUR	120	393
BADAUN	13	16	JALAUN	37	0	SHAMLI	45	31
BAGHPAT	14	8	JAUNPUR	33	12	SHARANPUR	92	63
BAHRAICH	104	50	JHANSI	234	69	SHRAWASTI	43	33
BALLIA	52	13	KANNAUJ	31	6	SIDDHARTHANAGAR	58	101
BALRAMPUR	62	17	KANPUR	27	30	SITAPUR	51	44
BANDA	19	5	KANPUR DEHAT	69	37	SONBHADRA	0	0
BARABANKI	33	56	KASGANJ	2	2	SULTANPUR	2	14
BAREILLY	67	55	KAUSHAMBI	49	63	UNNAO	40	23
BASTI	51	42	KHERI	129	150	VARANASI	1	2
BIJNOR	33	32	KUSHINAGAR	58	12	Total	3134	2788
BULANDSAHAR	50	5	LALITPUR	3	6			
CHANDAULI	3	0	LUCKNOW	35	32			
CHITRAKOOT	12	9	MAHARAJGANJ	37	74			
DEORIA	67	9	MAHOBA	27	0			
ETAH	17	10	MAINPURI	60	43			
ETAWAH	65	54	MATHURA	159	236			
FAIZABAD	8	4	MAU	15	9			
FARRUKHABAD	4	3	MEERUT	53	18			
FATEHPUR	105	79	MIRZAPUR	7	8			
FIROZABAD	26	17	MORADABAD	22	10			

(d) Delhi

District	15 Sep – 19 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 – 19 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	160	111
HANUMANGARH	740	702
JAIPUR	4	0
JAISELMER	5	0
JALOR	2	0
JHALAWAR	8	1
JHUNJHUNUN	1	0
JODHPUR	4	0
KARALI	1	0
KOTA	116	56
NAGPUR	3	0
PALI	8	0
PRATAPGARH	8	0
RAJSMAND	1	0
SIKAR	0	0
SIROHI	2	0
SWAIMADHOPUR	65	34
TONK	5	0
UDAIPUR	1	1
Total	1460	1015

(f) Madhya Pradesh

District	15 Sep – 19 Nov				
	2020	2021			
			PANNA	49	17
ALIRAJPUR	0	0	RAISEN	580	261
ANUPPUR	0	1	RAJGARH	10	3
ASHOKNAGAR	152	85	RATLAM	3	5
BALAGHAT	5	4	REWA	124	61
BARWANI	3	0	SAGAR	28	30
BETUL	36	14	SATNA	543	284
BHIND	251	127	SEHORE	150	134
BHOPAL	49	33	SEONI	1228	881
BURHANPUR	13	1	SHAHDOL	3	0
CHHATARPUR	7	0	SHAJAPUR	17	0
CHHINDWARA	127	53	SHEOPUR	1799	938
DAMOH	73	51	SHIVPURI	333	52
DATIA	1178	441	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	4
GUNA	67	9	VIDESHA	133	86
GWALIOR	1944	387	WEST NIMAR	61	10
HARDA	14	21	Total	12955	6036
HOSHANGABAD	1055	1056			
INDORE	4	0			
JABALPUR	2045	640			
JHABUA	0	0			
KATNI	290	69			
MANDLA	141	95			
MANDSAUR	12	0			
MORENA	62	37			
NARSHIMAPURA	266	133			
NIMACH	2	0			

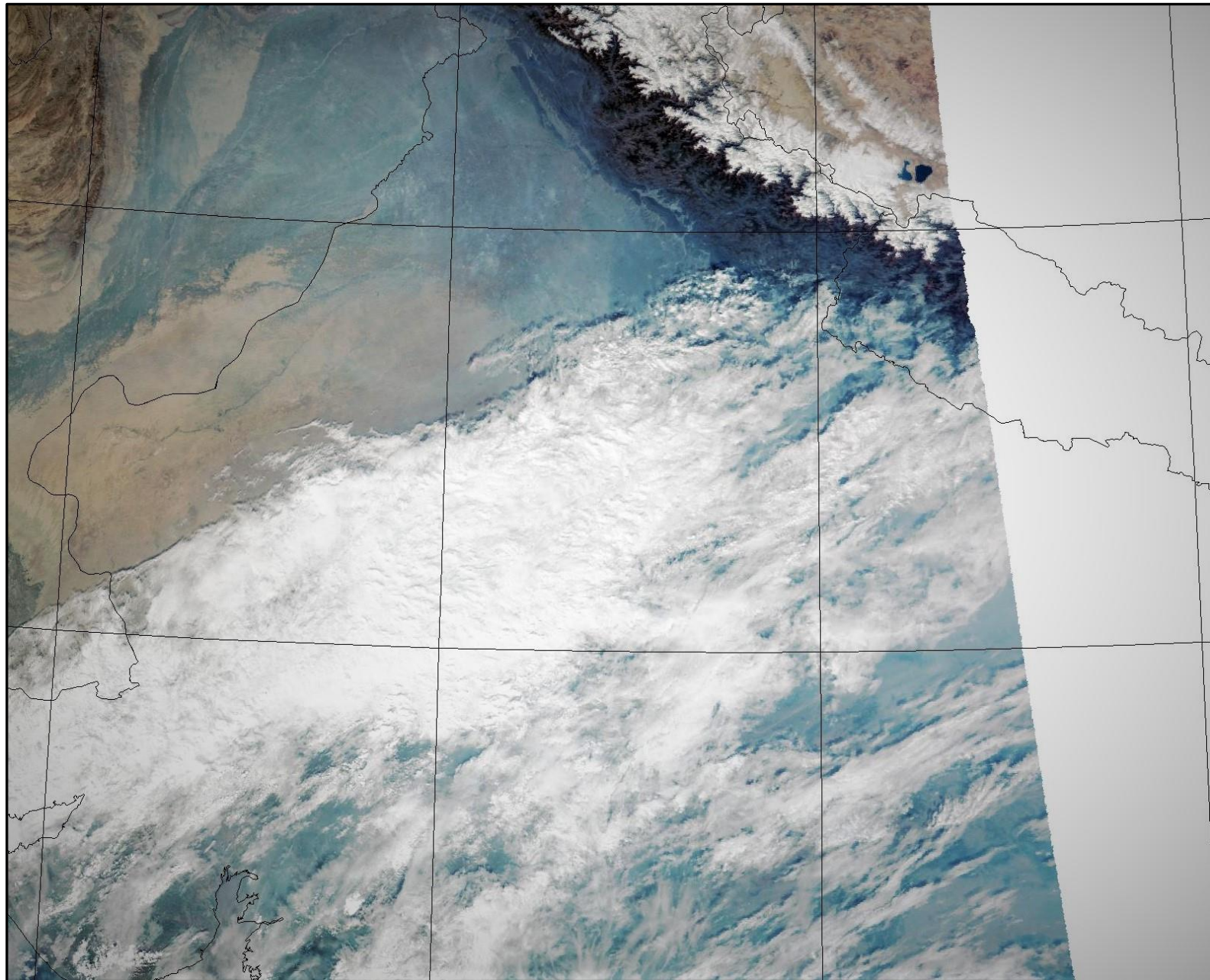
State-wise and date-wise number of paddy residue burning events detected in 2020 and 2021
(Period: 15 September – 19 November)

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
Total	81470	70573	3807	6337	3134	2788	9	4	1460	1015	12955	6036

SNPP (VIIRS) Satellite image (TCC) of North and Central India Acquired on 19-Nov-2021 at 14:01:00 IST by IARI Ground Station



Details of residue burning events in Punjab on 19-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	S-NPP	31.87270	74.74650	11/19/2021	14:07:52	D	4.00
2	AMRITSAR	ATTARI	S-NPP	31.61160	74.68960	11/19/2021	12:28:17	D	6.40
3	AMRITSAR	CHOGAWAN	S-NPP	31.69100	74.56510	11/19/2021	14:07:52	D	7.80
4	AMRITSAR	CHOGAWAN	S-NPP	31.79730	74.57120	11/19/2021	14:07:52	D	11.60
5	AMRITSAR	CHOGAWAN	S-NPP	31.79880	74.56980	11/19/2021	14:07:52	D	6.30
6	AMRITSAR	CHOGAWAN	S-NPP	31.79940	74.57620	11/19/2021	14:07:52	D	8.60
7	BARNALA	BARNALA	S-NPP	30.25080	75.41790	11/19/2021	12:28:17	D	4.30
8	BARNALA	SEHNA	S-NPP	30.25420	75.39390	11/19/2021	14:07:52	D	2.10
9	BARNALA	SEHNA	S-NPP	30.25930	75.39330	11/19/2021	14:07:52	D	2.10
10	BARNALA	SEHNA	S-NPP	30.35430	75.45970	11/19/2021	14:07:52	D	3.70
11	BARNALA	SEHNA	S-NPP	30.35460	75.46320	11/19/2021	14:07:52	D	7.40
12	BARNALA	SEHNA	S-NPP	30.39820	75.32950	11/19/2021	14:07:52	D	1.80
13	BARNALA	SEHNA	S-NPP	30.43110	75.29190	11/19/2021	14:07:52	D	6.40
14	BARNALA	SEHNA	S-NPP	30.48940	75.31680	11/19/2021	14:07:52	D	3.10
15	BATHINDA	BATHINDA	S-NPP	30.12890	75.09660	11/19/2021	14:07:52	D	6.80
16	BATHINDA	BHAGTA BHAI KA	S-NPP	30.45530	75.15210	11/19/2021	14:07:52	D	11.20
17	BATHINDA	BHAGTA BHAI KA	S-NPP	30.47770	75.17670	11/19/2021	14:07:52	D	5.60
18	BATHINDA	BHAGTA BHAI KA	AQUA	30.47300	75.17100	11/19/2021	14:15:12	D	27.80
19	BATHINDA	GONIANA MANDI	S-NPP	30.35000	74.92050	11/19/2021	14:07:52	D	3.60
20	BATHINDA	NATHANA	S-NPP	30.34180	75.05870	11/19/2021	14:07:52	D	4.10
21	BATHINDA	NATHANA	S-NPP	30.35290	75.07080	11/19/2021	14:07:52	D	16.60
22	BATHINDA	NATHANA	AQUA	30.32400	75.03800	11/19/2021	14:15:12	D	25.60
23	BATHINDA	NATHANA	AQUA	30.33800	75.03600	11/19/2021	14:15:12	D	37.90
24	BATHINDA	PHUL	S-NPP	30.28830	75.19150	11/19/2021	14:07:52	D	10.50
25	BATHINDA	PHUL	S-NPP	30.29040	75.15780	11/19/2021	14:07:52	D	18.70
26	BATHINDA	RAMPURA	S-NPP	30.20100	75.30680	11/19/2021	14:07:52	D	2.10
27	BATHINDA	RAMPURA	S-NPP	30.22830	75.28740	11/19/2021	12:28:17	D	7.40
28	BATHINDA	RAMPURA	S-NPP	30.22900	75.21100	11/19/2021	14:07:52	D	8.70
29	BATHINDA	RAMPURA	S-NPP	30.22950	75.28010	11/19/2021	14:07:52	D	4.30

