



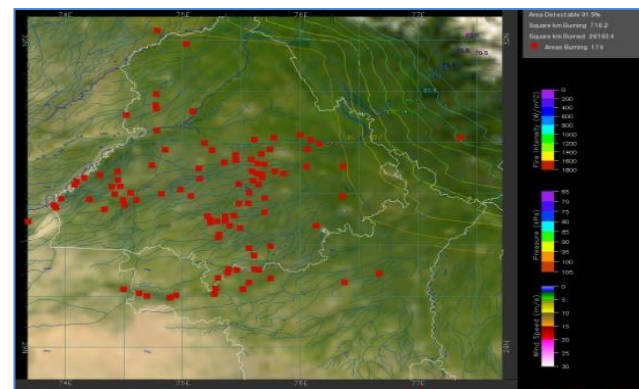
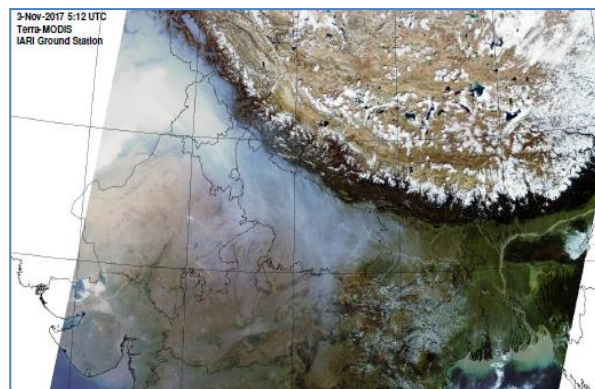
## Bulletin No. 71

Events Date:  
24-Nov-2022

Issued on:  
24-Nov-2022



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



Prepared by:

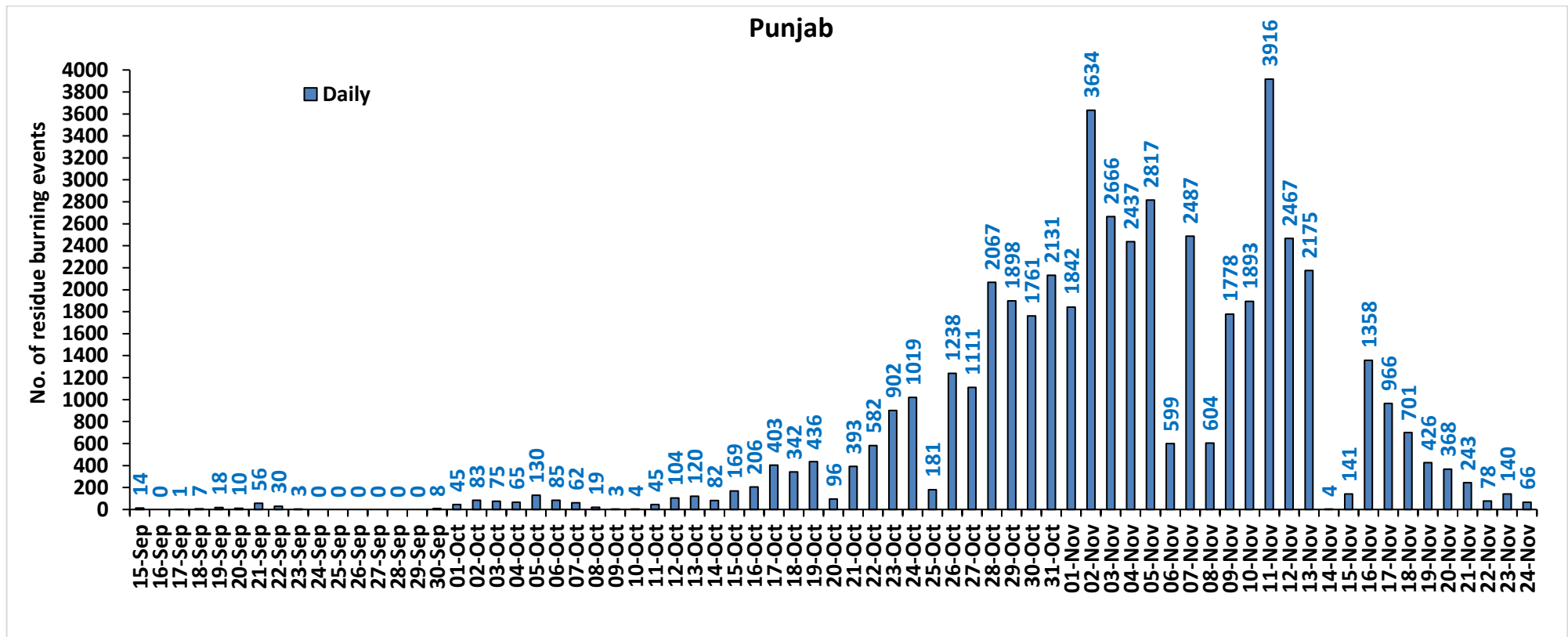
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,  
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

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

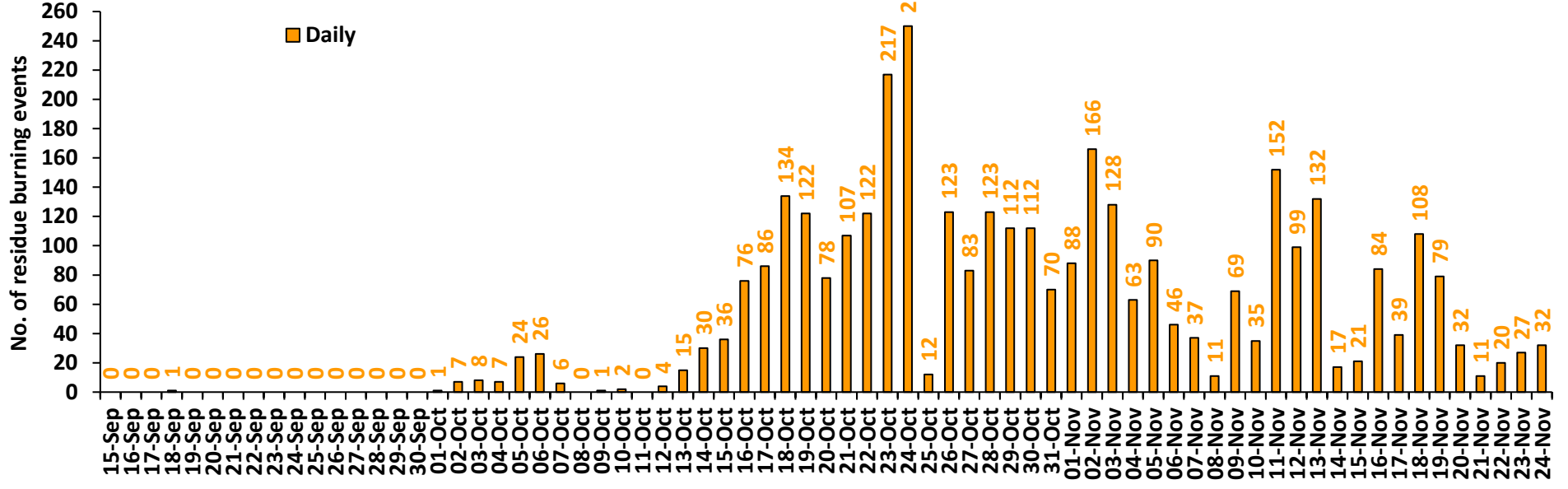
## Highlights for 24-Nov-2022

- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **607** residue burning events in the six study States on 24-Nov-2022.
- The state wise events detected on 24-Nov-2022 were **66** in Punjab, **32** in Haryana, **195** in UP, **1** in Delhi, **14** in Rajasthan and **299** in MP.
- Total **67784** burning events were detected in the six states between 15-Sept-2022 and 24-Nov-2022, which are distributed as **49810**, **3581**, **2295**, **10,1255** and **10833** in Punjab, Haryana, UP, Delhi, Rajasthan and MP respectively.

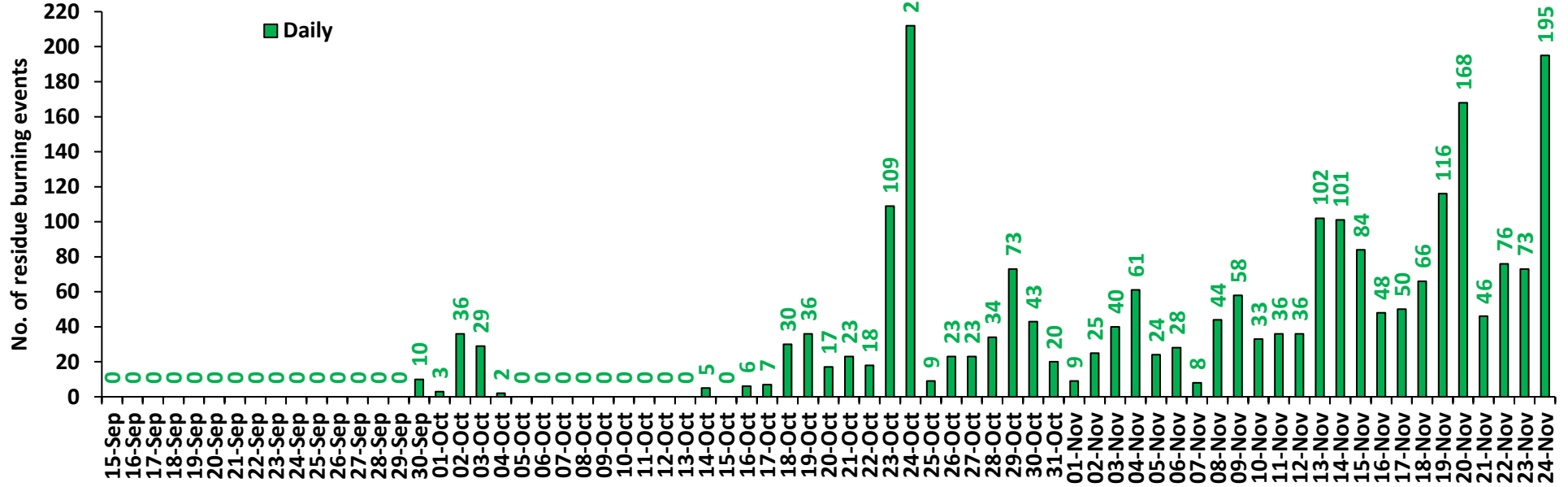
### Temporal distribution of rice residue burning events for the study States in 2022



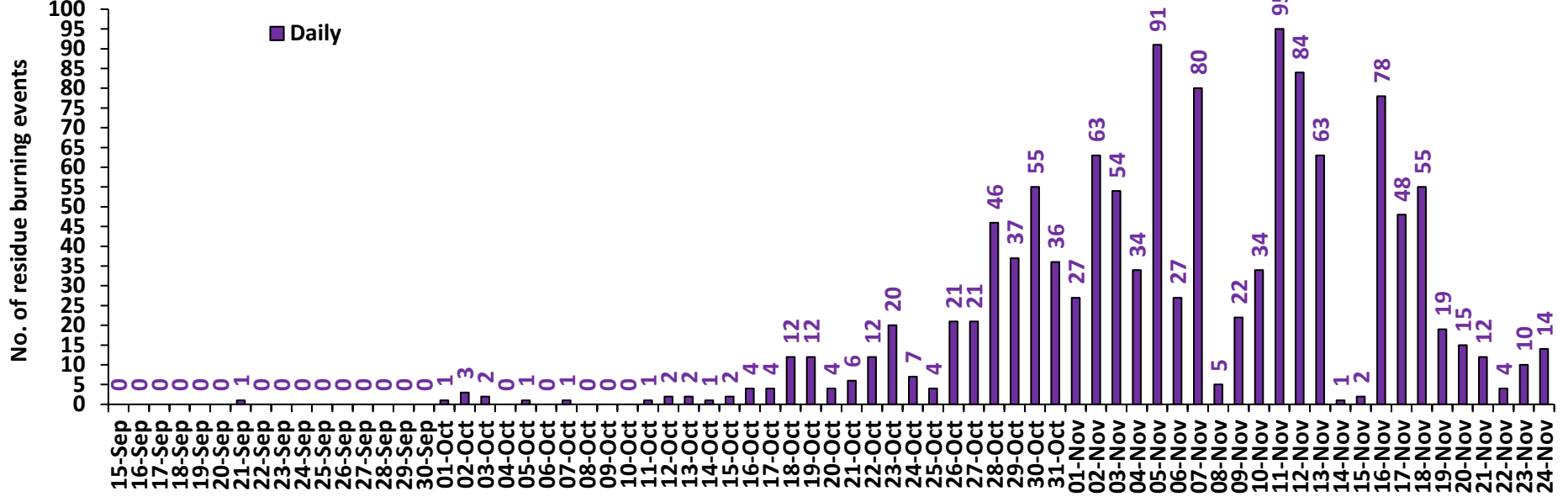
### Haryana



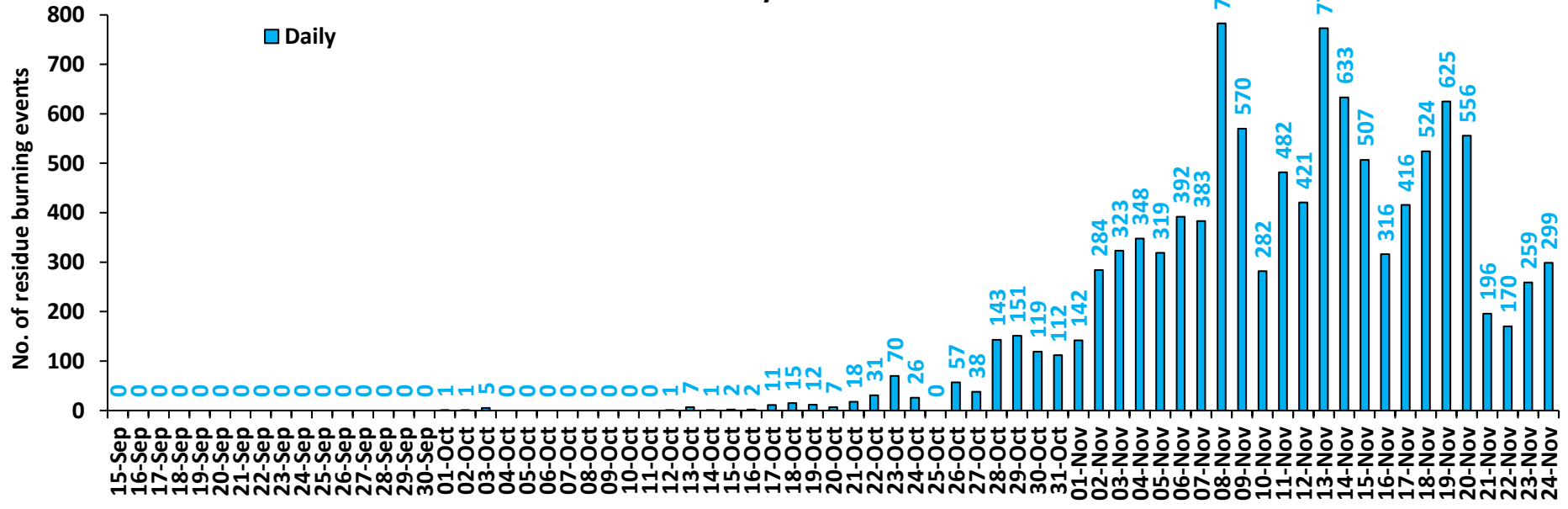
### Uttar Pradesh



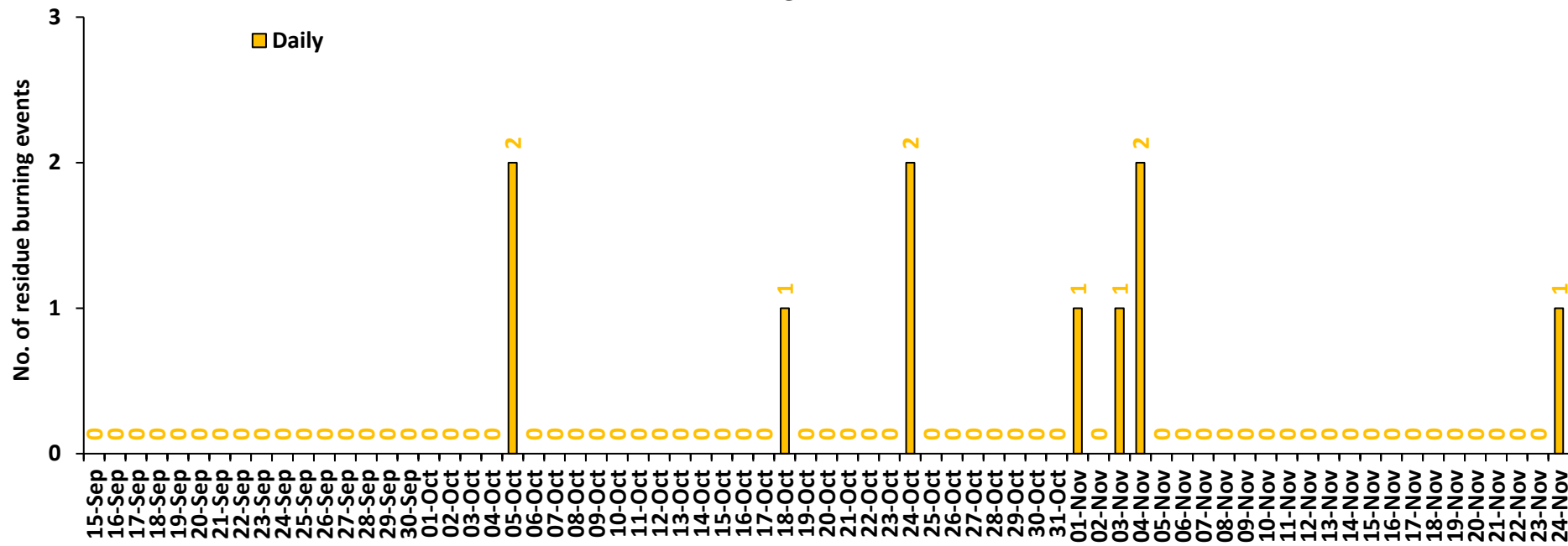
### Rajasthan



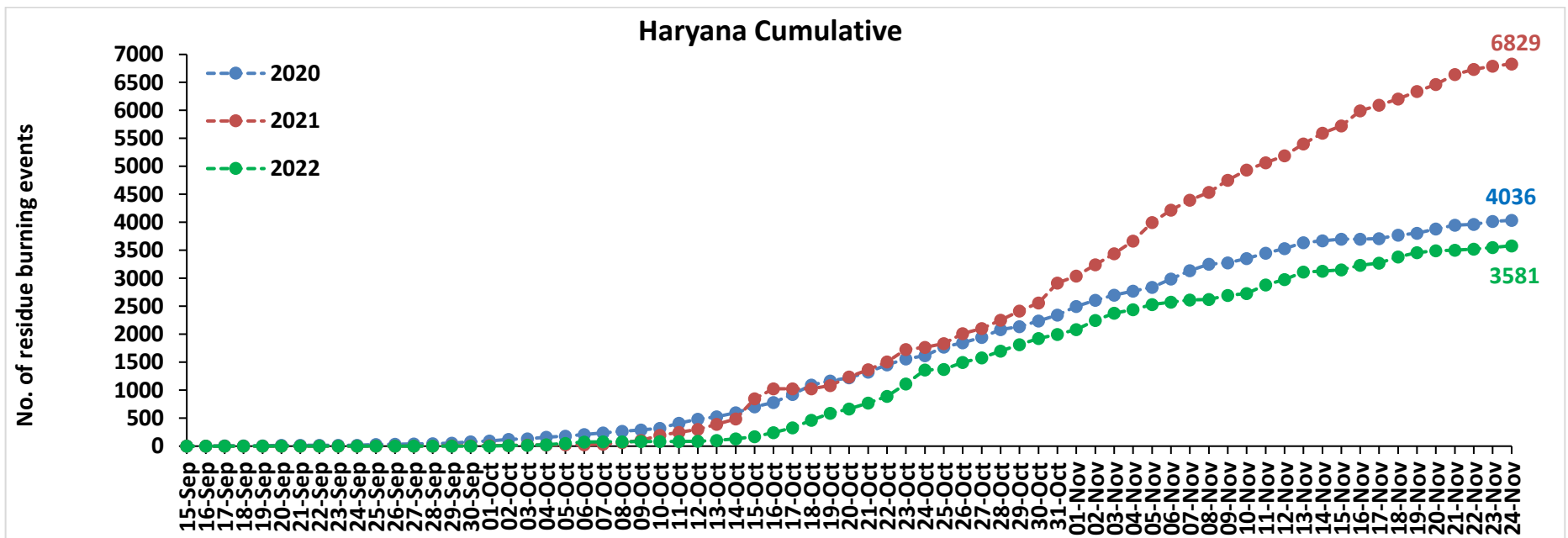
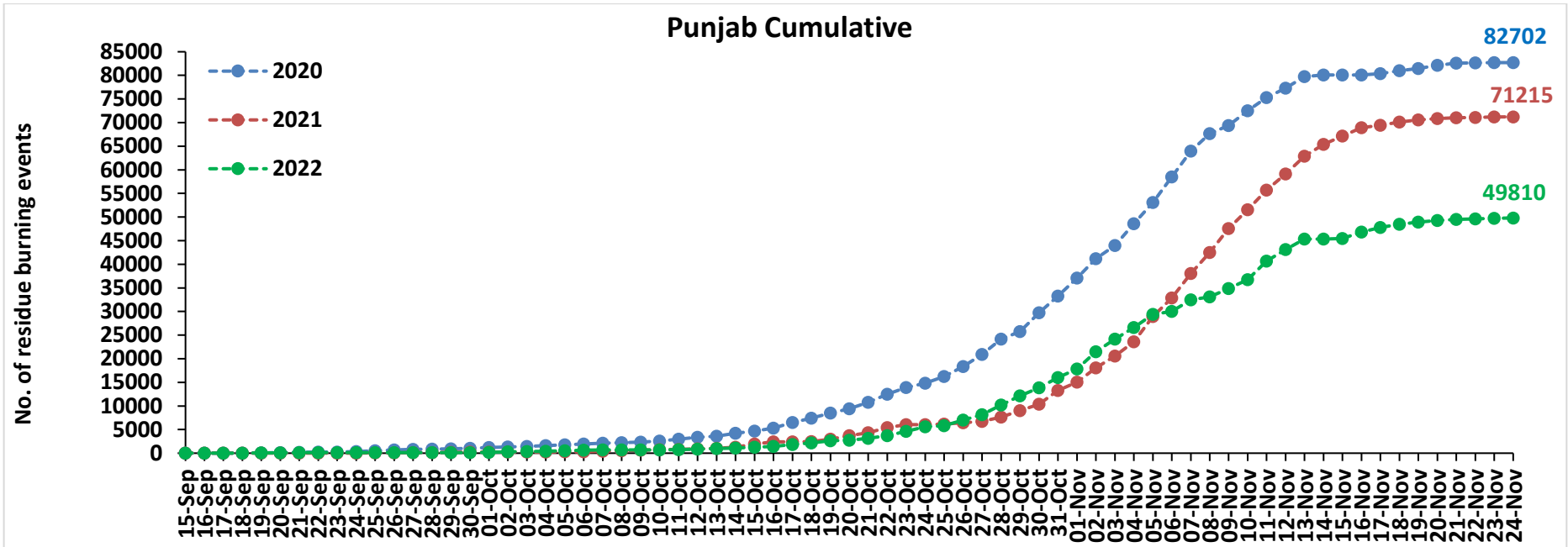
### Madhya Pradesh



