

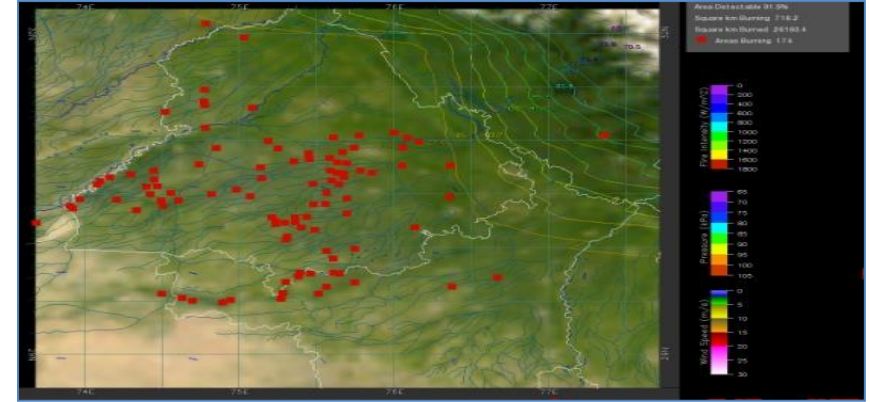
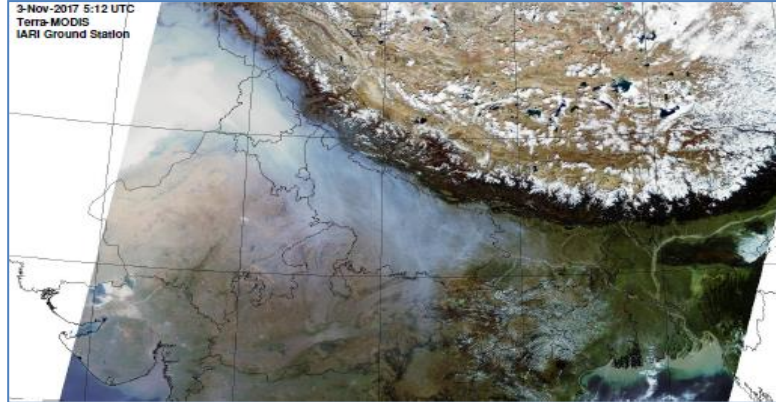


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin
No. 29

Events Date:
13-Oct-2024

Issued on:
13-Oct-2024



Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS)
Laboratory,

Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

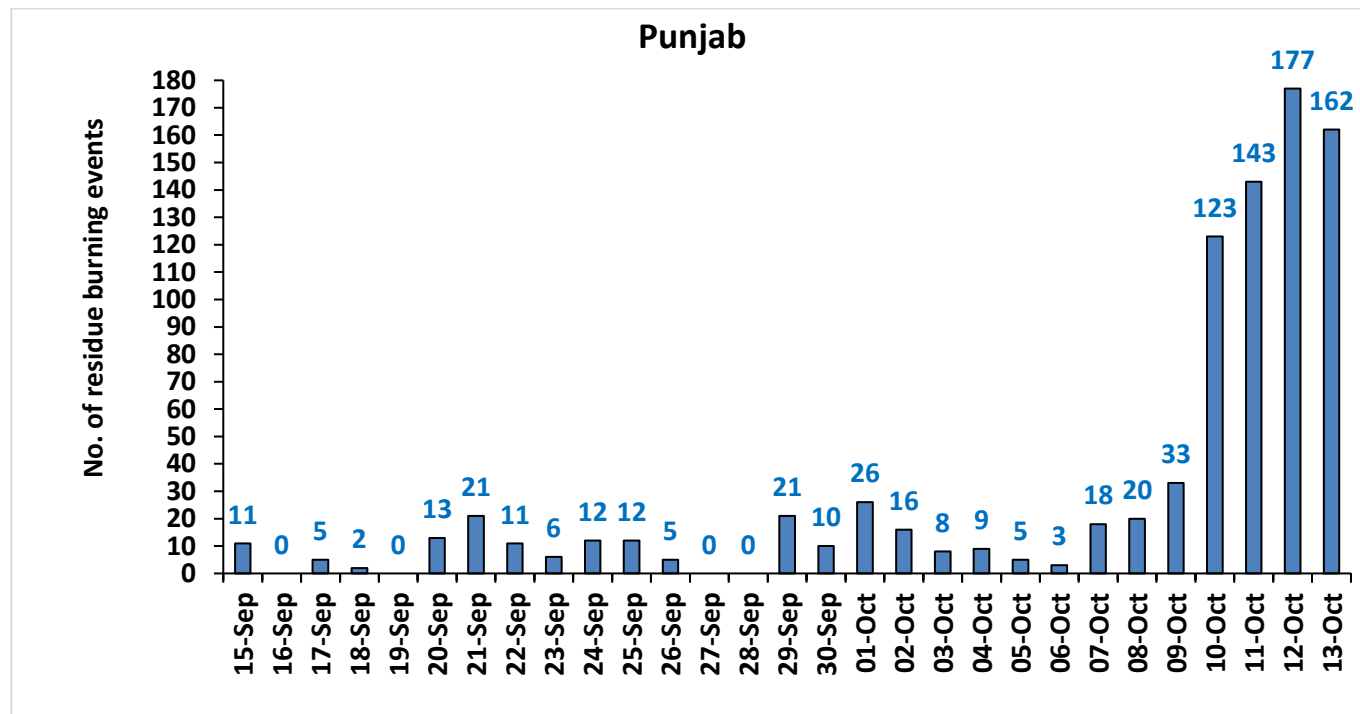
<https://creams.iari.res.in>



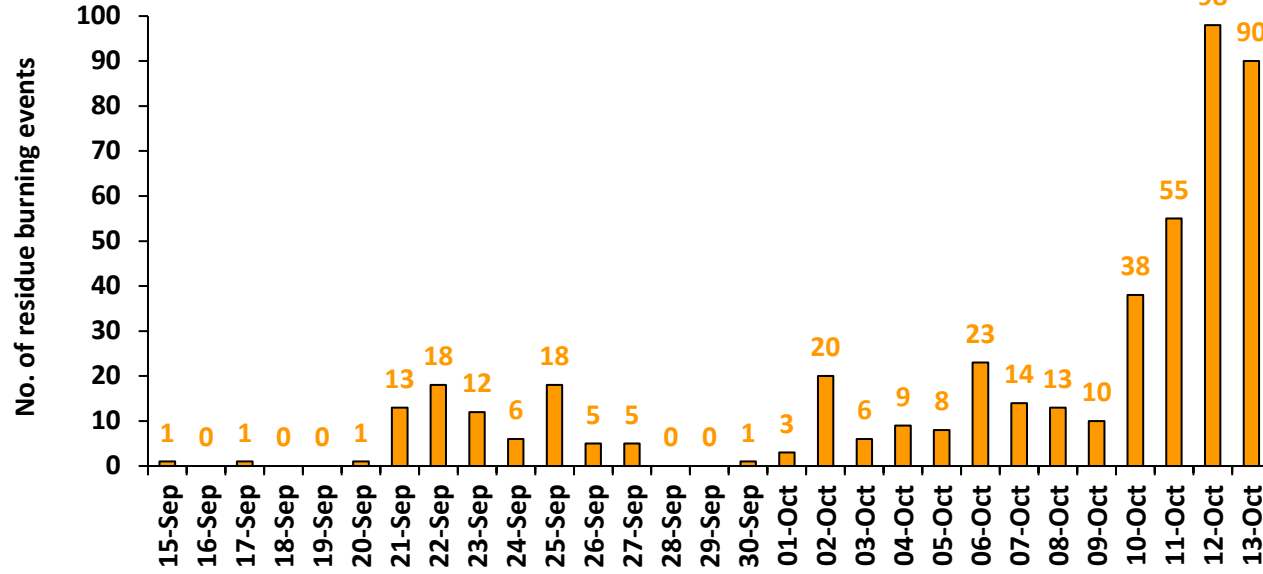
Highlights for 13-Oct-2024

- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol " recommended by CAQM. The data from JPSS-1 and JPSS-2 satellites are included from 10-Oct-2024 onwards.
- Satellites detected **344** residue burning events in the six study States on **13-Oct-2024**.
- The state wise events detected on **13-Oct-2024** were **162** in Punjab, **90** in Haryana, **76** in UP, **01** in Delhi, **10** in Rajasthan and **05** in MP.
- Total **1875** burning events were detected in the six states between **15-Sept-2024** and **13-Oct-2024**, which are distributed as **872**, **468**, **398**, **06**, **50** and **81** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Detection of burning events was hampered by the presence of scattered clouds over parts of Haryana, Uttar Pradesh, Rajasthan and Madhya Pradesh states.

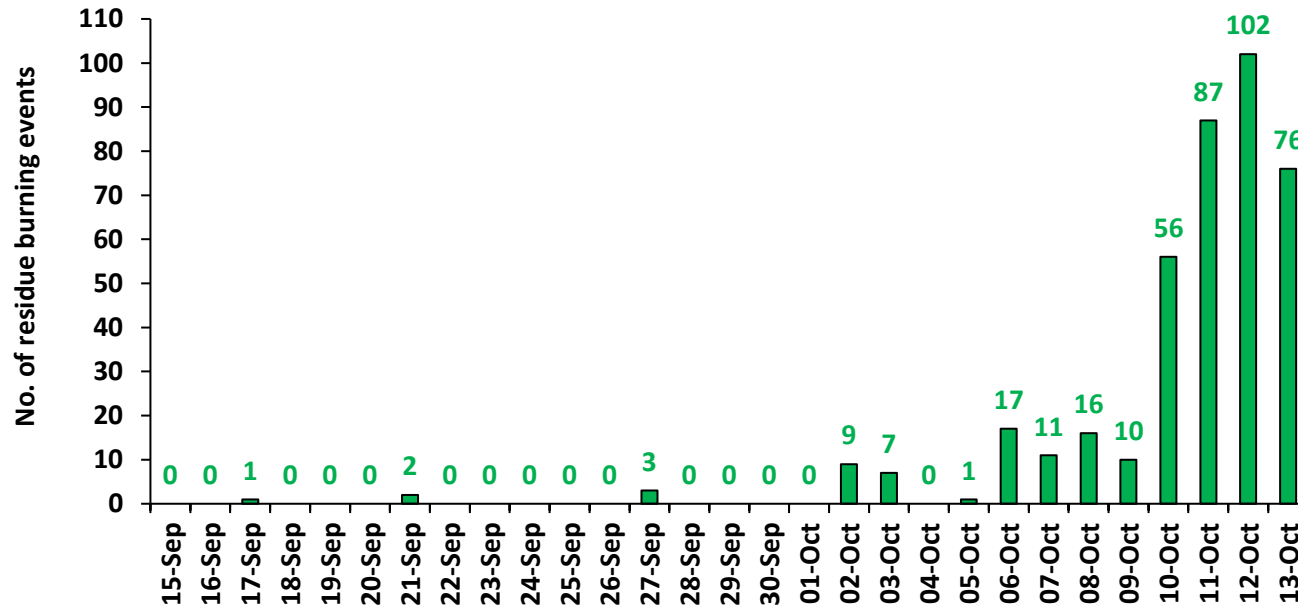
Temporal distribution of rice residue burning events for the study States in 2024