30	BATHINDA	RAMPURA	S-NPP	30.22980	75.28350	11/19/2021	14:07:52	D	5.30
31	BATHINDA	RAMPURA	S-NPP	30.24010	75.22330	11/19/2021	14:07:52	D	8.90
32	BATHINDA	SANGAT	S-NPP	30.08040	74.70470	11/19/2021	14:07:52	D	4.20
33	BATHINDA	SANGAT	S-NPP	30.14850	74.66420	11/19/2021	14:07:52	D	5.50
34	BATHINDA	TALWANDI SABO	S-NPP	30.03070	75.12220	11/19/2021	14:07:52	D	10.30
35	BATHINDA	TALWANDI SABO	S-NPP	30.05160	75.01310	11/19/2021	14:07:52	D	13.20
36	FARIDKOT	FARIDKOT	S-NPP	30.60800	74.74640	11/19/2021	14:07:52	D	4.10
37	FARIDKOT	FARIDKOT	S-NPP	30.61290	74.74590	11/19/2021	14:07:52	D	3.50
38	FARIDKOT	FARIDKOT	AQUA	30.68200	74.66200	11/19/2021	14:15:12	D	19.30
39	FARIDKOT	FARIDKOT	AQUA	30.71200	74.57600	11/19/2021	14:15:12	D	16.50
40	FARIDKOT	JAITON	S-NPP	30.41220	74.99730	11/19/2021	14:07:52	D	3.90
41	FARIDKOT	JAITON	S-NPP	30.41530	74.85390	11/19/2021	14:07:52	D	3.40
42	FARIDKOT	JAITON	S-NPP	30.42020	74.85340	11/19/2021	14:07:52	D	3.90
43	FARIDKOT	JAITON	S-NPP	30.46580	74.86150	11/19/2021	14:07:52	D	2.80
44	FARIDKOT	JAITON	S-NPP	30.47840	75.00130	11/19/2021	12:28:17	D	4.40
45	FARIDKOT	KOT KAPURA	S-NPP	30.55140	74.72070	11/19/2021	14:07:52	D	9.40
46	FARIDKOT	KOT KAPURA	S-NPP	30.55420	74.72190	11/19/2021	14:07:52	D	7.30
47	FARIDKOT	KOT KAPURA	S-NPP	30.67050	74.95370	11/19/2021	14:07:52	D	8.00
48	FARIDKOT	KOT KAPURA	S-NPP	30.67060	74.95330	11/19/2021	14:07:52	D	5.60
49	FARIDKOT	KOT KAPURA	AQUA	30.62400	74.88000	11/19/2021	14:15:12	D	19.50
50	FARIDKOT	KOT KAPURA	AQUA	30.63200	74.90000	11/19/2021	14:15:12	D	21.50
51	FATEHGARH SAHIB	AMLOH	S-NPP	30.56710	76.26810	11/19/2021	14:07:52	D	4.20
52	FATEHGARH SAHIB	AMLOH	S-NPP	30.57090	76.20210	11/19/2021	14:07:52	D	1.60
53	FATEHGARH SAHIB	KHAMANON	S-NPP	30.79810	76.34660	11/19/2021	14:07:52	D	2.20
54	FATEHGARH SAHIB	KHAMANON	S-NPP	30.79940	76.34370	11/19/2021	14:07:52	D	1.90
55	FATEHGARH SAHIB	KHAMANON	S-NPP	30.81340	76.31040	11/19/2021	14:07:52	D	2.30
56	FATEHGARH SAHIB	SIRHIND	S-NPP	30.47450	76.36860	11/19/2021	14:07:52	D	6.30
57	FATEHGARH SAHIB	SIRHIND	S-NPP	30.47800	76.36440	11/19/2021	14:07:52	D	5.00

58	FATEHGARH SAHIB	SIRHIND	S-NPP	30.47830	76.36840	11/19/2021	14:07:52	D	6.40
59	FATEHGARH SAHIB	SIRHIND	S-NPP	30.47970	76.36420	11/19/2021	14:07:52	D	5.70
60	FATEHGARH SAHIB	SIRHIND	S-NPP	30.52070	76.48090	11/19/2021	14:07:52	D	5.30
61	FATEHGARH SAHIB	SIRHIND	S-NPP	30.52670	76.33600	11/19/2021	14:07:52	D	4.60
62	FATEHGARH SAHIB	SIRHIND	S-NPP	30.55610	76.36520	11/19/2021	14:07:52	D	11.10
63	FATEHGARH SAHIB	SIRHIND	S-NPP	30.55640	76.36910	11/19/2021	14:07:52	D	20.10
64	FATEHGARH SAHIB	SIRHIND	S-NPP	30.57060	76.26870	11/19/2021	14:07:52	D	6.00
65	FAZILKA	ABOHAR	S-NPP	30.12970	74.33260	11/19/2021	14:07:52	D	6.00
66	FAZILKA	ABOHAR	S-NPP	30.13230	74.36210	11/19/2021	14:07:52	D	9.80
67	FAZILKA	ABOHAR	S-NPP	30.18570	74.20870	11/19/2021	14:07:52	D	5.80
68	FAZILKA	ABOHAR	S-NPP	30.21270	74.35160	11/19/2021	14:07:52	D	6.30
69	FAZILKA	ABOHAR	AQUA	30.12300	74.32300	11/19/2021	14:15:12	D	14.60
70	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.31590	74.20780	11/19/2021	14:07:52	D	5.20
71	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.37340	74.15450	11/19/2021	14:07:52	D	4.10
72	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.38900	74.16180	11/19/2021	14:07:52	D	3.20
73	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.40800	74.15960	11/19/2021	14:07:52	D	7.10
74	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.42790	74.16900	11/19/2021	14:07:52	D	5.50
75	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.44310	74.17900	11/19/2021	14:07:52	D	4.00
76	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.44840	74.18430	11/19/2021	14:07:52	D	35.60
77	FAZILKA	ARNIWALA SHEIKH SUBANPUR	AQUA	30.40400	74.14900	11/19/2021	14:15:12	D	191.60
78	FAZILKA	FAZILKA	S-NPP	30.36760	74.09140	11/19/2021	14:07:52	D	7.20
79	FAZILKA	FAZILKA	S-NPP	30.38340	73.93230	11/19/2021	14:07:52	D	32.40
80	FAZILKA	FAZILKA	S-NPP	30.38520	73.97470	11/19/2021	14:07:52	D	4.60

81	FAZILKA	FAZILKA	S-NPP	30.38570	73.92920	11/19/2021	14:07:52	D	11.10
82	FAZILKA	FAZILKA	S-NPP	30.38620	73.93480	11/19/2021	14:07:52	D	11.20
83	FAZILKA	FAZILKA	S-NPP	30.38990	73.97410	11/19/2021	14:07:52	D	10.80
84	FAZILKA	FAZILKA	S-NPP	30.39160	73.97110	11/19/2021	14:07:52	D	21.70
85	FAZILKA	FAZILKA	S-NPP	30.40010	74.13410	11/19/2021	14:07:52	D	5.60
86	FAZILKA	FAZILKA	S-NPP	30.45600	74.00360	11/19/2021	14:07:52	D	3.50
87	FAZILKA	FAZILKA	S-NPP	30.48150	74.02370	11/19/2021	14:07:52	D	8.80
88	FAZILKA	FAZILKA	S-NPP	30.48390	74.02700	11/19/2021	14:07:52	D	8.90
89	FAZILKA	FAZILKA	S-NPP	30.49100	74.07450	11/19/2021	14:07:52	D	7.80
90	FAZILKA	FAZILKA	AQUA	30.38500	73.92400	11/19/2021	14:15:12	D	29.10
91	FAZILKA	FAZILKA	AQUA	30.38600	73.93000	11/19/2021	14:15:12	D	21.90
92	FAZILKA	FAZILKA	AQUA	30.45900	74.02800	11/19/2021	14:15:12	D	20.70
93	FAZILKA	JALALABAD	S-NPP	30.44200	74.22040	11/19/2021	14:07:52	D	4.90
94	FAZILKA	JALALABAD	S-NPP	30.45780	74.23630	11/19/2021	14:07:52	D	7.80
95	FAZILKA	JALALABAD	S-NPP	30.46090	74.27150	11/19/2021	14:07:52	D	9.30
96	FAZILKA	JALALABAD	S-NPP	30.46450	74.31280	11/19/2021	14:07:52	D	4.20
97	FAZILKA	JALALABAD	S-NPP	30.46720	74.28870	11/19/2021	14:07:52	D	10.10
98	FAZILKA	JALALABAD	S-NPP	30.46770	74.29460	11/19/2021	14:07:52	D	10.10
99	FAZILKA	JALALABAD	S-NPP	30.51070	74.23630	11/19/2021	14:07:52	D	8.10
100	FAZILKA	JALALABAD	S-NPP	30.51120	74.24220	11/19/2021	14:07:52	D	8.10
101	FAZILKA	JALALABAD	S-NPP	30.51160	74.24010	11/19/2021	14:07:52	D	12.30
102	FAZILKA	JALALABAD	S-NPP	30.51390	74.32530	11/19/2021	14:07:52	D	3.20
103	FAZILKA	JALALABAD	S-NPP	30.51960	74.33480	11/19/2021	14:07:52	D	2.70
104	FAZILKA	JALALABAD	S-NPP	30.52790	74.37610	11/19/2021	14:07:52	D	4.50
105	FAZILKA	JALALABAD	S-NPP	30.52840	74.37790	11/19/2021	14:07:52	D	9.90
106	FAZILKA	JALALABAD	S-NPP	30.52840	74.38210	11/19/2021	14:07:52	D	3.60
107	FAZILKA	JALALABAD	S-NPP	30.53390	74.33320	11/19/2021	14:07:52	D	3.90
108	FAZILKA	JALALABAD	S-NPP	30.53420	74.33510	11/19/2021	14:07:52	D	5.40
109	FAZILKA	JALALABAD	S-NPP	30.54330	74.38650	11/19/2021	14:07:52	D	9.90
110	FAZILKA	JALALABAD	S-NPP	30.57300	74.17400	11/19/2021	14:07:52	D	12.90
111	FAZILKA	JALALABAD	S-NPP	30.57410	74.18570	11/19/2021	14:07:52	D	28.00
112	FAZILKA	JALALABAD	S-NPP	30.57880	74.18520	11/19/2021	14:07:52	D	28.00
113	FAZILKA	JALALABAD	S-NPP	30.61210	74.23380	11/19/2021	14:07:52	D	8.30