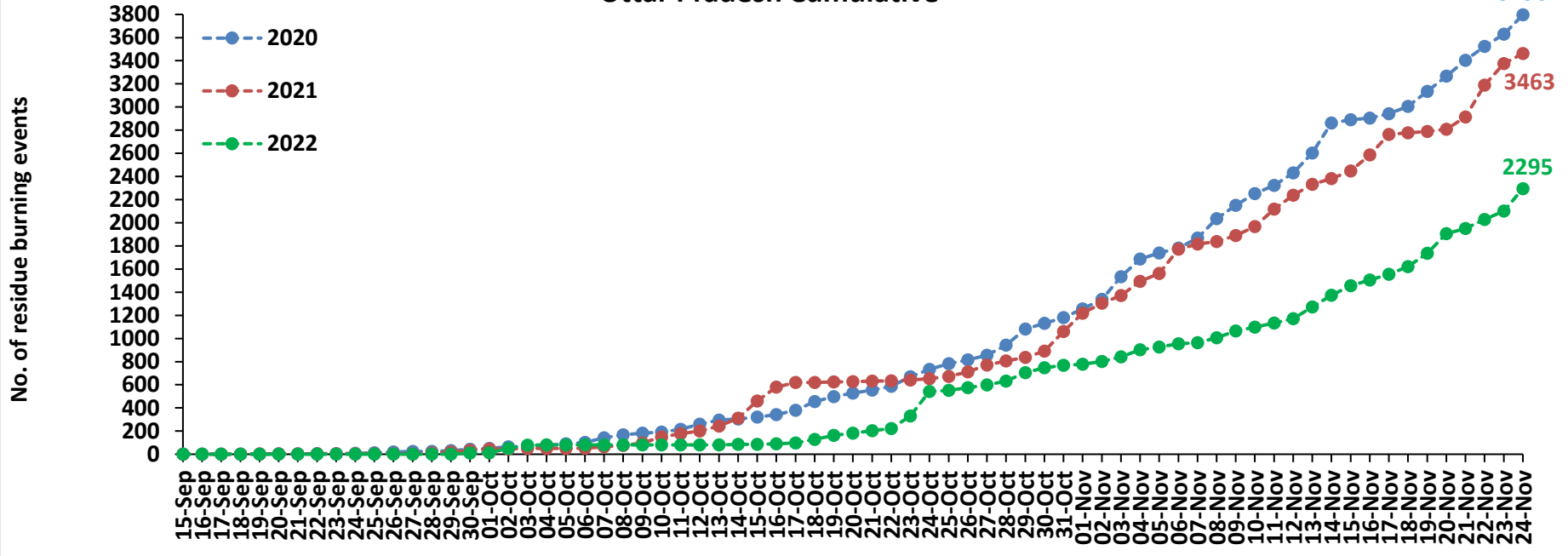
# Delhi



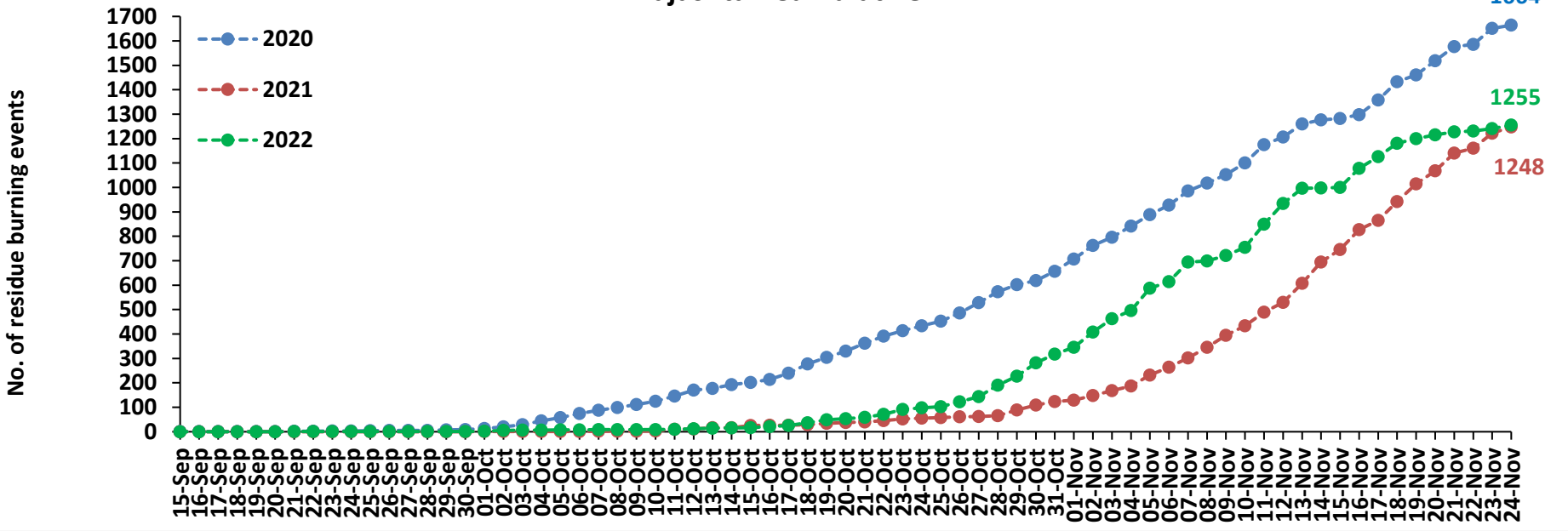
**Comparison of residue burning events in current year (2022) with previous years (2020 and 2021) for the study States**



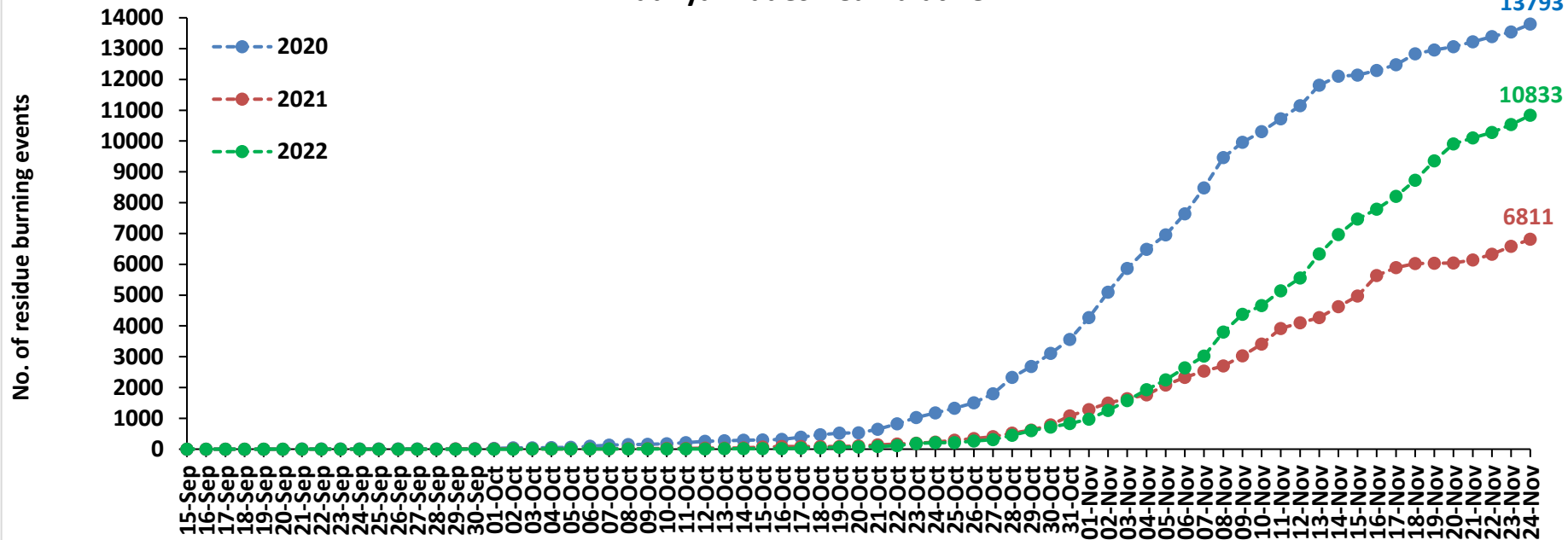
### Uttar Pradesh Cumulative



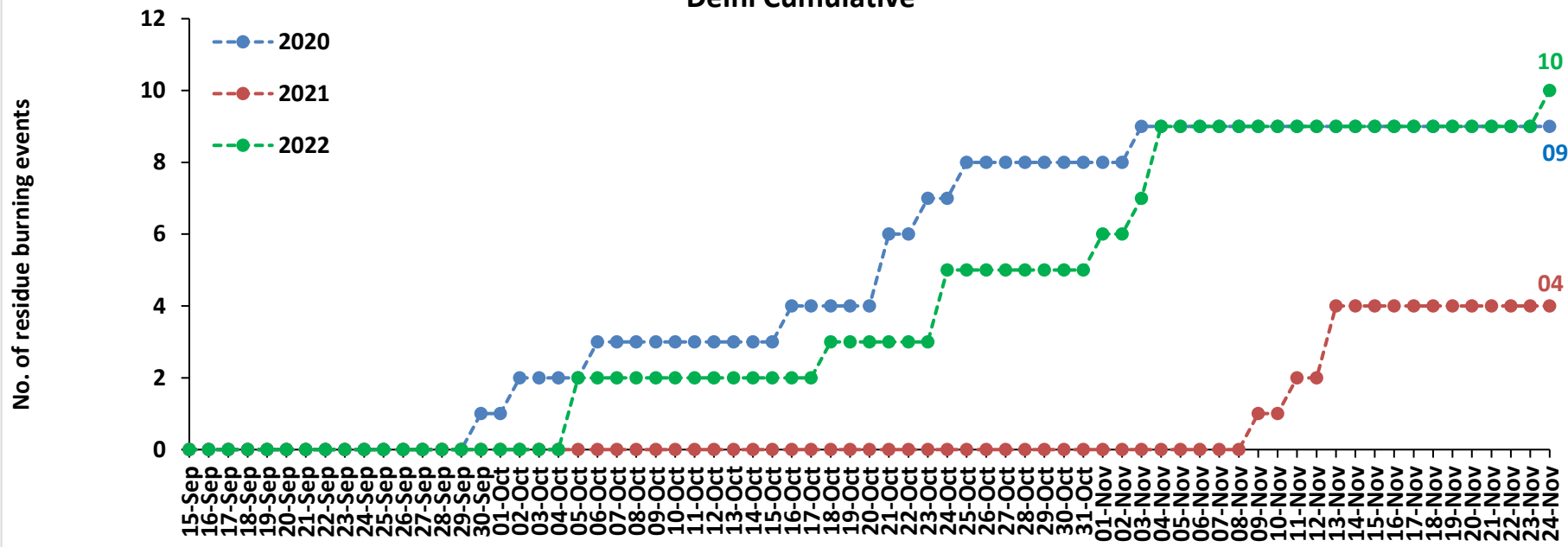
### Rajasthan Cumulative



### Madhya Pradesh Cumulative

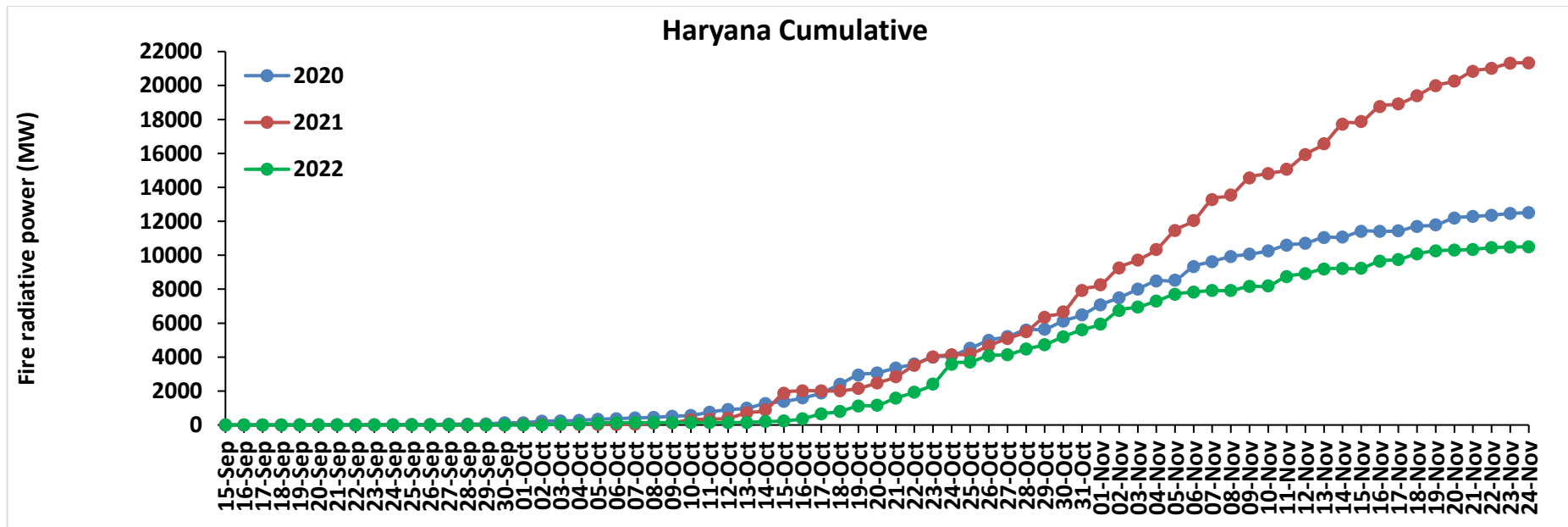
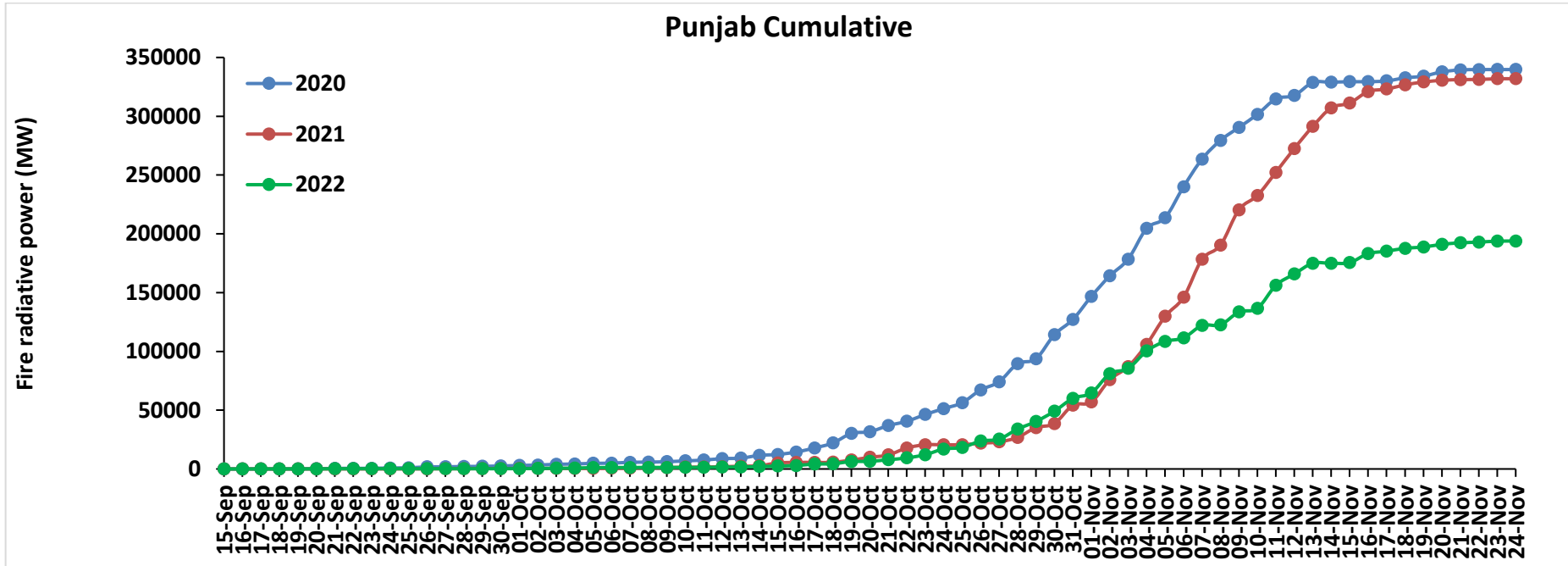


### Delhi Cumulative

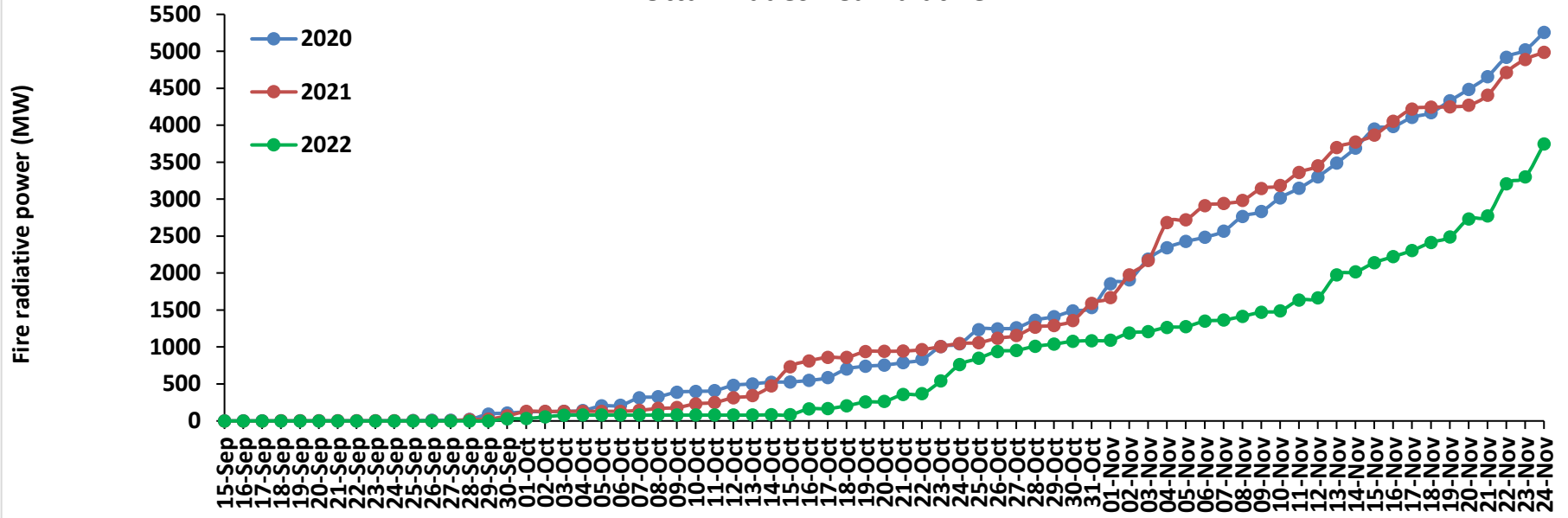




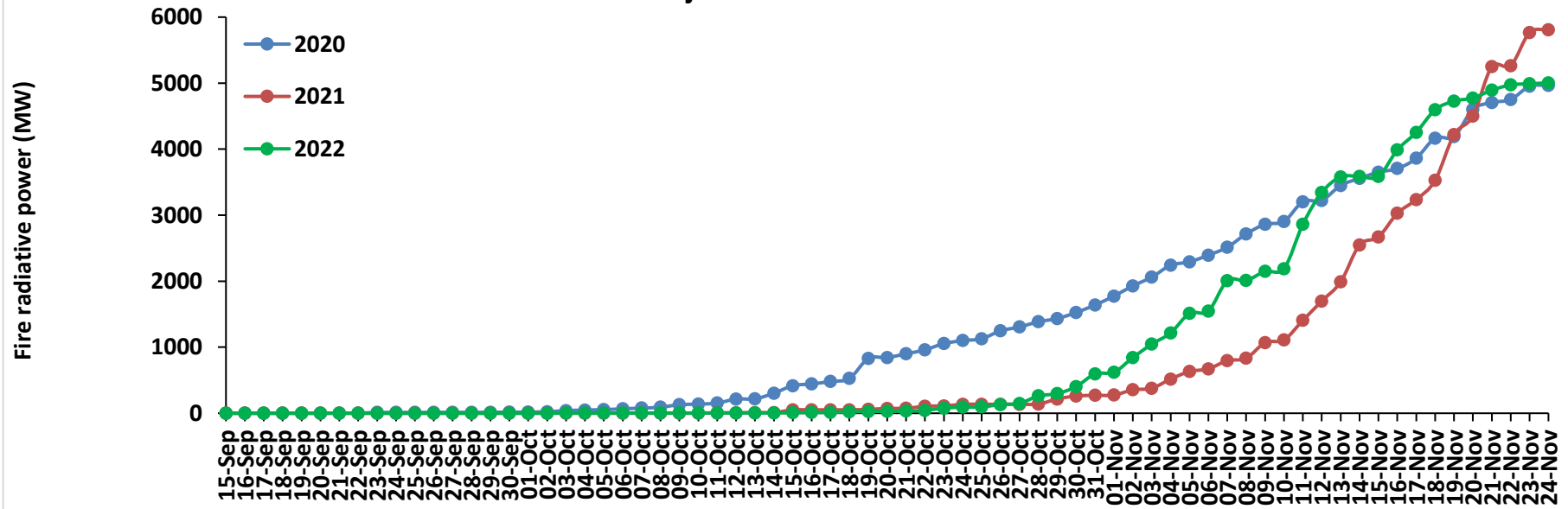
**Comparison of residue burning fire power in current year (2022) with previous years (2021 and 2020) for the study States**