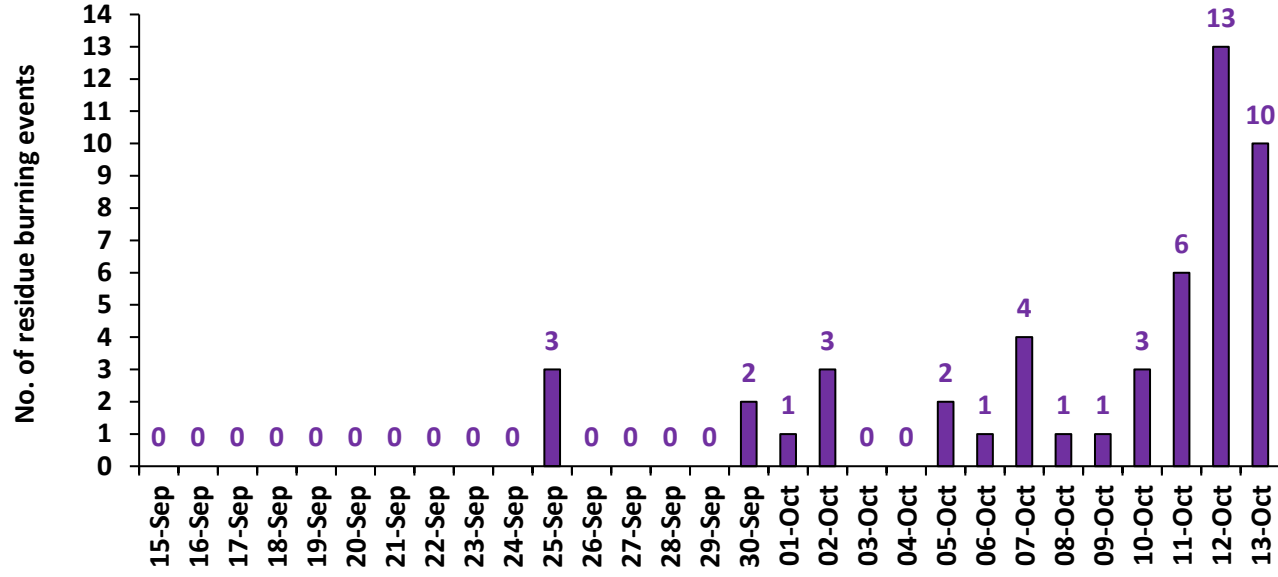
Haryana



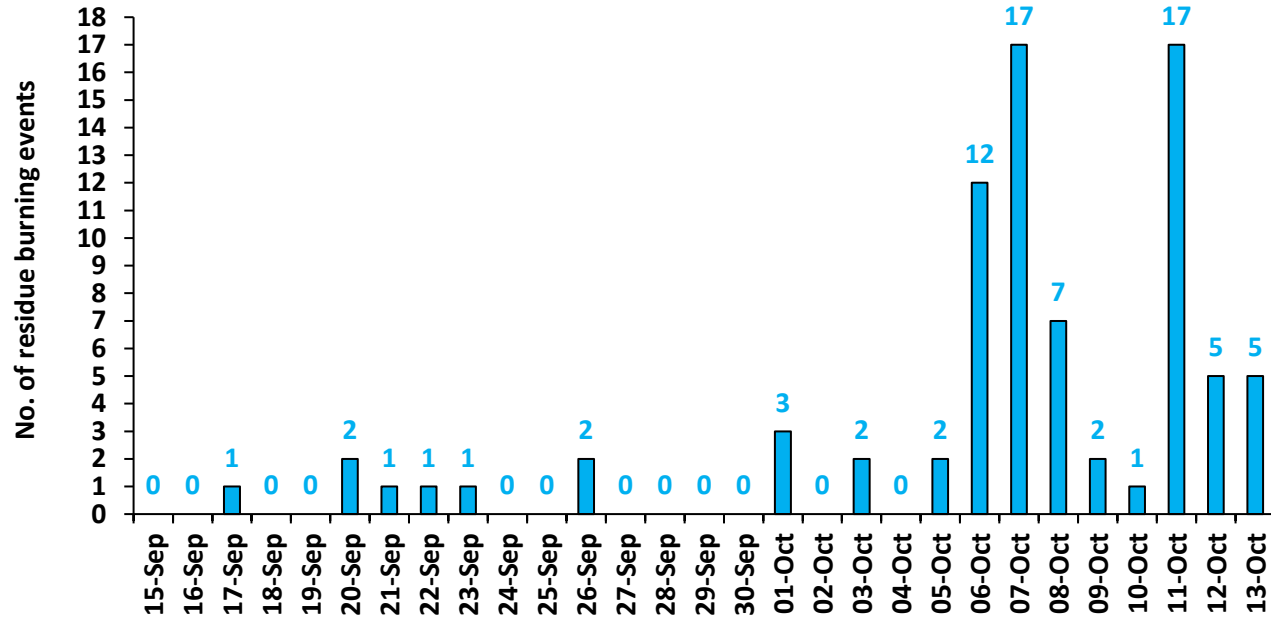
Uttar Pradesh



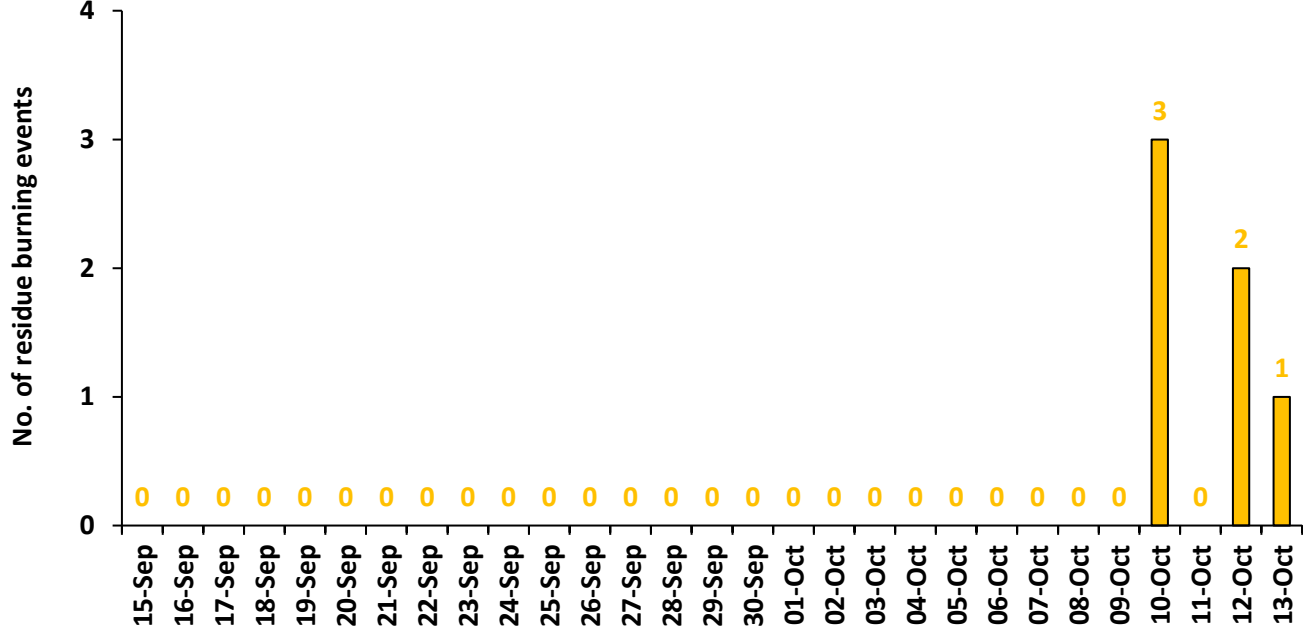
Rajasthan



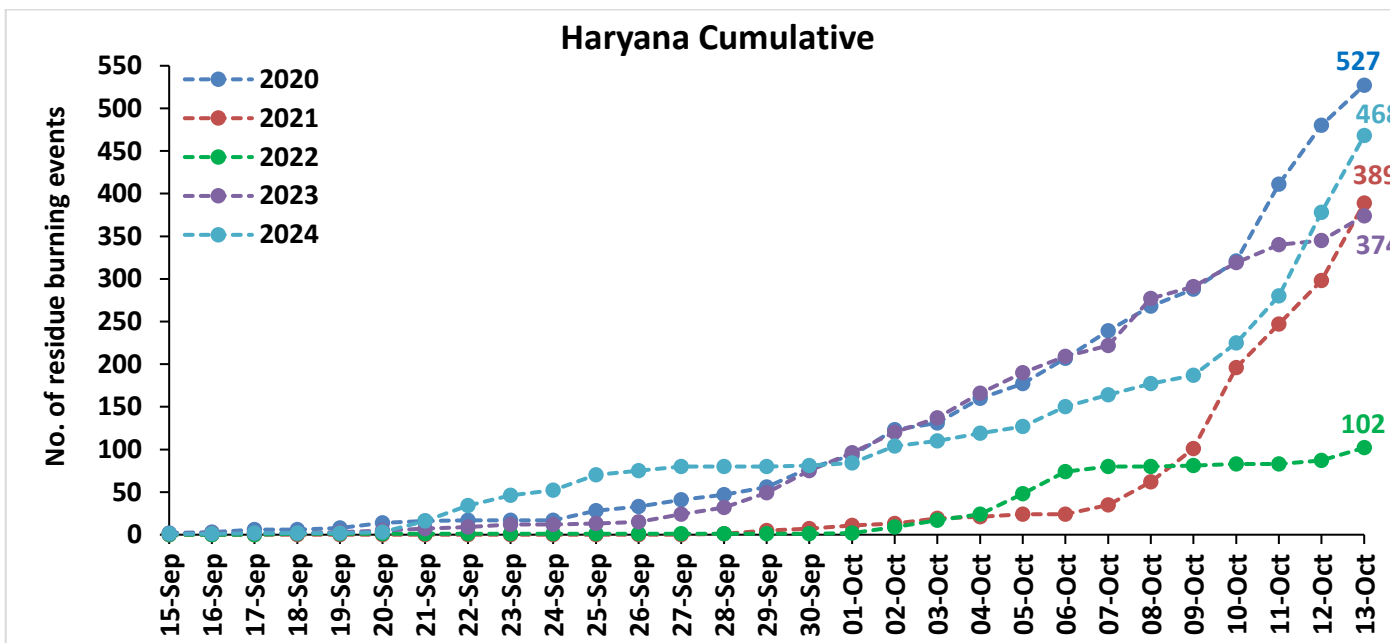
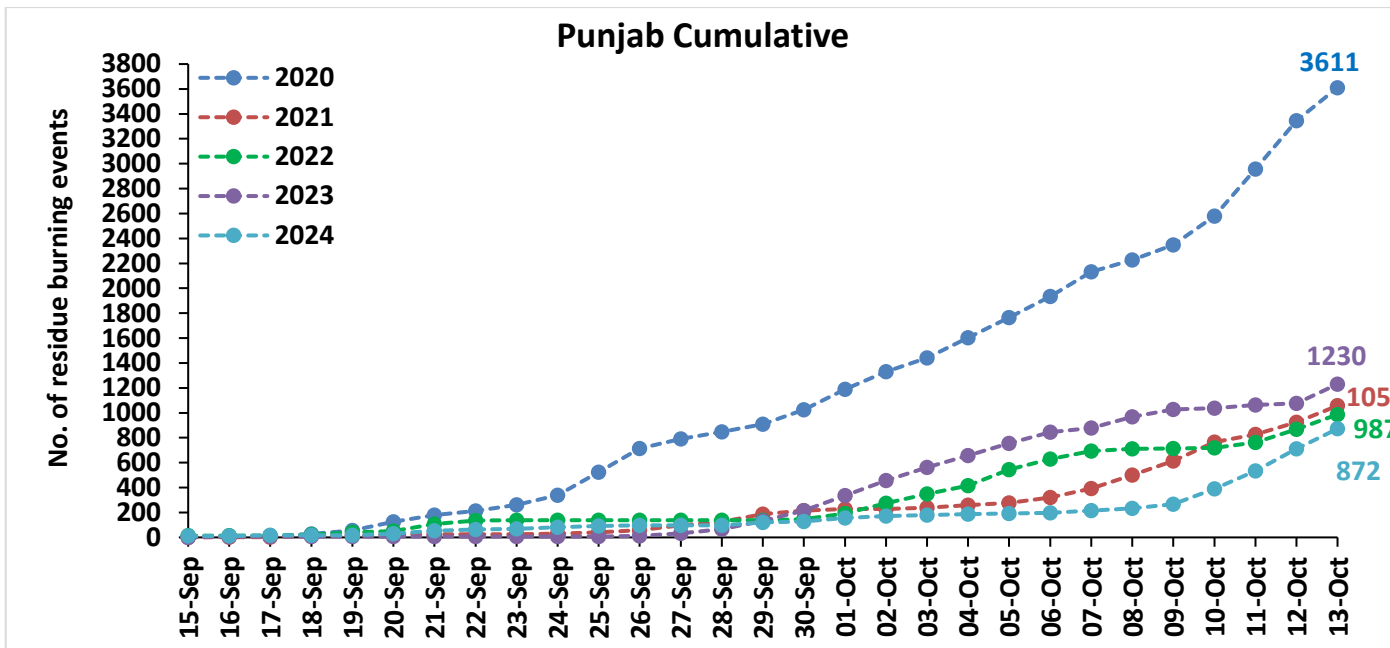
Madhya Pradesh

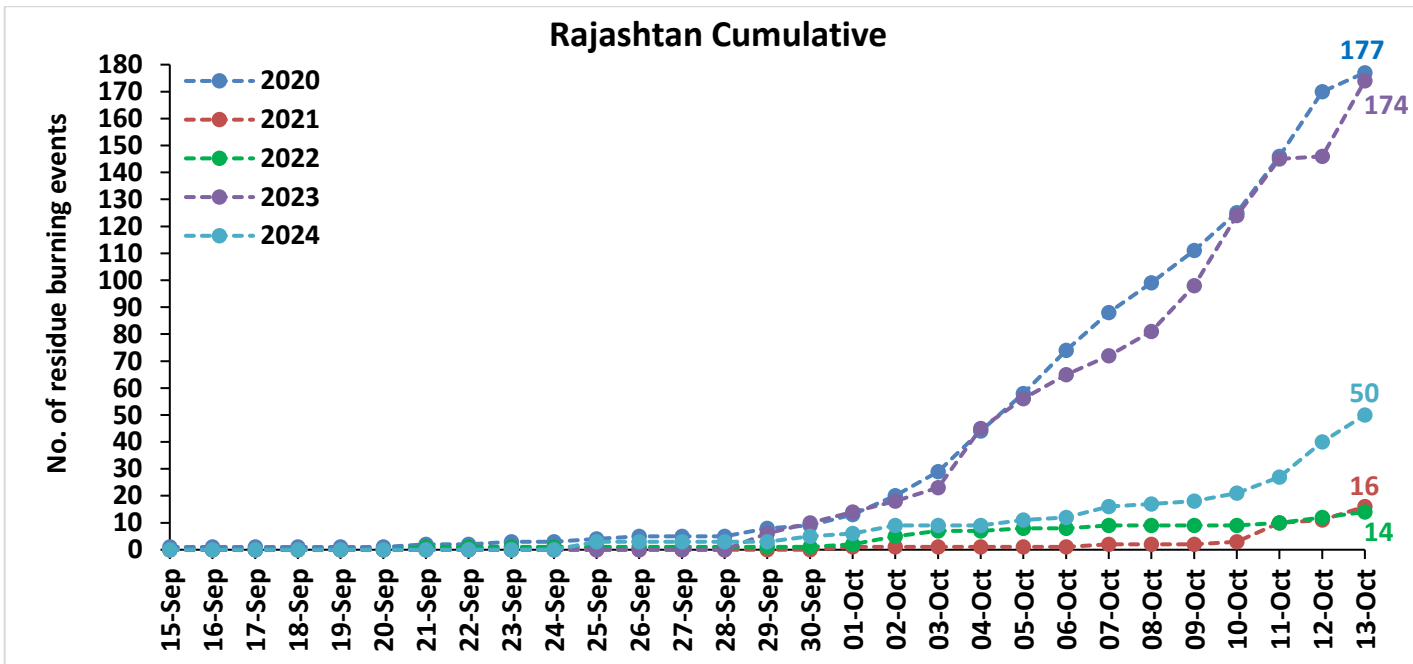
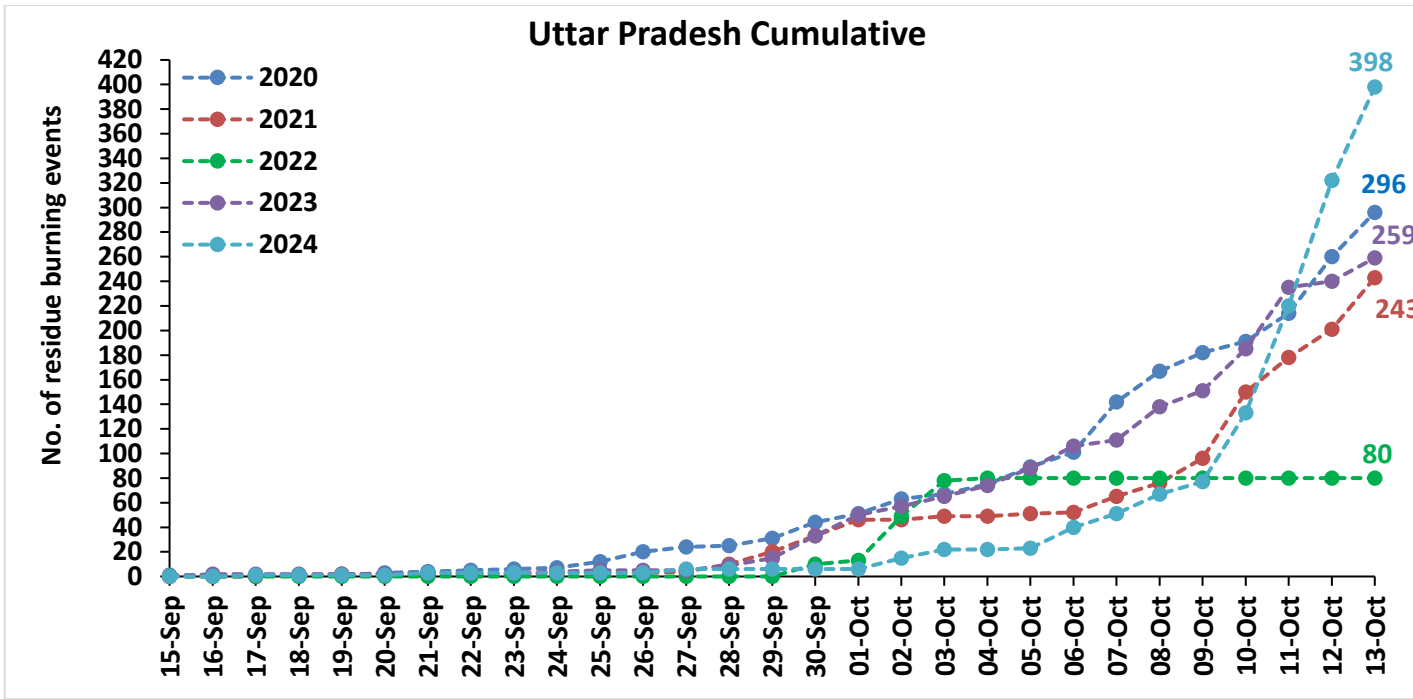