114	FAZILKA	JALALABAD	S-NPP	30.61210	74.23470	11/19/2021	14:07:52	D	6.90
115	FAZILKA	JALALABAD	S-NPP	30.62430	74.20960	11/19/2021	14:07:52	D	17.40
116	FAZILKA	JALALABAD	S-NPP	30.62440	74.20860	11/19/2021	14:07:52	D	24.90
117	FAZILKA	JALALABAD	S-NPP	30.63970	74.21870	11/19/2021	14:07:52	D	8.80
118	FAZILKA	JALALABAD	S-NPP	30.64070	74.23050	11/19/2021	14:07:52	D	2.80
119	FAZILKA	JALALABAD	AQUA	30.51200	74.32500	11/19/2021	14:15:12	D	14.60
120	FAZILKA	JALALABAD	AQUA	30.51200	74.34100	11/19/2021	14:15:12	D	14.20
121	FAZILKA	JALALABAD	AQUA	30.61600	74.20600	11/19/2021	14:15:12	D	23.50
122	FAZILKA	KHUIAN SARWAR	S-NPP	30.25130	74.03230	11/19/2021	14:07:52	D	4.70
123	FAZILKA	KHUIAN SARWAR	S-NPP	30.25490	74.02050	11/19/2021	14:07:52	D	1.70
124	FAZILKA	KHUIAN SARWAR	S-NPP	30.29790	74.00180	11/19/2021	14:07:52	D	7.40
125	FAZILKA	KHUIAN SARWAR	S-NPP	30.34310	74.03090	11/19/2021	14:07:52	D	5.80
126	FAZILKA	KHUIAN SARWAR	AQUA	30.26200	73.99600	11/19/2021	14:15:12	D	21.80
127	FIROZPUR	FIROZPUR	S-NPP	30.99600	74.61620	11/19/2021	14:07:52	D	4.70
128	FIROZPUR	GHALL KHURD	S-NPP	30.80320	74.84640	11/19/2021	14:07:52	D	3.30
129	FIROZPUR	GHALL KHURD	S-NPP	30.87040	74.81330	11/19/2021	14:07:52	D	9.70
130	FIROZPUR	GHALL KHURD	S-NPP	30.87090	74.81120	11/19/2021	14:07:52	D	10.40
131	FIROZPUR	GHALL KHURD	AQUA	30.88800	74.69700	11/19/2021	14:15:12	D	16.50
132	FIROZPUR	GHALL KHURD	AQUA	30.89200	74.86000	11/19/2021	14:15:12	D	28.30
133	FIROZPUR	GHALL KHURD	AQUA	30.90000	74.85200	11/19/2021	14:15:12	D	18.60
134	FIROZPUR	GURUHAR SAHAI	S-NPP	30.57980	74.30400	11/19/2021	14:07:52	D	8.20
135	FIROZPUR	GURUHAR SAHAI	S-NPP	30.59140	74.32680	11/19/2021	14:07:52	D	3.70
136	FIROZPUR	GURUHAR SAHAI	S-NPP	30.59620	74.32630	11/19/2021	14:07:52	D	3.70
137	FIROZPUR	GURUHAR SAHAI	S-NPP	30.59940	74.36210	11/19/2021	14:07:52	D	26.00
138	FIROZPUR	GURUHAR SAHAI	S-NPP	30.59990	74.36810	11/19/2021	14:07:52	D	26.00
139	FIROZPUR	GURUHAR SAHAI	S-NPP	30.60100	74.38010	11/19/2021	14:07:52	D	10.90
140	FIROZPUR	GURUHAR SAHAI	S-NPP	30.60420	74.36160	11/19/2021	14:07:52	D	26.00
141	FIROZPUR	GURUHAR SAHAI	S-NPP	30.60790	74.40370	11/19/2021	14:07:52	D	13.50
142	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61080	74.27570	11/19/2021	14:07:52	D	6.10
143	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61110	74.27660	11/19/2021	14:07:52	D	10.90
144	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61810	74.30490	11/19/2021	14:07:52	D	8.90
145	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61860	74.30570	11/19/2021	14:07:52	D	16.40
146	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61860	74.31080	11/19/2021	14:07:52	D	8.90

147	FIROZPUR	GURUHAR SAHAI	S-NPP	30.61910	74.31170	11/19/2021	14:07:52	D	30.20
148	FIROZPUR	GURUHAR SAHAI	S-NPP	30.62330	74.30520	11/19/2021	14:07:52	D	11.10
149	FIROZPUR	GURUHAR SAHAI	S-NPP	30.62340	74.31030	11/19/2021	14:07:52	D	71.00
150	FIROZPUR	GURUHAR SAHAI	S-NPP	30.62390	74.31120	11/19/2021	14:07:52	D	26.30
151	FIROZPUR	GURUHAR SAHAI	S-NPP	30.62410	74.37670	11/19/2021	14:07:52	D	2.50
152	FIROZPUR	GURUHAR SAHAI	S-NPP	30.62500	74.37750	11/19/2021	14:07:52	D	4.40
153	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63190	74.34640	11/19/2021	14:07:52	D	4.50
154	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63540	74.33910	11/19/2021	14:07:52	D	5.20
155	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63600	74.34510	11/19/2021	14:07:52	D	5.20
156	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63620	74.33990	11/19/2021	14:07:52	D	4.10
157	FIROZPUR	GURUHAR SAHAI	S-NPP	30.63950	74.27250	11/19/2021	14:07:52	D	14.30
158	FIROZPUR	GURUHAR SAHAI	S-NPP	30.65760	74.25850	11/19/2021	14:07:52	D	4.50
159	FIROZPUR	GURUHAR SAHAI	S-NPP	30.66440	74.28160	11/19/2021	14:07:52	D	6.70
160	FIROZPUR	GURUHAR SAHAI	S-NPP	30.66940	74.39600	11/19/2021	14:07:52	D	10.40
161	FIROZPUR	GURUHAR SAHAI	S-NPP	30.67760	74.32230	11/19/2021	14:07:52	D	10.90
162	FIROZPUR	GURUHAR SAHAI	S-NPP	30.67810	74.32830	11/19/2021	14:07:52	D	10.90
163	FIROZPUR	GURUHAR SAHAI	S-NPP	30.68240	74.32170	11/19/2021	14:07:52	D	41.90
164	FIROZPUR	GURUHAR SAHAI	S-NPP	30.68290	74.32770	11/19/2021	14:07:52	D	41.90
165	FIROZPUR	GURUHAR SAHAI	S-NPP	30.68380	74.39440	11/19/2021	14:07:52	D	18.80
166	FIROZPUR	GURUHAR SAHAI	S-NPP	30.68430	74.40040	11/19/2021	14:07:52	D	18.80
167	FIROZPUR	GURUHAR SAHAI	S-NPP	30.75340	74.30600	11/19/2021	14:07:52	D	7.30
168	FIROZPUR	GURUHAR SAHAI	AQUA	30.59300	74.35600	11/19/2021	14:15:12	D	59.00
169	FIROZPUR	GURUHAR SAHAI	AQUA	30.60200	74.35000	11/19/2021	14:15:12	D	35.90
170	FIROZPUR	GURUHAR SAHAI	AQUA	30.60900	74.27700	11/19/2021	14:15:12	D	72.50
171	FIROZPUR	GURUHAR SAHAI	AQUA	30.61100	74.30100	11/19/2021	14:15:12	D	29.10
172	FIROZPUR	GURUHAR SAHAI	AQUA	30.61300	74.28200	11/19/2021	14:15:12	D	54.60
173	FIROZPUR	GURUHAR SAHAI	AQUA	30.61500	74.30600	11/19/2021	14:15:12	D	54.20
174	FIROZPUR	GURUHAR SAHAI	AQUA	30.64300	74.37000	11/19/2021	14:15:12	D	33.10
175	FIROZPUR	GURUHAR SAHAI	AQUA	30.64500	74.39400	11/19/2021	14:15:12	D	35.30
176	FIROZPUR	GURUHAR SAHAI	AQUA	30.67900	74.31700	11/19/2021	14:15:12	D	12.90
177	FIROZPUR	GURUHAR SAHAI	AQUA	30.78100	74.44400	11/19/2021	14:15:12	D	74.70
178	FIROZPUR	MAMDOT	S-NPP	30.78350	74.43070	11/19/2021	14:07:52	D	12.10
179	FIROZPUR	MAMDOT	S-NPP	30.79040	74.45460	11/19/2021	14:07:52	D	6.60

180	FIROZPUR	MAMDOT	AQUA	30.78300	74.46900	11/19/2021	14:15:12	D	14.90
181	FIROZPUR	MAMDOT	AQUA	30.79000	74.43800	11/19/2021	14:15:12	D	56.80
182	FIROZPUR	MAMDOT	AQUA	30.79200	74.46300	11/19/2021	14:15:12	D	37.90
183	GURDASPUR	DERA BABA NANAK	S-NPP	31.98010	74.96630	11/19/2021	14:07:52	D	1.90
184	HOSHIARPUR	HAIJIPUR	S-NPP	31.98870	75.71530	11/19/2021	14:07:52	D	1.10
185	JALANDHAR	ADAMPUR	S-NPP	31.40340	75.72690	11/19/2021	14:07:52	D	2.00
186	JALANDHAR	BHOGPUR	S-NPP	31.51630	75.61090	11/19/2021	14:07:52	D	4.00
187	JALANDHAR	LOHIAN	S-NPP	31.11980	75.20190	11/19/2021	12:28:17	D	4.80
188	JALANDHAR	NAKODAR	S-NPP	31.07480	75.48490	11/19/2021	14:07:52	D	2.40
189	JALANDHAR	NAKODAR	S-NPP	31.08240	75.51660	11/19/2021	14:07:52	D	8.20
190	JALANDHAR	NAKODAR	S-NPP	31.14400	75.50340	11/19/2021	14:07:52	D	8.20
191	JALANDHAR	NAKODAR	S-NPP	31.14430	75.50700	11/19/2021	14:07:52	D	10.90
192	JALANDHAR	NAKODAR	S-NPP	31.14490	75.50340	11/19/2021	14:07:52	D	11.70
193	JALANDHAR	NAKODAR	S-NPP	31.14520	75.50700	11/19/2021	14:07:52	D	12.40
194	JALANDHAR	NAKODAR	S-NPP	31.14920	75.50290	11/19/2021	14:07:52	D	3.10
195	JALANDHAR	NAKODAR	S-NPP	31.19700	75.57100	11/19/2021	14:07:52	D	2.60
196	JALANDHAR	NAKODAR	S-NPP	31.20330	75.58500	11/19/2021	14:07:52	D	2.30
197	JALANDHAR	NAKODAR	AQUA	31.15700	75.54700	11/19/2021	14:15:12	D	23.40
198	JALANDHAR	NAKODAR	AQUA	31.15900	75.57700	11/19/2021	14:15:12	D	40.30
199	JALANDHAR	NAKODAR	AQUA	31.16200	75.56900	11/19/2021	14:15:12	D	51.00
200	JALANDHAR	NUR MAHAL	AQUA	31.10100	75.58200	11/19/2021	14:15:12	D	18.90
201	JALANDHAR	PHILLAUR	S-NPP	31.16370	75.83830	11/19/2021	14:07:52	D	3.20
202	JALANDHAR	RURKA KALAN	S-NPP	31.18740	75.65270	11/19/2021	14:07:52	D	3.50
203	JALANDHAR	SHAHKOT	S-NPP	31.06210	75.25280	11/19/2021	14:07:52	D	1.80
204	JALANDHAR	SHAHKOT	S-NPP	31.11570	75.40930	11/19/2021	14:07:52	D	2.90
205	JALANDHAR	SHAHKOT	S-NPP	31.12090	75.40880	11/19/2021	14:07:52	D	6.40
206	KAPURTHALA	DHILWAN	S-NPP	31.42310	75.32960	11/19/2021	12:28:17	D	4.80
207	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.27590	75.09150	11/19/2021	14:07:52	D	2.20
208	LUDHIANA	DEHLON	S-NPP	30.73570	75.88290	11/19/2021	14:07:52	D	2.20
209	LUDHIANA	DEHLON	S-NPP	30.76420	75.92240	11/19/2021	14:07:52	D	5.80
210	LUDHIANA	DEHLON	S-NPP	30.76540	75.92160	11/19/2021	14:07:52	D	5.60
211	LUDHIANA	DORAHA	S-NPP	30.71820	76.06910	11/19/2021	12:28:17	D	5.80
212	LUDHIANA	DORAHA	S-NPP	30.72130	76.07010	11/19/2021	12:28:17	D	8.00