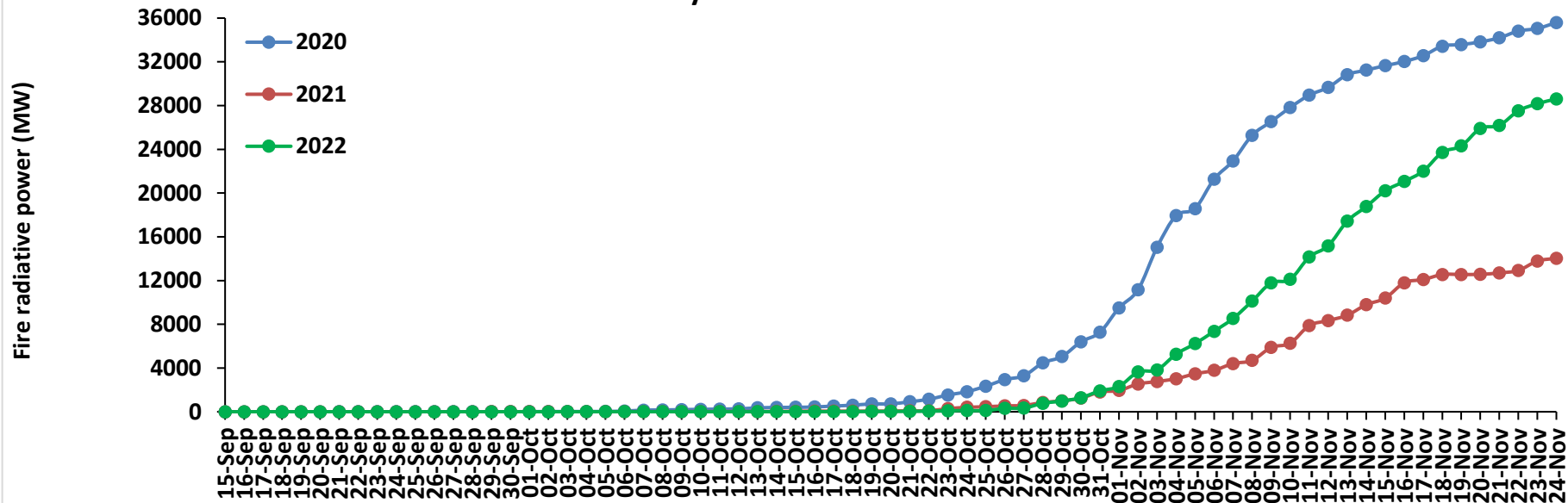
### Uttar Pradesh Cumulative



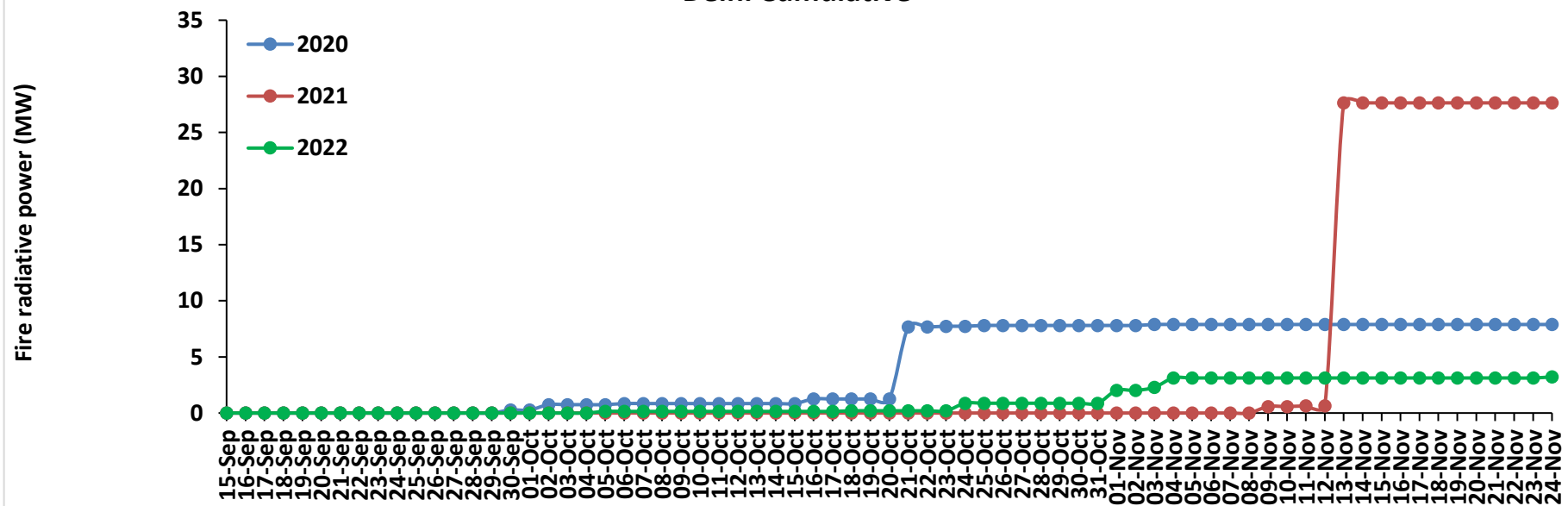
### Rajasthan Cumulative



### Madhya Pradesh Cumulative

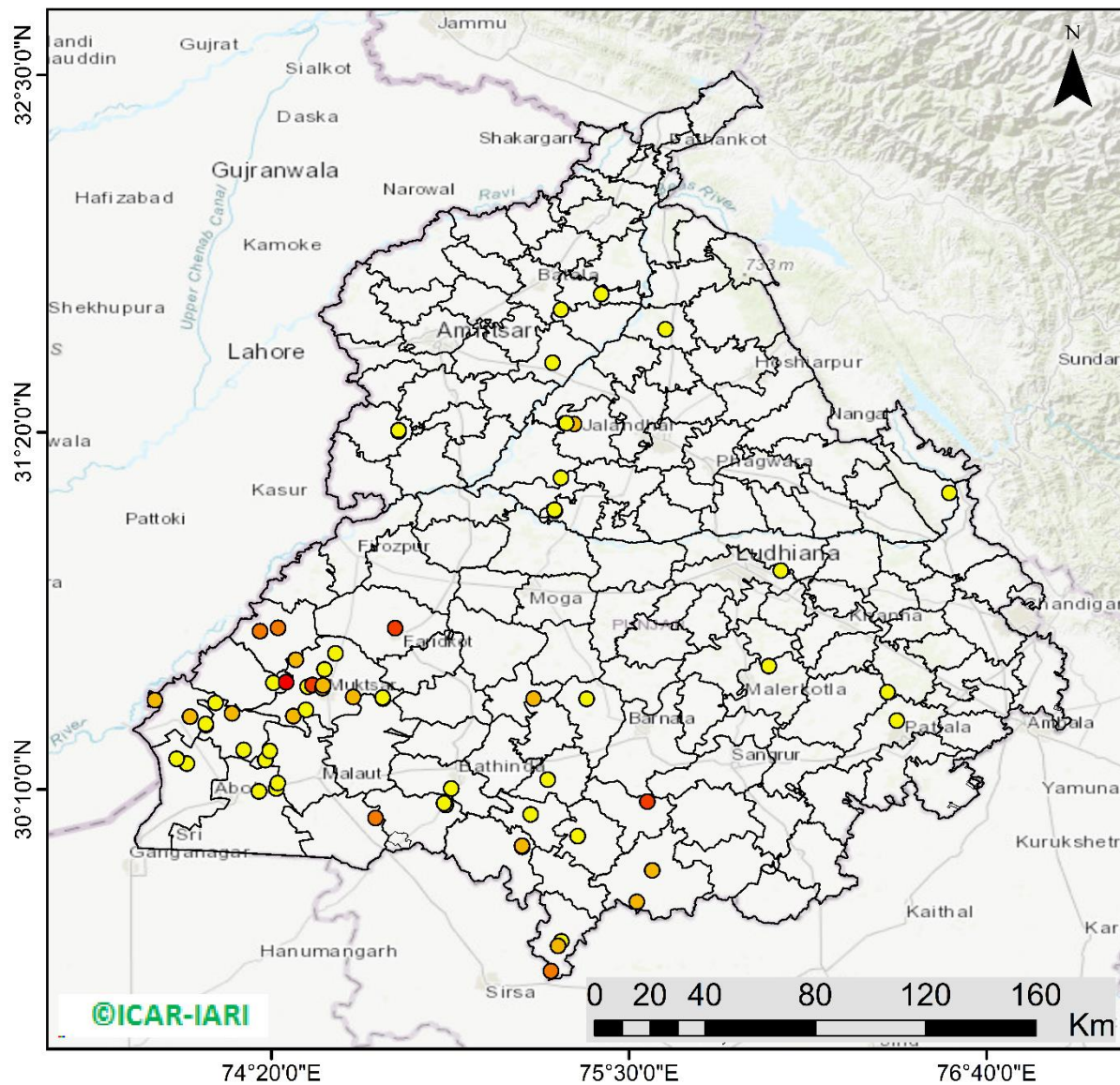


### Delhi Cumulative



# Punjab

## RICE RESIDUE BURNING IN PUNJAB



**66** burning events detected in Punjab during (24th Nov 2022)

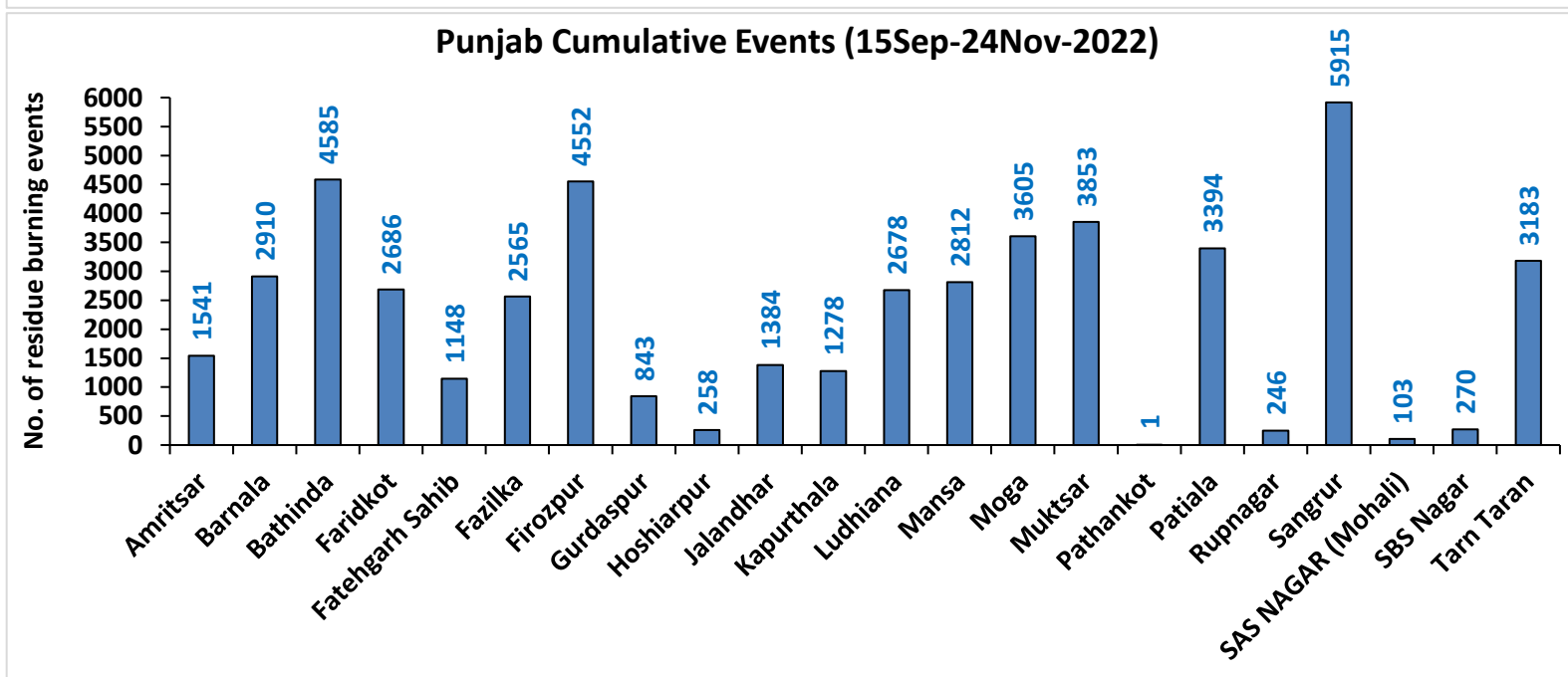
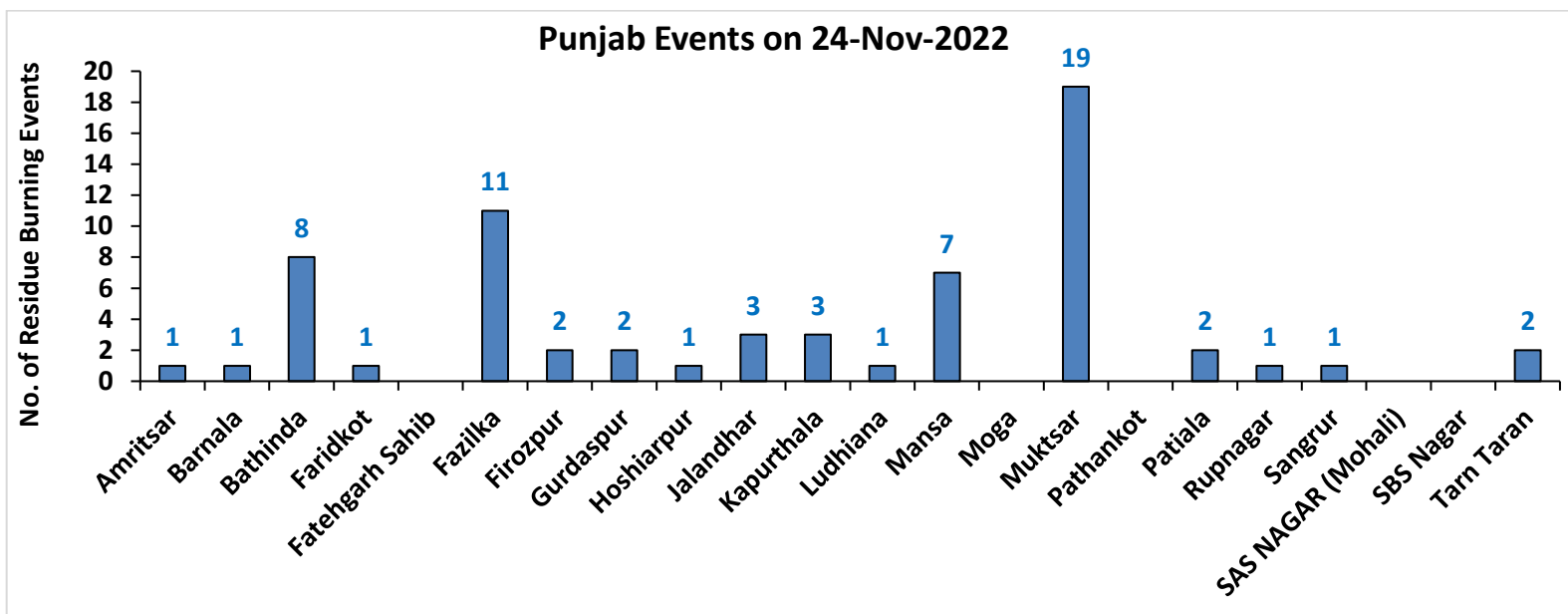
### Fire Intensity (W/m<sup>2</sup>)

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



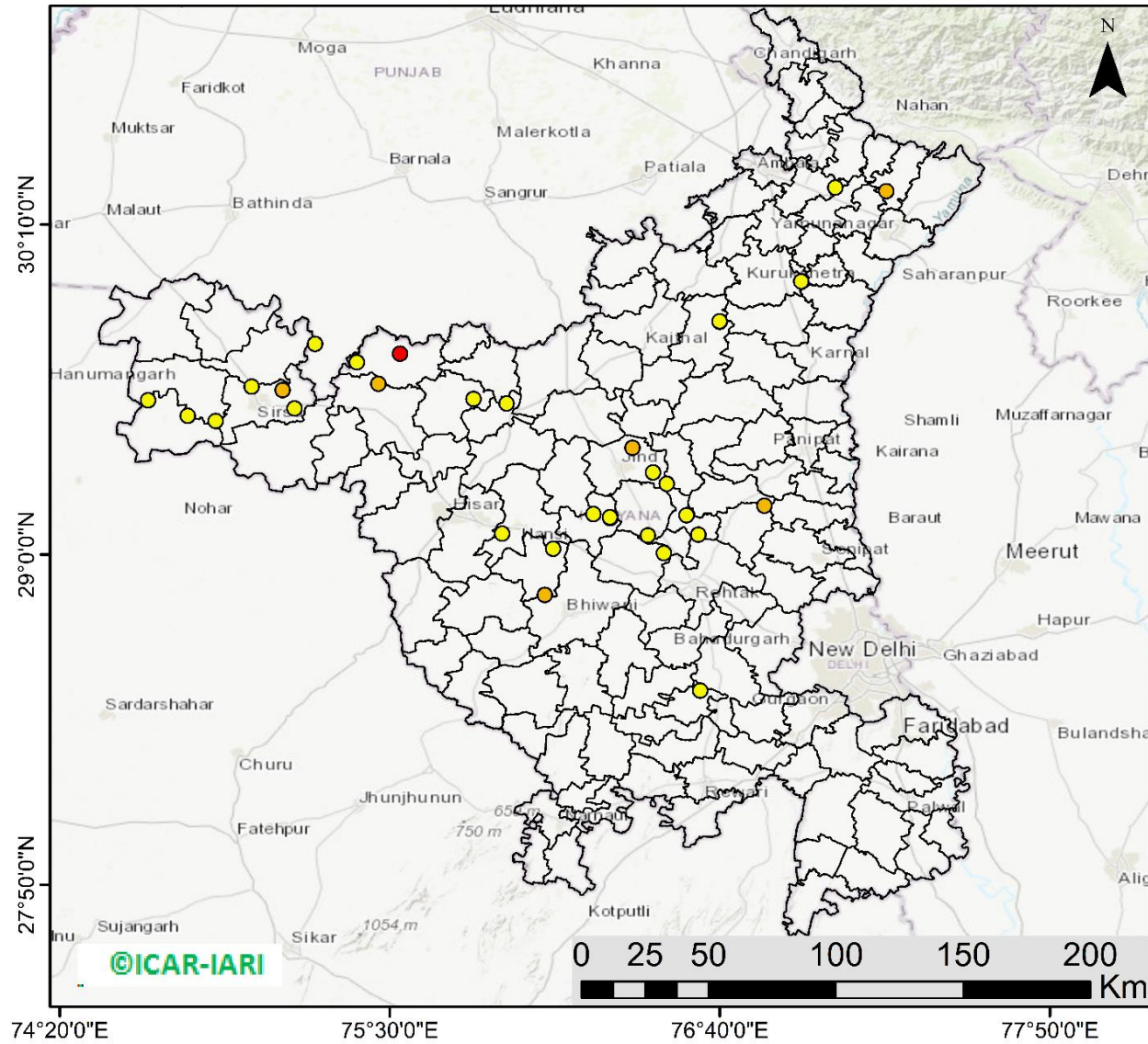
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Punjab (15Sep- 24Nov-2022)



# Haryana

## RICE RESIDUE BURNING IN HARYANA



**32** burning events detected in Haryana on (24th Nov 2022)

### Fire Intensity (W/m2)

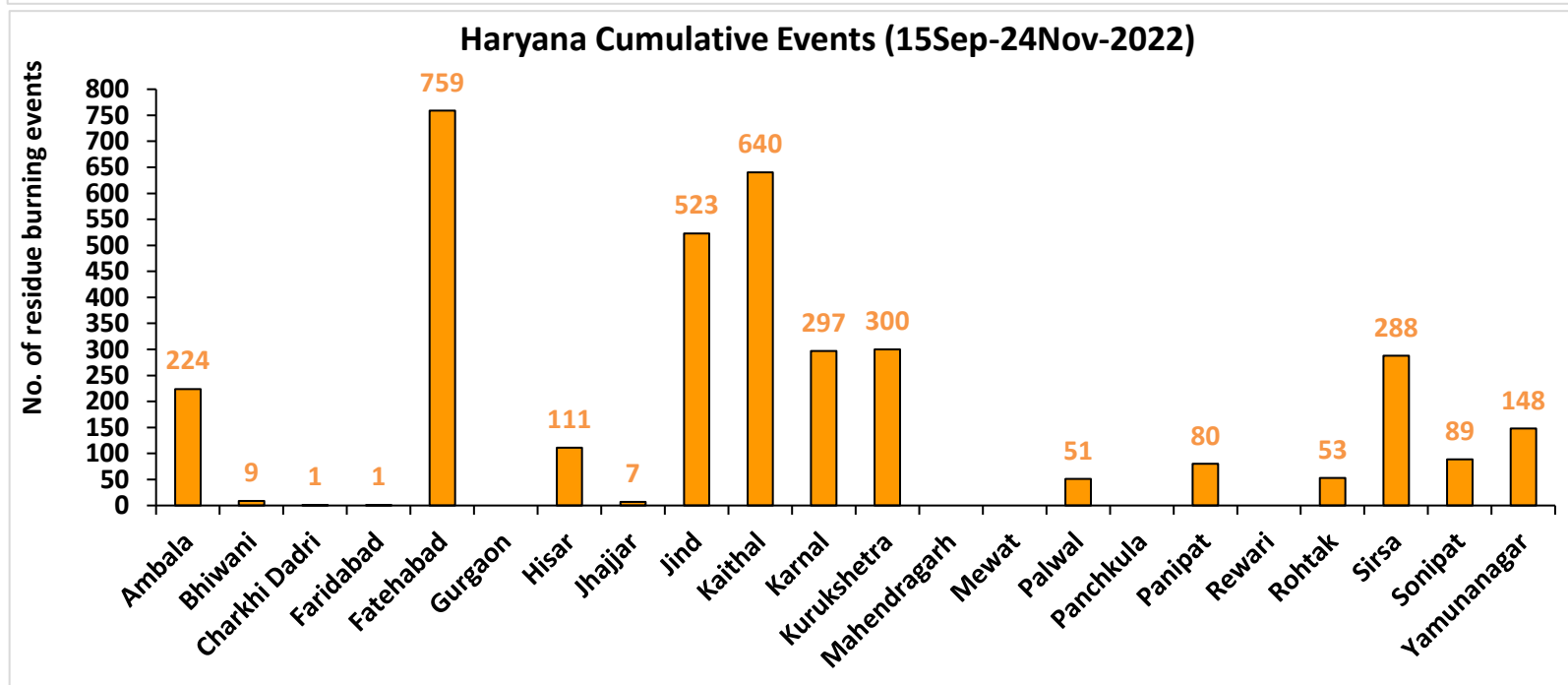
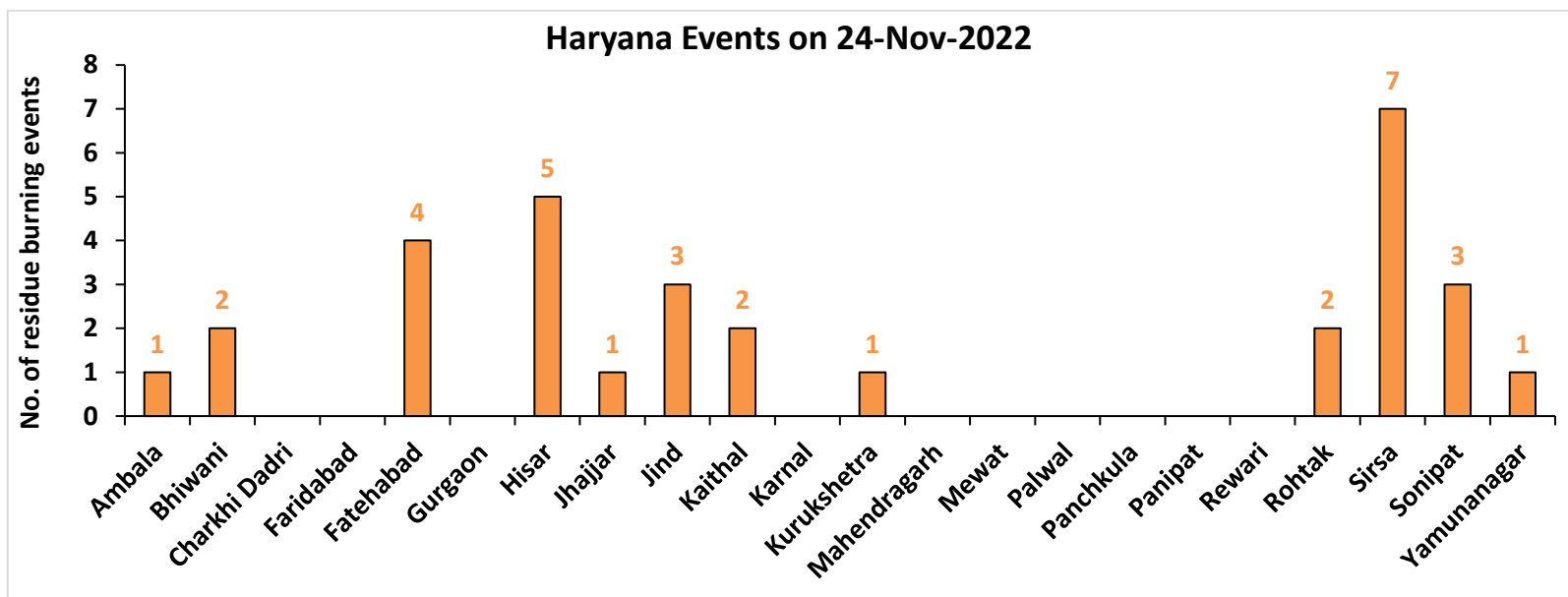
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