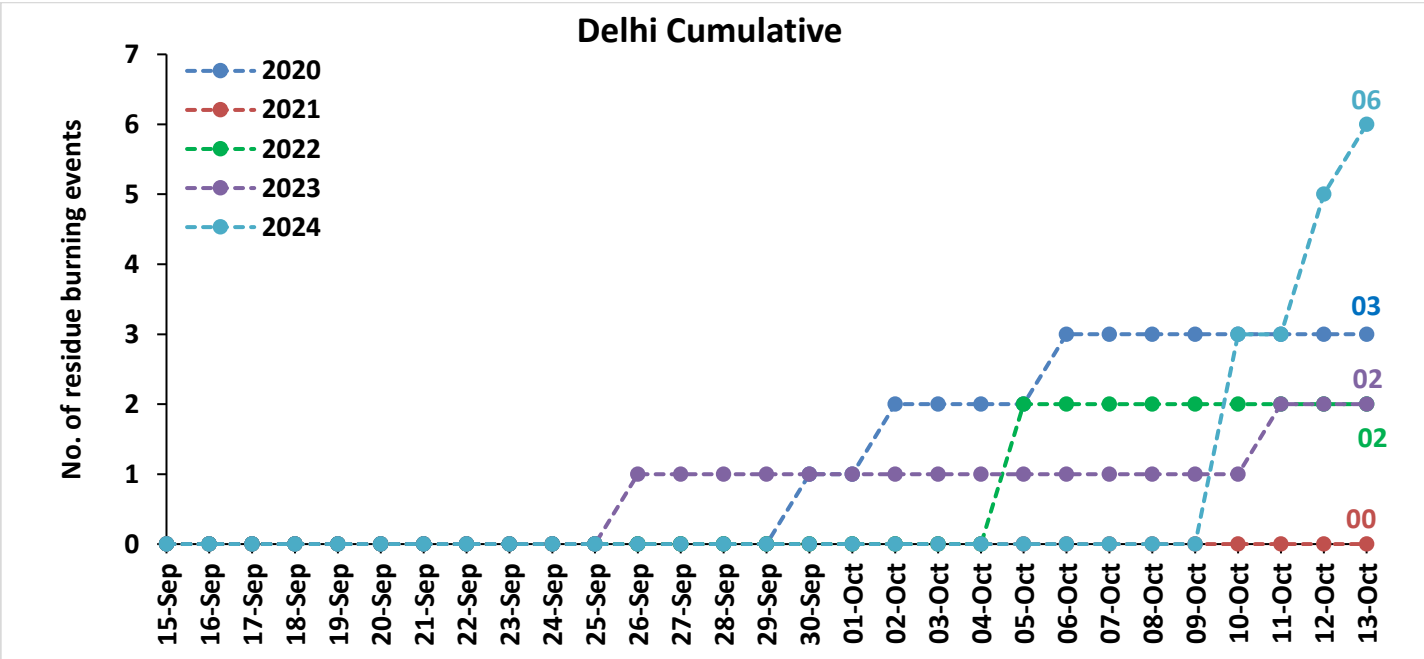
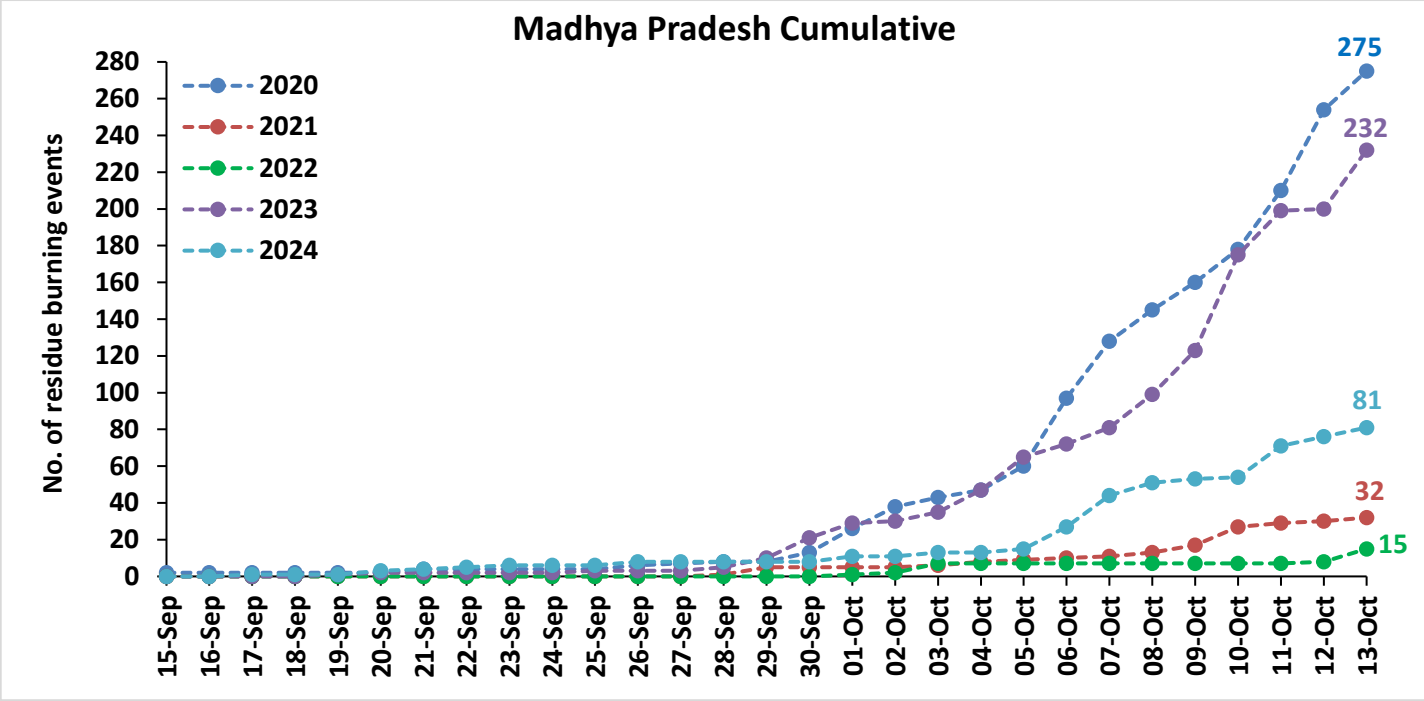
Delhi



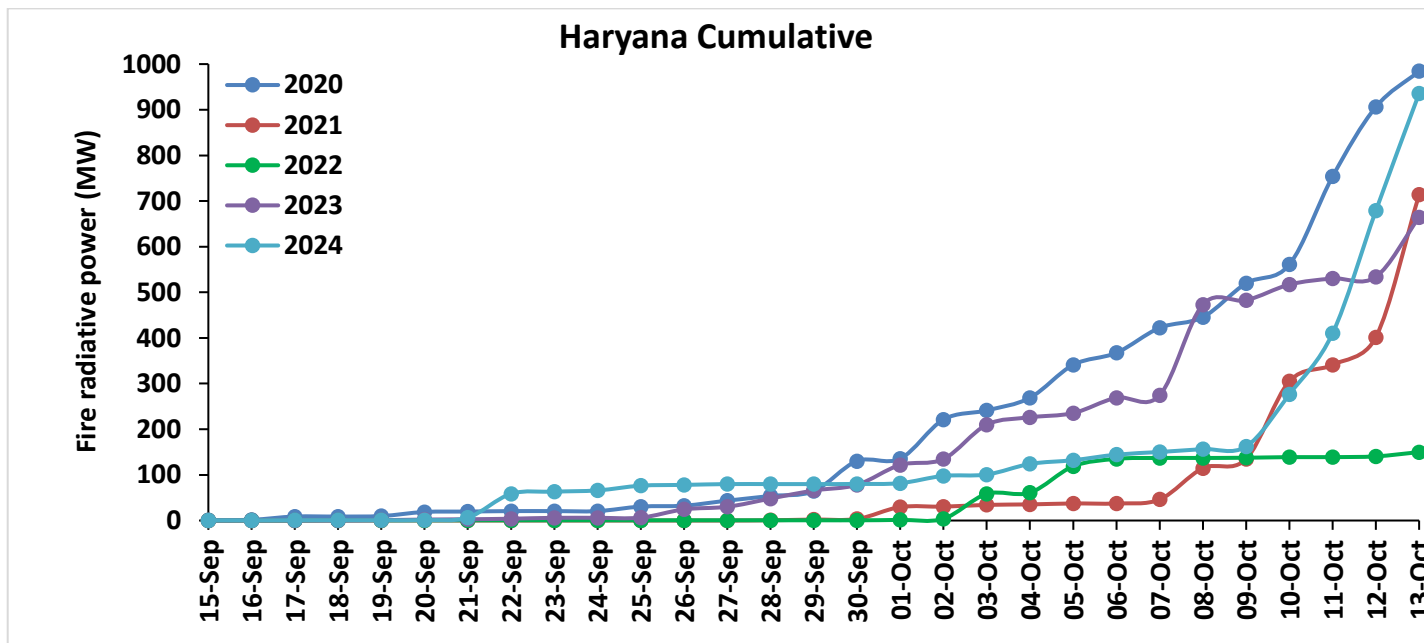
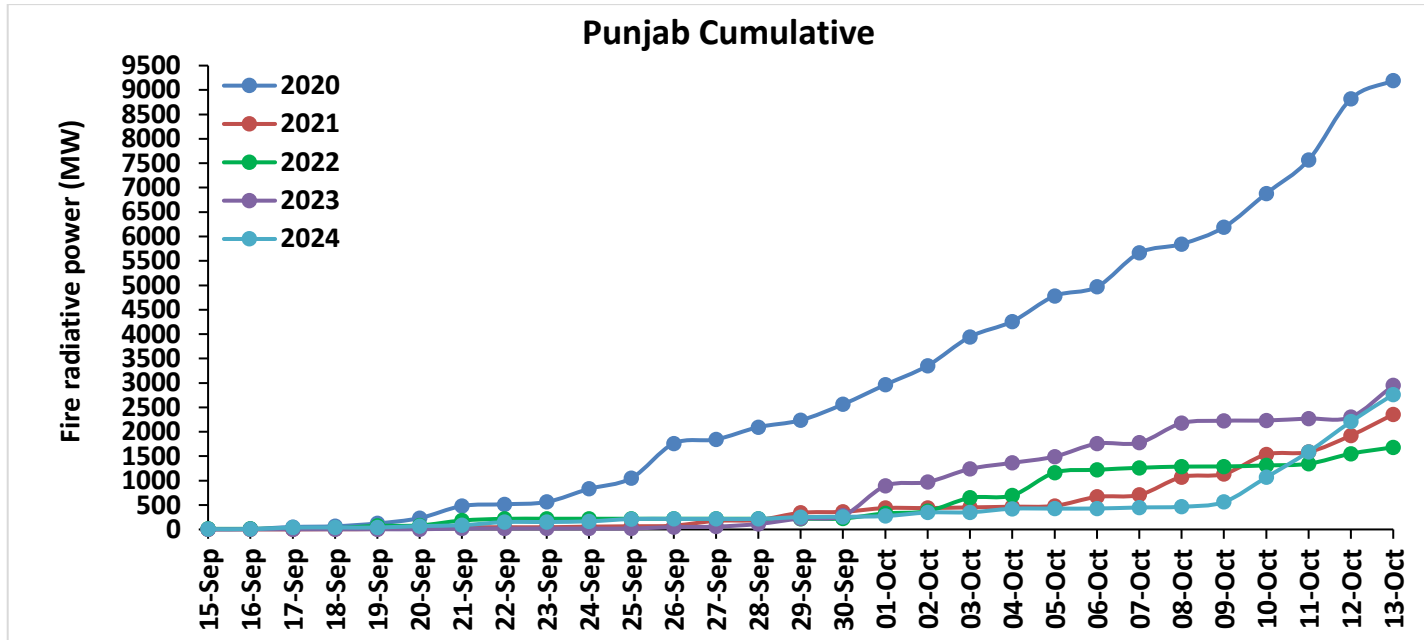
Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States



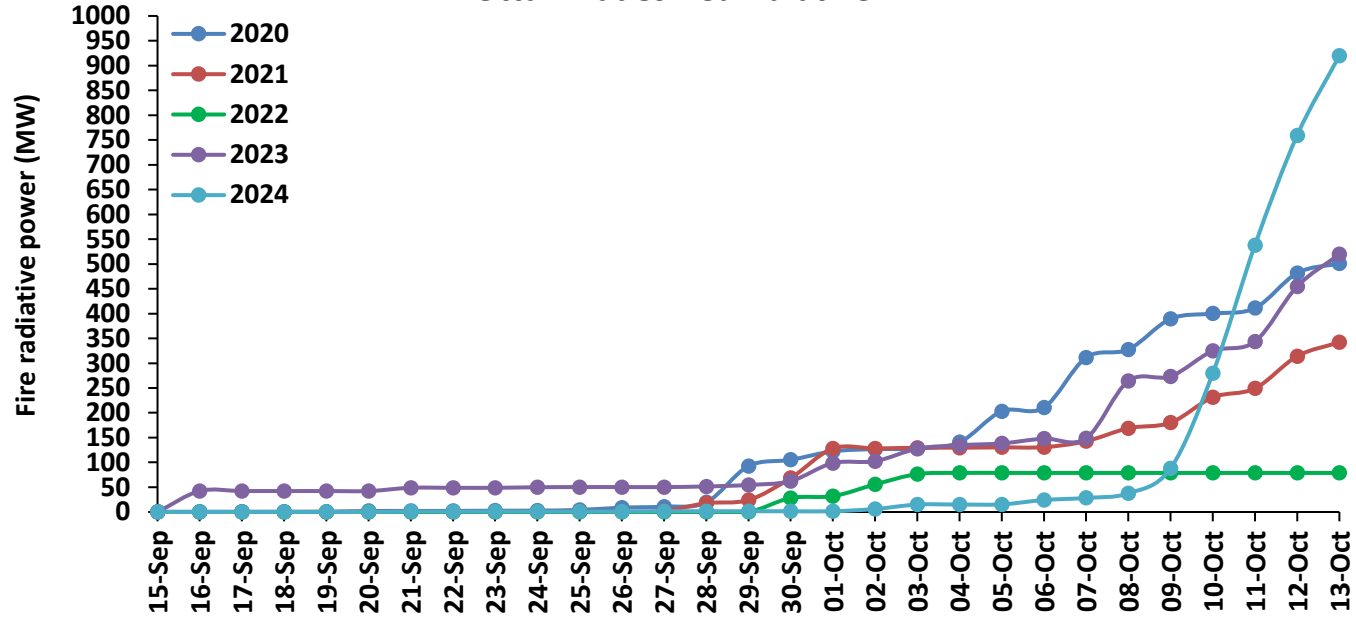




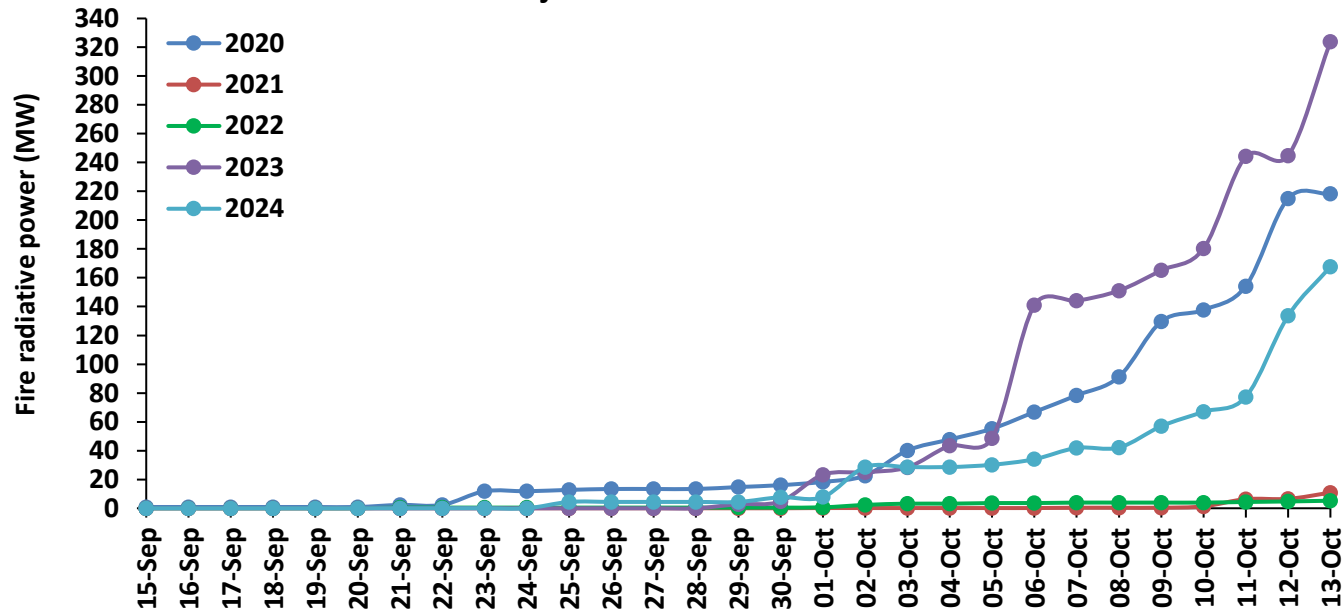
Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States