213	LUDHIANA	DORAHA	S-NPP	30.75230	76.06380	11/19/2021	12:28:17	D	4.10
214	LUDHIANA	KHANNA	S-NPP	30.59300	76.10190	11/19/2021	14:07:52	D	3.60
215	LUDHIANA	KHANNA	S-NPP	30.66790	76.12190	11/19/2021	14:07:52	D	5.70
216	LUDHIANA	KHANNA	S-NPP	30.66980	76.12180	11/19/2021	14:07:52	D	5.90
217	LUDHIANA	KHANNA	S-NPP	30.68790	76.10060	11/19/2021	14:07:52	D	9.30
218	LUDHIANA	KHANNA	S-NPP	30.68810	76.10450	11/19/2021	14:07:52	D	16.60
219	LUDHIANA	LUDHIANA-1	S-NPP	30.85520	75.71930	11/19/2021	14:07:52	D	6.00
220	LUDHIANA	LUDHIANA-1	S-NPP	30.85680	75.96290	11/19/2021	14:07:52	D	4.40
221	LUDHIANA	LUDHIANA-1	S-NPP	30.85800	75.96290	11/19/2021	14:07:52	D	3.70
222	LUDHIANA	LUDHIANA-1	S-NPP	30.87620	75.64760	11/19/2021	14:07:52	D	3.70
223	LUDHIANA	LUDHIANA-2	S-NPP	30.89860	76.09770	11/19/2021	14:07:52	D	3.60
224	LUDHIANA	LUDHIANA-2	S-NPP	31.00500	75.91110	11/19/2021	12:28:17	D	3.10
225	LUDHIANA	MACHHIWARA	S-NPP	30.98230	76.25890	11/19/2021	14:07:52	D	3.00
226	LUDHIANA	PAKHOWAL	S-NPP	30.67060	75.79230	11/19/2021	14:07:52	D	7.50
227	LUDHIANA	PAKHOWAL	S-NPP	30.70260	75.66080	11/19/2021	14:07:52	D	1.70
228	LUDHIANA	PAKHOWAL	S-NPP	30.79290	75.73680	11/19/2021	14:07:52	D	1.60
229	LUDHIANA	PAKHOWAL	S-NPP	30.81390	75.80510	11/19/2021	14:07:52	D	3.30
230	LUDHIANA	SAMRALA	S-NPP	30.83130	76.10780	11/19/2021	14:07:52	D	2.50
231	LUDHIANA	SIDHWAN BET	S-NPP	30.91670	75.43130	11/19/2021	14:07:52	D	4.20
232	LUDHIANA	SIDHWAN BET	S-NPP	30.91690	75.43480	11/19/2021	14:07:52	D	4.20
233	LUDHIANA	SIDHWAN BET	S-NPP	30.94900	75.49440	11/19/2021	14:07:52	D	2.90
234	MANSA	BHIKHI	S-NPP	30.01960	75.48300	11/19/2021	14:07:52	D	11.40
235	MANSA	BHIKHI	S-NPP	30.07100	75.54400	11/19/2021	14:07:52	D	1.60
236	MANSA	BHIKHI	S-NPP	30.08690	75.52670	11/19/2021	14:07:52	D	3.20
237	MANSA	BHIKHI	S-NPP	30.08720	75.53010	11/19/2021	14:07:52	D	3.20
238	MANSA	BHIKHI	S-NPP	30.09040	75.52810	11/19/2021	14:07:52	D	6.50
239	MANSA	BHIKHI	S-NPP	30.15370	75.45730	11/19/2021	14:07:52	D	6.90
240	MANSA	BUDHLADA	S-NPP	29.76190	75.57730	11/19/2021	14:07:52	D	2.30
241	MANSA	BUDHLADA	S-NPP	29.76700	75.57680	11/19/2021	14:07:52	D	2.30
242	MANSA	BUDHLADA	S-NPP	29.78780	75.57820	11/19/2021	14:07:52	D	3.90
243	MANSA	BUDHLADA	S-NPP	29.78890	75.57700	11/19/2021	12:28:17	D	4.10
244	MANSA	BUDHLADA	S-NPP	29.82590	75.70170	11/19/2021	14:07:52	D	1.40
245	MANSA	BUDHLADA	S-NPP	29.82800	75.48740	11/19/2021	12:28:17	D	5.50

246	MANSA	BUDHLADA	S-NPP	29.88840	75.63890	11/19/2021	14:07:52	D	2.50
247	MANSA	BUDHLADA	S-NPP	29.91230	75.46400	11/19/2021	14:07:52	D	2.50
248	MANSA	BUDHLADA	S-NPP	29.91770	75.46690	11/19/2021	14:07:52	D	2.50
249	MANSA	BUDHLADA	S-NPP	29.92280	75.46630	11/19/2021	14:07:52	D	5.20
250	MANSA	BUDHLADA	S-NPP	29.93190	75.71080	11/19/2021	14:07:52	D	6.10
251	MANSA	BUDHLADA	S-NPP	29.93780	75.46140	11/19/2021	14:07:52	D	6.40
252	MANSA	BUDHLADA	AQUA	29.90800	75.46600	11/19/2021	14:15:12	D	68.00
253	MANSA	JHUNIR	S-NPP	29.77190	75.41110	11/19/2021	12:28:17	D	5.50
254	MANSA	JHUNIR	S-NPP	29.77530	75.40810	11/19/2021	12:28:17	D	4.40
255	MANSA	JHUNIR	S-NPP	29.78220	75.41080	11/19/2021	14:07:52	D	2.60
256	MANSA	JHUNIR	S-NPP	29.78670	75.39560	11/19/2021	12:28:17	D	9.00
257	MANSA	MANSA	S-NPP	29.94290	75.46090	11/19/2021	14:07:52	D	7.00
258	MANSA	MANSA	S-NPP	29.96210	75.31520	11/19/2021	12:28:17	D	5.10
259	MANSA	MANSA	S-NPP	29.97900	75.29410	11/19/2021	14:07:52	D	6.30
260	MANSA	MANSA	S-NPP	29.98010	75.29540	11/19/2021	14:07:52	D	6.00
261	MANSA	MANSA	S-NPP	29.99300	75.34170	11/19/2021	14:07:52	D	3.70
262	MANSA	MANSA	S-NPP	30.01940	75.47960	11/19/2021	14:07:52	D	11.40
263	MANSA	MANSA	S-NPP	30.03330	75.46090	11/19/2021	14:07:52	D	2.10
264	MANSA	MANSA	S-NPP	30.03900	75.28120	11/19/2021	14:07:52	D	19.20
265	MANSA	MANSA	S-NPP	30.05180	75.31190	11/19/2021	14:07:52	D	6.10
266	MANSA	MANSA	S-NPP	30.05680	75.31140	11/19/2021	14:07:52	D	1.80
267	MANSA	MANSA	S-NPP	30.08890	75.35380	11/19/2021	14:07:52	D	1.40
268	MANSA	MANSA	S-NPP	30.11690	75.32020	11/19/2021	14:07:52	D	4.40
269	MANSA	SARDULGARH	S-NPP	29.55920	75.26300	11/19/2021	12:28:17	D	8.00
270	MANSA	SARDULGARH	S-NPP	29.56260	75.26120	11/19/2021	12:28:17	D	9.50
271	MANSA	SARDULGARH	S-NPP	29.64970	75.22070	11/19/2021	12:28:17	D	5.10
272	MANSA	SARDULGARH	S-NPP	29.66560	75.32470	11/19/2021	14:07:52	D	7.00
273	MANSA	SARDULGARH	S-NPP	29.66620	75.33140	11/19/2021	14:07:52	D	10.20
274	MANSA	SARDULGARH	S-NPP	29.68760	75.30010	11/19/2021	12:28:17	D	3.70
275	MANSA	SARDULGARH	S-NPP	29.69780	75.29930	11/19/2021	14:07:52	D	6.70
276	MANSA	SARDULGARH	S-NPP	29.73870	75.37350	11/19/2021	12:28:17	D	6.90
277	MANSA	SARDULGARH	S-NPP	29.76010	75.35550	11/19/2021	12:28:17	D	8.50
278	MANSA	SARDULGARH	S-NPP	29.76380	75.35580	11/19/2021	12:28:17	D	7.10

279	MANSA	SARDULGARH	AQUA	29.57700	75.30600	11/19/2021	14:15:12	D	26.70
280	MANSA	SARDULGARH	AQUA	29.58100	75.30100	11/19/2021	14:15:12	D	33.10
281	MANSA	SARDULGARH	AQUA	29.66500	75.29200	11/19/2021	14:15:12	D	28.50
282	MANSA	SARDULGARH	AQUA	29.66700	75.31900	11/19/2021	14:15:12	D	18.00
283	MOGA	BAGHA PURANA	S-NPP	30.69730	75.15110	11/19/2021	14:07:52	D	29.60
284	MOGA	BAGHA PURANA	S-NPP	30.73240	75.03300	11/19/2021	14:07:52	D	4.30
285	MOGA	BAGHA PURANA	S-NPP	30.73860	74.98580	11/19/2021	14:07:52	D	12.40
286	MOGA	BAGHA PURANA	S-NPP	30.73920	74.99240	11/19/2021	14:07:52	D	12.40
287	MOGA	BAGHA PURANA	AQUA	30.73000	74.98900	11/19/2021	14:15:12	D	57.70
288	MOGA	BAGHA PURANA	AQUA	30.73500	74.96900	11/19/2021	14:15:12	D	44.00
289	MOGA	BAGHA PURANA	AQUA	30.73700	74.99500	11/19/2021	14:15:12	D	49.60
290	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.88940	75.34940	11/19/2021	14:07:52	D	5.30
291	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.89450	75.34890	11/19/2021	14:07:52	D	3.80
292	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.91600	75.19580	11/19/2021	14:07:52	D	2.20
293	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.91810	75.19740	11/19/2021	14:07:52	D	2.80
294	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.93450	75.17000	11/19/2021	14:07:52	D	8.80
295	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.93470	75.17340	11/19/2021	14:07:52	D	8.80
296	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.94560	75.31420	11/19/2021	14:07:52	D	9.30
297	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.94590	75.25150	11/19/2021	14:07:52	D	2.00
298	MOGA	MOGA-1	S-NPP	30.70170	75.15730	11/19/2021	14:07:52	D	57.90
299	MOGA	MOGA-1	S-NPP	30.70290	75.15730	11/19/2021	14:07:52	D	29.70
300	MOGA	MOGA-1	S-NPP	30.71980	75.12830	11/19/2021	14:07:52	D	22.00
301	MOGA	MOGA-1	S-NPP	30.75300	75.22540	11/19/2021	14:07:52	D	3.10
302	MOGA	MOGA-1	S-NPP	30.75500	75.18750	11/19/2021	14:07:52	D	3.00
303	MOGA	MOGA-1	S-NPP	30.75530	75.19090	11/19/2021	14:07:52	D	3.60
304	MOGA	MOGA-2	S-NPP	30.77920	74.97420	11/19/2021	12:28:17	D	3.70
305	MOGA	MOGA-2	S-NPP	30.81550	75.06350	11/19/2021	14:07:52	D	5.10
306	MOGA	MOGA-2	S-NPP	30.85830	75.15380	11/19/2021	14:07:52	D	5.20