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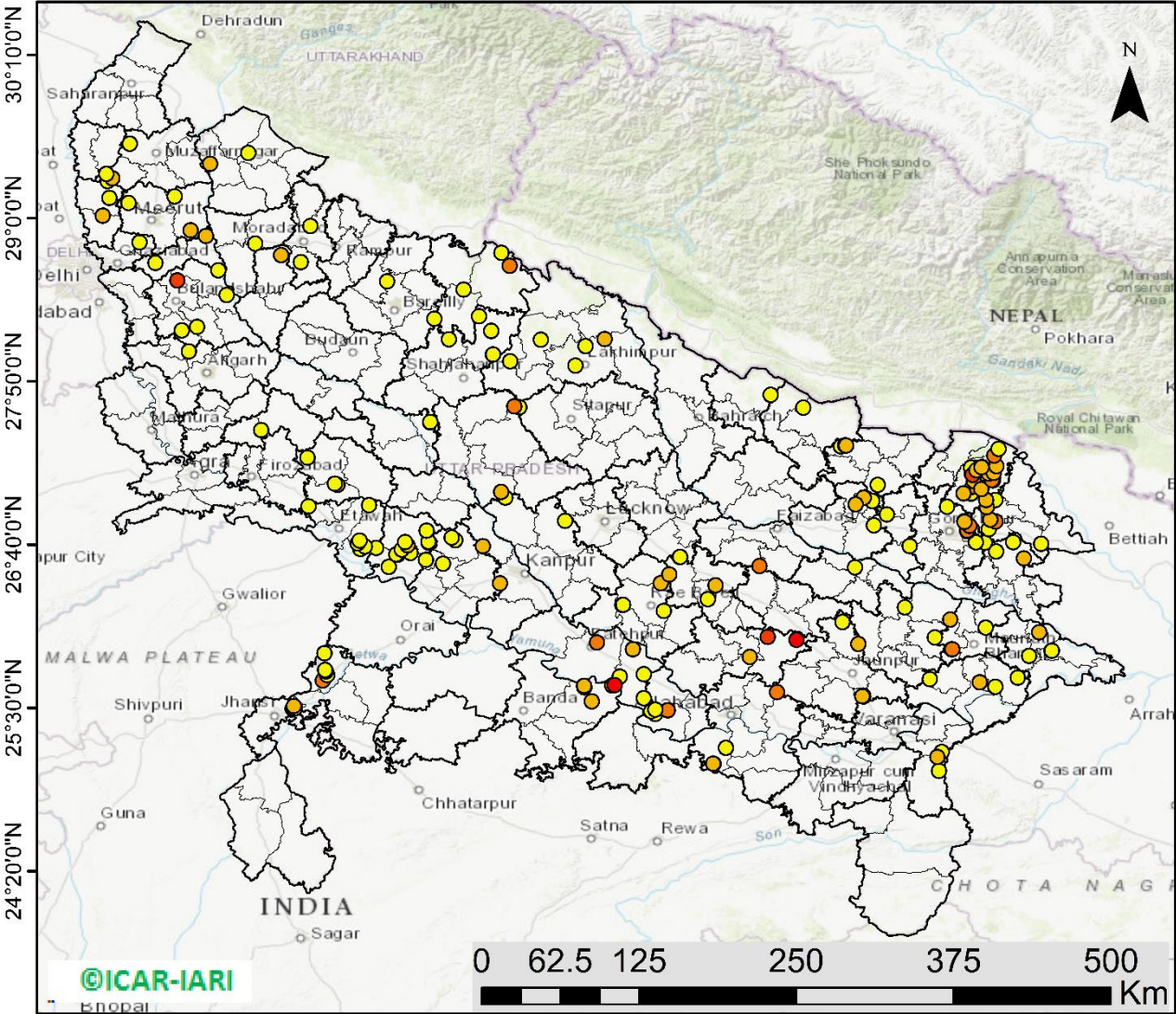
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Haryana (15Sep- 24Nov-2022)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



195 burning events detected in Uttar Pradesh on (24th Nov 2022)

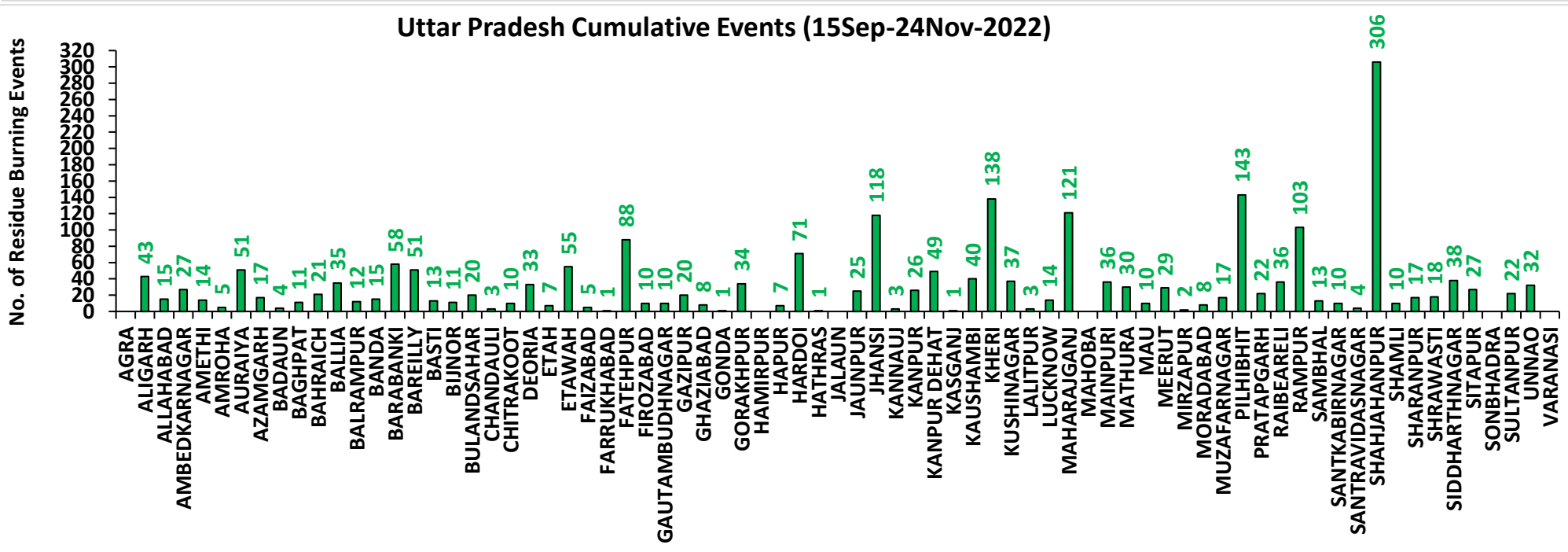
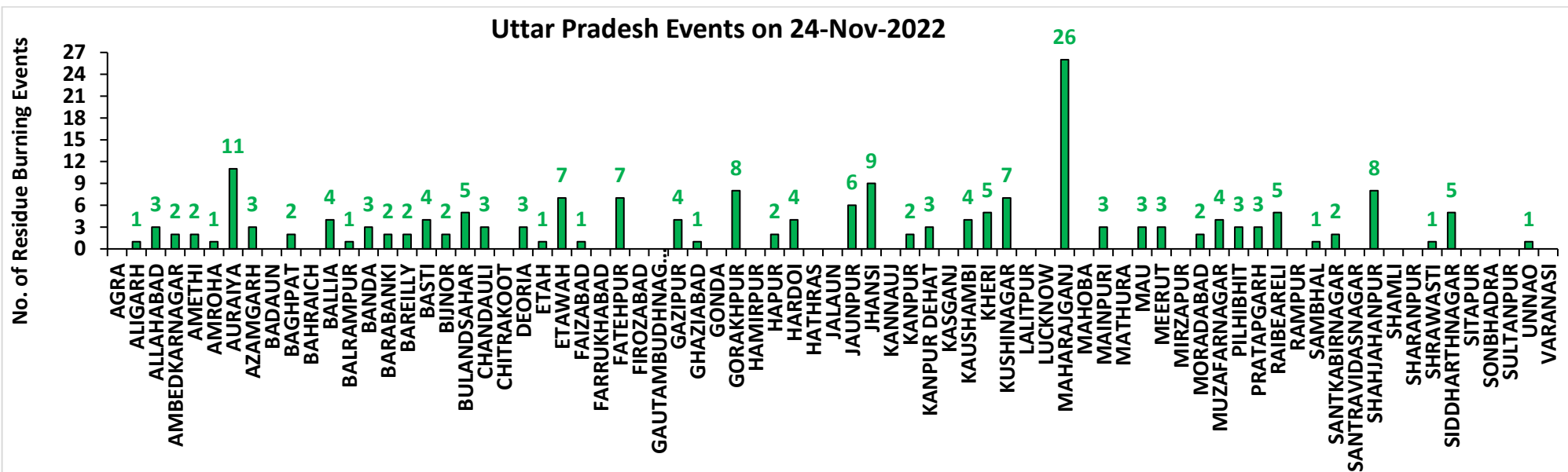
Fire Intensity (W/m2)

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

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

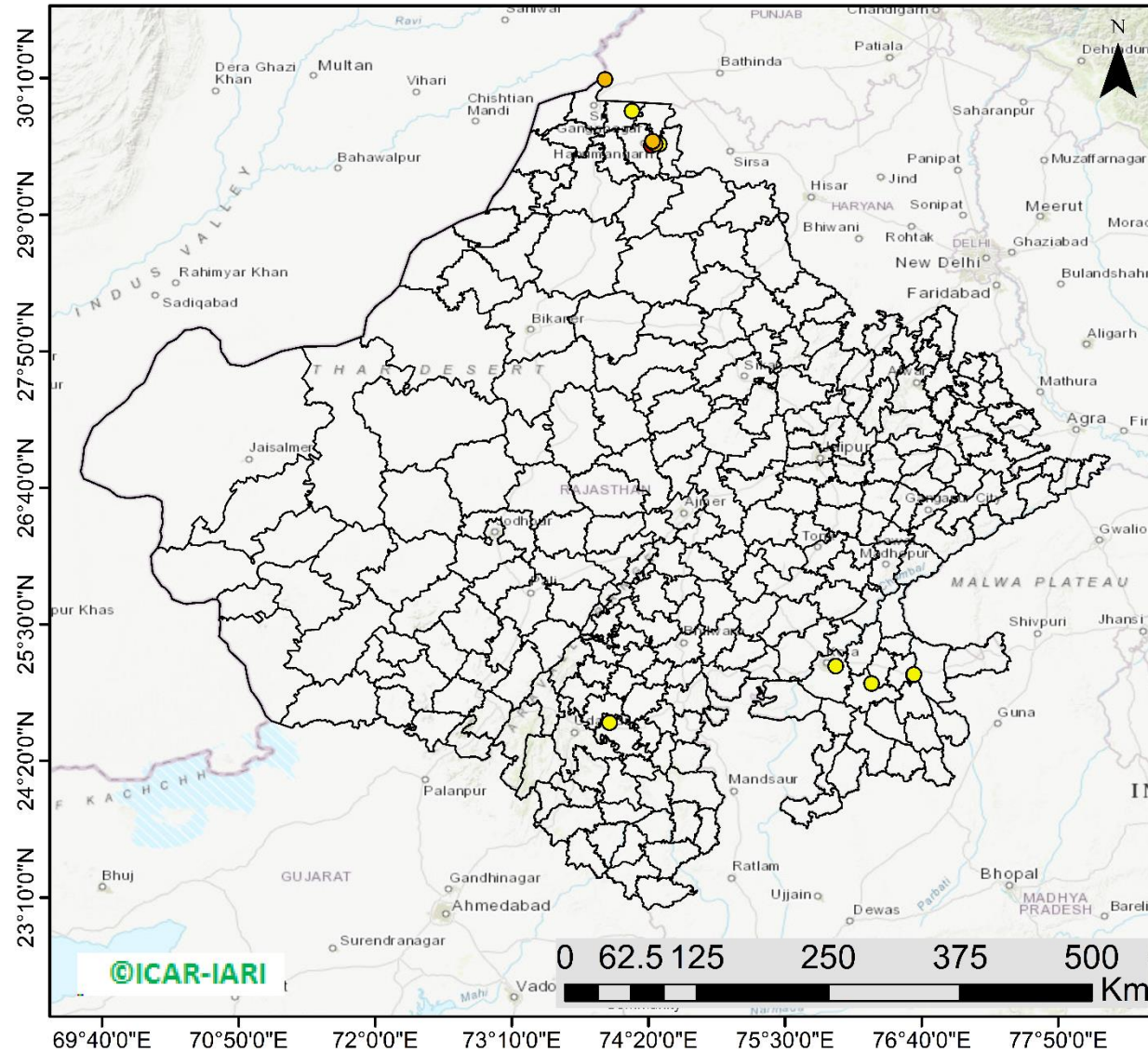


## District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep- 24Nov-2022)



# Rajasthan

## RICE RESIDUE BURNING IN RAJASTHAN



**14** burning events  
detected in Rajasthan on  
(24th Nov 2022)

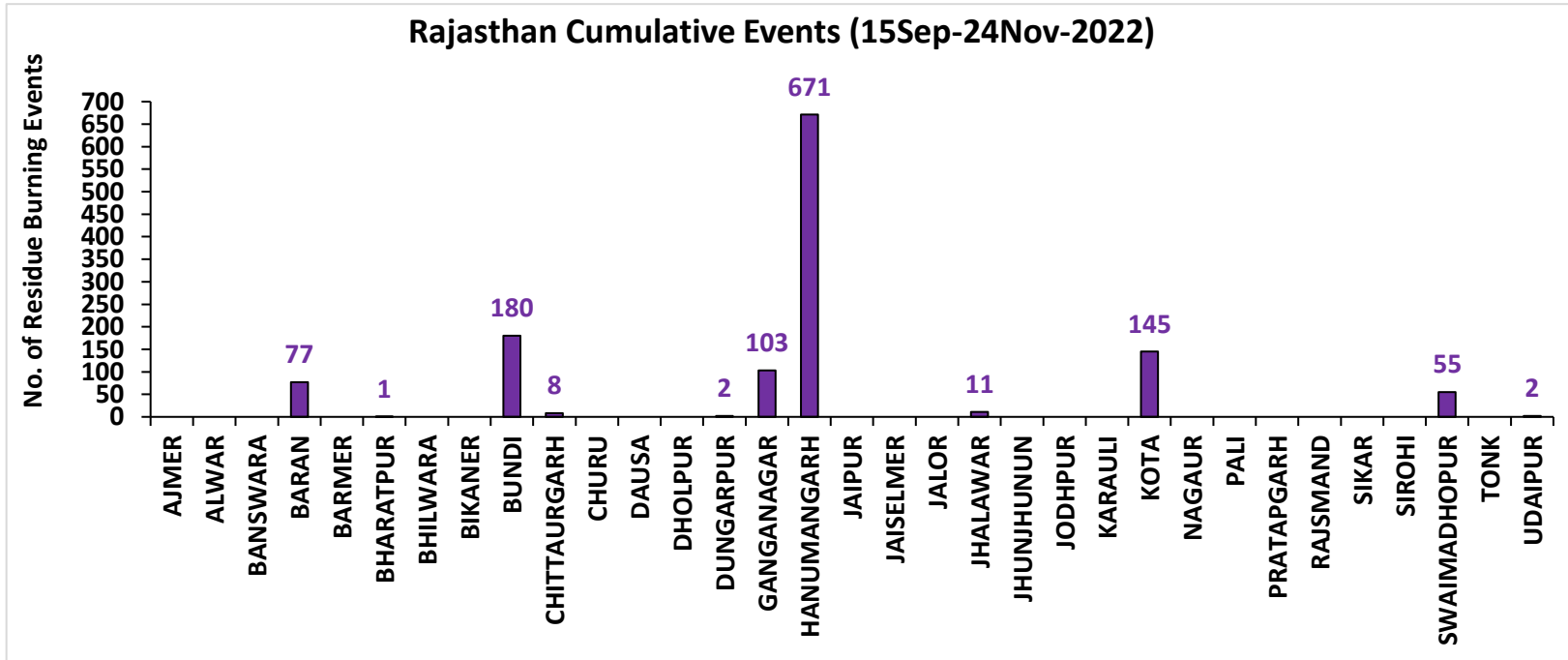
### Fire Intensity (W/m<sup>2</sup>)

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



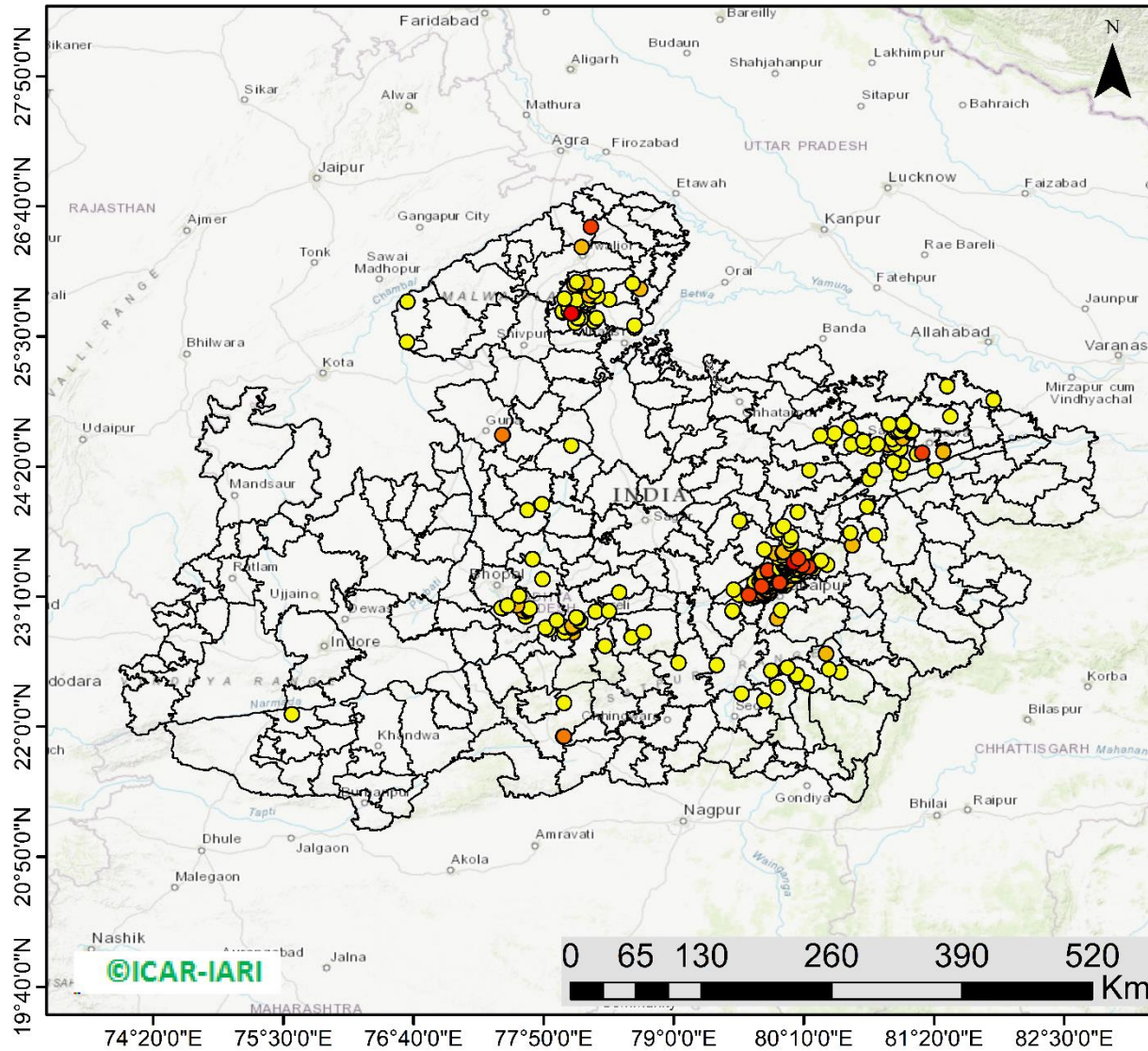
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Rajasthan (15Sep- 24Nov-2022)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