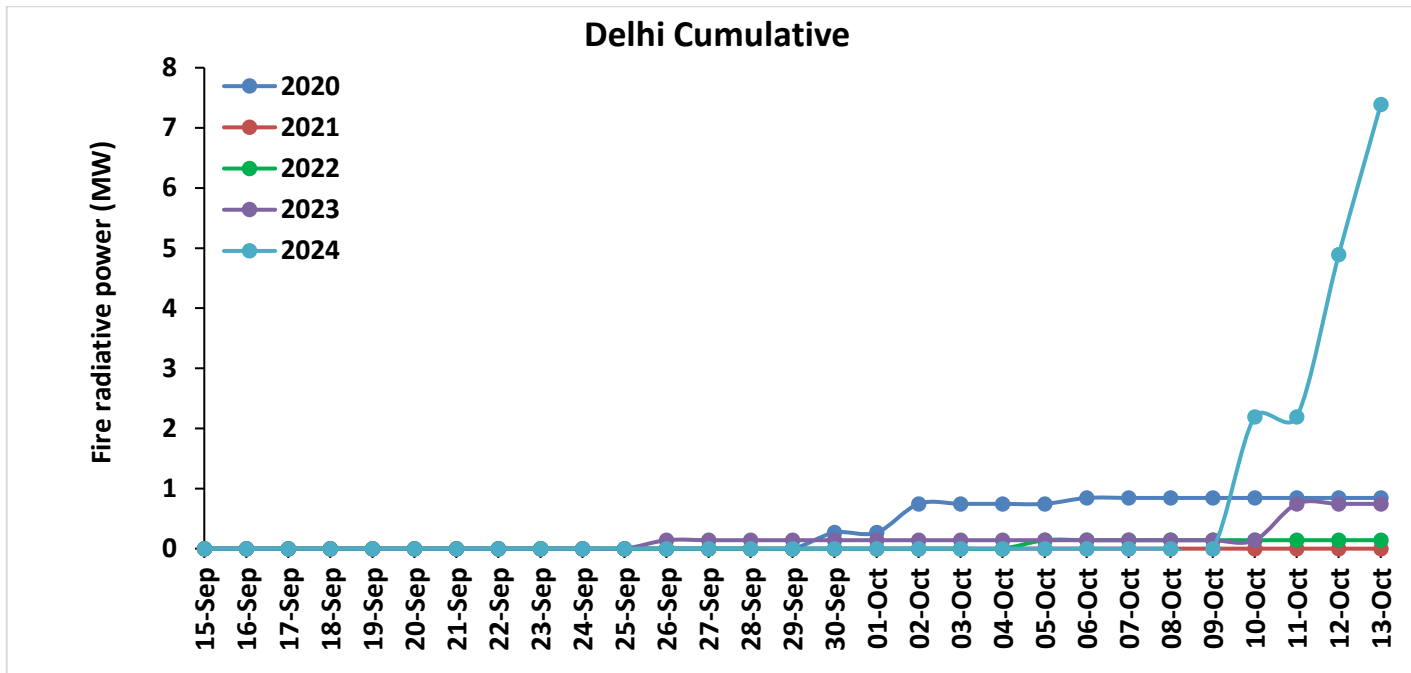
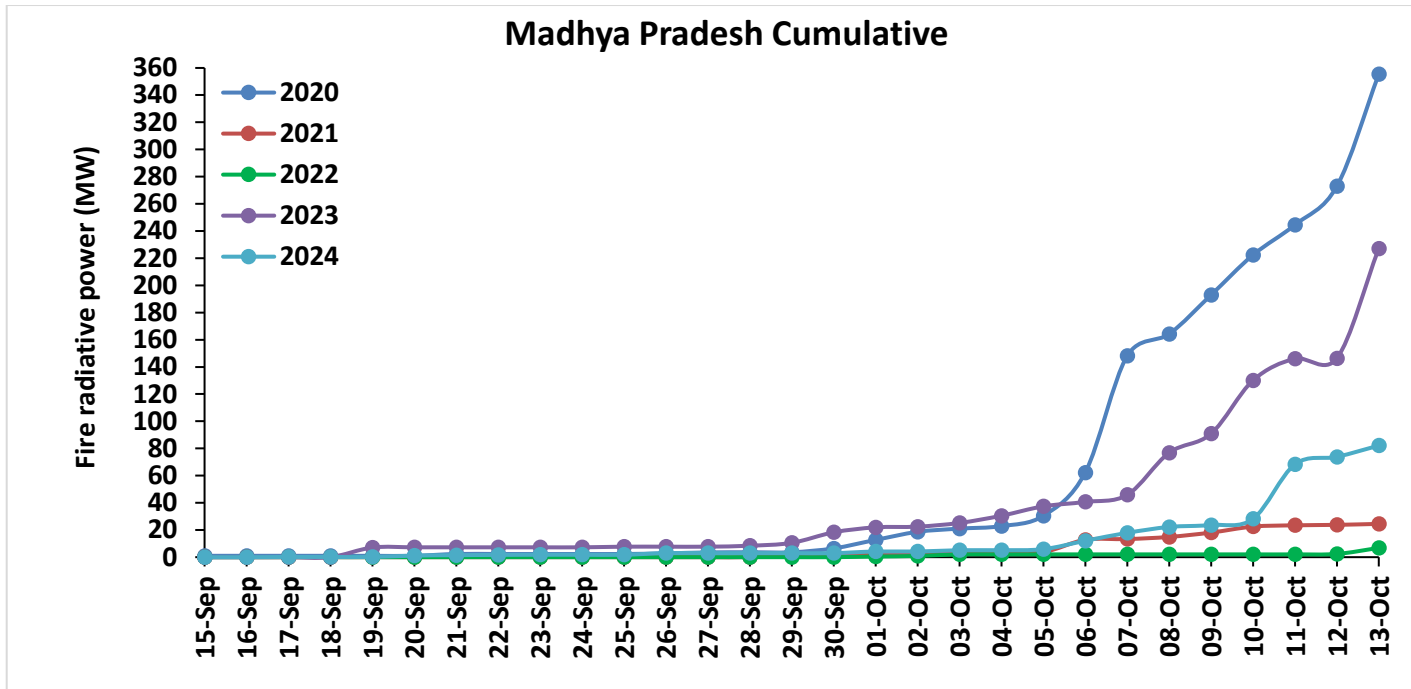


Uttar Pradesh Cumulative



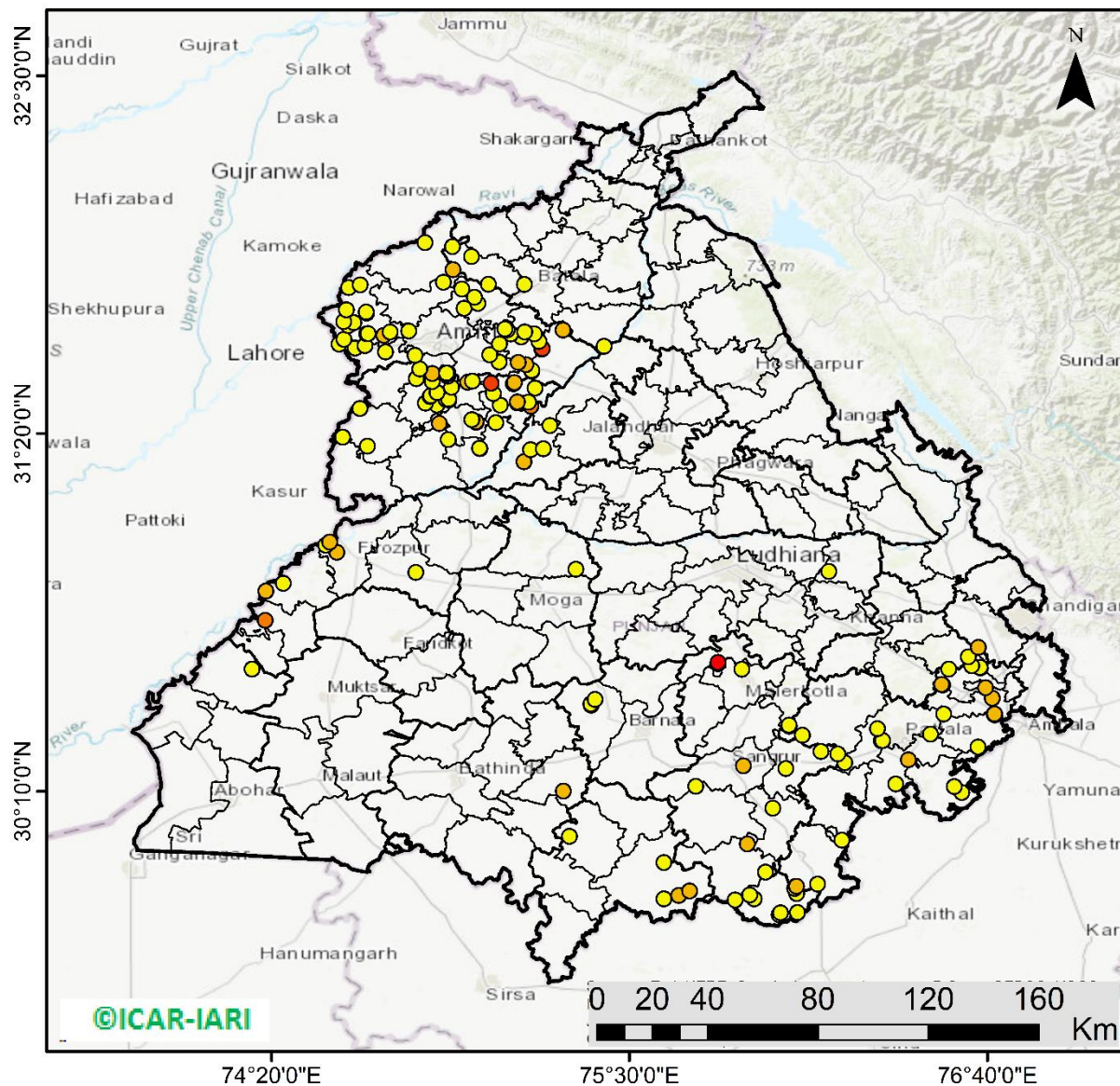
Rajasthan Cumulative





Punjab

RICE RESIDUE BURNING IN PUNJAB



162 burning events detected in Punjab during (13th Oct 2024)

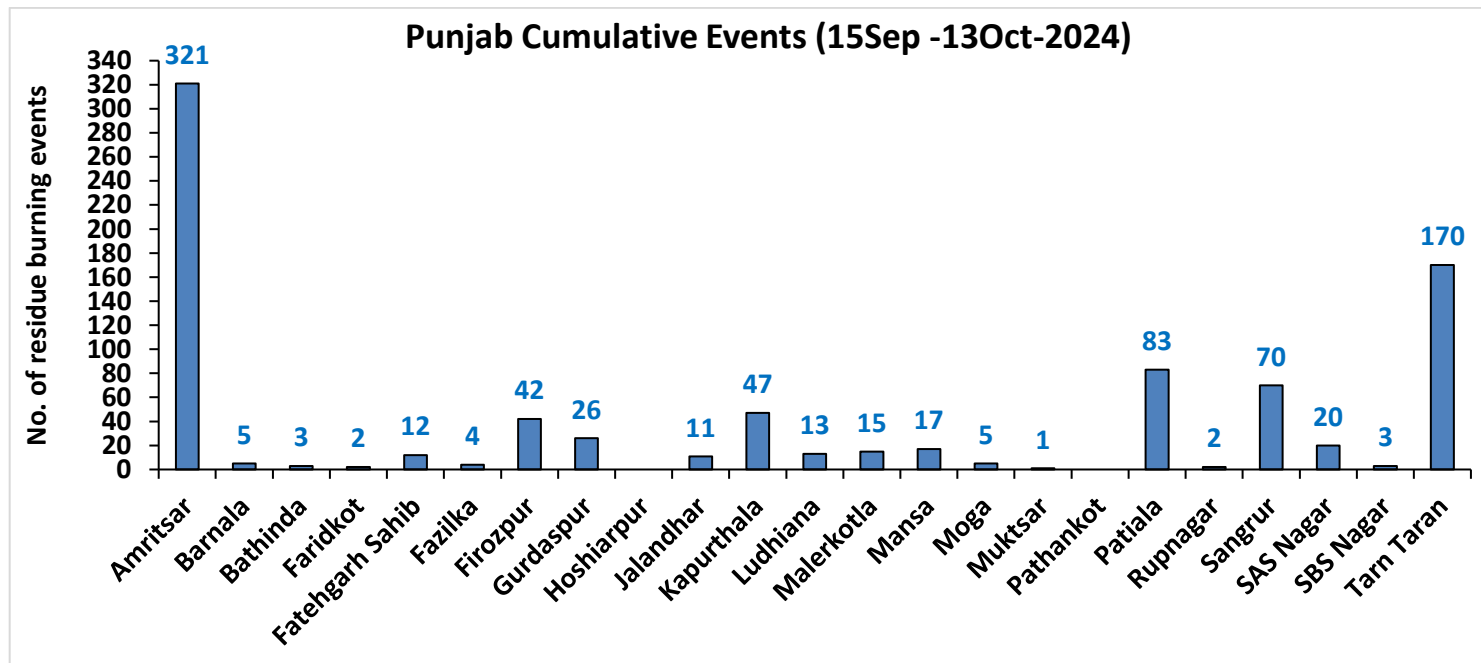
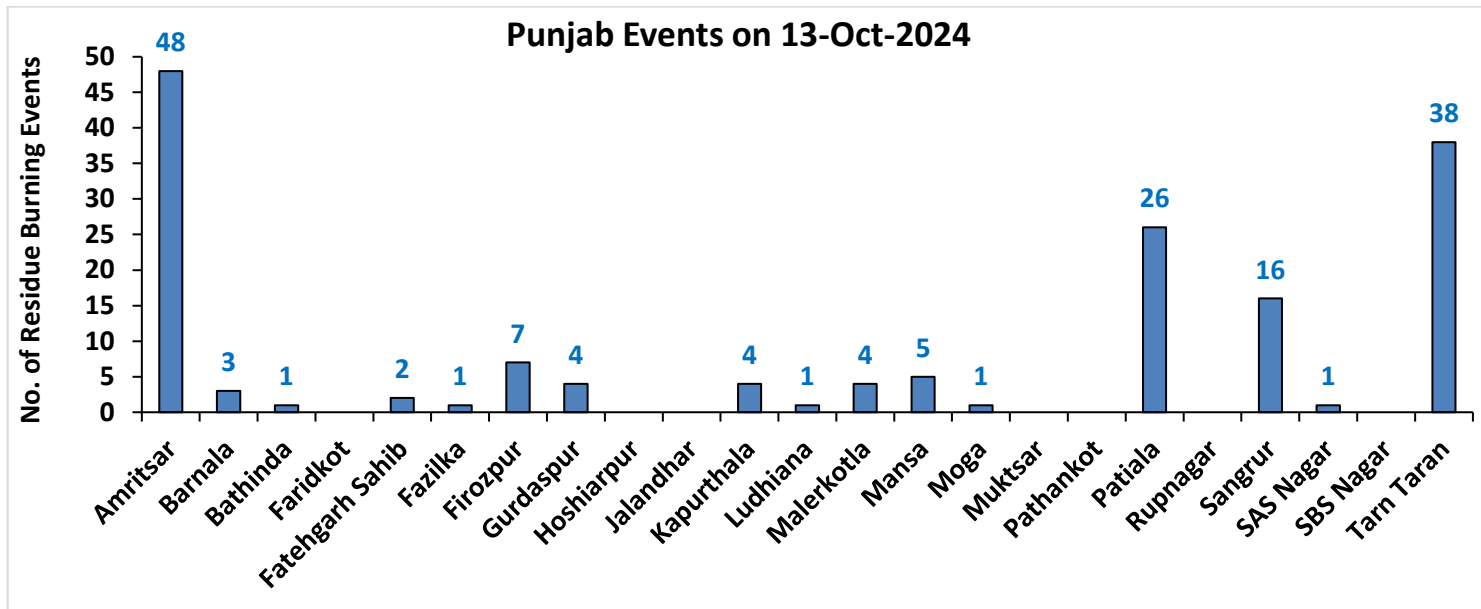
Fire Intensity (W/m²)

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



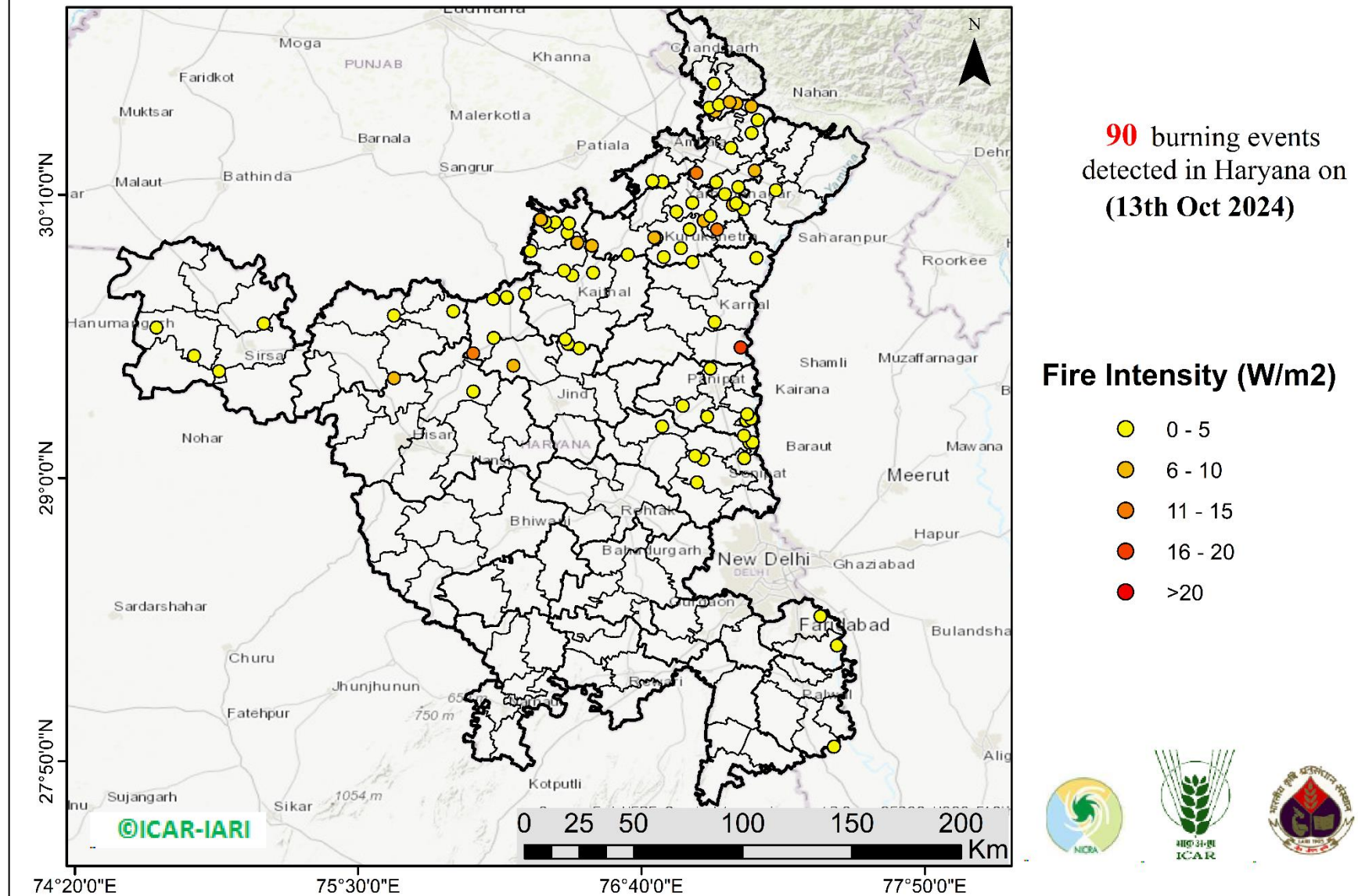
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15Sep-13Oct-2024)