307	MOGA	MOGA-2	AQUA	30.76000	75.01200	11/19/2021	14:15:12	D	22.70
308	MOGA	NIHAL SINGH	S-NPP	30.55600	75.28070	11/19/2021	14:07:52	D	3.20
309	MOGA	NIHAL SINGH	S-NPP	30.65950	75.24860	11/19/2021	14:07:52	D	1.60
310	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.15940	74.61970	11/19/2021	14:07:52	D	2.60
311	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.28460	74.67940	11/19/2021	14:07:52	D	11.30
312	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.28950	74.67880	11/19/2021	14:07:52	D	11.40
313	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.29510	74.51750	11/19/2021	14:07:52	D	6.10
314	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.29990	74.51700	11/19/2021	14:07:52	D	6.10
315	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.31690	74.56240	11/19/2021	14:07:52	D	8.50
316	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.32580	74.64370	11/19/2021	14:07:52	D	28.00
317	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.36000	74.55150	11/19/2021	14:07:52	D	6.00
318	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.36480	74.55090	11/19/2021	14:07:52	D	5.10
319	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.40090	74.57160	11/19/2021	14:07:52	D	13.00
320	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.40520	74.56500	11/19/2021	14:07:52	D	12.10
321	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.40570	74.57110	11/19/2021	14:07:52	D	23.40
322	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.41760	74.70720	11/19/2021	14:07:52	D	16.00
323	MUKTSAR	KOT BHAI AT GIDDERBAHA	AQUA	30.35100	74.55000	11/19/2021	14:15:12	D	15.70
324	MUKTSAR	LAMBI	S-NPP	29.95900	74.57880	11/19/2021	14:07:52	D	3.20
325	MUKTSAR	LAMBI	S-NPP	29.96170	74.60910	11/19/2021	14:07:52	D	4.20
326	MUKTSAR	LAMBI	S-NPP	29.96280	74.56620	11/19/2021	14:07:52	D	3.90
327	MUKTSAR	LAMBI	S-NPP	29.96550	74.59640	11/19/2021	14:07:52	D	14.40
328	MUKTSAR	LAMBI	S-NPP	29.99980	74.54390	11/19/2021	14:07:52	D	3.80
329	MUKTSAR	LAMBI	S-NPP	30.07360	74.46060	11/19/2021	14:07:52	D	5.60
330	MUKTSAR	LAMBI	S-NPP	30.09450	74.58580	11/19/2021	14:07:52	D	12.20

331	MUKTSAR	LAMBI	S-NPP	30.10530	74.59690	11/19/2021	14:07:52	D	6.10
332	MUKTSAR	LAMBI	S-NPP	30.11540	74.54680	11/19/2021	14:07:52	D	10.40
333	MUKTSAR	LAMBI	AQUA	29.96400	74.56900	11/19/2021	14:15:12	D	15.60
334	MUKTSAR	LAMBI	AQUA	29.96600	74.59300	11/19/2021	14:15:12	D	33.30
335	MUKTSAR	LAMBI	AQUA	30.09300	74.59100	11/19/2021	14:15:12	D	48.20
336	MUKTSAR	LAMBI	AQUA	30.09800	74.59500	11/19/2021	14:15:12	D	78.20
337	MUKTSAR	MALOUT	S-NPP	30.15810	74.49130	11/19/2021	14:07:52	D	15.00
338	MUKTSAR	MALOUT	S-NPP	30.16670	74.37010	11/19/2021	14:07:52	D	4.30
339	MUKTSAR	MALOUT	S-NPP	30.20870	74.35350	11/19/2021	14:07:52	D	3.30
340	MUKTSAR	MALOUT	S-NPP	30.24330	74.42610	11/19/2021	14:07:52	D	13.60
341	MUKTSAR	MALOUT	S-NPP	30.28120	74.30820	11/19/2021	14:07:52	D	4.70
342	MUKTSAR	MALOUT	S-NPP	30.31550	74.42820	11/19/2021	14:07:52	D	10.80
343	MUKTSAR	MALOUT	S-NPP	30.31640	74.43010	11/19/2021	14:07:52	D	14.90
344	MUKTSAR	MALOUT	S-NPP	30.31970	74.46610	11/19/2021	14:07:52	D	7.60
345	MUKTSAR	MALOUT	S-NPP	30.32030	74.42770	11/19/2021	14:07:52	D	10.80
346	MUKTSAR	MALOUT	S-NPP	30.32080	74.43370	11/19/2021	14:07:52	D	15.10
347	MUKTSAR	MALOUT	S-NPP	30.32120	74.42960	11/19/2021	14:07:52	D	14.90
348	MUKTSAR	MALOUT	S-NPP	30.32330	74.46370	11/19/2021	14:07:52	D	12.00
349	MUKTSAR	MALOUT	S-NPP	30.32450	74.46560	11/19/2021	14:07:52	D	7.60
350	MUKTSAR	MALOUT	S-NPP	30.33700	74.39570	11/19/2021	14:07:52	D	3.10
351	MUKTSAR	MALOUT	S-NPP	30.35290	74.41200	11/19/2021	14:07:52	D	9.40
352	MUKTSAR	MALOUT	S-NPP	30.35780	74.35720	11/19/2021	14:07:52	D	5.60
353	MUKTSAR	MALOUT	S-NPP	30.36260	74.35670	11/19/2021	14:07:52	D	5.60
354	MUKTSAR	MALOUT	S-NPP	30.36360	74.36860	11/19/2021	14:07:52	D	4.40
355	MUKTSAR	MALOUT	AQUA	30.31400	74.43200	11/19/2021	14:15:12	D	17.50
356	MUKTSAR	MALOUT	AQUA	30.31600	74.45600	11/19/2021	14:15:12	D	33.60
357	MUKTSAR	MALOUT	AQUA	30.35800	74.34800	11/19/2021	14:15:12	D	46.40
358	MUKTSAR	MALOUT	AQUA	30.36000	74.37100	11/19/2021	14:15:12	D	23.30
359	MUKTSAR	MUKTSAR	S-NPP	30.36430	74.54480	11/19/2021	14:07:52	D	4.30
360	MUKTSAR	MUKTSAR	S-NPP	30.38010	74.39080	11/19/2021	14:07:52	D	13.30
361	MUKTSAR	MUKTSAR	S-NPP	30.40690	74.37330	11/19/2021	14:07:52	D	3.30
362	MUKTSAR	MUKTSAR	S-NPP	30.42240	74.53850	11/19/2021	14:07:52	D	3.40
363	MUKTSAR	MUKTSAR	S-NPP	30.44560	74.54580	11/19/2021	14:07:52	D	10.30

364	MUKTSAR	MUKTSAR	S-NPP	30.45140	74.44090	11/19/2021	14:07:52	D	13.50
365	MUKTSAR	MUKTSAR	S-NPP	30.45960	74.36740	11/19/2021	14:07:52	D	11.90
366	MUKTSAR	MUKTSAR	S-NPP	30.48150	74.62260	11/19/2021	14:07:52	D	6.00
367	MUKTSAR	MUKTSAR	S-NPP	30.48370	74.59120	11/19/2021	14:07:52	D	15.50
368	MUKTSAR	MUKTSAR	S-NPP	30.50020	74.72450	11/19/2021	12:28:17	D	15.70
369	MUKTSAR	MUKTSAR	S-NPP	30.52670	74.43670	11/19/2021	12:28:17	D	9.00
370	MUKTSAR	MUKTSAR	S-NPP	30.52980	74.51640	11/19/2021	14:07:52	D	5.20
371	MUKTSAR	MUKTSAR	S-NPP	30.53070	74.51180	11/19/2021	14:07:52	D	7.90
372	MUKTSAR	MUKTSAR	S-NPP	30.55910	74.41490	11/19/2021	12:28:17	D	4.90
373	MUKTSAR	MUKTSAR	S-NPP	30.56420	74.51880	11/19/2021	14:07:52	D	3.00
374	MUKTSAR	MUKTSAR	S-NPP	30.58310	74.51060	11/19/2021	14:07:52	D	3.80
375	MUKTSAR	MUKTSAR	S-NPP	30.58390	74.40630	11/19/2021	14:07:52	D	2.80
376	MUKTSAR	MUKTSAR	AQUA	30.36100	74.54100	11/19/2021	14:15:12	D	14.10
377	MUKTSAR	MUKTSAR	AQUA	30.57500	74.45500	11/19/2021	14:15:12	D	23.70
378	PATIALA	NABHA	S-NPP	30.32330	76.13920	11/19/2021	12:28:17	D	10.40
379	PATIALA	NABHA	S-NPP	30.34100	76.15740	11/19/2021	14:07:52	D	1.10
380	PATIALA	NABHA	S-NPP	30.34490	76.06910	11/19/2021	14:07:52	D	6.50
381	PATIALA	NABHA	S-NPP	30.34550	76.11640	11/19/2021	12:28:17	D	12.10
382	PATIALA	NABHA	S-NPP	30.34810	76.06910	11/19/2021	14:07:52	D	6.90
383	PATIALA	NABHA	S-NPP	30.40940	76.10140	11/19/2021	14:07:52	D	11.50
384	PATIALA	NABHA	S-NPP	30.45700	76.30290	11/19/2021	14:07:52	D	1.90
385	PATIALA	NABHA	S-NPP	30.45900	76.30250	11/19/2021	14:07:52	D	2.60
386	PATIALA	NABHA	S-NPP	30.46680	76.10720	11/19/2021	14:07:52	D	8.70
387	PATIALA	NABHA	S-NPP	30.46710	76.11100	11/19/2021	14:07:52	D	22.80
388	PATIALA	NABHA	S-NPP	30.48020	76.21820	11/19/2021	14:07:52	D	2.50
389	PATIALA	NABHA	S-NPP	30.48440	76.27650	11/19/2021	14:07:52	D	3.10
390	PATIALA	NABHA	S-NPP	30.48460	76.28050	11/19/2021	14:07:52	D	4.00
391	PATIALA	NABHA	S-NPP	30.49040	76.20940	11/19/2021	14:07:52	D	2.30
392	PATIALA	NABHA	S-NPP	30.51670	76.27360	11/19/2021	14:07:52	D	3.80
393	PATIALA	NABHA	S-NPP	30.53800	76.26770	11/19/2021	14:07:52	D	2.00
394	PATIALA	NABHA	S-NPP	30.53900	76.20890	11/19/2021	14:07:52	D	2.30
395	PATIALA	PATRAN	S-NPP	29.98000	76.12880	11/19/2021	14:07:52	D	1.90
396	PATIALA	SAMANA	S-NPP	30.11900	76.14550	11/19/2021	14:07:52	D	9.50