**299** burning events  
detected in MP on  
(24th Nov 2022)

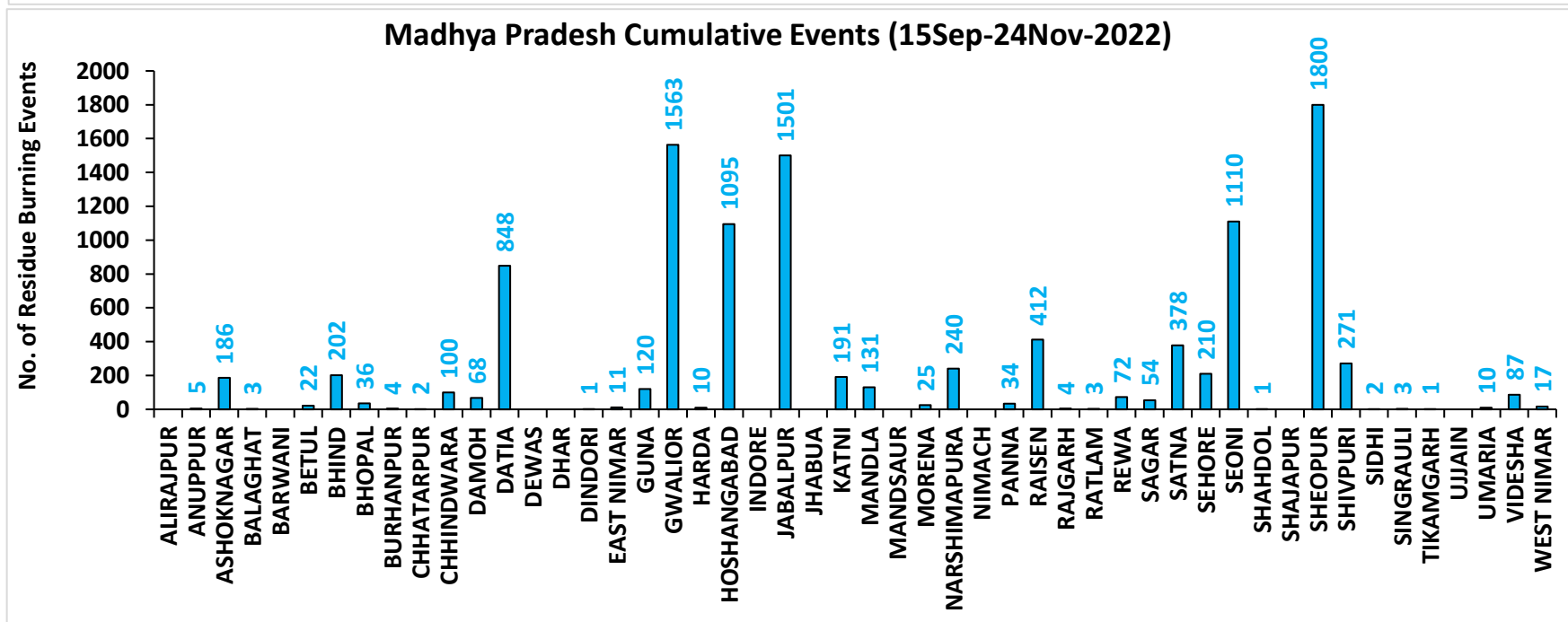
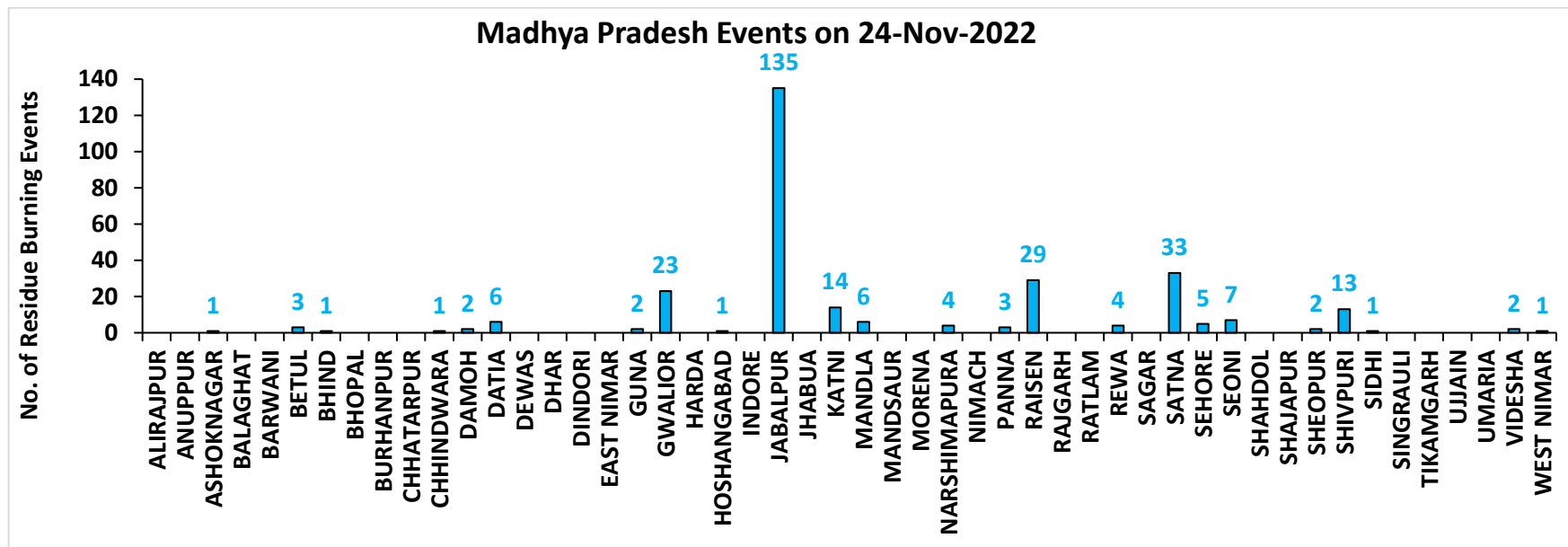
### Fire Intensity (W/m<sup>2</sup>)

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



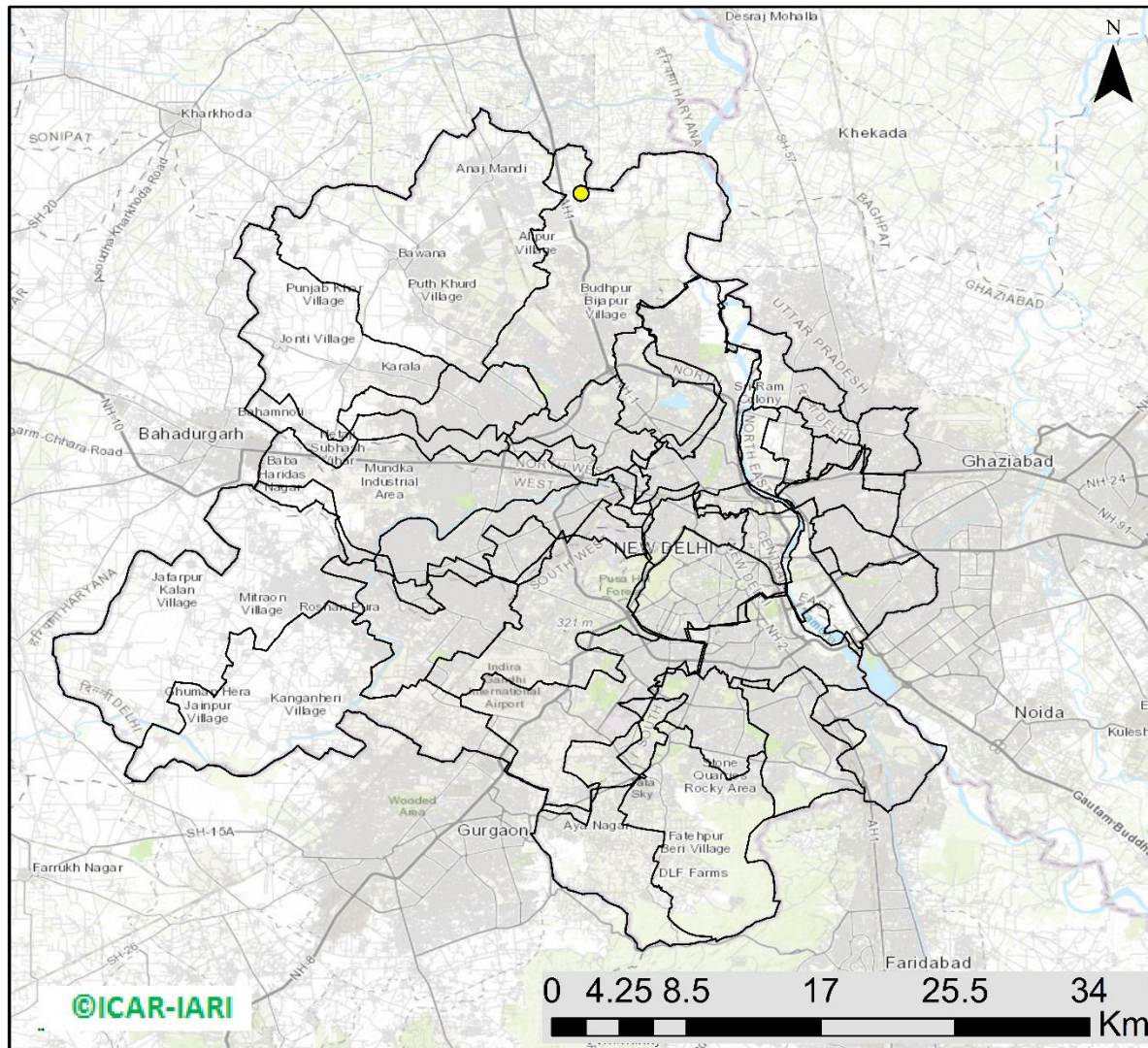
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep- 24Nov-2022)



# Delhi

## RICE RESIDUE BURNING IN DELHI



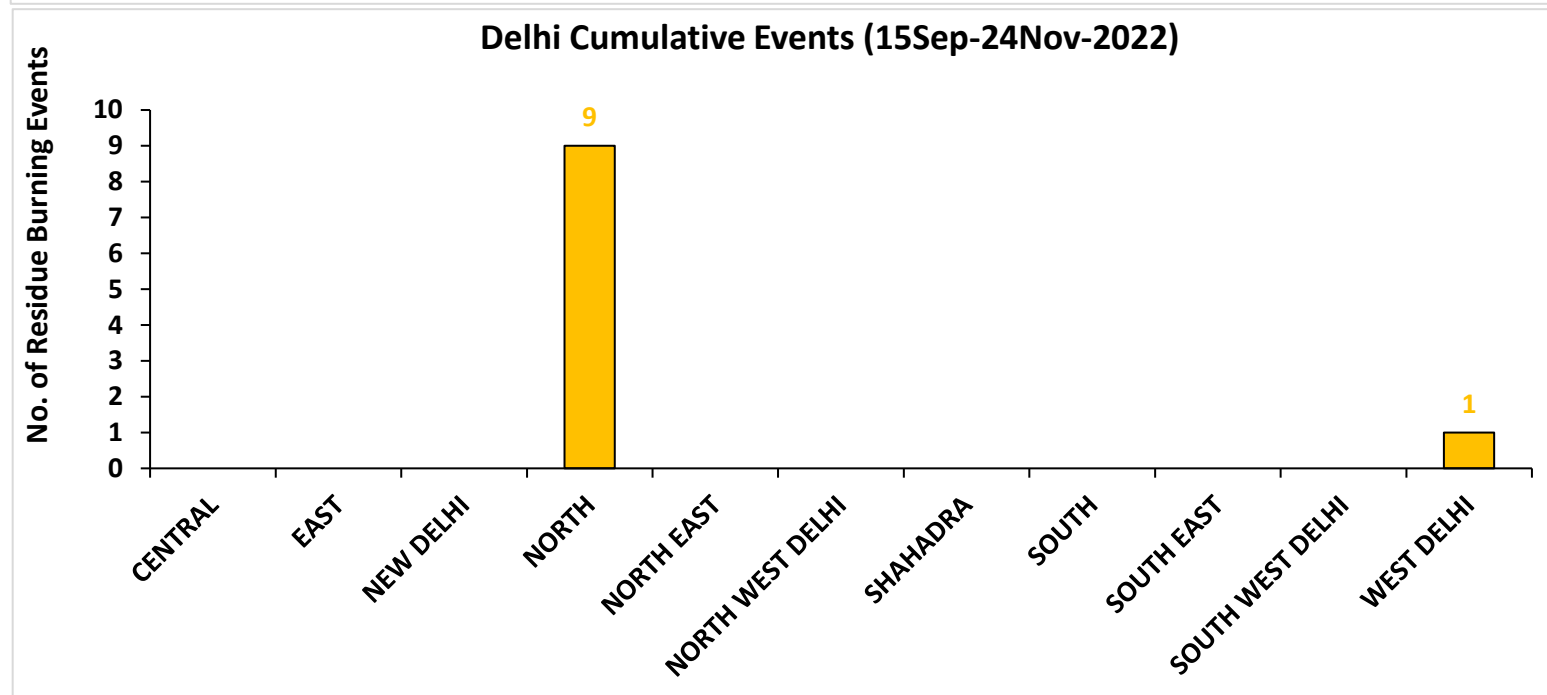
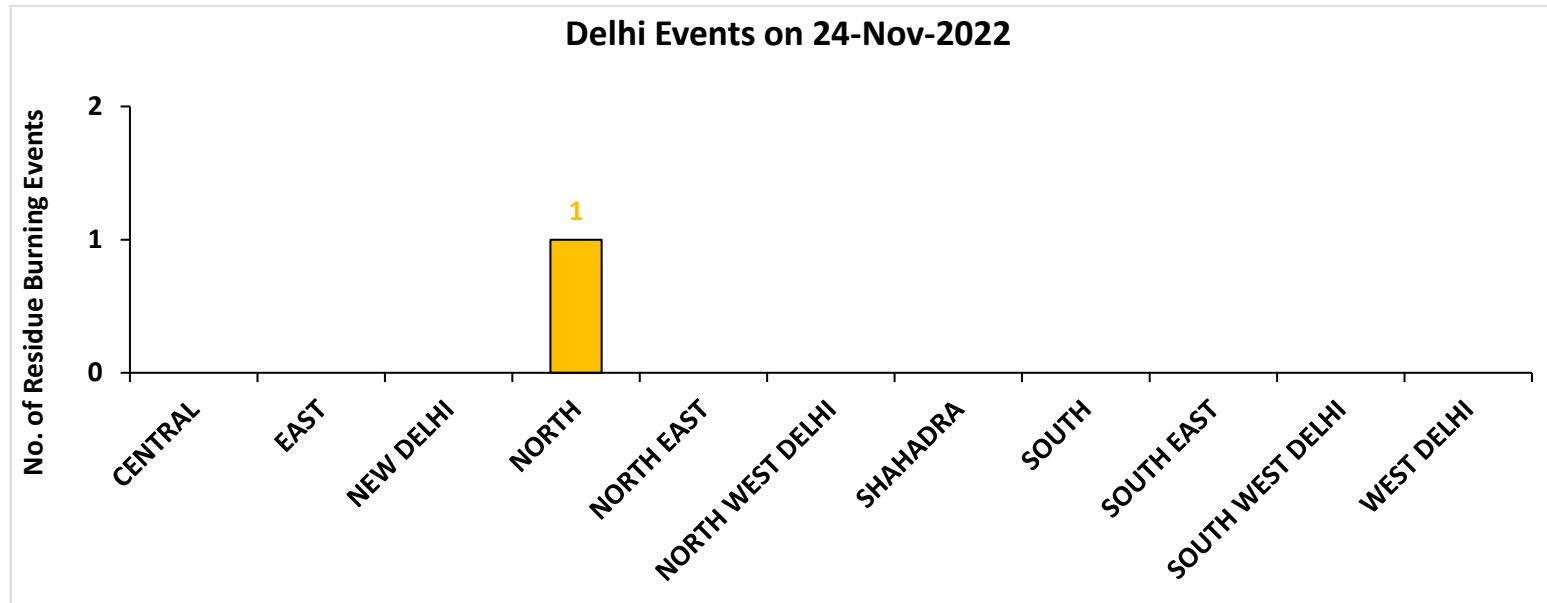
**01** burning events  
detected in Delhi on  
(24th Nov 2022)

### Fire Intensity (W/m<sup>2</sup>)

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



## District-wise cumulative number of residues burning events in Delhi (15Sep- 24Nov-2022)



**District-wise cumulative number of residues burning events detected in 2020 ,2021 and 2022**  
**(Period: 15 September-24 November)**

**(a) Punjab**

District	15 Sep-24 Nov 2022		
	2020	2021	2022
Amritsar	3059	2171	1541
Barnala	5336	4325	2910
Bathinda	5226	4477	4585
Faridkot	4727	3950	2686
Fatehgarh Sahib	1536	1721	1148
Fazilka	2523	2376	2565
Firozpur	8509	6285	4552
Gurdaspur	2124	1391	843
Hoshiarpur	386	328	258
Jalandhar	1939	2545	1384
Kapurthala	1883	1796	1278
Ludhiana	5054	5814	2678
Mansa	3780	3208	2812
Moga	7396	6515	3605
Muktsar	4989	4576	3853
Pathankot	13	6	1
Patiala	6431	5421	3394
Rupnagar	205	307	246
Sangrur	11724	9385	5915
SAS NAGAR (Mohali)	127	147	103
SBS Nagar	131	354	270
Tarn Taran	5604	4117	3183
<b>Total</b>	<b>82702</b>	<b>71215</b>	<b>49810</b>

**(b) Haryana**

District	15 Sep-24 Nov 2022		
	2020	2021	2022
AMBALA	346	303	224
BHIWANI	4	10	9
CHARKHI DADRI	0	0	1
FARIDABAD	1	3	1
FATEHABAD	842	1461	759
GURGAON	0	0	0
HISAR	52	220	111
JHAJJAR	6	7	7
JIND	343	901	523
KAITHAL	838	1152	640
KARNAL	581	952	297
KURUKSHETRA	406	538	300
MAHENDRAGARH	0	0	0
MEWAT	0	0	0
PALWAL	46	114	51
PANCHKULA	0	0	0
PANIPAT	50	241	80
REWARI	0	0	0
ROHTAK	48	65	53
SIRSA	261	517	288
SONIPAT	70	199	89
YAMUNANAGAR	142	146	148
<b>Total</b>	<b>4036</b>	<b>6829</b>	<b>3581</b>



(c) Uttar Pradesh

District	15 Sep-24 Nov 2022										
	2020	2021	2022	GAUTAMBUDHNAGAR	15	19	10	MUZAFARNAGAR	48	19	17
AGRA	7	0	0	GAZIPUR	20	24	20	PILHIBHIT	21	213	143
ALIGARH	113	39	43	GHAZIABAD	26	14	8	PRATAPGARH	40	35	22
ALLAHABAD	28	18	15	GONDA	12	11	1	RAIBEARELI	38	76	36
AMBEDKARNAGAR	31	26	27	GORAKHPUR	42	27	34	RAMPUR	163	187	103
AMETHI	4	20	14	HAMIRPUR	6	0	0	SAMBHAL	19	17	13
AMROHA	12	8	5	HAPUR	31	13	7	SANTKABIRNAGAR	29	20	10
AURAIYA	82	66	51	HARDOI	99	103	71	SANTRAVIDASNAGAR	4	5	4
AZAMGARH	55	26	17	HATHRAS	0	0	1	SHAHJAHANPUR	141	406	306
BADAUN	14	16	4	JALAUN	43	0	0	SHAMLI	46	38	10
BAGHPAT	18	12	11	JAUNPUR	45	31	25	SAHARANPUR	95	70	17
BAHRAICH	105	59	21	JHANSI	335	101	118	SHRAWASTI	45	45	18
BALLIA	109	59	35	KANNAUJ	33	6	3	SIDDHARTHANAGAR	73	128	38
BALRAMPUR	67	20	12	KANPUR	31	33	26	SITAPUR	62	46	27
BANDA	32	9	15	KANPUR DEHAT	80	47	49	SONBHADRA	0	2	0
BARABANKI	36	68	58	KASGANJ	3	2	1	SULTANPUR	5	23	22
BAREILLY	79	63	51	KAUSHAMBI	79	77	40	UNNAO	44	28	32
BASTI	55	50	13	KHERI	165	160	138	VARANASI	2	5	0
BIJNOR	40	38	11	KUSHINAGAR	76	34	37	<b>Total</b>	<b>3796</b>	<b>3463</b>	<b>2295</b>
BULANDSAHAR	59	9	20	LALITPUR	3	6	3				
CHANDAULI	12	5	3	LUCKNOW	35	33	14				
CHITRAKOOT	12	9	10	MAHARAJGANJ	51	134	121				
DEORIA	82	28	33	MAHOBA	27	0	0				
ETAH	17	10	7	MAINPURI	63	49	36				
ETAWAH	71	87	55	MATHURA	160	239	30				
FAIZABAD	13	11	5	MAU	28	16	10				
FARRUKHABAD	6	4	1	MEERUT	71	29	29				
FATEHPUR	120	93	88	MIRZAPUR	9	10	2				
FIROZABAD	26	17	10	MORADABAD	28	12	8				

**(d) Delhi**

District	15 Sep-24 Nov 2022		
	2020	2021	2022
CENTRAL	0	0	0
EAST	0	0	0
NEW DELHI	0	0	0
NORTH	3	3	9
NORTH EAST	0	0	0
NORTH WEST DELHI	3	1	0
SHAHADRA	0	0	0
SOUTH	1	0	0
SOUTH EAST	0	0	0
SOUTH WEST DELHI	0	0	0
WEST DELHI	2	0	1
<b>Total</b>	<b>9</b>	<b>4</b>	<b>10</b>

**(e) Rajasthan**

District	15 Sep-24 Nov 2022		
	2020	2021	2022
AJMER	3	0	0
ALWAR	9	0	0
BANSWARA	0	0	0
BARAN	167	11	77
BARMER	4	0	0
BHARATPUR	2	3	1
BHILWARA	11	0	0
BIKANER	1	0	0
BUNDI	128	84	180
CHITTAURGARH	2	13	8
CHURU	0	0	0
DAUSA	1	0	0
DHOLPUR	0	0	0
DUNGARPUR	0	0	2
GANGANAGAR	202	136	103
HANUMANGARH	894	909	671
JAIPUR	4	0	0
JAISELMER	5	0	0
JALOR	2	0	0
JHALAWAR	9	1	11
JHUNJHUNUN	1	0	0
JODHPUR	5	0	0
KARAULI	1	0	0
KOTA	116	56	145
NAGAUR	3	0	0
PALI	11	0	0
PRATAPGARH	8	0	0
RAJSMAND	1	0	0
SIKAR	0	0	0
SIROHI	2	0	0
SWAIMADHOPUR	65	34	55
TONK	5	0	0
UDAIPUR	2	1	2
<b>Total</b>	<b>1664</b>	<b>1248</b>	<b>1255</b>