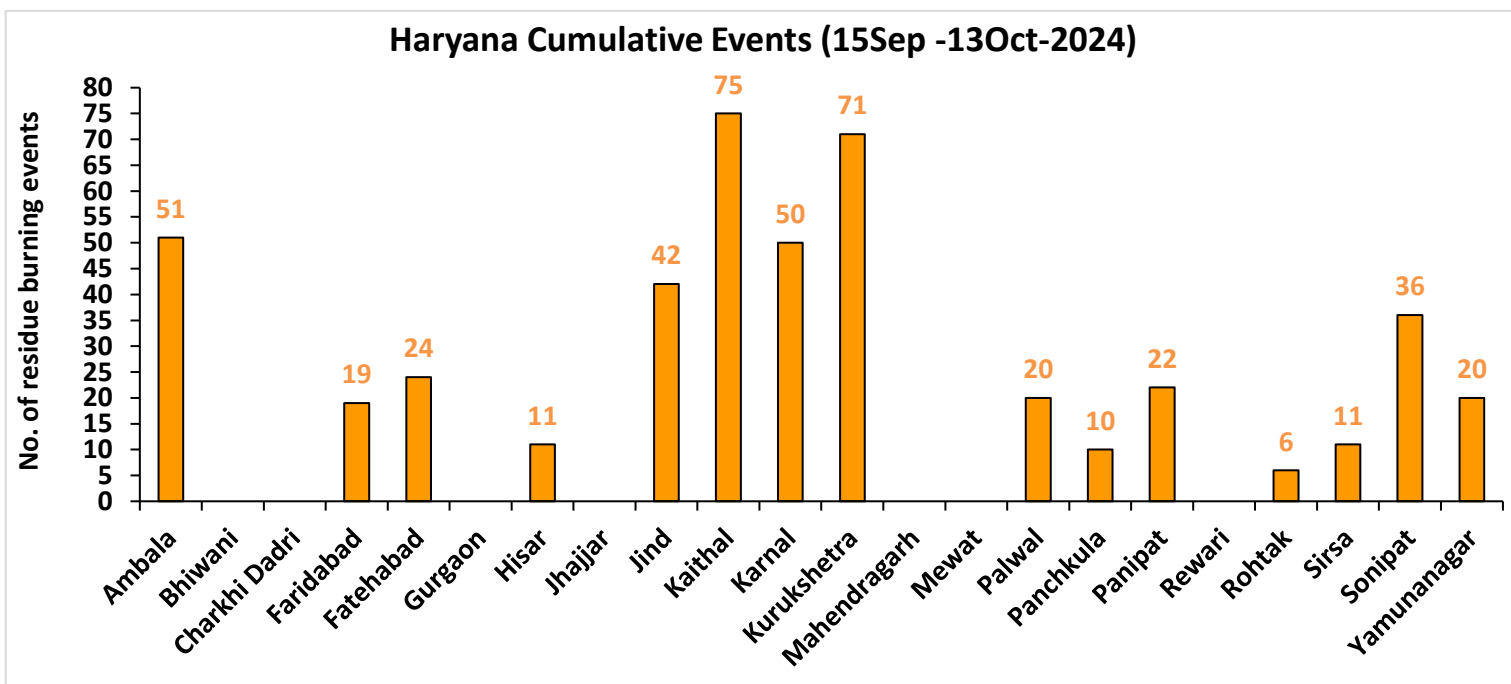
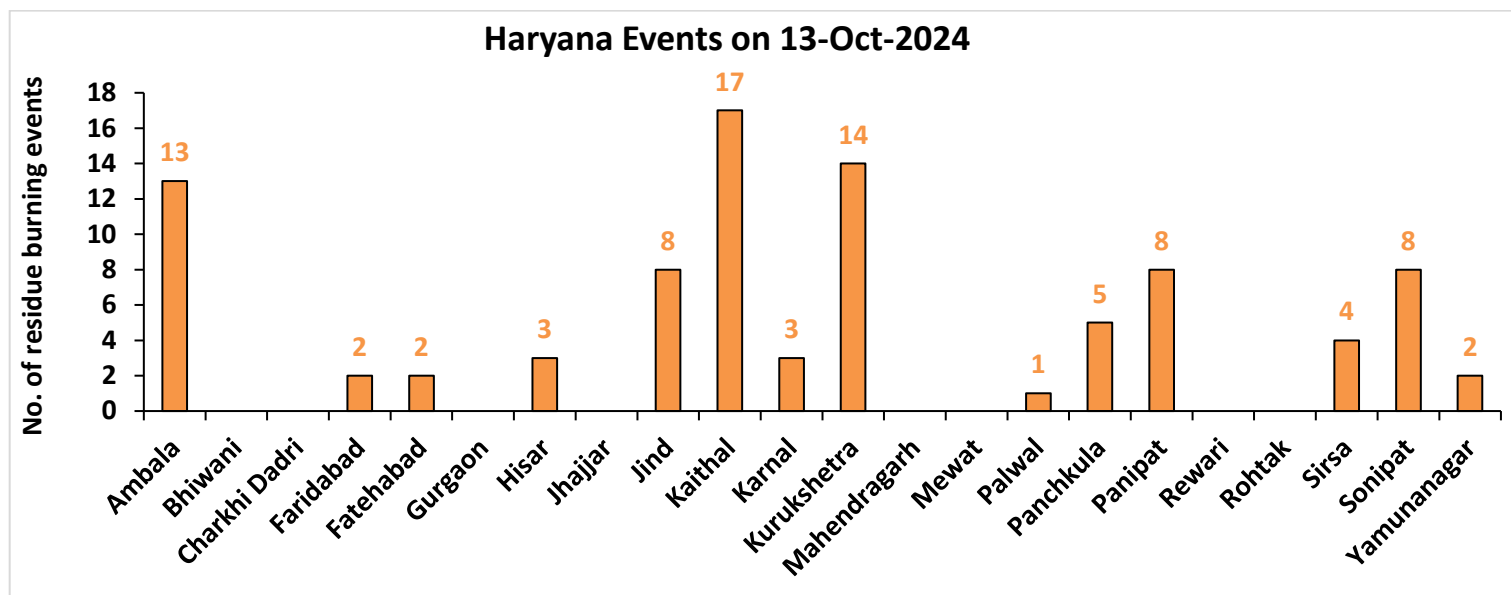


Haryana

RICE RESIDUE BURNING IN HARYANA

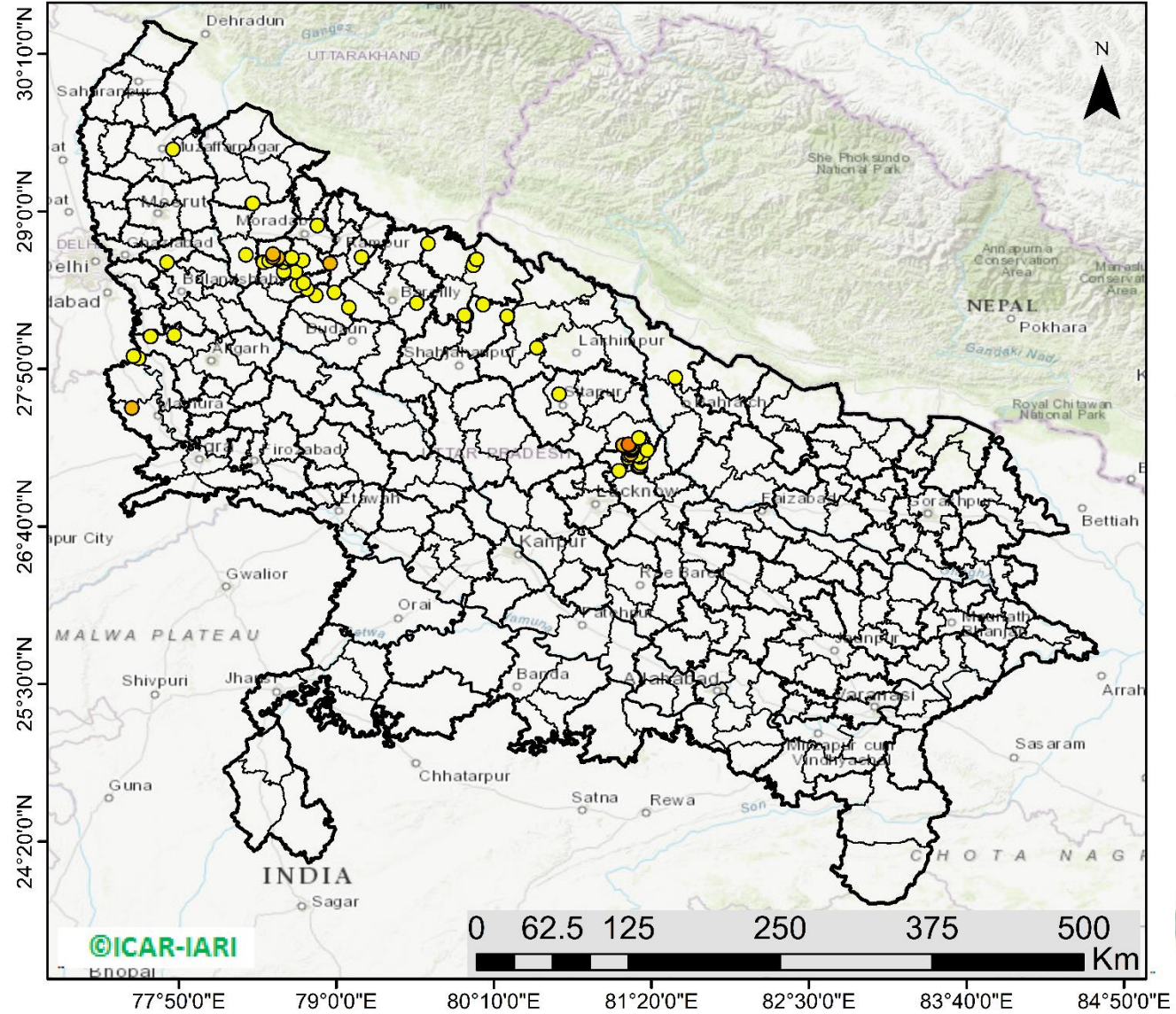


District-wise cumulative number of residues burning events in Haryana (15Sep-13Oct-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



76 burning events detected in Uttar Pradesh on (13th Oct 2024)

Fire Intensity (W/m2)

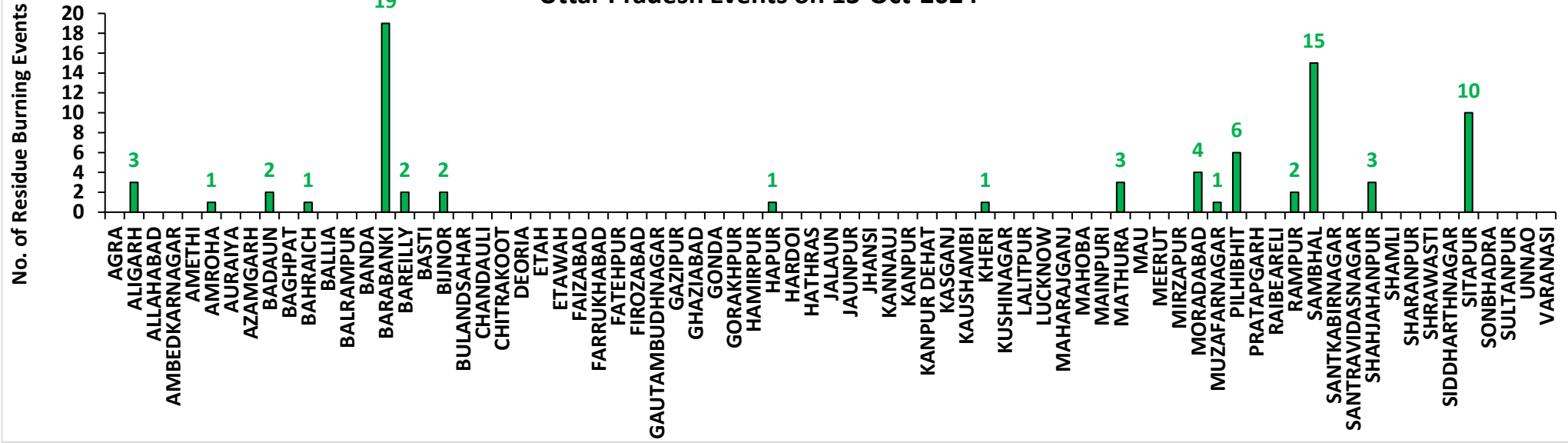
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



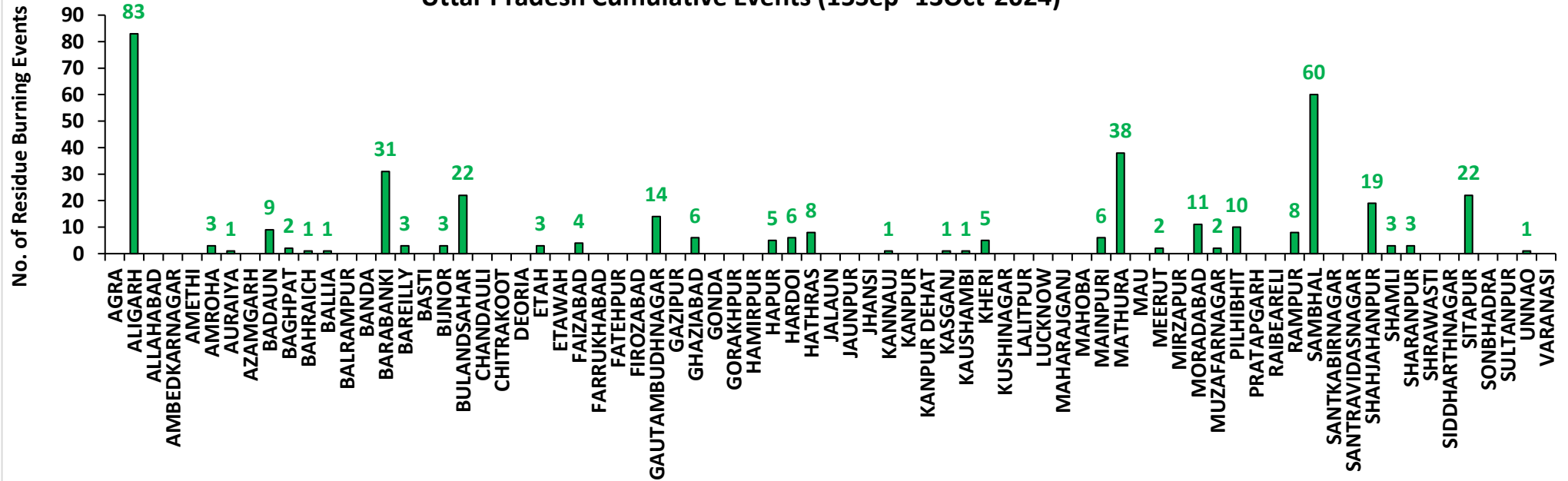
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-13Oct-2024)