397	PATIALA	SAMANA	S-NPP	30.11930	76.14930	11/19/2021	14:07:52	D	9.50
398	PATIALA	SAMANA	S-NPP	30.13040	76.11280	11/19/2021	14:07:52	D	3.40
399	PATIALA	SAMANA	S-NPP	30.18720	76.08460	11/19/2021	14:07:52	D	2.20
400	PATIALA	SAMANA	S-NPP	30.23960	76.16680	11/19/2021	14:07:52	D	3.40
401	PATIALA	SANAUR	S-NPP	30.26810	76.36740	11/19/2021	14:07:52	D	6.90
402	PATIALA	SANAUR	S-NPP	30.27000	76.36690	11/19/2021	14:07:52	D	7.70
403	PATIALA	SANAUR	S-NPP	30.28130	76.37370	11/19/2021	14:07:52	D	2.70
404	PATIALA	SANAUR	S-NPP	30.32320	76.42560	11/19/2021	14:07:52	D	7.00
405	RUPNAGAR	RUPNAGAR	S-NPP	30.97390	76.46670	11/19/2021	14:07:52	D	2.40
406	SANGRUR	ANDANA	S-NPP	29.79200	75.94560	11/19/2021	14:07:52	D	8.70
407	SANGRUR	ANDANA	S-NPP	29.79810	75.95600	11/19/2021	14:07:52	D	1.00
408	SANGRUR	ANDANA	S-NPP	29.81670	75.92250	11/19/2021	14:07:52	D	1.60
409	SANGRUR	ANDANA	S-NPP	29.88180	76.01210	11/19/2021	14:07:52	D	1.30
410	SANGRUR	BHAWANIGARH	S-NPP	30.24180	76.16720	11/19/2021	14:07:52	D	2.50
411	SANGRUR	BHAWANIGARH	S-NPP	30.24510	76.14010	11/19/2021	14:07:52	D	8.70
412	SANGRUR	BHAWANIGARH	S-NPP	30.24840	76.13910	11/19/2021	14:07:52	D	10.30
413	SANGRUR	BHAWANIGARH	S-NPP	30.25930	76.06950	11/19/2021	14:07:52	D	4.30
414	SANGRUR	BHAWANIGARH	S-NPP	30.25960	76.07320	11/19/2021	14:07:52	D	4.30
415	SANGRUR	DIRBA	S-NPP	29.96160	75.95840	11/19/2021	14:07:52	D	4.30
416	SANGRUR	DIRBA	S-NPP	30.09400	76.09850	11/19/2021	14:07:52	D	1.80
417	SANGRUR	DIRBA	AQUA	30.14500	76.01700	11/19/2021	14:15:12	D	39.60
418	SANGRUR	LEHRA GAGA	S-NPP	29.84490	75.81070	11/19/2021	14:07:52	D	3.10
419	SANGRUR	LEHRA GAGA	S-NPP	29.84800	75.85020	11/19/2021	14:07:52	D	5.80
420	SANGRUR	LEHRA GAGA	S-NPP	29.87780	75.82920	11/19/2021	14:07:52	D	3.50
421	SANGRUR	LEHRA GAGA	S-NPP	29.88250	75.88680	11/19/2021	14:07:52	D	5.30
422	SANGRUR	LEHRA GAGA	S-NPP	29.88280	75.89050	11/19/2021	14:07:52	D	5.30
423	SANGRUR	LEHRA GAGA	S-NPP	29.90040	75.78370	11/19/2021	14:07:52	D	9.00
424	SANGRUR	LEHRA GAGA	S-NPP	29.90080	75.78200	11/19/2021	14:07:52	D	4.80
425	SANGRUR	LEHRA GAGA	S-NPP	29.90100	75.78560	11/19/2021	14:07:52	D	4.80
426	SANGRUR	LEHRA GAGA	S-NPP	29.91250	75.78430	11/19/2021	12:28:17	D	12.20
427	SANGRUR	LEHRA GAGA	S-NPP	29.91930	75.95880	11/19/2021	14:07:52	D	3.90
428	SANGRUR	LEHRA GAGA	S-NPP	29.91980	75.95660	11/19/2021	14:07:52	D	2.00
429	SANGRUR	LEHRA GAGA	S-NPP	29.92010	75.96030	11/19/2021	14:07:52	D	2.00

430	SANGRUR	LEHRA GAGA	S-NPP	29.92850	75.66850	11/19/2021	14:07:52	D	6.10
431	SANGRUR	LEHRA GAGA	S-NPP	29.93160	75.70730	11/19/2021	14:07:52	D	6.10
432	SANGRUR	LEHRA GAGA	S-NPP	29.93250	75.78610	11/19/2021	14:07:52	D	2.10
433	SANGRUR	MALERKOTLA-1	S-NPP	30.47390	75.98460	11/19/2021	14:07:52	D	1.90
434	SANGRUR	MALERKOTLA-1	S-NPP	30.47920	75.98410	11/19/2021	14:07:52	D	7.30
435	SANGRUR	MALERKOTLA-1	S-NPP	30.55140	75.89710	11/19/2021	14:07:52	D	2.40
436	SANGRUR	MALERKOTLA-2	S-NPP	30.58570	75.78980	11/19/2021	14:07:52	D	2.00
437	SANGRUR	SANGRUR	S-NPP	30.21920	75.68700	11/19/2021	14:07:52	D	1.80
438	SANGRUR	SANGRUR	S-NPP	30.22010	75.68580	11/19/2021	14:07:52	D	2.00
439	SANGRUR	SANGRUR	S-NPP	30.24890	75.92780	11/19/2021	14:07:52	D	3.40
440	SANGRUR	SANGRUR	S-NPP	30.26290	75.77070	11/19/2021	12:28:17	D	6.70
441	SANGRUR	SANGRUR	S-NPP	30.26310	75.76840	11/19/2021	12:28:17	D	7.10
442	SANGRUR	SUNAM	S-NPP	30.08070	75.88390	11/19/2021	12:28:17	D	5.10
443	SANGRUR	SUNAM	S-NPP	30.08190	75.88470	11/19/2021	12:28:17	D	4.20
444	SBS NAGAR	AUR	S-NPP	31.07130	75.94160	11/19/2021	14:07:52	D	2.20
445	SBS NAGAR	AUR	S-NPP	31.07270	75.94170	11/19/2021	14:07:52	D	2.50
446	SBS NAGAR	BANGA	S-NPP	31.24340	75.98030	11/19/2021	14:07:52	D	1.90
447	SBS NAGAR	BANGA	S-NPP	31.27030	75.85440	11/19/2021	14:07:52	D	1.40
448	TARN TARAN	TARN TARAN	S-NPP	31.49290	74.91120	11/19/2021	14:07:52	D	10.70

Details of residue burning events in Haryana on 19-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	FATEHABAD	BHUNA	S-NPP	29.50910	75.83440	11/19/2021	14:07:52	D	2.00
2	FATEHABAD	BHUNA	S-NPP	29.51390	75.76270	11/19/2021	14:07:52	D	9.50
3	FATEHABAD	BHUNA	S-NPP	29.55730	75.71960	11/19/2021	14:07:52	D	2.80
4	FATEHABAD	BHUNA	S-NPP	29.55870	75.80090	11/19/2021	14:07:52	D	2.60
5	FATEHABAD	BHUNA	S-NPP	29.55990	75.81510	11/19/2021	14:07:52	D	1.10
6	FATEHABAD	BHUNA	S-NPP	29.59590	75.72530	11/19/2021	14:07:52	D	4.20
7	FATEHABAD	FATEHABAD	S-NPP	29.51530	75.28190	11/19/2021	14:07:52	D	12.80
8	FATEHABAD	FATEHABAD	S-NPP	29.52540	75.46010	11/19/2021	14:07:52	D	10.30
9	FATEHABAD	FATEHABAD	S-NPP	29.54060	75.45850	11/19/2021	14:07:52	D	1.90
10	FATEHABAD	FATEHABAD	S-NPP	29.55690	75.59050	11/19/2021	14:07:52	D	3.80
11	FATEHABAD	FATEHABAD	S-NPP	29.55710	75.59390	11/19/2021	14:07:52	D	7.60
12	FATEHABAD	FATEHABAD	S-NPP	29.57730	75.58850	11/19/2021	14:07:52	D	1.60
13	FATEHABAD	FATEHABAD	S-NPP	29.58380	75.50740	11/19/2021	14:07:52	D	2.80
14	FATEHABAD	FATEHABAD	S-NPP	29.58550	75.33970	11/19/2021	14:07:52	D	15.00
15	FATEHABAD	FATEHABAD	AQUA	29.50500	75.28700	11/19/2021	14:15:12	D	23.40
16	FATEHABAD	FATEHABAD	AQUA	29.51200	75.29400	11/19/2021	14:15:12	D	15.20
17	FATEHABAD	FATEHABAD	AQUA	29.60500	75.30300	11/19/2021	14:15:12	D	21.10
18	FATEHABAD	FATEHABAD	AQUA	29.60900	75.29800	11/19/2021	14:15:12	D	21.60
19	FATEHABAD	RATIA	S-NPP	29.59490	75.58210	11/19/2021	14:07:52	D	1.60
20	FATEHABAD	RATIA	S-NPP	29.63440	75.62320	11/19/2021	14:07:52	D	6.20
21	FATEHABAD	RATIA	S-NPP	29.64720	75.52840	11/19/2021	14:07:52	D	5.30
22	FATEHABAD	RATIA	S-NPP	29.66680	75.57820	11/19/2021	14:07:52	D	3.20
23	FATEHABAD	RATIA	S-NPP	29.67260	75.49310	11/19/2021	14:07:52	D	5.10
24	FATEHABAD	RATIA	S-NPP	29.67780	75.52540	11/19/2021	14:07:52	D	7.90
25	FATEHABAD	RATIA	S-NPP	29.67980	75.39020	11/19/2021	14:07:52	D	3.60
26	FATEHABAD	RATIA	S-NPP	29.68010	75.52320	11/19/2021	14:07:52	D	4.20
27	FATEHABAD	RATIA	S-NPP	29.70030	75.39150	11/19/2021	14:07:52	D	4.40
28	FATEHABAD	RATIA	S-NPP	29.70060	75.39480	11/19/2021	14:07:52	D	4.40
29	FATEHABAD	RATIA	S-NPP	29.70080	75.39820	11/19/2021	14:07:52	D	6.10
30	FATEHABAD	RATIA	S-NPP	29.70560	75.39430	11/19/2021	14:07:52	D	5.40

31	FATEHABAD	RATIA	S-NPP	29.70590	75.39770	11/19/2021	14:07:52	D	7.00
32	FATEHABAD	RATIA	S-NPP	29.70670	75.40770	11/19/2021	14:07:52	D	12.00
33	FATEHABAD	RATIA	S-NPP	29.70730	75.41450	11/19/2021	14:07:52	D	11.90
34	FATEHABAD	RATIA	S-NPP	29.71180	75.40720	11/19/2021	14:07:52	D	12.00
35	FATEHABAD	RATIA	S-NPP	29.71210	75.41060	11/19/2021	14:07:52	D	11.90
36	FATEHABAD	RATIA	S-NPP	29.71740	75.41340	11/19/2021	14:07:52	D	2.80
37	FATEHABAD	RATIA	S-NPP	29.72250	75.41290	11/19/2021	14:07:52	D	2.80
38	FATEHABAD	RATIA	S-NPP	29.74670	75.45810	11/19/2021	14:07:52	D	3.90
39	FATEHABAD	RATIA	S-NPP	29.75290	75.40980	11/19/2021	14:07:52	D	2.20
40	FATEHABAD	RATIA	AQUA	29.59900	75.57900	11/19/2021	14:15:12	D	39.70
41	FATEHABAD	RATIA	AQUA	29.60200	75.57400	11/19/2021	14:15:12	D	38.90
42	FATEHABAD	RATIA	AQUA	29.63000	75.60400	11/19/2021	14:15:12	D	36.70
43	FATEHABAD	RATIA	AQUA	29.63300	75.59900	11/19/2021	14:15:12	D	37.30
44	FATEHABAD	RATIA	AQUA	29.66600	75.48300	11/19/2021	14:15:12	D	59.40
45	FATEHABAD	RATIA	AQUA	29.69600	75.41700	11/19/2021	14:15:12	D	14.00
46	FATEHABAD	RATIA	AQUA	29.70200	75.39700	11/19/2021	14:15:12	D	25.30
47	FATEHABAD	TOHANA	S-NPP	29.58980	75.91940	11/19/2021	14:07:52	D	23.70
48	FATEHABAD	TOHANA	S-NPP	29.58980	75.92380	11/19/2021	14:07:52	D	20.70
49	FATEHABAD	TOHANA	AQUA	29.57800	75.90700	11/19/2021	14:15:12	D	31.10
50	HISAR	BARWALA	S-NPP	29.26480	75.75540	11/19/2021	14:07:52	D	2.50
51	HISAR	BARWALA	S-NPP	29.26620	75.75690	11/19/2021	14:07:52	D	3.90
52	HISAR	BARWALA	S-NPP	29.27080	75.88390	11/19/2021	14:07:52	D	2.70
53	HISAR	HANSI-I	S-NPP	29.18760	76.03170	11/19/2021	14:07:52	D	2.50
54	HISAR	HANSI-II	S-NPP	29.12620	76.25900	11/19/2021	14:07:52	D	4.70
55	HISAR	NARNAUND	S-NPP	29.15480	76.08220	11/19/2021	14:07:52	D	7.70
56	HISAR	NARNAUND	S-NPP	29.20090	76.19210	11/19/2021	14:07:52	D	4.70
57	HISAR	NARNAUND	S-NPP	29.20510	76.19110	11/19/2021	14:07:52	D	4.20
58	HISAR	UKLANA	S-NPP	29.50010	75.78540	11/19/2021	14:07:52	D	6.90
59	HISAR	UKLANA	S-NPP	29.51620	75.79090	11/19/2021	14:07:52	D	2.50
60	HISAR	UKLANA	S-NPP	29.51690	75.93450	11/19/2021	14:07:52	D	2.50
61	JIND	JIND	S-NPP	29.21420	76.28820	11/19/2021	14:07:52	D	4.00
62	JIND	JIND	S-NPP	29.22920	76.29750	11/19/2021	14:07:52	D	9.90
63	JIND	JIND	S-NPP	29.34360	76.42300	11/19/2021	14:07:52	D	3.40