(f) Madhya Pradesh

District	15 Sep-24 Nov 2022						
	2020	2021	2022	PANNA	50	20	34
ALIRAJPUR	0	0	0	RAISEN	597	320	412
ANUPPUR	3	2	5	RAJGARH	11	3	5
ASHOKNAGAR	156	89	186	RATLAM	10	5	3
BALAGHAT	5	4	3	REWA	134	90	72
BARWANI	4	0	0	SAGAR	28	30	54
BETUL	36	14	22	SATNA	566	429	378
BHIND	256	146	202	SEHORE	159	147	210
BHOPAL	50	38	36	SEONI	1230	883	1110
BURHANPUR	16	1	4	SHAHDOL	3	1	1
CHHATARPUR	9	0	2	SHAJAPUR	20	0	0
CHHINDWARA	135	55	100	SHEOPUR	1857	954	1800
DAMOH	75	52	68	SHIVPURI	378	66	271
DATIA	1185	474	848	SIDHI	4	4	2
DEWAS	8	0	0	SINGRAULI	0	6	3
DHAR	43	0	0	TIKAMGARH	4	0	1
DINDORI	0	0	1	UJJAIN	14	0	0
EAST NIMAR	23	7	11	UMARIA	8	7	10
GUNA	69	11	120	VIDESHA	142	95	87
GWALIOR	2037	508	1563	WEST NIMAR	66	10	17
HARDA	14	21	10	<b>Total</b>	<b>13793</b>	<b>6811</b>	<b>10833</b>
HOSHANGABAD	1057	1061	1095				
INDORE	4	0	0				
JABALPUR	2502	880	1500				
JHABUA	0	0	0				
KATNI	323	93	191				
MANDLA	144	96	131				
MANDSAUR	14	0	0				
MORENA	62	37	25				
NARSHIMAPURA	280	152	240				
NIMACH	2	0	0				

**State-wise and date-wise number of paddy residue burning events detected in 2020, 2021 and 2022**  
**(Period: 15 September - 24 November 2022)**

**Number of Paddy Residue Burning Events Detected**

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

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

<b>09-Nov</b>	1718	5079	1778	21	217	69	115	51	58	0	1	0	34	48	22	495	330	570
<b>10-Nov</b>	3127	4008	1893	80	184	35	101	77	33	0	0	0	48	40	34	346	380	282
<b>11-Nov</b>	2822	4156	3916	93	126	152	71	151	36	0	1	0	75	55	95	418	506	482
<b>12-Nov</b>	1989	3403	2467	83	127	99	108	120	36	0	0	0	31	40	84	422	185	421
<b>13-Nov</b>	2441	3742	2175	105	210	132	172	95	102	0	2	0	54	78	63	670	171	773
<b>14-Nov</b>	307	2541	4	35	195	17	258	49	101	0	0	0	16	88	1	294	346	633
<b>15-Nov</b>	32	1761	141	31	129	21	29	67	84	0	0	0	6	51	2	35	353	507
<b>16-Nov</b>	8	1757	1358	0	269	84	15	138	48	0	0	0	16	81	78	145	660	316
<b>17-Nov</b>	248	523	966	9	101	39	38	177	50	0	0	0	60	38	48	191	261	416
<b>18-Nov</b>	670	680	701	60	111	108	62	14	66	0	0	0	75	77	55	352	126	524
<b>19-Nov</b>	454	448	426	37	132	79	129	11	116	0	0	0	27	73	19	124	16	625
<b>20-Nov</b>	677	283	368	77	127	32	134	20	168	0	0	0	59	53	15	106	6	556
<b>21-Nov</b>	457	168	243	65	178	11	135	106	46	0	0	0	57	72	12	159	95	196
<b>22-Nov</b>	46	66	78	15	91	20	120	276	76	0	0	0	9	21	4	165	188	170
<b>23-Nov</b>	43	91	140	52	59	27	106	186	73	0	0	0	66	61	10	150	262	259
<b>24-Nov</b>	9	34	66	20	37	32	167	87	195	0	0	1	13	26	14	258	224	299
<b>Total</b>	<b>82702</b>	<b>71215</b>	<b>49810</b>	<b>4036</b>	<b>6829</b>	<b>3581</b>	<b>3796</b>	<b>3463</b>	<b>2295</b>	<b>9</b>	<b>4</b>	<b>10</b>	<b>1664</b>	<b>1248</b>	<b>1255</b>	<b>13793</b>	<b>6811</b>	<b>10833</b>

### Details of residue burning events in Punjab on 24-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	RAYYA	S-NPP	31.55977	75.25073	13:29:41	D	1.70
2	BARNALA	SEHNA	S-NPP	30.46200	75.36179	13:29:41	D	2.80
3	BATHINDA	BATHINDA	S-NPP	30.16934	74.91982	13:29:41	D	4.10
4	BATHINDA	BHAGTA BHAI KA	S-NPP	30.46253	75.18896	13:29:41	D	8.30
5	BATHINDA	MAUR	S-NPP	30.08438	75.17937	13:29:41	D	2.00
6	BATHINDA	RAMPURA	S-NPP	30.19826	75.23482	13:29:41	D	3.50
7	BATHINDA	SANGAT	S-NPP	30.11524	74.90223	13:29:41	D	9.80
8	BATHINDA	SANGAT	S-NPP	30.12123	74.89685	13:29:41	D	4.80
9	BATHINDA	TALWANDI SABO	S-NPP	29.97866	75.15179	13:29:41	D	1.30
10	BATHINDA	TALWANDI SABO	S-NPP	29.98197	75.15111	13:29:41	D	5.20
11	FARIDKOT	FARIDKOT	S-NPP	30.69303	74.73704	13:29:41	D	17.90
12	FAZILKA	ABOHAR	S-NPP	30.15979	74.29248	13:29:41	D	2.60
13	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.29503	74.24269	13:29:41	D	4.10
14	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.41452	74.20448	13:29:41	D	8.70
15	FAZILKA	FAZILKA	S-NPP	30.37645	74.11948	13:29:41	D	2.90
16	FAZILKA	FAZILKA	S-NPP	30.37979	74.11874	13:29:41	D	2.40
17	FAZILKA	FAZILKA	S-NPP	30.40394	74.06735	13:29:41	D	6.50
18	FAZILKA	FAZILKA	S-NPP	30.44891	74.15100	13:29:41	D	0.90
19	FAZILKA	FAZILKA	S-NPP	30.45797	73.95302	13:29:41	D	6.30
20	FAZILKA	JALALABAD	S-NPP	30.51417	74.33959	13:29:41	D	2.30
21	FAZILKA	KHUIAN SARWAR	S-NPP	30.25083	74.05709	13:29:41	D	4.60
22	FAZILKA	KHUIAN SARWAR	S-NPP	30.26621	74.02386	13:29:41	D	1.50
23	FIROZPUR	GURUHAR SAHAI	S-NPP	30.68307	74.29615	13:29:41	D	11.80
24	FIROZPUR	GURUHAR SAHAI	TERRA	30.69400	74.35500	11:10:31	D	10.60
25	GURDASPUR	BATALA	S-NPP	31.73310	75.27848	13:29:41	D	2.10
26	GURDASPUR	QADIAN	S-NPP	31.78361	75.40956	13:29:41	D	1.70
27	HOSHIARPUR	TANDA	S-NPP	31.66910	75.61926	13:29:41	D	2.10
28	JALANDHAR	LOHIAN	S-NPP	31.18402	75.27795	13:29:41	D	4.10
29	JALANDHAR	SHAHKOT	S-NPP	31.07615	75.25807	13:29:41	D	2.50

30	JALANDHAR	SHAHKOT	S-NPP	31.07945	75.25739	13:29:41	D	2.50
31	KAPURTHALA	KAPURTHALA	S-NPP	31.35971	75.32088	13:29:41	D	7.90
32	KAPURTHALA	KAPURTHALA	S-NPP	31.36201	75.29140	13:29:41	D	3.00
33	KAPURTHALA	KAPURTHALA	S-NPP	31.36263	75.29542	13:29:41	D	2.70
34	LUDHIANA	LUDHIANA-1	S-NPP	30.88109	75.99560	02:18:58	N	0.60
35	MANSA	BHIKHI	S-NPP	30.12626	75.55997	13:29:41	D	16.70
36	MANSA	BUDHLADA	S-NPP	29.90184	75.57632	13:29:41	D	9.70
37	MANSA	BUDHLADA	TERRA	29.79900	75.52600	11:10:31	D	9.40
38	MANSA	MANSA	S-NPP	30.01375	75.33308	13:29:41	D	4.50
39	MANSA	SARDULGARH	S-NPP	29.57322	75.24584	13:29:41	D	13.60
40	MANSA	SARDULGARH	S-NPP	29.66963	75.27940	13:29:41	D	4.30
41	MANSA	SARDULGARH	TERRA	29.65500	75.26900	11:10:31	D	5.60
42	MUKTSAR	LAMBI	TERRA	30.07300	74.67300	11:10:31	D	10.80
43	MUKTSAR	MALOUT	S-NPP	30.16907	74.34946	13:29:41	D	1.30
44	MUKTSAR	MALOUT	S-NPP	30.18707	74.35400	13:29:41	D	4.90
45	MUKTSAR	MALOUT	S-NPP	30.26161	74.31322	13:29:41	D	2.10
46	MUKTSAR	MALOUT	S-NPP	30.29160	74.32780	13:29:41	D	2.30
47	MUKTSAR	MUKTSAR	S-NPP	30.40554	74.40453	13:29:41	D	6.20
48	MUKTSAR	MUKTSAR	S-NPP	30.42605	74.44626	13:29:41	D	2.00
49	MUKTSAR	MUKTSAR	S-NPP	30.46280	74.69721	13:29:41	D	6.50
50	MUKTSAR	MUKTSAR	S-NPP	30.46611	74.69650	13:29:41	D	4.80
51	MUKTSAR	MUKTSAR	S-NPP	30.46793	74.60034	13:29:41	D	6.70
52	MUKTSAR	MUKTSAR	S-NPP	30.50129	74.45158	13:29:41	D	3.00
53	MUKTSAR	MUKTSAR	S-NPP	30.50248	74.50157	13:29:41	D	2.10
54	MUKTSAR	MUKTSAR	S-NPP	30.50723	74.46706	13:29:41	D	19.00
55	MUKTSAR	MUKTSAR	S-NPP	30.55821	74.50634	13:29:41	D	2.60
56	MUKTSAR	MUKTSAR	S-NPP	30.58963	74.41259	13:29:41	D	6.40
57	MUKTSAR	MUKTSAR	S-NPP	30.61052	74.54210	13:29:41	D	1.60
58	MUKTSAR	MUKTSAR	TERRA	30.49700	74.50000	11:10:31	D	8.80
59	MUKTSAR	MUKTSAR	TERRA	30.50600	74.50200	11:10:31	D	7.80
60	MUKTSAR	MUKTSAR	AQUA	30.51600	74.38100	13:07:45	D	30.80
61	PATIALA	PATIALA	S-NPP	30.39081	76.37431	13:29:41	D	2.10
62	PATIALA	PATIALA	S-NPP	30.48409	76.34396	13:29:41	D	4.60
63	RUPNAGAR	NURPUR BEDI	S-NPP	31.13493	76.54604	13:29:41	D	2.00



64	SANGRUR	MALERKOTLA-1	S-NPP	30.56924	75.95631	13:29:41	D	1.10
65	TARN TARAN	BHIKHIWIND	S-NPP	31.33589	74.74873	13:29:41	D	2.80
66	TARN TARAN	BHIKHIWIND	S-NPP	31.33919	74.74802	13:29:41	D	2.80

**Details of residue burning events in Delhi on 24-Nov-2022**

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	NORTH	ALIPUR	S-NPP	28.82969	77.15163	02:18:58	N	0.70

### Details of residue burning events in Haryana on 24-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	SAHA	S-NPP	30.29633	77.07513	13:29:41	D	2.80
2	BHIWANI	BAWANI KHERA	S-NPP	28.85708	76.04853	13:29:41	D	7.80
3	BHIWANI	BAWANI KHERA	S-NPP	29.02044	76.07790	13:29:41	D	2.90
4	FATEHABAD	BHUNA	S-NPP	29.54970	75.79621	13:29:41	D	1.90
5	FATEHABAD	FATEHABAD	S-NPP	29.60321	75.46014	13:29:41	D	5.90
6	FATEHABAD	RATIA	S-NPP	29.67907	75.38361	13:29:41	D	1.90
7	FATEHABAD	RATIA	S-NPP	29.70957	75.53656	13:29:41	D	30.10
8	HISAR	HANSI-I	S-NPP	29.07392	75.89748	13:29:41	D	1.20
9	HISAR	HANSI-II	S-NPP	29.12825	76.27949	13:29:41	D	1.50
10	HISAR	HANSI-II	S-NPP	29.13156	76.27884	13:29:41	D	2.10
11	HISAR	HANSI-II	S-NPP	29.14314	76.21986	13:29:41	D	2.10
12	HISAR	UKLANA	S-NPP	29.53349	75.91325	13:29:41	D	0.90
13	JHAJJAR	SALHAWAS	S-NPP	28.51924	76.59737	13:29:41	D	1.20
14	JIND	JIND	S-NPP	29.24993	76.47918	13:29:41	D	4.30
15	JIND	JIND	S-NPP	29.28991	76.43102	13:29:41	D	2.90
16	JIND	JIND	S-NPP	29.37687	76.35802	13:29:41	D	6.40
17	KAITHAL	PUNDRI	S-NPP	29.82215	76.66640	13:29:41	D	4.90
18	KAITHAL	PUNDRI	S-NPP	29.82409	76.66628	13:29:41	D	2.00
19	KURUKSHETRA	THANESAR	S-NPP	29.96502	76.95470	13:29:41	D	2.30
20	ROHTAK	LAKHAN MAJRA	S-NPP	29.06732	76.41277	13:29:41	D	2.70
21	ROHTAK	MEHAM	S-NPP	29.00468	76.46927	13:29:41	D	2.10
22	SIRSA	BARAGUNDA	S-NPP	29.59335	75.01222	13:29:41	D	3.80
23	SIRSA	BARAGUNDA	S-NPP	29.74427	75.23646	13:29:41	D	1.50
24	SIRSA	ELLENABAD	S-NPP	29.49007	74.78603	13:29:41	D	3.10
25	SIRSA	RANIA	S-NPP	29.47160	74.88496	13:29:41	D	4.20
26	SIRSA	RANIA	S-NPP	29.54490	74.64609	13:29:41	D	2.80
27	SIRSA	SIRSA	S-NPP	29.51588	75.16349	13:29:41	D	3.00
28	SIRSA	SIRSA	S-NPP	29.58101	75.12137	13:29:41	D	8.60
29	SONIPAT	GOHANA	S-NPP	29.17232	76.82446	13:29:41	D	5.30
30	SONIPAT	KATHURA	S-NPP	29.06985	76.59097	13:29:41	D	1.90
31	SONIPAT	KATHURA	S-NPP	29.13868	76.54932	13:29:41	D	4.00
32	YAMUNANAGAR	BILASPUR	S-NPP	30.28376	77.25546	13:29:41	D	6.10

### Details of residue burning events in Uttar Pradesh on 24-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	GABHANA	S-NPP	28.04668	77.94633	13:29:41	D	2.70
2	ALLAHABAD	BARA	S-NPP	25.09836	81.69688	13:29:41	D	6.20
3	ALLAHABAD	BARA	S-NPP	25.10089	81.69398	13:29:41	D	7.30
4	ALLAHABAD	BARA	S-NPP	25.21308	81.78452	02:18:58	N	0.40
5	AMBEDKARNAGAR	TANDA	S-NPP	26.50259	82.70689	13:29:41	D	3.10
6	AMBEDKARNAGAR	TANDA	S-NPP	26.50328	82.70704	13:29:41	D	2.00
7	AMETHI	GAURIGANJ	S-NPP	26.27563	81.65530	13:29:41	D	4.10
8	AMETHI	GAURIGANJ	AQUA	26.37500	81.71100	13:07:45	D	8.90
9	AMROHA	AMROHA	S-NPP	28.81793	78.42055	13:29:41	D	2.40
10	AURAIYA	AURAIYA	S-NPP	26.50671	79.37577	13:29:41	D	3.10
11	AURAIYA	AURAIYA	S-NPP	26.55658	79.64082	13:29:41	D	2.60
12	AURAIYA	AURAIYA	S-NPP	26.59389	79.43861	13:29:41	D	5.80
13	AURAIYA	AURAIYA	S-NPP	26.59625	79.42930	13:29:41	D	4.40
14	AURAIYA	AURAIYA	S-NPP	26.60607	79.53067	13:29:41	D	2.90
15	AURAIYA	AURAIYA	S-NPP	26.63021	79.46842	13:29:41	D	2.70
16	AURAIYA	BIDHUNA	S-NPP	26.66072	79.50949	13:29:41	D	6.10
17	AURAIYA	BIDHUNA	S-NPP	26.68021	79.66027	13:29:41	D	2.70
18	AURAIYA	BIDHUNA	S-NPP	26.68369	79.49226	13:29:41	D	1.40
19	AURAIYA	BIDHUNA	S-NPP	26.68731	79.65913	13:29:41	D	4.00
20	AURAIYA	BIDHUNA	S-NPP	26.76535	79.64583	02:18:58	N	0.70
21	AZAMGARH	AZAMGARH	S-NPP	26.00208	83.27801	13:29:41	D	1.50
22	AZAMGARH	BURHANPUR	S-NPP	26.21780	83.06411	13:29:41	D	2.40
23	AZAMGARH	SAGRI	AQUA	26.13000	83.38800	13:07:45	D	9.20
24	BAGHPAT	BAGHPAT	TERRA	29.01700	77.33100	11:10:31	D	8.70
25	BAGHPAT	BARAUT	S-NPP	29.14386	77.37878	13:29:41	D	4.10
26	BALLIA	BANSDIH	S-NPP	25.90614	84.11216	13:29:41	D	5.70
27	BALLIA	BANSDIH	S-NPP	25.90735	84.11427	13:29:41	D	4.20
28	BALLIA	RASRA	S-NPP	25.87073	83.95096	13:29:41	D	4.30
29	BALLIA	SIKANDARPUR	AQUA	26.03900	84.02300	13:07:45	D	6.70

30	BALRAMPUR	BALRAMPUR	S-NPP	27.64469	82.33731	13:29:41	D	3.20
31	BANDA	BABERU	S-NPP	25.54505	80.82585	13:29:41	D	7.30
32	BANDA	BABERU	S-NPP	25.64560	80.77292	13:29:41	D	7.20
33	BANDA	BABERU	S-NPP	25.65670	80.77123	13:29:41	D	8.20
34	BARABANKI	Haidargarh	S-NPP	26.57735	81.45467	13:29:41	D	3.40
35	BARABANKI	Haidargarh	S-NPP	26.57751	81.45747	13:29:41	D	2.00
36	BAREILLY	FARIDPUR	S-NPP	28.27971	79.70087	13:29:41	D	2.40
37	BAREILLY	MIRGANJ	S-NPP	28.54746	79.36324	13:29:41	D	5.00
38	BASTI	BASTI	S-NPP	26.80366	82.84184	13:29:41	D	3.10
39	BASTI	BHANPUR	AQUA	26.95300	82.71200	13:07:45	D	6.20
40	BASTI	RUDHAULI	S-NPP	26.97696	82.83018	13:29:41	D	4.30
41	BASTI	RUDHAULI	S-NPP	27.00045	82.76973	13:29:41	D	5.80
42	BIJNOR	BIJNOR	TERRA	29.38700	78.09800	11:10:31	D	8.00
43	BIJNOR	NAGINA	S-NPP	29.46508	78.37168	13:29:41	D	1.80
44	BULANSAHAR	ANUP SHAHR	S-NPP	28.44955	78.21703	13:29:41	D	2.10
45	BULANSAHAR	BULANSHAHR	AQUA	28.55400	77.86400	13:07:45	D	16.30
46	BULANSAHAR	KHURJA	S-NPP	28.19656	77.89602	13:29:41	D	3.20
47	BULANSAHAR	SHIKARPUR	S-NPP	28.22214	78.00495	13:29:41	D	2.70
48	BULANSAHAR	SIYANA	S-NPP	28.62591	78.15662	13:29:41	D	2.90
49	CHANDAULI	CHAKIA	S-NPP	25.04888	83.30756	13:29:41	D	3.10
50	CHANDAULI	CHANDAULI	S-NPP	25.18363	83.32695	13:29:41	D	2.40
51	CHANDAULI	CHANDAULI	AQUA	25.14800	83.29600	13:07:45	D	8.10
52	DEORIA	DEORIA	S-NPP	26.61661	83.71603	13:29:41	D	2.90
53	DEORIA	DEORIA	S-NPP	26.68329	83.83718	13:29:41	D	4.10
54	DEORIA	DEORIA	AQUA	26.56700	83.91400	13:07:45	D	5.80
55	ETAH	ETAH	S-NPP	27.48420	78.46314	13:29:41	D	2.00
56	ETAWAH	BHARTHNA	S-NPP	26.64215	79.28538	13:29:41	D	2.00
57	ETAWAH	BHARTHNA	S-NPP	26.65281	79.20443	13:29:41	D	5.00
58	ETAWAH	BHARTHNA	S-NPP	26.67435	79.15270	13:29:41	D	2.70
59	ETAWAH	BHARTHNA	S-NPP	26.69407	79.16695	13:29:41	D	3.50
60	ETAWAH	BHARTHNA	S-NPP	26.94759	79.23391	13:29:41	D	2.20
61	ETAWAH	CHAKARNAGAR	S-NPP	26.63431	79.17246	13:29:41	D	3.40
62	ETAWAH	JASWANTNAGAR	S-NPP	26.93904	78.80181	02:18:58	N	1.00
63	FAIZABAD	MILKIPUR	AQUA	26.51200	82.02500	13:07:45	D	12.40