Uttar Pradesh Events on 13-Oct-2024

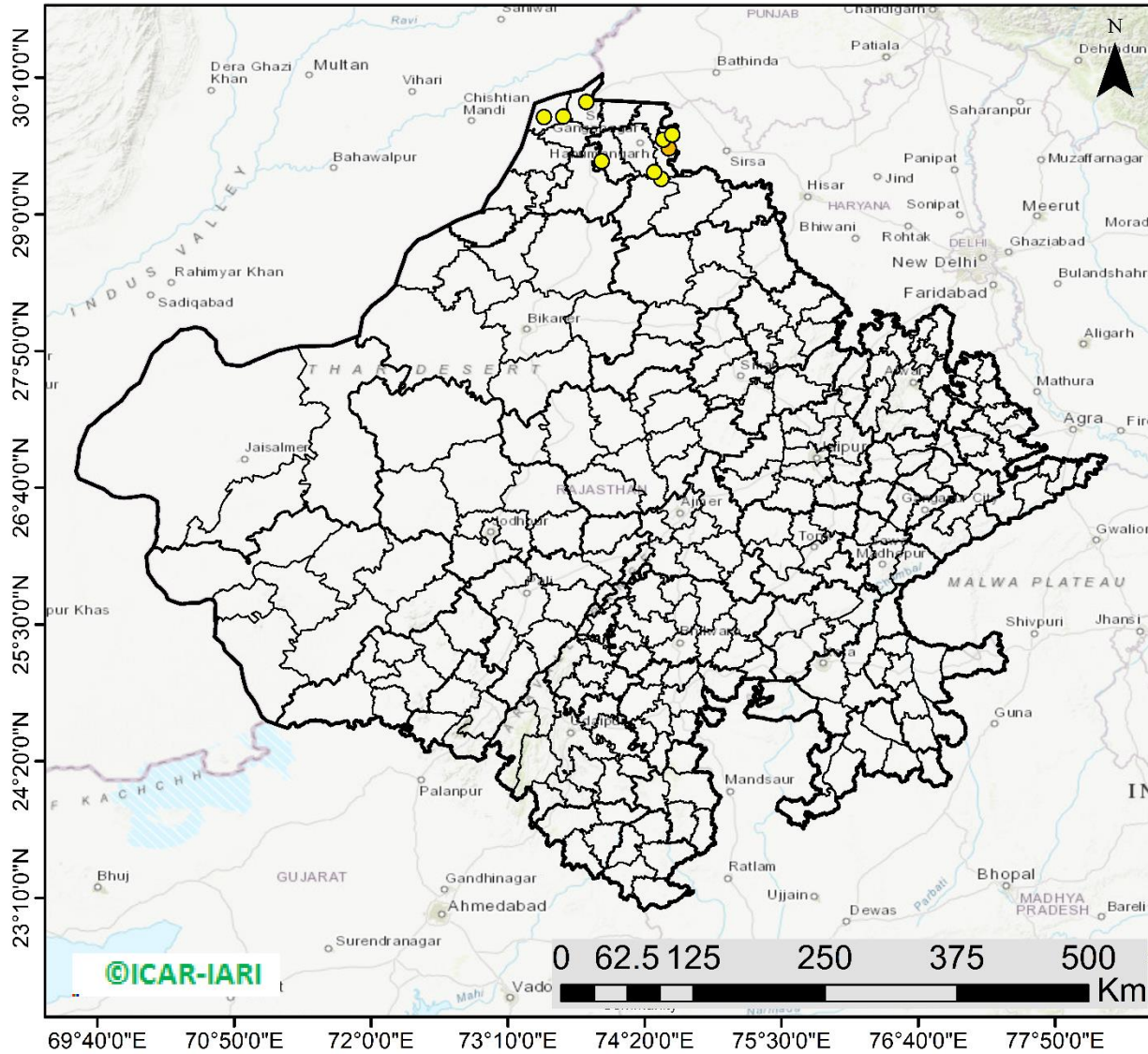


Uttar Pradesh Cumulative Events (15Sep -13Oct-2024)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



10 burning events detected in Rajasthan on (13th Oct 2024)

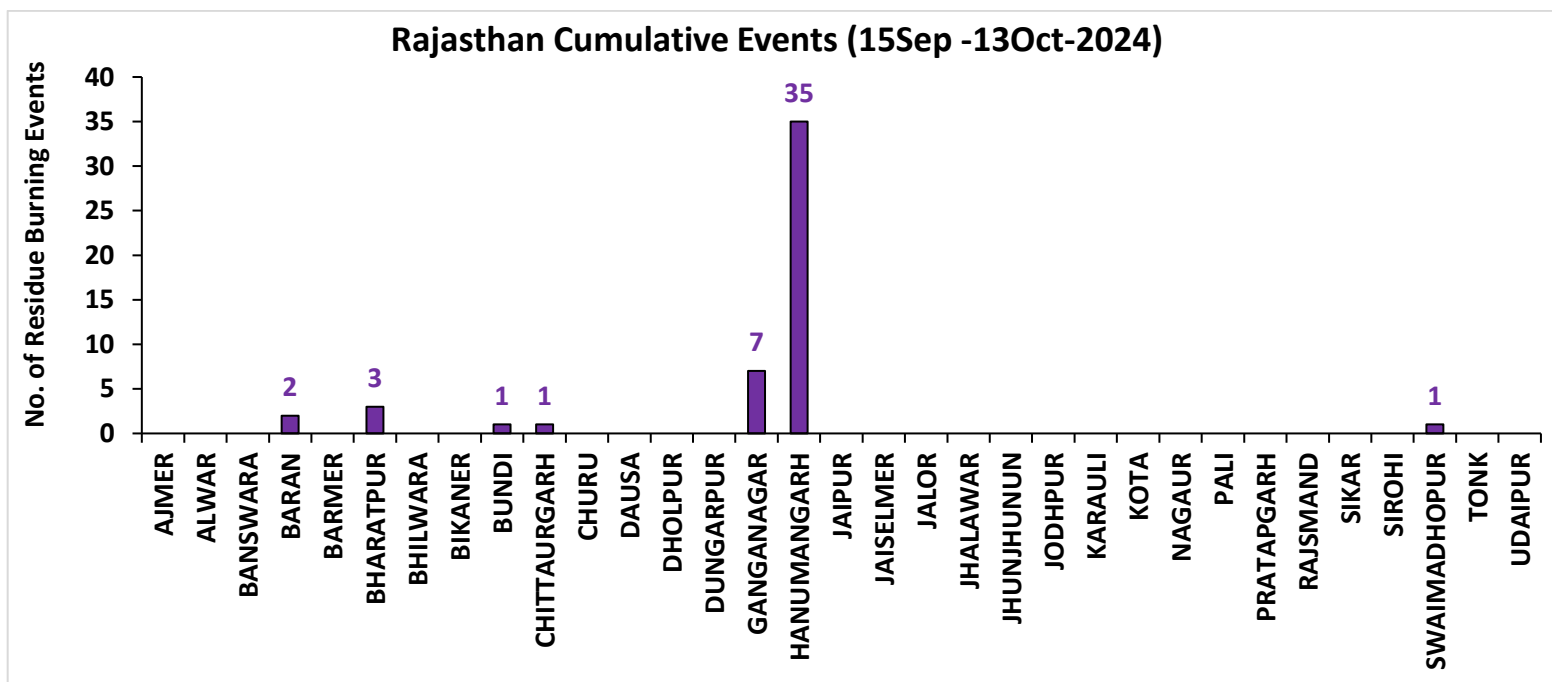
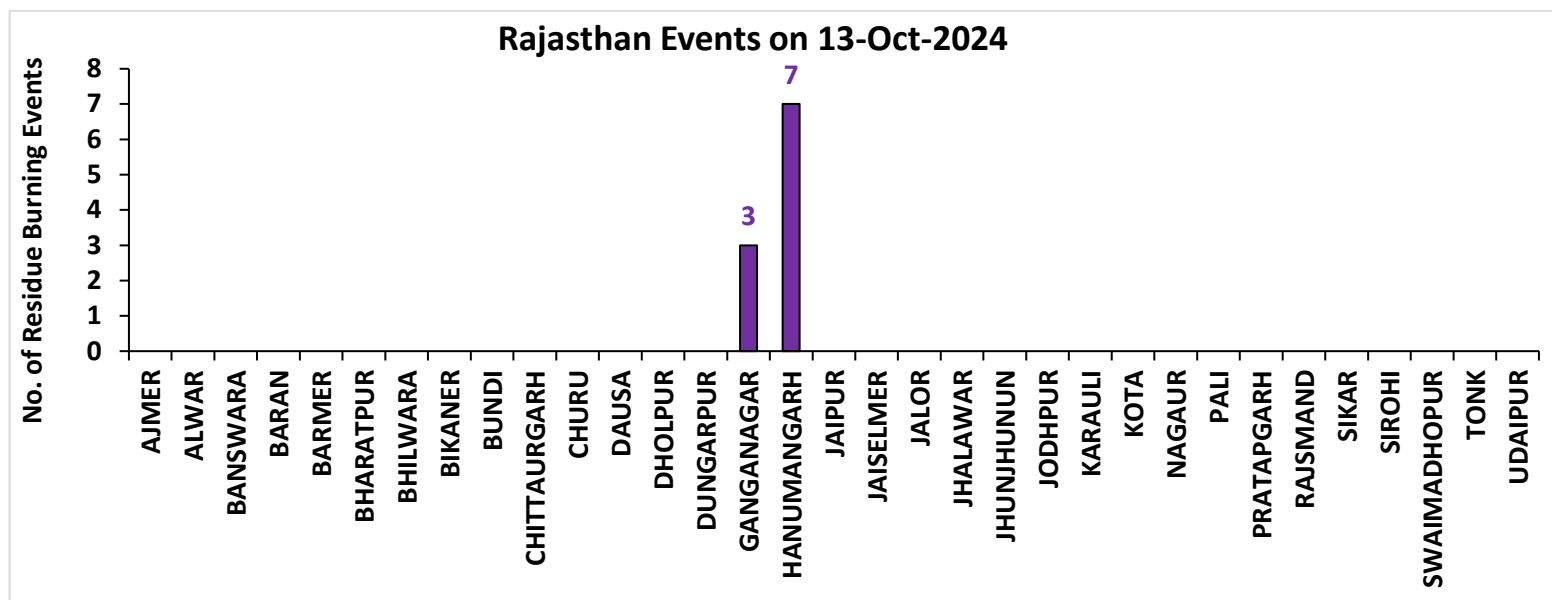
Fire Intensity (W/m²)

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



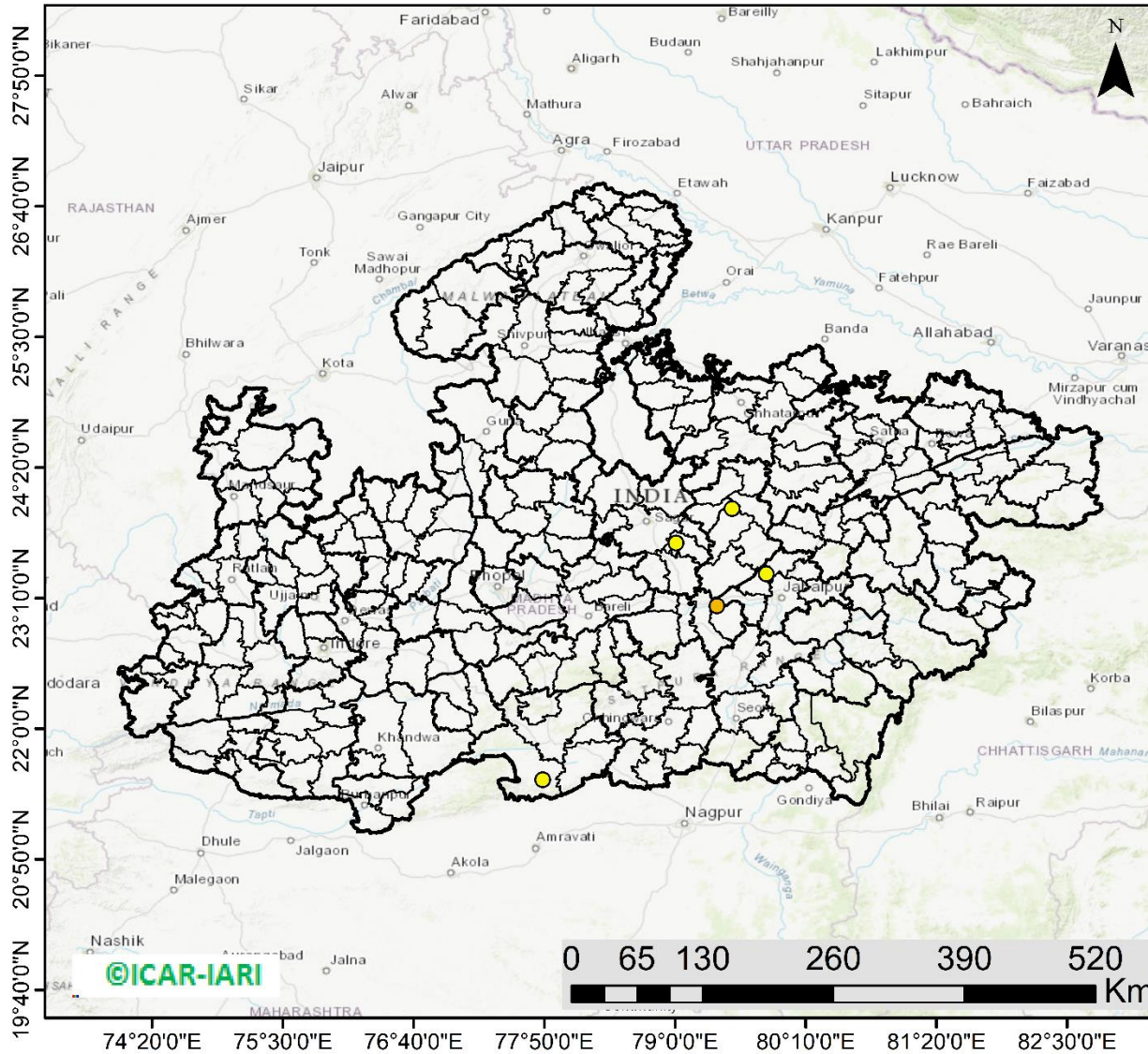
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15Sep-13Oct-2024)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



05 burning events detected in MP on (13th Oct 2024)