64	JIND	JULANA	S-NPP	29.10950	76.46600	11/19/2021	14:07:52	D	3.10
65	JIND	JULANA	S-NPP	29.12080	76.47260	11/19/2021	14:07:52	D	3.20
66	JIND	JULANA	S-NPP	29.14970	76.49690	11/19/2021	14:07:52	D	3.10
67	JIND	JULANA	S-NPP	29.19770	76.35030	11/19/2021	14:07:52	D	2.20
68	JIND	JULANA	S-NPP	29.20090	76.34960	11/19/2021	14:07:52	D	2.80
69	JIND	JULANA	S-NPP	29.21940	76.45530	11/19/2021	14:07:52	D	2.00
70	JIND	JULANA	S-NPP	29.22230	76.45540	11/19/2021	14:07:52	D	1.90
71	JIND	NARWANA	S-NPP	29.65470	76.00810	11/19/2021	14:07:52	D	2.20
72	JIND	NARWANA	S-NPP	29.65630	76.09690	11/19/2021	14:07:52	D	4.40
73	JIND	NARWANA	S-NPP	29.70210	76.13750	11/19/2021	14:07:52	D	4.30
74	JIND	NARWANA	S-NPP	29.72060	76.10200	11/19/2021	14:07:52	D	9.70
75	JIND	NARWANA	S-NPP	29.72410	76.09660	11/19/2021	14:07:52	D	7.20
76	JIND	NARWANA	S-NPP	29.72440	76.10030	11/19/2021	14:07:52	D	5.70
77	JIND	PILLUKHERA	S-NPP	29.28650	76.51510	11/19/2021	12:28:17	D	5.60
78	JIND	PILLUKHERA	S-NPP	29.40480	76.51470	11/19/2021	14:07:52	D	2.70
79	JIND	PILLUKHERA	S-NPP	29.40510	76.51860	11/19/2021	14:07:52	D	2.70
80	JIND	SAFIDON	S-NPP	29.33640	76.63270	11/19/2021	14:07:52	D	3.10
81	JIND	SAFIDON	S-NPP	29.33710	76.63150	11/19/2021	14:07:52	D	3.30
82	JIND	SAFIDON	S-NPP	29.43840	76.52650	11/19/2021	12:28:17	D	2.60
83	JIND	UCHANA	S-NPP	29.50180	76.26790	11/19/2021	14:07:52	D	4.20
84	JIND	UCHANA	S-NPP	29.56170	76.31050	11/19/2021	14:07:52	D	3.40
85	KAITHAL	RAJOUND	S-NPP	29.58150	76.35860	11/19/2021	14:07:52	D	3.50
86	KARNAL	ASSANDH	S-NPP	29.44020	76.52490	11/19/2021	14:07:52	D	2.10
87	KARNAL	ASSANDH	S-NPP	29.54940	76.59810	11/19/2021	14:07:52	D	3.10
88	KARNAL	ASSANDH	S-NPP	29.54970	76.60200	11/19/2021	14:07:52	D	3.10
89	KARNAL	ASSANDH	S-NPP	29.55050	76.60090	11/19/2021	14:07:52	D	6.10
90	KARNAL	NILOKHERI	S-NPP	29.82010	76.75940	11/19/2021	12:28:17	D	4.70
91	KARNAL	NILOKHERI	S-NPP	29.82250	76.91780	11/19/2021	12:28:17	D	2.70
92	KARNAL	NILOKHERI	S-NPP	29.84390	76.83480	11/19/2021	14:07:52	D	4.60
93	KURUKSHETRA	THANESAR	S-NPP	29.90510	76.84020	11/19/2021	14:07:52	D	4.80
94	KURUKSHETRA	THANESAR	S-NPP	29.90540	76.84440	11/19/2021	14:07:52	D	6.20
95	PANIPAT	ISRANA	S-NPP	29.32930	76.90080	11/19/2021	14:07:52	D	3.80
96	PANIPAT	ISRANA	S-NPP	29.33700	76.92910	11/19/2021	14:07:52	D	5.00

97	PANIPAT	MADLAUDA	S-NPP	29.32400	76.68570	11/19/2021	14:07:52	D	2.00
98	PANIPAT	MADLAUDA	S-NPP	29.42440	76.77250	11/19/2021	14:07:52	D	6.00
99	PANIPAT	MADLAUDA	S-NPP	29.43750	76.79980	11/19/2021	14:07:52	D	5.00
100	ROHTAK	LAKHAN MAJRA	S-NPP	29.06070	76.42180	11/19/2021	14:07:52	D	2.20
101	ROHTAK	MEHAM	S-NPP	28.99090	76.39840	11/19/2021	14:07:52	D	1.90
102	ROHTAK	MEHAM	S-NPP	29.02260	76.41780	11/19/2021	14:07:52	D	4.60
103	SIRSA	DABWALI	AQUA	29.92400	74.57400	11/19/2021	14:15:12	D	18.60
104	SIRSA	ELLENABAD	S-NPP	29.43740	74.89790	11/19/2021	14:07:52	D	12.00
105	SIRSA	ELLENABAD	S-NPP	29.48140	74.78140	11/19/2021	14:07:52	D	6.40
106	SIRSA	ELLENABAD	S-NPP	29.49000	74.76820	11/19/2021	14:07:52	D	9.40
107	SIRSA	ELLENABAD	S-NPP	29.49290	74.76600	11/19/2021	14:07:52	D	7.80
108	SIRSA	ELLENABAD	S-NPP	29.49340	74.77210	11/19/2021	14:07:52	D	9.60
109	SIRSA	ELLENABAD	S-NPP	29.49490	74.76760	11/19/2021	14:07:52	D	9.40
110	SIRSA	ELLENABAD	S-NPP	29.50310	74.77100	11/19/2021	14:07:52	D	14.60
111	SIRSA	ELLENABAD	S-NPP	29.50520	74.77270	11/19/2021	14:07:52	D	10.60
112	SIRSA	ELLENABAD	S-NPP	29.50950	74.76600	11/19/2021	14:07:52	D	5.00
113	SIRSA	NATHUSARI CHOPTA	S-NPP	29.39270	75.19850	11/19/2021	14:07:52	D	7.20
114	SIRSA	NATHUSARI CHOPTA	S-NPP	29.50420	75.26980	11/19/2021	14:07:52	D	4.80
115	SIRSA	NATHUSARI CHOPTA	S-NPP	29.52670	75.23970	11/19/2021	14:07:52	D	16.30
116	SIRSA	NATHUSARI CHOPTA	S-NPP	29.52700	75.24110	11/19/2021	14:07:52	D	14.70
117	SIRSA	NATHUSARI CHOPTA	S-NPP	29.53600	75.28640	11/19/2021	14:07:52	D	3.70
118	SIRSA	NATHUSARI CHOPTA	AQUA	29.50300	75.26000	11/19/2021	14:15:12	D	17.20
119	SIRSA	RANIA	S-NPP	29.46570	74.88230	11/19/2021	14:07:52	D	4.70
120	SIRSA	RANIA	S-NPP	29.47060	74.88180	11/19/2021	14:07:52	D	5.60
121	SIRSA	RANIA	S-NPP	29.50530	74.82830	11/19/2021	14:07:52	D	16.50
122	SIRSA	RANIA	S-NPP	29.50780	74.82620	11/19/2021	14:07:52	D	10.90
123	SIRSA	RANIA	S-NPP	29.54810	74.61360	11/19/2021	14:07:52	D	11.80
124	SIRSA	RANIA	S-NPP	29.55820	74.61860	11/19/2021	14:07:52	D	62.50
125	SIRSA	RANIA	AQUA	29.54400	74.62300	11/19/2021	14:15:12	D	24.40

126	SIRSA	SIRSA	S-NPP	29.43800	74.90410	11/19/2021	14:07:52	D	12.00
127	SIRSA	SIRSA	S-NPP	29.56030	75.15750	11/19/2021	14:07:52	D	6.90
128	SIRSA	SIRSA	AQUA	29.49000	74.92500	11/19/2021	14:15:12	D	21.20
129	SIRSA	SIRSA	AQUA	29.49400	74.93100	11/19/2021	14:15:12	D	34.90
130	SONIPAT	GOHANA	S-NPP	28.99820	76.76870	11/19/2021	14:07:52	D	3.50
131	SONIPAT	GOHANA	S-NPP	29.05180	76.73570	11/19/2021	14:07:52	D	1.70
132	SONIPAT	MUNDLANA	S-NPP	29.18070	76.69090	11/19/2021	14:07:52	D	3.90

Details of residue burning events in Uttar Pradesh on 19-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BALLIA	SIKANDARPUR	S-NPP	26.07580	83.95360	11/19/2021	12:28:17	D	7.90
2	BIJNOR	DHAMPUR	S-NPP	29.19500	78.66610	11/19/2021	12:28:17	D	5.00
3	BIJNOR	DHAMPUR	S-NPP	29.19720	78.66750	11/19/2021	12:28:17	D	4.40
4	CHITRAKOOT	MAU	S-NPP	25.20900	81.31410	11/19/2021	01:17:35	N	0.90
5	HAPUR	HAPUR	S-NPP	28.75360	77.91130	11/19/2021	12:28:17	D	2.80
6	KAUSHAMBI	MANJHANPUR	S-NPP	25.48640	81.25760	11/19/2021	12:28:17	D	2.20
7	MAU	MAU	S-NPP	25.95570	83.72100	11/19/2021	12:28:17	D	4.30
8	MEERUT	SARDHANA	S-NPP	29.13240	77.47110	11/19/2021	14:07:52	D	3.70
9	MIRZAPUR	LALGANJ	S-NPP	24.92650	82.32020	11/19/2021	12:28:17	D	2.00
10	RAIBEARELI	SALON	S-NPP	25.97500	81.52200	11/19/2021	12:28:17	D	2.50
11	SHARANPUR	NAKUR	S-NPP	29.81470	77.31060	11/19/2021	14:07:52	D	2.00