64	FATEHPUR	FATEHPUR	S-NPP	25.96636	80.86330	13:29:41	D	14.90
65	FATEHPUR	KHAGA	S-NPP	25.56779	81.19791	13:29:41	D	3.20
66	FATEHPUR	KHAGA	S-NPP	25.72252	81.02610	13:29:41	D	2.10
67	FATEHPUR	KHAGA	S-NPP	25.73986	81.19767	13:29:41	D	3.80
68	FATEHPUR	KHAGA	S-NPP	25.91792	81.11993	13:29:41	D	6.50
69	FATEHPUR	KHAGA	AQUA	25.65900	80.97200	13:07:45	D	14.10
70	FATEHPUR	KHAGA	AQUA	25.66200	80.98900	13:07:45	D	22.20
71	GAZIPUR	GAZIPUR	AQUA	25.68200	83.59900	13:07:45	D	8.10
72	GAZIPUR	JAKHANIA	S-NPP	25.70457	83.24224	13:29:41	D	2.80
73	GAZIPUR	MUHAMMADBAD	S-NPP	25.64946	83.71023	13:29:41	D	3.20
74	GAZIPUR	MUHAMMADBAD	S-NPP	25.71539	83.87052	13:29:41	D	3.70
75	GHAZIABAD	MODINAGAR	S-NPP	28.82628	77.59372	13:29:41	D	3.10
76	GORAKHPUR	CAMPIERGANJ	S-NPP	26.93583	83.36559	13:29:41	D	3.10
77	GORAKHPUR	CHAURI CHAURA	S-NPP	26.68253	83.57086	13:29:41	D	1.90
78	GORAKHPUR	GORAKHPUR	S-NPP	26.76044	83.50976	13:29:41	D	7.50
79	GORAKHPUR	GORAKHPUR	S-NPP	26.76094	83.51452	13:29:41	D	7.50
80	GORAKHPUR	GORAKHPUR	S-NPP	26.83294	83.48717	13:29:41	D	4.30
81	GORAKHPUR	GORAKHPUR	AQUA	26.76700	83.50900	13:07:45	D	12.30
82	GORAKHPUR	GORAKHPUR	AQUA	26.80000	83.52600	13:07:45	D	10.80
83	GORAKHPUR	GORAKHPUR	AQUA	26.82800	83.49000	13:07:45	D	6.70
84	HAPUR	GARHMUKTESAR	S-NPP	28.87136	78.06897	13:29:41	D	6.10
85	HAPUR	HAPUR	S-NPP	28.67867	77.70780	13:29:41	D	2.10
86	HARDOI	BILGRAM	S-NPP	27.00179	80.20874	13:29:41	D	2.10
87	HARDOI	BILGRAM	S-NPP	27.04260	80.17815	13:29:41	D	5.10
88	HARDOI	SHAHABAD	S-NPP	27.64753	80.30846	13:29:41	D	3.60
89	HARDOI	SHAHABAD	S-NPP	27.65438	80.27236	13:29:41	D	13.10
90	JAUNPUR	KIRAKAT	S-NPP	25.58706	82.76584	13:29:41	D	3.90
91	JAUNPUR	KIRAKAT	AQUA	25.58100	82.76700	13:07:45	D	8.00
92	JAUNPUR	KIRAKAT	AQUA	25.58200	82.75900	13:07:45	D	9.20
93	JAUNPUR	MACHHALI SAHAR	S-NPP	25.61136	82.14990	13:29:41	D	10.90
94	JAUNPUR	SHHGANJ	S-NPP	26.11251	82.61775	13:29:41	D	3.30
95	JAUNPUR	SHHGANJ	AQUA	25.95600	82.73100	13:07:45	D	8.50
96	JHANSI	JHANSI	S-NPP	25.49359	78.68774	13:29:41	D	6.90
97	JHANSI	JHANSI	S-NPP	25.49527	78.69981	13:29:41	D	3.70

98	JHANSI	JHANSI	S-NPP	25.49583	78.70383	13:29:41	D	3.70
99	JHANSI	JHANSI	S-NPP	25.51225	78.69693	13:29:41	D	8.30
100	JHANSI	MOTH	S-NPP	25.69412	78.90321	13:29:41	D	10.50
101	JHANSI	MOTH	S-NPP	25.73304	78.93499	13:29:41	D	2.40
102	JHANSI	MOTH	S-NPP	25.75988	78.92628	13:29:41	D	2.80
103	JHANSI	MOTH	S-NPP	25.76959	78.92046	13:29:41	D	4.80
104	JHANSI	MOTH	S-NPP	25.88942	78.91541	02:18:58	N	1.50
105	KANPUR	BILHAUR	S-NPP	26.65491	80.04774	13:29:41	D	5.80
106	KANPUR	KANPUR NAGAR	S-NPP	26.38900	80.16976	13:29:41	D	5.40
107	KANPUR DEHAT	DERAPUR	S-NPP	26.52925	79.76363	13:29:41	D	3.80
108	KANPUR DEHAT	RASULABAD	S-NPP	26.69726	79.85072	13:29:41	D	3.10
109	KANPUR DEHAT	RASULABAD	S-NPP	26.71585	79.82456	13:29:41	D	2.50
110	KAUSHAMBI	MANJHANPUR	S-NPP	25.45551	81.27940	13:29:41	D	3.20
111	KAUSHAMBI	MANJHANPUR	S-NPP	25.47507	81.25069	13:29:41	D	3.70
112	KAUSHAMBI	MANJHANPUR	S-NPP	25.48218	81.36909	13:29:41	D	14.40
113	KAUSHAMBI	MANJHANPUR	S-NPP	25.48648	81.28000	13:29:41	D	3.00
114	KHERI	DHAURAHRA	S-NPP	28.13433	80.91801	13:29:41	D	7.00
115	KHERI	GOLA	S-NPP	28.13019	80.46230	13:29:41	D	2.80
116	KHERI	LAKHIMPUR	S-NPP	27.94534	80.70935	13:29:41	D	2.60
117	KHERI	LAKHIMPUR	S-NPP	28.08445	80.78130	13:29:41	D	4.50
118	KHERI	MOHMADI	S-NPP	27.97659	80.24329	13:29:41	D	2.80
119	KUSHINAGAR	HATA	S-NPP	26.68028	83.63438	13:29:41	D	3.60
120	KUSHINAGAR	HATA	S-NPP	26.77650	83.66351	13:29:41	D	4.50
121	KUSHINAGAR	HATA	S-NPP	26.93816	83.65133	13:29:41	D	3.60
122	KUSHINAGAR	HATA	AQUA	26.83100	83.71200	13:07:45	D	13.10
123	KUSHINAGAR	HATA	AQUA	26.84400	83.67400	13:07:45	D	5.70
124	KUSHINAGAR	HATA	AQUA	26.93300	83.64900	13:07:45	D	5.60
125	KUSHINAGAR	KASAYA	S-NPP	26.67147	84.03745	13:29:41	D	4.20
126	MAHARAJGANJ	MAHARAJGANJ	S-NPP	26.98481	83.71011	13:29:41	D	3.60
127	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.02976	83.53671	13:29:41	D	4.10
128	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.03297	83.53888	13:29:41	D	4.00
129	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.07193	83.61257	13:29:41	D	7.60
130	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.07877	83.54778	13:29:41	D	10.40
131	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.12022	83.55727	13:29:41	D	7.70

132	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.17155	83.54296	13:29:41	D	4.20
133	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.18342	83.57101	13:29:41	D	9.00
134	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.21405	83.56224	13:29:41	D	4.00
135	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.21594	83.53739	13:29:41	D	1.80
136	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.21966	83.61599	13:29:41	D	3.80
137	MAHARAJGANJ	MAHARAJGANJ	AQUA	26.98500	83.64400	13:07:45	D	8.50
138	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.03200	83.48300	13:07:45	D	6.90
139	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.06200	83.61000	13:07:45	D	6.90
140	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.16400	83.54700	13:07:45	D	16.00
141	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.17300	83.66400	13:07:45	D	7.30
142	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.19800	83.57500	13:07:45	D	7.60
143	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.21900	83.61200	13:07:45	D	8.80
144	MAHARAJGANJ	NICHLAUL	S-NPP	27.14618	83.69504	13:29:41	D	4.00
145	MAHARAJGANJ	NICHLAUL	S-NPP	27.15913	83.68839	13:29:41	D	3.60
146	MAHARAJGANJ	NICHLAUL	AQUA	27.12500	83.69200	13:07:45	D	7.40
147	MAHARAJGANJ	NICHLAUL	AQUA	27.12800	83.68600	13:07:45	D	14.50
148	MAHARAJGANJ	NICHLAUL	AQUA	27.17900	83.69900	13:07:45	D	5.90
149	MAHARAJGANJ	NICHLAUL	AQUA	27.22600	83.71800	13:07:45	D	7.30
150	MAHARAJGANJ	NICHLAUL	AQUA	27.30200	83.70200	13:07:45	D	10.80
151	MAHARAJGANJ	NICHLAUL	AQUA	27.35000	83.73300	13:07:45	D	5.00
152	MAINPURI	KARHAL	S-NPP	27.09318	79.00831	13:29:41	D	6.20
153	MAINPURI	MAINPURI	S-NPP	27.10128	78.98947	13:29:41	D	4.60
154	MAINPURI	MAINPURI	S-NPP	27.28803	78.79412	02:18:58	N	0.80
155	MAU	MADHUBAN	S-NPP	26.07276	83.64157	13:29:41	D	2.30
156	MAU	MUHAMMADABAD	S-NPP	25.91760	83.39777	13:29:41	D	10.30
157	MAU	MUHAMMADABAD	S-NPP	25.91810	83.40231	13:29:41	D	10.30
158	MEERUT	MAWANA	S-NPP	28.91207	77.95885	13:29:41	D	5.70
159	MEERUT	MAWANA	S-NPP	29.15369	77.84544	13:29:41	D	1.30
160	MEERUT	SARDHANA	S-NPP	29.10788	77.51507	13:29:41	D	2.30
161	MORADABAD	BILARI	S-NPP	28.68509	78.74680	13:29:41	D	1.60
162	MORADABAD	MORADABAD	S-NPP	28.94248	78.81548	13:29:41	D	2.30
163	MUZAFARNAGAR	BUDHANA	S-NPP	29.26403	77.36550	13:29:41	D	2.00
164	MUZAFARNAGAR	BUDHANA	S-NPP	29.28353	77.39985	13:29:41	D	6.80
165	MUZAFARNAGAR	BUDHANA	S-NPP	29.31536	77.35633	13:29:41	D	3.10

166	MUZAFARNAGAR	MUZAFFARNAGAR	S-NPP	29.53065	77.52487	13:29:41	D	1.90
167	PILHIBHIT	BISALPUR	S-NPP	28.48845	79.91043	02:18:58	N	1.60
168	PILHIBHIT	PURANPUR	S-NPP	28.75096	80.18005	13:29:41	D	5.00
169	PILHIBHIT	PURANPUR	AQUA	28.65800	80.23900	13:07:45	D	11.00
170	PRATAPGARH	PATTI	S-NPP	25.98510	82.28922	13:29:41	D	39.80
171	PRATAPGARH	PATTI	S-NPP	26.00586	82.08322	13:29:41	D	19.80
172	PRATAPGARH	PRATAPGARH	S-NPP	25.86306	81.95496	13:29:41	D	5.10
173	RAIBEARELI	MAHARAJGANG	S-NPP	26.39045	81.31884	13:29:41	D	6.90
174	RAIBEARELI	RAEBARELI	S-NPP	26.19173	81.34100	02:18:58	N	0.80
175	RAIBEARELI	RAEBARELI	S-NPP	26.23477	81.04453	13:29:41	D	3.80
176	RAIBEARELI	RAEBARELI	S-NPP	26.23539	81.04961	13:29:41	D	3.80
177	RAIBEARELI	TILOI	S-NPP	26.45272	81.37984	13:29:41	D	5.40
178	SAMBHAL	SAMBHAL	S-NPP	28.73507	78.60556	13:29:41	D	5.40
179	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.65569	83.09785	13:29:41	D	1.70
180	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.88173	82.93457	13:29:41	D	2.20
181	SHAHJAHANPUR	JALALABAD	S-NPP	27.54038	79.67068	13:29:41	D	2.50
182	SHAHJAHANPUR	JALALABAD	S-NPP	27.54224	79.67194	13:29:41	D	2.10
183	SHAHJAHANPUR	PUWANYA	S-NPP	28.02399	80.11898	13:29:41	D	6.60
184	SHAHJAHANPUR	PUWANYA	S-NPP	28.02521	80.12077	13:29:41	D	4.30
185	SHAHJAHANPUR	PUWANYA	S-NPP	28.19138	80.10720	02:18:58	N	0.60
186	SHAHJAHANPUR	PUWANYA	S-NPP	28.19317	80.10766	02:18:58	N	0.60
187	SHAHJAHANPUR	PUWANYA	S-NPP	28.29796	80.02020	13:29:41	D	1.40
188	SHAHJAHANPUR	TILHAR	S-NPP	28.13335	79.80450	13:29:41	D	3.10
189	SHRAWASTI	BHINGA	S-NPP	27.73633	82.10420	13:29:41	D	1.80
190	SIDDHARTHANAGAR	BANSI	S-NPP	27.09240	82.86935	13:29:41	D	1.70
191	SIDDHARTHANAGAR	ITWA	S-NPP	27.36743	82.60634	13:29:41	D	2.80
192	SIDDHARTHANAGAR	ITWA	S-NPP	27.37485	82.63594	13:29:41	D	4.30
193	SIDDHARTHANAGAR	ITWA	S-NPP	27.37531	82.64026	13:29:41	D	6.60
194	SIDDHARTHANAGAR	ITWA	AQUA	27.37300	82.64400	13:07:45	D	7.30
195	UNNAO	HASANGANJ	S-NPP	26.83619	80.63592	13:29:41	D	3.10



### Details of residue burning events in Rajasthan on 24-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	BARAN	BARAN	S-NPP	25.06726	76.59814	13:29:41	D	3.20
2	BARAN	BARAN	S-NPP	25.07057	76.59752	13:29:41	D	2.50
3	BARAN	BARAN	S-NPP	25.07116	76.60133	13:29:41	D	2.50
4	GANGANAGAR	GANGANAGAR	S-NPP	30.15420	73.96220	13:29:41	D	7.30
5	GANGANAGAR	SADULSHAR	S-NPP	29.88473	74.19387	13:29:41	D	2.60
6	HANUMANGARH	HANUMANGARH	S-NPP	29.58936	74.35748	13:29:41	D	26.80
7	HANUMANGARH	HANUMANGARH	S-NPP	29.60206	74.39262	13:29:41	D	6.30
8	HANUMANGARH	HANUMANGARH	S-NPP	29.62213	74.36729	13:29:41	D	7.90
9	HANUMANGARH	HANUMANGARH	S-NPP	29.62547	74.36658	13:29:41	D	5.30
10	HANUMANGARH	HANUMANGARH	S-NPP	29.62614	74.37064	13:29:41	D	5.30
11	HANUMANGARH	TIBI	S-NPP	29.60070	74.42651	13:29:41	D	3.50
12	KOTA	LADPURA	S-NPP	25.14322	75.93428	13:29:41	D	3.50
13	KOTA	SANGOD	S-NPP	24.99384	76.23944	02:18:58	N	0.60
14	UDAIPUR	VALLABHNAGAR	S-NPP	24.65955	74.00158	13:29:41	D	1.40

## Details of residue burning events in Madhya Pradesh on 24-Nov-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ASHOKNAGAR	MUNGAOLI	S-NPP	24.51937	78.08193	13:29:41	D	1.40
2	BETUL	BETUL	S-NPP	22.21168	78.01639	13:29:41	D	2.80
3	BETUL	BETUL	TERRA	21.91000	78.01000	11:10:31	D	15.30
4	BETUL	BETUL	TERRA	21.91200	78.01600	11:10:31	D	10.90
5	BHIND	GOHAD	AQUA	26.48100	78.25700	13:07:45	D	18.40
6	CHHINDWARA	AMARWARA	S-NPP	22.57259	79.04400	13:29:41	D	1.70
7	DAMOH	DAMOH	S-NPP	23.84416	79.59064	13:29:41	D	3.10
8	DAMOH	JABERA	S-NPP	23.58795	79.81113	13:29:41	D	4.00
9	DATIA	BHANDER	S-NPP	25.57512	78.64940	13:29:41	D	8.50
10	DATIA	DATIA	S-NPP	25.59604	78.64995	13:29:41	D	1.70
11	DATIA	DATIA	S-NPP	25.66307	78.30815	13:29:41	D	4.00
12	DATIA	SEONDHA	S-NPP	25.82848	78.42210	13:29:41	D	1.80
13	DATIA	SEONDHA	S-NPP	25.92342	78.69963	13:29:41	D	8.70
14	DATIA	SEONDHA	S-NPP	25.97336	78.63299	13:29:41	D	4.00
15	GUNA	GUNA	TERRA	24.61400	77.46900	11:10:31	D	12.80
16	GUNA	GUNA	TERRA	24.61500	77.46400	11:10:31	D	11.30
17	GWALIOR	BHITARWAR	S-NPP	25.71956	78.09265	13:29:41	D	7.40
18	GWALIOR	BHITARWAR	S-NPP	25.72012	78.09657	13:29:41	D	7.40
19	GWALIOR	BHITARWAR	S-NPP	25.72292	78.09207	13:29:41	D	7.40
20	GWALIOR	BHITARWAR	S-NPP	25.72513	78.05956	13:29:41	D	1.20
21	GWALIOR	BHITARWAR	S-NPP	25.73519	78.08187	13:29:41	D	3.90
22	GWALIOR	BHITARWAR	S-NPP	25.73575	78.08578	13:29:41	D	3.90
23	GWALIOR	BHITARWAR	S-NPP	25.76199	78.07719	13:29:41	D	4.40
24	GWALIOR	BHITARWAR	S-NPP	25.76202	78.10130	13:29:41	D	4.00
25	GWALIOR	BHITARWAR	S-NPP	25.77257	78.05527	13:29:41	D	2.20
26	GWALIOR	BHITARWAR	S-NPP	25.82588	78.12733	13:29:41	D	3.00
27	GWALIOR	BHITARWAR	S-NPP	25.83810	78.02059	13:29:41	D	3.90
28	GWALIOR	BHITARWAR	S-NPP	25.96243	78.11153	13:29:41	D	7.70
29	GWALIOR	BHITARWAR	S-NPP	25.97985	78.20967	13:29:41	D	5.20

30	GWALIOR	BHITARWAR	S-NPP	25.98595	78.13166	13:29:41	D	2.00
31	GWALIOR	DABRA	S-NPP	25.82479	78.17902	13:29:41	D	2.00
32	GWALIOR	DABRA	S-NPP	25.82828	78.25124	13:29:41	D	2.30
33	GWALIOR	DABRA	S-NPP	25.85666	78.29601	13:29:41	D	8.20
34	GWALIOR	DABRA	S-NPP	25.85835	78.28352	13:29:41	D	1.40
35	GWALIOR	DABRA	S-NPP	25.86001	78.31982	13:29:41	D	3.50
36	GWALIOR	DABRA	S-NPP	25.86620	78.24156	13:29:41	D	8.90
37	GWALIOR	DABRA	S-NPP	25.90324	78.28386	13:29:41	D	3.30
38	GWALIOR	DABRA	S-NPP	25.95628	78.31139	13:29:41	D	2.40
39	GWALIOR	GWALIOR	S-NPP	26.29906	78.17513	13:29:41	D	8.20
40	HOSHANGABAD	PIPARIYA	S-NPP	22.72196	78.38410	13:29:41	D	3.30
41	JABALPUR	JABALPUR	S-NPP	22.96785	79.92792	13:29:41	D	7.20
42	JABALPUR	JABALPUR	S-NPP	23.04347	79.96223	13:29:41	D	4.60
43	JABALPUR	JABALPUR	S-NPP	23.17124	79.81233	13:29:41	D	8.60
44	JABALPUR	JABALPUR	S-NPP	23.25429	79.86332	13:29:41	D	3.90
45	JABALPUR	JABALPUR	S-NPP	23.25533	79.85770	13:29:41	D	3.50
46	JABALPUR	JABALPUR	S-NPP	23.25720	79.85864	13:29:41	D	5.00
47	JABALPUR	JABALPUR	S-NPP	23.25999	79.87927	13:29:41	D	3.40
48	JABALPUR	JABALPUR	S-NPP	23.26385	79.99602	13:29:41	D	9.00
49	JABALPUR	JABALPUR	S-NPP	23.26680	79.96581	13:29:41	D	1.70
50	JABALPUR	JABALPUR	S-NPP	23.27924	79.96940	13:29:41	D	4.70
51	JABALPUR	JABALPUR	S-NPP	23.27968	79.86770	13:29:41	D	3.00
52	JABALPUR	JABALPUR	S-NPP	23.28452	79.95581	13:29:41	D	2.00
53	JABALPUR	JABALPUR	S-NPP	23.28549	79.85832	13:29:41	D	3.90
54	JABALPUR	JABALPUR	S-NPP	23.29035	79.94639	13:29:41	D	21.30
55	JABALPUR	JABALPUR	S-NPP	23.29541	79.98385	13:29:41	D	2.30
56	JABALPUR	JABALPUR	S-NPP	23.30248	79.95721	13:29:41	D	4.60
57	JABALPUR	JABALPUR	S-NPP	23.30508	79.87208	13:29:41	D	3.90
58	JABALPUR	JABALPUR	S-NPP	23.30859	80.02867	13:29:41	D	7.60
59	JABALPUR	JABALPUR	S-NPP	23.32328	79.97943	13:29:41	D	2.90
60	JABALPUR	JABALPUR	S-NPP	23.32854	79.96583	13:29:41	D	5.20
61	JABALPUR	JABALPUR	S-NPP	23.32911	79.96999	13:29:41	D	13.20
62	JABALPUR	JABALPUR	S-NPP	23.33221	79.88888	13:29:41	D	4.60

63	JABALPUR	JABALPUR	S-NPP	23.33373	79.97778	13:29:41	D	4.60
64	JABALPUR	JABALPUR	S-NPP	23.33779	79.98138	13:29:41	D	4.60
65	JABALPUR	JABALPUR	S-NPP	23.34724	79.89495	13:29:41	D	1.80
66	JABALPUR	JABALPUR	S-NPP	23.36860	79.94670	13:29:41	D	8.40
67	JABALPUR	JABALPUR	AQUA	23.29000	79.94900	13:07:45	D	15.40
68	JABALPUR	MAJHOULI	S-NPP	23.38509	79.95727	13:29:41	D	5.60
69	JABALPUR	MAJHOULI	S-NPP	23.39481	79.84541	13:29:41	D	4.60
70	JABALPUR	MAJHOULI	S-NPP	23.39543	79.98120	13:29:41	D	3.30
71	JABALPUR	MAJHOULI	S-NPP	23.39828	79.84486	13:29:41	D	4.60
72	JABALPUR	MAJHOULI	S-NPP	23.40175	79.84431	13:29:41	D	15.30
73	JABALPUR	MAJHOULI	S-NPP	23.41644	79.95229	13:29:41	D	1.90
74	JABALPUR	MAJHOULI	S-NPP	23.42323	80.00243	13:29:41	D	5.40
75	JABALPUR	MAJHOULI	S-NPP	23.42493	80.01500	13:29:41	D	2.60
76	JABALPUR	MAJHOULI	S-NPP	23.43370	80.00076	13:29:41	D	2.10
77	JABALPUR	MAJHOULI	S-NPP	23.43719	80.00021	13:29:41	D	7.80
78	JABALPUR	MAJHOULI	S-NPP	23.44125	80.00385	13:29:41	D	3.90
79	JABALPUR	MAJHOULI	S-NPP	23.44525	80.03320	13:29:41	D	4.40
80	JABALPUR	MAJHOULI	S-NPP	23.44595	79.98599	13:29:41	D	3.10
81	JABALPUR	MAJHOULI	S-NPP	23.44824	80.00274	13:29:41	D	7.20
82	JABALPUR	MAJHOULI	S-NPP	23.45865	80.02679	13:29:41	D	4.30
83	JABALPUR	MAJHOULI	S-NPP	23.45980	80.03519	13:29:41	D	18.70
84	JABALPUR	MAJHOULI	S-NPP	23.46095	80.04360	13:29:41	D	24.10
85	JABALPUR	MAJHOULI	S-NPP	23.47095	79.98631	13:29:41	D	1.40
86	JABALPUR	MAJHOULI	S-NPP	23.47321	80.02878	13:29:41	D	8.70
87	JABALPUR	MAJHOULI	S-NPP	23.47670	80.02823	13:29:41	D	5.10
88	JABALPUR	MAJHOULI	S-NPP	23.47962	80.02348	13:29:41	D	5.10
89	JABALPUR	MAJHOULI	S-NPP	23.48084	79.98045	13:29:41	D	11.50
90	JABALPUR	MAJHOULI	S-NPP	23.48433	79.97990	13:29:41	D	3.90
91	JABALPUR	MAJHOULI	S-NPP	23.49068	80.02602	13:29:41	D	6.10
92	JABALPUR	MAJHOULI	S-NPP	23.49158	80.02657	13:29:41	D	6.90
93	JABALPUR	MAJHOULI	S-NPP	23.49763	80.07652	13:29:41	D	4.40
94	JABALPUR	MAJHOULI	S-NPP	23.49832	80.07715	13:29:41	D	5.10
95	JABALPUR	MAJHOULI	S-NPP	23.50171	80.08019	13:29:41	D	3.70