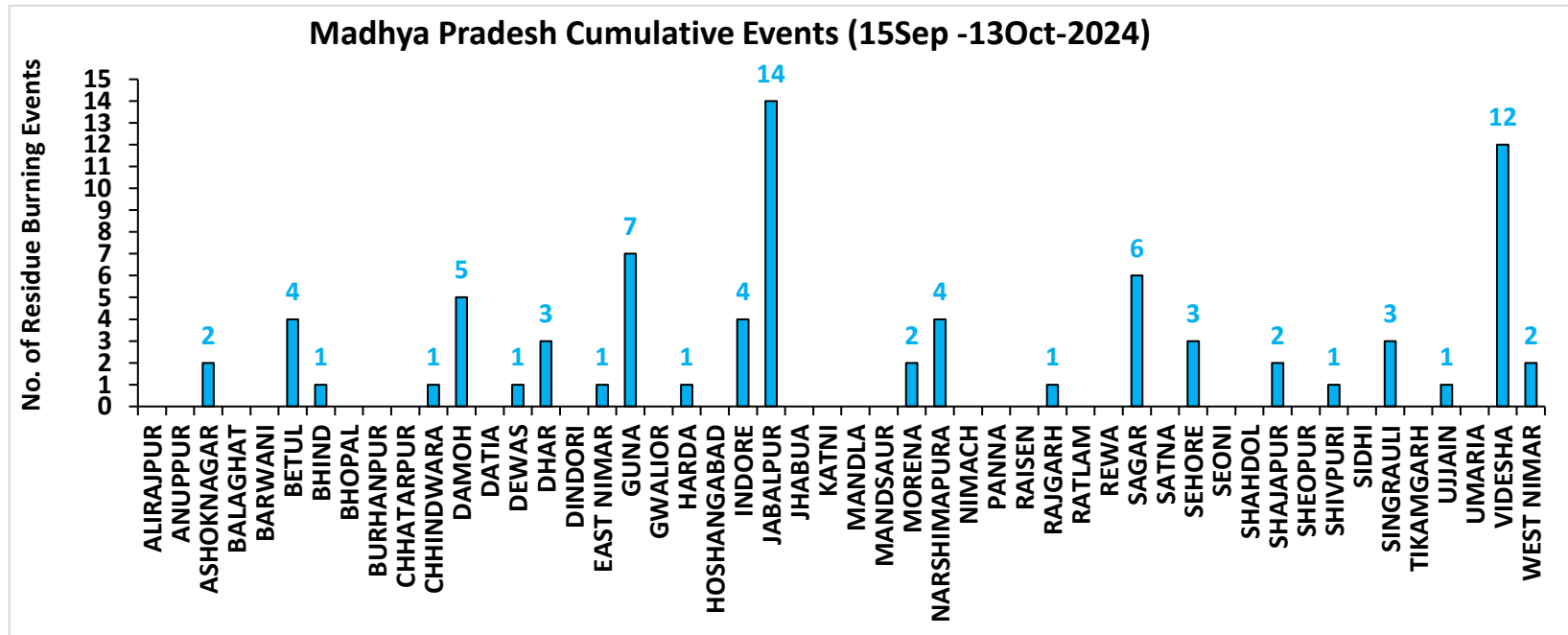
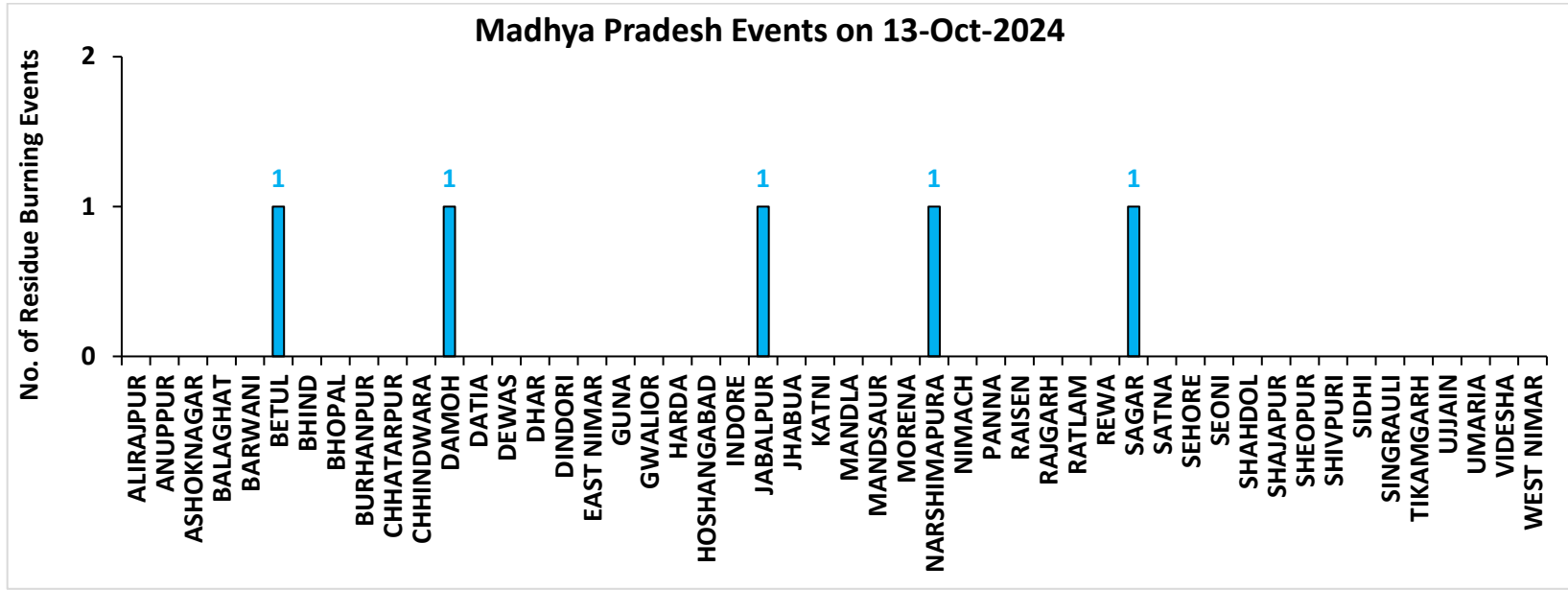
Fire Intensity (W/m²)

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



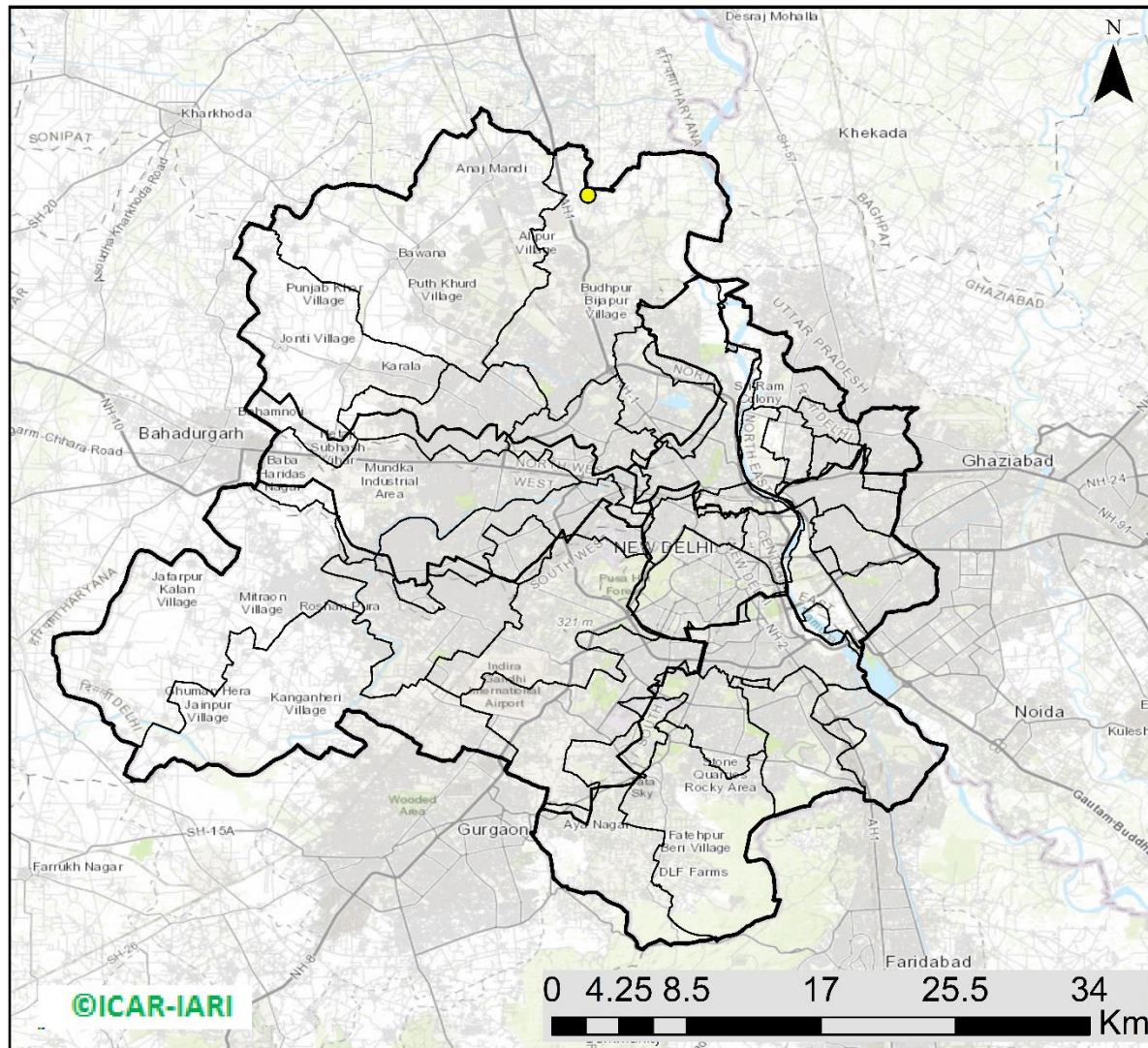
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-13Oct-2024)



Delhi

RICE RESIDUE BURNING IN DELHI



01 burning events detected in Delhi on (13th Oct 2024)

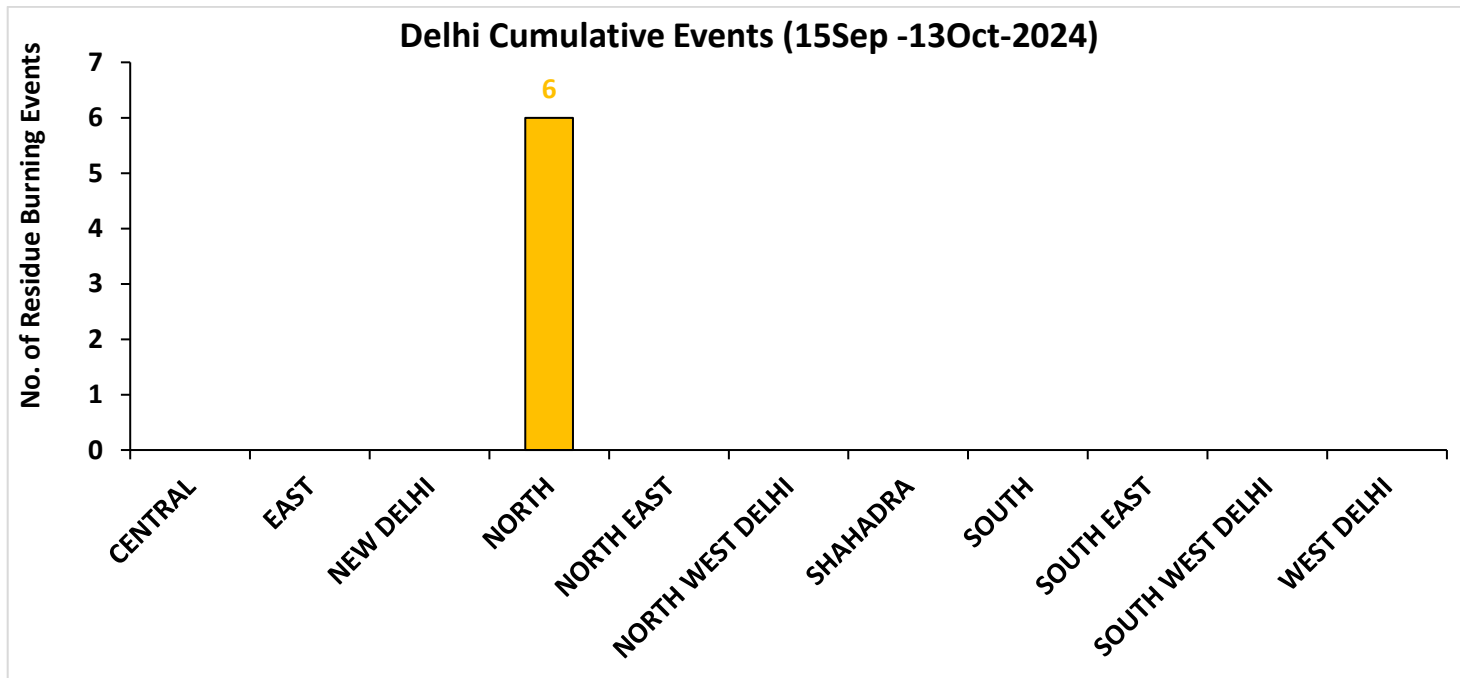
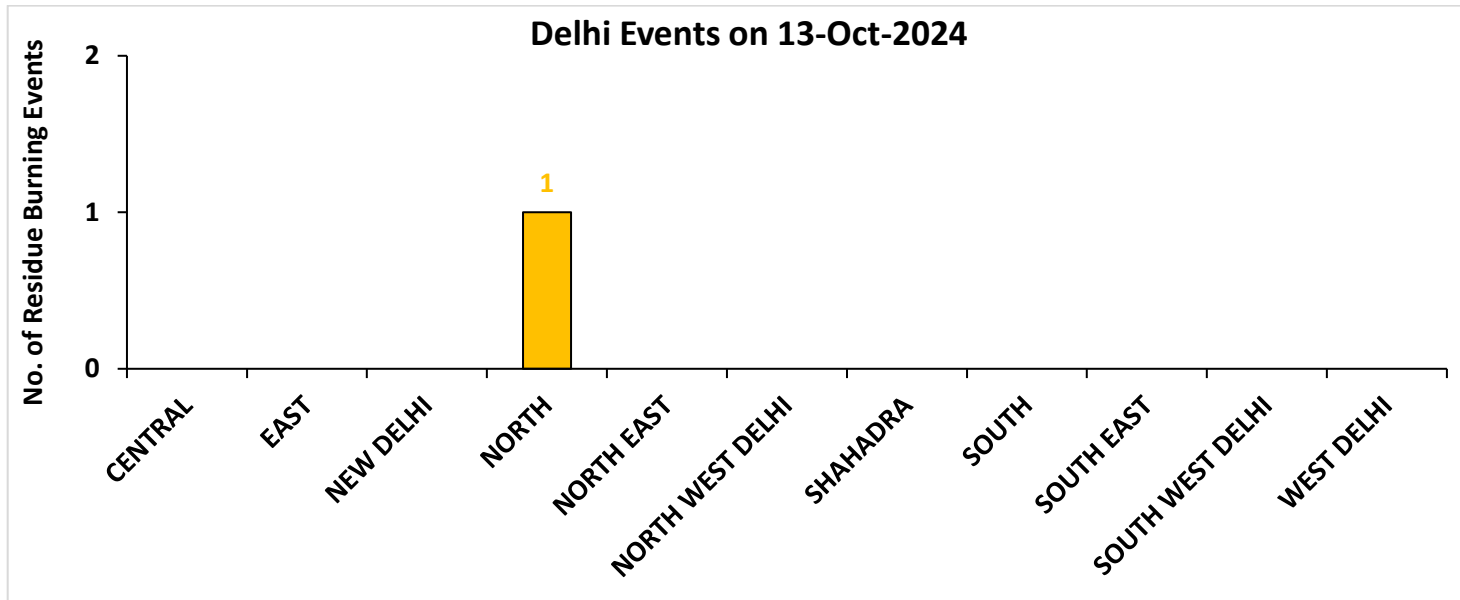
Fire Intensity (W/m²)

- 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 Delhi (15Sep-13Oct-2024)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024
(Period: 15 September-13 October)

(a) Punjab

District	15 Sep-13 Oct				
	2020	2021	2022	2023	2024
Amritsar	1532	381	521	629	321
Barnala	11	6	7	6	5
Bathinda	24	0	0	1	3
Faridkot	55	25	6	8	2
Fatehgarh Sahib	59	46	5	17	12
Fazilka	12	8	3	4	4
Firozpur	153	33	31	38	42
Gurdaspur	200	38	41	11	26
Hoshiarpur	11	1	0	2	0
Jalandhar	52	27	27	17	11
Kapurthala	81	42	42	76	47
Ludhiana	95	74	13	18	13
Malerkotla	0	0	0	3	15
Mansa	19	1	1	12	17
Moga	27	11	14	5	5
Muktsar	9	5	1	0	1
Pathankot	0	0	0	0	0
Patiala	291	87	30	101	83
Rupnagar	11	6	0	1	2
Sangrur	89	14	23	46	70
SAS NAGAR (Mohali)	22	14	4	44	20
SBS Nagar	9	2	2	2	3
Tarn Taran	849	236	216	189	170
Total	3611	1057	987	1230	872

(b) Haryana

District	15 Sep-13 Oct				
	2020	2021	2022	2023	2024
AMBALA	72	18	10	62	51
BHIWANI	0	0	0	1	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	1	0	2	19
FATEHABAD	33	16	4	53	24
GURGAON	0	0	0	0	0
HISAR	6	0	1	16	11
JHAJJAR	1	0	0	2	0
JIND	15	10	9	41	42
KAITHAL	86	86	15	31	75
KARNAL	154	141	22	23	50
KURUKSHETRA	99	84	31	51	71
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	5	10	0	12	20
PANCHKULA	0	0	0	0	10
PANIPAT	7	3	2	12	22
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	6
SIRSA	6	0	2	2	11
SONIPAT	8	1	2	34	36
YAMUNANAGAR	35	19	4	31	20
Total	527	389	102	374	468