Details of residue burning events in Rajasthan on 19-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	GANGANAGAR	ANAPGARH	S-NPP	29.22200	73.09580	11/19/2021	14:07:52	D	2.70
2	GANGANAGAR	ANAPGARH	S-NPP	29.22490	73.08100	11/19/2021	14:07:52	D	33.90
3	GANGANAGAR	ANAPGARH	S-NPP	29.22640	73.09530	11/19/2021	14:07:52	D	2.70
4	GANGANAGAR	ANAPGARH	AQUA	29.22000	73.08300	11/19/2021	14:15:12	D	71.90
5	GANGANAGAR	ANAPGARH	AQUA	29.22600	73.08800	11/19/2021	14:15:12	D	53.60
6	GANGANAGAR	VIJAY NAGAR	S-NPP	29.23760	73.56340	11/19/2021	14:07:52	D	4.40
7	HANUMANGARH	HANUMANGARH	S-NPP	29.49090	74.14200	11/19/2021	14:07:52	D	8.80
8	HANUMANGARH	HANUMANGARH	S-NPP	29.54930	74.20900	11/19/2021	14:07:52	D	4.90
9	HANUMANGARH	HANUMANGARH	S-NPP	29.55050	74.20600	11/19/2021	14:07:52	D	7.10
10	HANUMANGARH	HANUMANGARH	S-NPP	29.55400	74.20850	11/19/2021	14:07:52	D	6.40
11	HANUMANGARH	HANUMANGARH	S-NPP	29.56190	74.22760	11/19/2021	14:07:52	D	3.20
12	HANUMANGARH	HANUMANGARH	S-NPP	29.57270	74.40600	11/19/2021	14:07:52	D	3.00
13	HANUMANGARH	HANUMANGARH	S-NPP	29.58220	74.24240	11/19/2021	14:07:52	D	8.20
14	HANUMANGARH	HANUMANGARH	S-NPP	29.58270	74.24810	11/19/2021	14:07:52	D	8.20
15	HANUMANGARH	HANUMANGARH	S-NPP	29.59610	74.34490	11/19/2021	14:07:52	D	23.40
16	HANUMANGARH	HANUMANGARH	S-NPP	29.60080	74.34430	11/19/2021	14:07:52	D	23.40
17	HANUMANGARH	HANUMANGARH	S-NPP	29.60710	74.36110	11/19/2021	14:07:52	D	17.40
18	HANUMANGARH	HANUMANGARH	S-NPP	29.61190	74.36060	11/19/2021	14:07:52	D	17.40
19	HANUMANGARH	HANUMANGARH	AQUA	29.48500	74.13800	11/19/2021	14:15:12	D	19.30
20	HANUMANGARH	HANUMANGARH	AQUA	29.48700	74.14300	11/19/2021	14:15:12	D	17.00
21	HANUMANGARH	HANUMANGARH	AQUA	29.57200	74.24000	11/19/2021	14:15:12	D	16.40
22	HANUMANGARH	HANUMANGARH	AQUA	29.58500	74.23800	11/19/2021	14:15:12	D	14.30
23	HANUMANGARH	HANUMANGARH	AQUA	29.62300	74.36400	11/19/2021	14:15:12	D	19.30
24	HANUMANGARH	HANUMANGARH	AQUA	29.62400	74.37200	11/19/2021	14:15:12	D	34.30
25	HANUMANGARH	HANUMANGARH	AQUA	29.62500	74.38800	11/19/2021	14:15:12	D	36.20
26	HANUMANGARH	P LIBANGA	S-NPP	29.39020	73.95080	11/19/2021	14:07:52	D	34.70
27	HANUMANGARH	P LIBANGA	S-NPP	29.39270	73.92860	11/19/2021	14:07:52	D	9.40
28	HANUMANGARH	P LIBANGA	S-NPP	29.39790	73.93350	11/19/2021	14:07:52	D	2.10
29	HANUMANGARH	P LIBANGA	S-NPP	29.41850	74.00240	11/19/2021	14:07:52	D	61.00

30	HANUMANGARH	P LIBANGA	S-NPP	29.44670	74.01870	11/19/2021	14:07:52	D	18.60
31	HANUMANGARH	P LIBANGA	S-NPP	29.45340	74.04010	11/19/2021	14:07:52	D	5.10
32	HANUMANGARH	P LIBANGA	S-NPP	29.45950	74.05610	11/19/2021	14:07:52	D	8.70
33	HANUMANGARH	P LIBANGA	S-NPP	29.46250	74.08920	11/19/2021	14:07:52	D	13.90
34	HANUMANGARH	P LIBANGA	S-NPP	29.47450	74.06540	11/19/2021	14:07:52	D	3.60
35	HANUMANGARH	P LIBANGA	AQUA	29.38900	73.94300	11/19/2021	14:15:12	D	11.70
36	HANUMANGARH	P LIBANGA	AQUA	29.39300	73.95700	11/19/2021	14:15:12	D	36.80
37	HANUMANGARH	P LIBANGA	AQUA	29.40900	73.99800	11/19/2021	14:15:12	D	32.60
38	HANUMANGARH	P LIBANGA	AQUA	29.45100	74.03700	11/19/2021	14:15:12	D	13.30
39	HANUMANGARH	SANGHRIYA	S-NPP	29.62450	74.44720	11/19/2021	14:07:52	D	7.60
40	HANUMANGARH	TIBI	S-NPP	29.49250	74.42360	11/19/2021	14:07:52	D	2.90
41	HANUMANGARH	TIBI	S-NPP	29.53690	74.54290	11/19/2021	14:07:52	D	16.40
42	HANUMANGARH	TIBI	S-NPP	29.53740	74.54880	11/19/2021	14:07:52	D	29.50
43	HANUMANGARH	TIBI	S-NPP	29.56720	74.50380	11/19/2021	14:07:52	D	5.00
44	HANUMANGARH	TIBI	S-NPP	29.57070	74.49480	11/19/2021	14:07:52	D	4.60
45	HANUMANGARH	TIBI	S-NPP	29.57150	74.49740	11/19/2021	14:07:52	D	9.10
46	HANUMANGARH	TIBI	S-NPP	29.57670	74.45260	11/19/2021	14:07:52	D	7.00
47	HANUMANGARH	TIBI	S-NPP	29.57720	74.45530	11/19/2021	14:07:52	D	9.60
48	HANUMANGARH	TIBI	S-NPP	29.57720	74.45850	11/19/2021	14:07:52	D	7.00
49	HANUMANGARH	TIBI	S-NPP	29.57840	74.52040	11/19/2021	14:07:52	D	11.40
50	HANUMANGARH	TIBI	S-NPP	29.58230	74.51730	11/19/2021	14:07:52	D	11.40
51	HANUMANGARH	TIBI	S-NPP	29.58300	74.46970	11/19/2021	14:07:52	D	20.30
52	HANUMANGARH	TIBI	S-NPP	29.58310	74.46640	11/19/2021	14:07:52	D	14.20
53	HANUMANGARH	TIBI	S-NPP	29.58320	74.51980	11/19/2021	14:07:52	D	7.70
54	HANUMANGARH	TIBI	S-NPP	29.58610	74.50500	11/19/2021	14:07:52	D	6.10
55	HANUMANGARH	TIBI	S-NPP	29.58630	74.45160	11/19/2021	14:07:52	D	2.50
56	HANUMANGARH	TIBI	S-NPP	29.58660	74.51090	11/19/2021	14:07:52	D	11.40
57	HANUMANGARH	TIBI	S-NPP	29.58690	74.50750	11/19/2021	14:07:52	D	17.80
58	HANUMANGARH	TIBI	S-NPP	29.59680	74.46220	11/19/2021	14:07:52	D	16.80
59	HANUMANGARH	TIBI	S-NPP	29.59720	74.52160	11/19/2021	14:07:52	D	4.20
60	HANUMANGARH	TIBI	S-NPP	29.59730	74.46800	11/19/2021	14:07:52	D	16.80
61	HANUMANGARH	TIBI	S-NPP	29.61120	74.46060	11/19/2021	14:07:52	D	10.00
62	HANUMANGARH	TIBI	S-NPP	29.61170	74.46640	11/19/2021	14:07:52	D	10.00
63	HANUMANGARH	TIBI	S-NPP	29.62330	74.48880	11/19/2021	14:07:52	D	4.80

64	HANUMANGARH	TIBI	S-NPP	29.62710	74.47650	11/19/2021	14:07:52	D	10.50
65	HANUMANGARH	TIBI	S-NPP	29.64990	74.51570	11/19/2021	14:07:52	D	3.00
66	HANUMANGARH	TIBI	S-NPP	29.66860	74.56150	11/19/2021	14:07:52	D	10.30
67	HANUMANGARH	TIBI	AQUA	29.53200	74.52300	11/19/2021	14:15:12	D	41.30
68	HANUMANGARH	TIBI	AQUA	29.53400	74.54700	11/19/2021	14:15:12	D	38.40
69	HANUMANGARH	TIBI	AQUA	29.53600	74.52800	11/19/2021	14:15:12	D	41.50
70	HANUMANGARH	TIBI	AQUA	29.53800	74.55100	11/19/2021	14:15:12	D	22.00
71	HANUMANGARH	TIBI	AQUA	29.53800	74.59400	11/19/2021	14:15:12	D	22.00
72	HANUMANGARH	TIBI	AQUA	29.54200	74.59900	11/19/2021	14:15:12	D	38.20
73	HANUMANGARH	TIBI	AQUA	29.60500	74.46000	11/19/2021	14:15:12	D	23.60

Details of residue burning events in Madhya Pradesh on 19-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	HOSHANGABAD	BABAI	S-NPP	22.73370	77.95670	11/19/2021	12:28:17	D	6.10
2	HOSHANGABAD	BANKHERI	S-NPP	22.94050	78.51310	11/19/2021	12:28:17	D	2.40
3	HOSHANGABAD	PIPARIYA	S-NPP	22.74580	78.39050	11/19/2021	01:17:35	N	0.20
4	JABALPUR	MAJHOULI	S-NPP	23.44680	80.06790	11/19/2021	12:28:17	D	4.10
5	JABALPUR	MAJHOULI	S-NPP	23.49490	79.93760	11/19/2021	12:28:17	D	4.10
6	JABALPUR	MAJHOULI	S-NPP	23.52990	79.96540	11/19/2021	12:28:17	D	3.70
7	JABALPUR	MAJHOULI	S-NPP	23.57230	79.94500	11/19/2021	14:07:52	D	4.70
8	JABALPUR	SIHORA	S-NPP	23.43790	80.13950	11/19/2021	12:28:17	D	5.10
9	RAISEN	BARELI	S-NPP	22.97860	78.12990	11/19/2021	14:07:52	D	3.10
10	RAISEN	RAISEN	S-NPP	23.43210	77.92300	11/19/2021	01:17:35	N	0.30
11	SATNA	NAGOD	S-NPP	24.50460	80.57100	11/19/2021	14:07:52	D	5.10
12	SATNA	NAGOD	S-NPP	24.50580	80.57350	11/19/2021	14:07:52	D	3.80
13	SATNA	RAMPURBAGHLEAN	S-NPP	24.38520	80.89990	11/19/2021	14:07:52	D	6.30
14	SATNA	RAMPURBAGHLEAN	S-NPP	24.38820	80.89610	11/19/2021	14:07:52	D	7.40
15	SATNA	RAMPURBAGHLEAN	S-NPP	24.68740	81.07260	11/19/2021	14:07:52	D	4.00
16	SATNA	UCHAHAR	S-NPP	24.53050	80.76530	11/19/2021	14:07:52	D	4.10

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)