96	JABALPUR	MAJHOULI	S-NPP	23.50238	80.08083	13:29:41	D	2.60
97	JABALPUR	MAJHOULI	S-NPP	23.50501	80.02015	13:29:41	D	4.10
98	JABALPUR	MAJHOULI	S-NPP	23.50868	80.13094	13:29:41	D	4.90
99	JABALPUR	MAJHOULI	S-NPP	23.50872	79.96812	13:29:41	D	4.80
100	JABALPUR	MAJHOULI	S-NPP	23.50914	80.13165	13:29:41	D	4.50
101	JABALPUR	MAJHOULI	S-NPP	23.51230	79.94190	13:29:41	D	3.30
102	JABALPUR	MAJHOULI	S-NPP	23.51323	80.00166	13:29:41	D	4.00
103	JABALPUR	MAJHOULI	S-NPP	23.52827	80.16771	13:29:41	D	1.50
104	JABALPUR	MAJHOULI	S-NPP	23.53051	80.05048	13:29:41	D	1.60
105	JABALPUR	MAJHOULI	S-NPP	23.53117	80.02885	13:29:41	D	2.30
106	JABALPUR	MAJHOULI	S-NPP	23.53370	79.96841	13:29:41	D	3.20
107	JABALPUR	MAJHOULI	S-NPP	23.55417	79.90964	13:29:41	D	5.10
108	JABALPUR	MAJHOULI	S-NPP	23.55984	79.97709	13:29:41	D	1.40
109	JABALPUR	MAJHOULI	S-NPP	23.56797	79.98436	13:29:41	D	5.80
110	JABALPUR	PATAN	S-NPP	23.18789	79.83064	13:29:41	D	6.10
111	JABALPUR	PATAN	S-NPP	23.19529	79.85885	13:29:41	D	1.80
112	JABALPUR	PATAN	S-NPP	23.19570	79.70823	13:29:41	D	15.70
113	JABALPUR	PATAN	S-NPP	23.20123	79.79915	13:29:41	D	14.50
114	JABALPUR	PATAN	S-NPP	23.21204	79.85197	13:29:41	D	6.00
115	JABALPUR	PATAN	S-NPP	23.21613	79.83031	13:29:41	D	3.40
116	JABALPUR	PATAN	S-NPP	23.22823	79.84098	13:29:41	D	6.90
117	JABALPUR	PATAN	S-NPP	23.24117	79.71454	13:29:41	D	2.50
118	JABALPUR	PATAN	S-NPP	23.25385	79.83392	13:29:41	D	5.30
119	JABALPUR	PATAN	S-NPP	23.26577	79.73978	13:29:41	D	7.00
120	JABALPUR	PATAN	S-NPP	23.27034	79.74740	13:29:41	D	5.60
121	JABALPUR	PATAN	S-NPP	23.29259	79.80669	13:29:41	D	9.50
122	JABALPUR	PATAN	S-NPP	23.29570	79.72662	13:29:41	D	1.40
123	JABALPUR	PATAN	S-NPP	23.30191	79.77163	13:29:41	D	2.10
124	JABALPUR	PATAN	S-NPP	23.30474	79.79215	13:29:41	D	4.30
125	JABALPUR	PATAN	S-NPP	23.33517	79.85883	13:29:41	D	2.20
126	JABALPUR	PATAN	S-NPP	23.33526	79.80827	13:29:41	D	4.00
127	JABALPUR	PATAN	S-NPP	23.35199	79.80139	13:29:41	D	4.50
128	JABALPUR	PATAN	S-NPP	23.35345	79.80146	13:29:41	D	2.70

129	JABALPUR	PATAN	S-NPP	23.35946	79.82964	13:29:41	D	2.80
130	JABALPUR	PATAN	S-NPP	23.36081	79.82976	13:29:41	D	3.80
131	JABALPUR	PATAN	S-NPP	23.37076	79.79868	13:29:41	D	5.50
132	JABALPUR	PATAN	AQUA	23.25900	79.79000	13:07:45	D	17.90
133	JABALPUR	SAHPURA	S-NPP	23.15101	79.69050	13:29:41	D	3.30
134	JABALPUR	SAHPURA	S-NPP	23.15445	79.68995	13:29:41	D	3.30
135	JABALPUR	SAHPURA	S-NPP	23.16348	79.73006	13:29:41	D	6.50
136	JABALPUR	SAHPURA	S-NPP	23.17038	79.72894	13:29:41	D	8.40
137	JABALPUR	SAHPURA	S-NPP	23.18222	79.58617	13:29:41	D	1.80
138	JABALPUR	SAHPURA	S-NPP	23.18274	79.81888	13:29:41	D	3.30
139	JABALPUR	SAHPURA	S-NPP	23.18987	79.74248	13:29:41	D	2.80
140	JABALPUR	SAHPURA	S-NPP	23.19282	79.71285	13:29:41	D	3.80
141	JABALPUR	SAHPURA	S-NPP	23.19614	79.76234	13:29:41	D	2.50
142	JABALPUR	SAHPURA	S-NPP	23.22759	79.53870	13:29:41	D	2.10
143	JABALPUR	SAHPURA	TERRA	23.18000	79.67400	11:10:31	D	19.00
144	JABALPUR	SIHORA	S-NPP	23.35085	80.10342	13:29:41	D	3.90
145	JABALPUR	SIHORA	S-NPP	23.35327	80.06870	13:29:41	D	1.50
146	JABALPUR	SIHORA	S-NPP	23.36371	80.09282	13:29:41	D	3.20
147	JABALPUR	SIHORA	S-NPP	23.38136	80.00907	13:29:41	D	1.40
148	JABALPUR	SIHORA	S-NPP	23.38192	80.01326	13:29:41	D	5.00
149	JABALPUR	SIHORA	S-NPP	23.38480	80.01234	13:29:41	D	2.70
150	JABALPUR	SIHORA	S-NPP	23.39002	80.02055	13:29:41	D	4.90
151	JABALPUR	SIHORA	S-NPP	23.39517	80.13963	13:29:41	D	3.60
152	JABALPUR	SIHORA	S-NPP	23.40589	80.11256	13:29:41	D	2.20
153	JABALPUR	SIHORA	S-NPP	23.40601	80.08670	13:29:41	D	8.10
154	JABALPUR	SIHORA	S-NPP	23.41691	80.24972	13:29:41	D	3.00
155	JABALPUR	SIHORA	S-NPP	23.41934	80.10614	13:29:41	D	4.30
156	JABALPUR	SIHORA	S-NPP	23.42603	80.18301	13:29:41	D	1.10
157	JABALPUR	SIHORA	S-NPP	23.43022	80.16065	13:29:41	D	25.00
158	JABALPUR	SIHORA	S-NPP	23.43238	80.20374	13:29:41	D	14.30
159	JABALPUR	SIHORA	S-NPP	23.43465	80.22079	13:29:41	D	4.00
160	JABALPUR	SIHORA	S-NPP	23.43579	80.22932	13:29:41	D	9.70
161	JABALPUR	SIHORA	S-NPP	23.44338	80.07219	13:29:41	D	14.60

162	JABALPUR	SIHORA	S-NPP	23.45045	80.23140	13:29:41	D	3.70
163	JABALPUR	SIHORA	S-NPP	23.45187	80.16158	13:29:41	D	21.90
164	JABALPUR	SIHORA	S-NPP	23.45309	80.14404	13:29:41	D	2.50
165	JABALPUR	SIHORA	S-NPP	23.45398	80.23084	13:29:41	D	5.70
166	JABALPUR	SIHORA	S-NPP	23.45569	80.24367	13:29:41	D	3.60
167	JABALPUR	SIHORA	S-NPP	23.45996	80.19505	13:29:41	D	5.20
168	JABALPUR	SIHORA	S-NPP	23.46261	80.08206	13:29:41	D	2.20
169	JABALPUR	SIHORA	S-NPP	23.46611	80.08151	13:29:41	D	2.20
170	JABALPUR	SIHORA	S-NPP	23.47954	80.07507	13:29:41	D	3.00
171	JABALPUR	SIHORA	S-NPP	23.50285	80.11456	13:29:41	D	3.30
172	JABALPUR	SIHORA	AQUA	23.43200	80.20800	13:07:45	D	17.20
173	JABALPUR	SIHORA	AQUA	23.44700	80.15300	13:07:45	D	18.50
174	JABALPUR	SIHORA	AQUA	23.47300	80.07900	13:07:45	D	28.00
175	JABALPUR	SIHORA	AQUA	23.50700	80.11700	13:07:45	D	17.30
176	KATNI	BAHURIBAND	S-NPP	23.63811	80.05122	13:29:41	D	3.80
177	KATNI	BAHURIBAND	S-NPP	23.67140	80.03284	13:29:41	D	3.20
178	KATNI	BAHURIBAND	S-NPP	23.70290	80.05383	13:29:41	D	3.10
179	KATNI	BAHURIBAND	S-NPP	23.76294	79.93795	13:29:41	D	3.90
180	KATNI	BAHURIBAND	S-NPP	23.79781	79.98412	13:29:41	D	1.90
181	KATNI	BARBARA	S-NPP	23.62490	80.59656	13:29:41	D	2.50
182	KATNI	BARBARA	S-NPP	23.62548	80.60102	13:29:41	D	6.60
183	KATNI	BARBARA	S-NPP	23.73805	80.58467	13:29:41	D	2.70
184	KATNI	BARHI	S-NPP	23.71508	80.80411	13:29:41	D	1.80
185	KATNI	BIJERAGHOGARH	S-NPP	23.97322	80.73590	13:29:41	D	2.40
186	KATNI	DHIMERKHEDA	S-NPP	23.45163	80.37608	13:29:41	D	3.40
187	KATNI	DHIMERKHEDA	S-NPP	23.48550	80.30472	13:29:41	D	4.40
188	KATNI	DHIMERKHEDA	S-NPP	23.48781	80.32195	13:29:41	D	2.30
189	KATNI	RITHI	S-NPP	23.92298	80.11275	13:29:41	D	2.80
190	MANDLA	BACHHIYA	S-NPP	22.48797	80.49545	13:29:41	D	3.40
191	MANDLA	MANDLA	S-NPP	22.51363	80.39188	13:29:41	D	2.50
192	MANDLA	MANDLA	S-NPP	22.65355	80.36626	13:29:41	D	6.90
193	MANDLA	NAINPUR	S-NPP	22.39279	80.19228	13:29:41	D	2.60
194	MANDLA	NAINPUR	S-NPP	22.44846	80.09565	13:29:41	D	2.00

195	MANDLA	NAINPUR	S-NPP	22.46403	80.10575	13:29:41	D	1.70
196	NARSHIMAPURA	GADARWARA	S-NPP	22.80119	78.62260	13:29:41	D	1.70
197	NARSHIMAPURA	GADARWARA	S-NPP	22.84790	78.73180	13:29:41	D	4.60
198	NARSHIMAPURA	GOTECAON	S-NPP	23.03143	79.52837	13:29:41	D	2.50
199	NARSHIMAPURA	GOTECAON	S-NPP	23.03827	79.52726	13:29:41	D	1.80
200	PANNA	PANNA	S-NPP	24.58668	80.40514	13:29:41	D	2.40
201	PANNA	PANNA	S-NPP	24.60974	80.31605	13:29:41	D	2.40
202	PANNA	PAWAI	S-NPP	24.29933	80.21733	13:29:41	D	1.70
203	RAISEN	BARELI	S-NPP	22.83912	78.09812	13:29:41	D	6.00
204	RAISEN	BARELI	S-NPP	22.88498	78.08632	13:29:41	D	2.10
205	RAISEN	BARELI	S-NPP	22.88942	78.09324	13:29:41	D	4.60
206	RAISEN	BARELI	S-NPP	22.88998	78.09699	13:29:41	D	4.90
207	RAISEN	BARELI	S-NPP	22.89273	78.09266	13:29:41	D	4.60
208	RAISEN	BARELI	S-NPP	22.89329	78.09641	13:29:41	D	4.90
209	RAISEN	BARELI	S-NPP	22.89629	78.09936	13:29:41	D	3.50
210	RAISEN	BARELI	S-NPP	22.89684	78.10311	13:29:41	D	3.00
211	RAISEN	BARELI	S-NPP	22.90181	78.09071	13:29:41	D	6.10
212	RAISEN	BARELI	S-NPP	22.94279	78.16058	13:29:41	D	2.40
213	RAISEN	BARELI	S-NPP	22.94335	78.16434	13:29:41	D	2.20
214	RAISEN	BARELI	S-NPP	22.97375	78.13982	13:29:41	D	2.80
215	RAISEN	BARELI	S-NPP	22.97871	78.12740	13:29:41	D	2.20
216	RAISEN	BARELI	S-NPP	23.03153	78.29970	13:29:41	D	2.00
217	RAISEN	GOHARGANJ	S-NPP	22.98843	77.67308	13:29:41	D	4.60
218	RAISEN	GOHARGANJ	S-NPP	23.03255	77.67295	13:29:41	D	3.50
219	RAISEN	GOHARGANJ	S-NPP	23.03908	77.64880	13:29:41	D	5.40
220	RAISEN	GOHARGANJ	S-NPP	23.04643	77.69733	13:29:41	D	4.50
221	RAISEN	GOHARGANJ	S-NPP	23.04973	77.69675	13:29:41	D	4.50
222	RAISEN	GOHARGANJ	S-NPP	23.05796	77.71025	13:29:41	D	1.60
223	RAISEN	GOHARGANJ	S-NPP	23.06197	77.46802	13:29:41	D	1.50
224	RAISEN	GOHARGANJ	S-NPP	23.06357	77.45623	13:29:41	D	1.80
225	RAISEN	GOHARGANJ	S-NPP	23.08459	77.59441	13:29:41	D	5.70
226	RAISEN	GOHARGANJ	S-NPP	23.08533	77.50990	13:29:41	D	1.30
227	RAISEN	GOHARGANJ	S-NPP	23.17214	77.61327	13:29:41	D	1.30



228	RAISEN	RAISEN	S-NPP	23.32211	77.82462	13:29:41	D	2.40
229	RAISEN	RAISEN	S-NPP	23.50141	77.73557	13:29:41	D	1.10
230	RAISEN	SILVANI	S-NPP	23.20370	78.51134	13:29:41	D	4.90
231	RAISEN	UDAIPURA	S-NPP	23.03551	78.41911	13:29:41	D	2.50
232	REWA	HUZUR	S-NPP	24.46359	81.41758	13:29:41	D	6.70
233	REWA	SIRMAUR	S-NPP	24.78186	81.48032	13:29:41	D	2.50
234	REWA	TEONTHAR	S-NPP	24.92749	81.86717	13:29:41	D	4.20
235	REWA	TEONTHAR	S-NPP	25.05136	81.45283	13:29:41	D	4.80
236	SATNA	AMARPATAN	S-NPP	24.27157	81.03008	13:29:41	D	2.40
237	SATNA	AMARPATAN	S-NPP	24.34440	81.05095	13:29:41	D	3.70
238	SATNA	AMARPATAN	S-NPP	24.44163	81.18021	13:29:41	D	2.50
239	SATNA	AMARPATAN	S-NPP	24.45522	81.22781	13:29:41	D	16.20
240	SATNA	MAIHAR	S-NPP	24.22026	80.75229	13:29:41	D	4.60
241	SATNA	MAIHAR	S-NPP	24.30074	80.79898	13:29:41	D	1.60
242	SATNA	MAJHGAWAN	S-NPP	24.70632	80.93058	13:29:41	D	4.00
243	SATNA	MAJHGAWAN	S-NPP	24.71001	80.93002	13:29:41	D	4.00
244	SATNA	NAGOD	S-NPP	24.52982	80.59306	13:29:41	D	4.40
245	SATNA	NAGOD	S-NPP	24.62860	80.44461	13:29:41	D	1.70
246	SATNA	NAGOD	S-NPP	24.68068	80.58184	13:29:41	D	1.90
247	SATNA	RAMPURBAGHLEAN	S-NPP	24.37384	80.97059	13:29:41	D	4.70
248	SATNA	RAMPURBAGHLEAN	S-NPP	24.37514	80.96891	13:29:41	D	3.00
249	SATNA	RAMPURBAGHLEAN	S-NPP	24.48689	81.03119	13:29:41	D	2.90
250	SATNA	RAMPURBAGHLEAN	S-NPP	24.48861	81.02793	13:29:41	D	5.30
251	SATNA	RAMPURBAGHLEAN	S-NPP	24.49059	81.03064	13:29:41	D	2.90
252	SATNA	RAMPURBAGHLEAN	S-NPP	24.52829	80.92510	13:29:41	D	8.00
253	SATNA	RAMPURBAGHLEAN	S-NPP	24.53556	80.98209	13:29:41	D	2.00
254	SATNA	RAMPURBAGHLEAN	S-NPP	24.57801	80.96119	13:29:41	D	3.00
255	SATNA	RAMPURBAGHLEAN	S-NPP	24.58606	81.05251	13:29:41	D	5.50
256	SATNA	RAMPURBAGHLEAN	S-NPP	24.63753	81.12019	13:29:41	D	2.60
257	SATNA	RAMPURBAGHLEAN	S-NPP	24.64032	80.99220	13:29:41	D	1.80
258	SATNA	RAMPURBAGHLEAN	S-NPP	24.65015	81.01025	13:29:41	D	2.50
259	SATNA	RAMPURBAGHLEAN	S-NPP	24.65243	81.11801	13:29:41	D	1.70
260	SATNA	RAMPURBAGHLEAN	S-NPP	24.65487	81.13745	13:29:41	D	2.40

261	SATNA	RAMPURBAGHLEAN	S-NPP	24.65691	81.03372	13:29:41	D	2.70
262	SATNA	RAMPURBAGHLEAN	S-NPP	24.69833	81.06190	13:29:41	D	9.80
263	SATNA	RAMPURBAGHLEAN	S-NPP	24.70022	81.06358	13:29:41	D	7.00
264	SATNA	RAMPURBAGHLEAN	S-NPP	24.71879	81.06076	13:29:41	D	2.30
265	SATNA	UCHAHAR	S-NPP	24.49449	80.74867	13:29:41	D	3.00
266	SATNA	UCHAHAR	S-NPP	24.51037	80.69904	13:29:41	D	2.70
267	SATNA	UCHAHAR	S-NPP	24.53090	80.82880	13:29:41	D	2.40
268	SATNA	UCHAHAR	S-NPP	24.55871	80.70237	13:29:41	D	2.10
269	SEHORE	BUDHNI	S-NPP	22.84121	78.02095	13:29:41	D	1.90
270	SEHORE	BUDHNI	S-NPP	22.87138	77.87708	02:18:58	N	0.50
271	SEHORE	BUDHNI	S-NPP	22.88648	77.85155	13:29:41	D	2.50
272	SEHORE	BUDHNI	S-NPP	22.89234	78.02702	13:29:41	D	3.80
273	SEHORE	BUDHNI	S-NPP	22.95241	77.95126	13:29:41	D	2.90
274	SEONI	GHANSAUR	S-NPP	22.49916	79.87460	13:29:41	D	2.00
275	SEONI	GHANSAUR	S-NPP	22.50111	79.87450	13:29:41	D	2.10
276	SEONI	KEWLARI	S-NPP	22.35316	79.93082	13:29:41	D	2.30
277	SEONI	KEWLARI	S-NPP	22.52803	80.02039	13:29:41	D	2.50
278	SEONI	LAKHNADOU	S-NPP	22.55200	79.38540	13:29:41	D	3.00
279	SEONI	SEONI	S-NPP	22.23268	79.81322	13:29:41	D	2.70
280	SEONI	SEONI	S-NPP	22.29417	79.60854	13:29:41	D	1.50
281	SHEOPUR	SHEOPUR	S-NPP	25.44876	76.60938	13:29:41	D	3.40
282	SHEOPUR	SHEOPUR	S-NPP	25.81122	76.61234	13:29:41	D	3.00
283	SHIVPURI	NARWAR	S-NPP	25.61884	78.11833	13:29:41	D	3.00
284	SHIVPURI	NARWAR	S-NPP	25.63225	78.28516	13:29:41	D	4.00
285	SHIVPURI	NARWAR	S-NPP	25.63561	78.28457	13:29:41	D	4.00
286	SHIVPURI	NARWAR	S-NPP	25.66022	78.16737	13:29:41	D	3.20
287	SHIVPURI	NARWAR	S-NPP	25.66299	78.13874	13:29:41	D	1.70
288	SHIVPURI	NARWAR	S-NPP	25.70951	78.09441	13:29:41	D	4.40
289	SHIVPURI	NARWAR	S-NPP	25.71063	78.10226	13:29:41	D	1.60
290	SHIVPURI	NARWAR	S-NPP	25.71286	78.09383	13:29:41	D	7.10
291	SHIVPURI	NARWAR	S-NPP	25.71393	78.00543	13:29:41	D	6.20
292	SHIVPURI	NARWAR	S-NPP	25.71784	78.00874	13:29:41	D	6.20
293	SHIVPURI	NARWAR	S-NPP	25.72397	78.00368	13:29:41	D	3.60

294	SHIVPURI	NARWAR	AQUA	25.70300	78.08800	13:07:45	D	24.80
295	SHIVPURI	NARWAR	AQUA	25.70600	78.08300	13:07:45	D	29.00
296	SIDHI	RAMPURNEKIN	S-NPP	24.29723	81.34628	13:29:41	D	2.90
297	VIDESHA	BASODA	S-NPP	23.99422	77.81864	13:29:41	D	2.30
298	VIDESHA	NATERAN	S-NPP	23.94084	77.68865	13:29:41	D	2.50
299	WEST NIMAR	KASRAWAD	S-NPP	22.10978	75.57796	13:29:41	D	1.80

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

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375 / 750	Both
2.	Terra	MODIS	1000	Both
3.	Aqua	MODIS	1000	Both

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

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GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)

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

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