(c) Uttar Pradesh

District	15 Sep-13 Oct																		
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	5	0	4	14	MUZAFARNAGAR	2	0	0	0	2		
AGRA	1	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	4	17	2	28	10		
ALIGARH	21	6	1	53	83	GHAZIABAD	1	2	1	6	6	PRATAPGARH	0	0	0	0	0		
ALLAHABAD	0	0	0	0	0	GONDA	0	0	0	0	0	RAIBEARELI	1	0	0	0	0		
AMBEDKARNAGAR	0	0	0	0	0	GORAKHPUR	0	0	0	0	0	RAMPUR	14	23	0	13	8		
AMETHI	0	1	0	1	0	HAMIRPUR	1	0	0	0	0	SAMBHAL	6	3	4	8	60		
AMROHA	1	0	0	2	3	HAPUR	3	0	0	0	5	SANTKABIRNAGAR	0	0	0	0	0		
AURAIYA	15	2	4	3	1	HARDOI	4	5	0	4	6	SANTRAVIDASNAGAR	0	0	0	0	0		
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	8	SHAHJAHANPUR	35	101	53	20	19		
BADAUN	0	0	0	1	9	JALAUN	0	0	0	0	0	SHAMLI	18	9	2	2	3		
BAGHPAT	2	0	0	1	2	JAUNPUR	0	0	0	0	0	SHARANPUR	18	4	0	0	3		
BAHRAICH	2	2	0	0	1	JHANSI	6	0	0	2	0	SHRAWASTI	1	0	0	0	0		
BALLIA	0	0	0	0	1	KANNAUJ	3	0	0	0	1	SIDDHARTHANAGAR	0	0	0	0	0		
BALRAMPUR	0	0	0	0	0	KANPUR	0	1	0	2	0	SITAPUR	8	1	0	2	22		
BANDA	0	0	0	0	0	KANPUR DEHAT	3	0	0	1	0	SONBHADRA	0	0	0	0	0		
BARABANKI	10	0	0	16	31	KASGANJ	1	0	0	1	1	SULTANPUR	0	0	0	0	0		
BAREILLY	10	5	0	7	3	KAUSHAMBI	7	1	0	5	1	UNNAO	2	0	0	2	1		
BASTI	2	0	0	0	0	KHERI	29	24	8	3	5	VARANASI	0	0	0	0	0		
BIJNOR	3	1	1	5	3	KUSHINAGAR	0	0	0	0	0	Total	296	243	80	259	398		
BULANDSAHAR	6	1	2	4	22	LALITPUR	0	1	2	0	0								
CHANDAULI	0	0	0	0	0	LUCKNOW	2	0	0	1	0								
CHITRAKOOT	0	0	0	0	0	MAHARAJGANJ	0	0	0	0	0								
DEORIA	0	0	0	2	0	MAHOBA	1	0	0	0	0								
ETAH	4	6	0	8	3	MAINPURI	4	2	0	4	6								
ETAWAH	2	3	0	8	0	MATHURA	7	10	0	31	38								
FAIZABAD	1	0	0	0	4	MAU	0	0	0	0	0								
FARRUKHABAD	0	0	0	0	0	MEERUT	9	0	0	2	2								
FATEHPUR	14	0	0	2	0	MIRZAPUR	5	5	0	0	0								
FIROZABAD	4	0	0	1	0	MORADABAD	2	2	0	2	11								

(d) Delhi

District	15 Sep-13 Oct				
	2020	2021	2022	2023	2024
CENTRAL	0	0	0	0	0
EAST	0	0	0	0	0
NEW DELHI	0	0	0	0	0
NORTH	2	0	2	2	6
NORTH EAST	0	0	0	0	0
NORTH WEST DELHI	0	0	0	0	0
SHAHADRA	0	0	0	0	0
SOUTH	1	0	0	0	0
SOUTH EAST	0	0	0	0	0
SOUTH WEST DELHI	0	0	0	0	0
WEST DELHI	0	0	0	0	0
Total	3	0	2	2	6

(e) Rajasthan

District	15 Sep-13 Oct				
	2020	2021	2022	2023	2024
AJMER	0	0	0	0	0
ALWAR	1	0	0	0	0
BANSWARA	0	0	0	0	0
BARAN	78	0	4	70	2
BARMER	2	0	0	0	0
BHARATPUR	0	0	0	2	3
BHILWARA	2	0	0	0	0
BIKANER	0	0	0	0	0
BUNDI	4	0	4	9	1
CHITTAURGARH	0	1	1	4	1
CHURU	0	0	0	0	0
DAUSA	0	0	0	0	0
DHOLPUR	0	0	0	0	0
DUNGARPUR	0	0	0	0	0
GANGANAGAR	2	0	1	7	7
HANUMANGARH	55	14	3	33	35
JAIPUR	0	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	1	0	0	5	0
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	1	0	0	0	0
KOTA	21	1	1	39	0
NAGAU	0	0	0	0	0
PALI	1	0	0	0	0
PRATAPGARH	0	0	0	0	0
RAJSMAND	0	0	0	0	0
SIKAR	0	0	0	0	0
SIROHI	1	0	0	0	0
SWAIMADHOPUR	3	0	0	5	1
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
Total	177	16	14	174	50

(f) Madhya Pradesh

District	15 Sep-13 Oct										
	2020	2021	2022	2023	2024	PANNA	2	0	0	0	0
ALIRAJPUR	0	0	0	0	0	RAISEN	10	0	0	1	0
ANUPPUR	0	0	0	0	0	RAJGARH	7	1	2	5	1
ASHOKNAGAR	9	0	0	10	2	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	3	0	0	0	0
BARWANI	0	0	0	0	0	SAGAR	13	3	1	5	6
BETUL	0	0	0	0	4	SATNA	3	0	0	1	0
BHIND	2	0	0	6	1	SEHORE	5	0	1	9	3
BHOPAL	4	2	1	6	0	SEONI	6	2	0	0	0
BURHANPUR	0	0	0	0	0	SHAHDOL	0	0	0	0	0
CHHATARPUR	4	0	0	2	0	SHAJAPUR	5	0	0	6	2
CHHINDWARA	0	0	0	1	1	SHEOPUR	6	0	0	3	0
DAMOH	14	1	0	8	5	SHIVPURI	4	0	6	1	1
DATIA	23	2	0	12	0	SIDHI	0	0	0	0	0
DEWAS	3	0	0	5	1	SINGRAULI	0	0	0	0	3
DHAR	19	0	0	20	3	TIKAMGARH	1	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	5	0	0	10	1
EAST NIMAR	2	1	0	0	1	UMARIA	0	0	0	0	0
GUNA	13	1	1	58	7	VIDESHA	50	5	2	15	12
GWALIOR	21	0	1	4	0	WEST NIMAR	2	0	0	0	2
HARDA	8	8	0	8	1	Total	275	32	15	232	81
HOSHANGABAD	9	0	0	6	0						
INDORE	2	0	0	10	4						
JABALPUR	6	2	0	5	14						
JHABUA	0	0	0	0	0						
KATNI	0	0	0	0	0						
MANDLA	0	0	0	0	0						
MANDSAUR	3	0	0	1	0						
MORENA	10	3	0	12	2						
NARSHIMAPURA	1	1	0	1	4						
NIMACH	0	0	0	0	0						

State-wise and date-wise number of paddy residue burning events detected in 2020 ,2021 ,2022, 2023 and 2024
(Period: 15 September-13 October)

Number of Paddy Residue Burning Events Detected

Date	Punjab					Haryana					Uttar Pradesh				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
15-Sep	5	0	14	0	11	2	0	0	1	1	1	0	0	0	0
16-Sep	0	2	0	6	0	1	0	0	1	0	0	0	0	2	0
17-Sep	5	0	1	0	5	3	0	0	0	1	0	0	0	0	1
18-Sep	17	9	7	0	2	0	0	1	0	0	0	1	0	0	0
19-Sep	30	5	18	0	0	2	0	0	1	0	0	1	0	0	0
20-Sep	67	8	10	0	13	6	0	0	2	1	2	0	0	0	0
21-Sep	54	0	56	1	21	2	0	0	2	13	1	0	0	1	2
22-Sep	34	0	30	0	11	1	0	0	2	18	1	0	0	0	0
23-Sep	49	0	3	1	6	0	0	0	3	12	1	0	0	0	0
24-Sep	78	5	0	0	12	0	0	0	0	6	1	1	0	1	0
25-Sep	184	11	0	0	12	11	0	0	1	18	5	0	0	1	0
26-Sep	190	19	0	3	5	5	0	0	2	5	8	0	0	0	0
27-Sep	78	37	0	21	0	8	0	0	9	5	4	1	0	0	3
28-Sep	55	28	0	33	0	6	1	0	8	0	1	6	0	4	0
29-Sep	63	64	0	68	21	9	4	0	17	0	6	10	0	6	0
30-Sep	116	27	8	81	10	22	2	0	26	1	13	13	10	18	0
01-Oct	165	13	45	123	26	15	4	1	21	3	7	13	3	17	0
02-Oct	141	0	83	119	16	30	2	7	24	20	12	0	36	7	9
03-Oct	110	9	75	105	8	8	6	8	17	6	4	3	29	8	7
04-Oct	162	23	65	95	9	29	2	7	29	9	8	0	2	9	0
05-Oct	161	18	130	98	5	17	3	24	24	8	14	2	0	14	1
06-Oct	171	42	85	91	3	30	0	26	19	23	12	1	0	18	17
07-Oct	197	72	62	32	18	32	11	6	13	14	41	13	0	5	11
08-Oct	95	108	19	92	20	29	27	0	55	13	25	11	0	27	16
09-Oct	121	114	3	58	33	20	39	1	14	10	15	20	0	13	10
10-Oct	232	150	4	10	123	33	95	2	28	38	9	54	0	34	56
11-Oct	377	64	45	26	143	90	51	0	21	55	23	28	0	50	87
12-Oct	388	97	104	13	177	69	51	4	5	98	46	23	0	5	102

13-Oct	266	132	120	154	162	47	91	15	29	90	36	42	0	19	76
Total	3611	1057	987	1230	872	527	389	102	374	468	296	243	80	259	398

Number of Paddy Residue Burning Events Detected

Date	Delhi					Rajasthan					Madhya Pradesh				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
15-Sep	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
16-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
20-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
21-Sep	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23-Sep	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep	0	0	0	0	0	1	0	0	0	3	0	0	0	1	0
26-Sep	0	0	0	1	0	1	0	0	0	0	2	0	0	0	2
27-Sep	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
28-Sep	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0
29-Sep	0	0	0	0	0	3	0	0	6	0	0	4	0	5	0
30-Sep	1	0	0	0	0	1	0	0	4	2	5	0	0	11	0
01-Oct	0	0	0	0	0	4	1	1	4	1	13	0	1	8	3
02-Oct	1	0	0	0	0	7	0	3	4	3	12	0	1	1	0
03-Oct	0	0	0	0	0	9	0	2	5	0	5	1	5	5	2
04-Oct	0	0	0	0	0	15	0	0	22	0	4	2	0	12	0
05-Oct	0	0	2	0	0	14	0	1	11	2	13	1	0	18	2
06-Oct	1	0	0	0	0	16	0	0	9	1	37	1	0	7	12
07-Oct	0	0	0	0	0	14	1	1	7	4	31	1	0	9	17
08-Oct	0	0	0	0	0	11	0	0	9	1	17	2	0	18	7
09-Oct	0	0	0	0	0	12	0	0	17	1	15	4	0	24	2
10-Oct	0	0	0	0	3	14	1	0	26	3	18	10	0	52	1
11-Oct	0	0	0	1	0	21	7	1	21	6	32	2	0	24	17
12-Oct	0	0	0	0	2	24	1	2	1	13	44	1	1	1	5

13-Oct	0	0	0	0	1	7	5	2	28	10	21	2	7	32	5
Total	3	0	2	2	6	177	16	14	174	50	275	32	15	232	81

Details of residue burning events in Punjab on 13-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	JPSS-1	31.82644	74.89432	13:33:33	D	3.80
2	AMRITSAR	AJNALA	JPSS-1	31.86725	74.92535	13:33:33	D	7.30
3	AMRITSAR	AJNALA	JPSS-1	31.94243	74.92360	13:33:33	D	2.30
4	AMRITSAR	AJNALA	S-NPP	31.95547	74.83414	13:09:22	D	4.50
5	AMRITSAR	ATTARI	JPSS-2	31.52708	74.90681	01:10:42	N	6.30
6	AMRITSAR	ATTARI	JPSS-2	31.52969	74.90892	01:10:42	N	4.60
7	AMRITSAR	ATTARI	JPSS-2	31.52998	74.90439	01:10:42	N	4.60
8	AMRITSAR	ATTARI	JPSS-1	31.59940	74.70512	13:33:33	D	4.20
9	AMRITSAR	ATTARI	JPSS-1	31.61183	74.60662	13:33:33	D	4.80
10	AMRITSAR	ATTARI	JPSS-1	31.61983	74.63863	13:33:33	D	2.00
11	AMRITSAR	ATTARI	JPSS-1	31.62466	74.55378	13:33:33	D	2.00
12	AMRITSAR	ATTARI	S-NPP	31.63997	74.57005	13:09:22	D	4.50
13	AMRITSAR	CHOGAWAN	S-NPP	31.65314	74.70019	13:09:22	D	5.50
14	AMRITSAR	CHOGAWAN	S-NPP	31.65854	74.64430	13:09:22	D	2.80
15	AMRITSAR	CHOGAWAN	S-NPP	31.65895	74.64825	13:09:22	D	4.50
16	AMRITSAR	CHOGAWAN	JPSS-2	31.66431	74.72058	14:25:44	D	3.50
17	AMRITSAR	CHOGAWAN	JPSS-2	31.68526	74.58417	12:45:43	D	3.30
18	AMRITSAR	CHOGAWAN	S-NPP	31.69469	74.60222	13:09:22	D	4.40
19	AMRITSAR	CHOGAWAN	JPSS-1	31.69802	74.56890	13:33:33	D	2.50
20	AMRITSAR	CHOGAWAN	JPSS-1	31.72572	74.64329	13:33:33	D	2.80
21	AMRITSAR	CHOGAWAN	JPSS-1	31.72904	74.64264	13:33:33	D	2.80
22	AMRITSAR	CHOGAWAN	JPSS-2	31.73628	74.57790	12:45:43	D	2.90
23	AMRITSAR	CHOGAWAN	JPSS-1	31.80883	74.58540	13:33:33	D	3.80
24	AMRITSAR	CHOGAWAN	JPSS-2	31.81780	74.62289	12:45:43	D	3.70
25	AMRITSAR	JANDIALA GURU	JPSS-1	31.56645	75.07529	13:33:33	D	4.30
26	AMRITSAR	JANDIALA GURU	JPSS-1	31.58969	75.04528	13:33:33	D	4.30
27	AMRITSAR	MAJITHA	JPSS-1	31.74111	74.96154	13:33:33	D	3.60

28	AMRITSAR	MAJITHA	JPSS-2	31.75717	75.00636	12:45:43	D	2.70
29	AMRITSAR	MAJITHA	JPSS-2	31.77726	74.99545	12:45:43	D	2.00
30	AMRITSAR	MAJITHA	S-NPP	31.80406	74.95429	13:09:22	D	2.60
31	AMRITSAR	RAYYA	JPSS-1	31.49928	75.12540	13:33:33	D	5.70
32	AMRITSAR	RAYYA	JPSS-2	31.53599	75.18228	12:45:43	D	2.40
33	AMRITSAR	RAYYA	JPSS-2	31.53920	75.18213	12:45:43	D	2.40
34	AMRITSAR	RAYYA	S-NPP	31.55790	75.16264	13:09:22	D	5.10
35	AMRITSAR	RAYYA	S-NPP	31.56499	75.13784	13:09:22	D	6.00
36	AMRITSAR	RAYYA	JPSS-2	31.60815	75.21485	14:25:44	D	11.00
37	AMRITSAR	RAYYA	JPSS-2	31.60968	75.21629	14:25:44	D	15.70
38	AMRITSAR	RAYYA	JPSS-2	31.67067	75.28386	14:25:44	D	7.30
39	AMRITSAR	TARSIKKA	JPSS-1	31.62502	75.07687	13:33:33	D	2.90
40	AMRITSAR	TARSIKKA	S-NPP	31.63366	75.20563	13:09:22	D	4.10
41	AMRITSAR	TARSIKKA	S-NPP	31.64829	75.14786	13:09:22	D	2.40
42	AMRITSAR	TARSIKKA	JPSS-1	31.65764	75.11331	13:33:33	D	2.30
43	AMRITSAR	TARSIKKA	JPSS-1	31.65815	75.19022	13:33:33	D	1.90
44	AMRITSAR	TARSIKKA	JPSS-1	31.66410	75.15911	13:33:33	D	2.50
45	AMRITSAR	TARSIKKA	S-NPP	31.67109	75.10174	13:09:22	D	3.10
46	AMRITSAR	TARSIKKA	JPSS-2	31.67384	75.09444	12:45:43	D	4.80
47	AMRITSAR	VERKA	S-NPP	31.58787	74.80158	13:09:22	D	2.10
48	AMRITSAR	VERKA	JPSS-1	31.66749	74.78088	13:33:33	D	2.60
49	BARNALA	SEHNA	S-NPP	30.44750	75.37567	13:09:22	D	3.20
50	BARNALA	SEHNA	S-NPP	30.45132	75.37469	13:09:22	D	3.80
51	BARNALA	SEHNA	S-NPP	30.46593	75.38824	13:09:22	D	4.40
52	BATHINDA	RAMPURA	JPSS-2	30.16722	75.28501	12:45:43	D	5.10
53	FATEHGARH SAHIB	KHERA	S-NPP	30.56474	76.54091	13:09:22	D	3.40
54	FATEHGARH SAHIB	KHERA	JPSS-2	30.60520	76.60465	12:45:43	D	4.30
55	FAZILKA	JALALABAD	JPSS-1	30.56485	74.27075	13:33:33	D	3.30
56	FIROZPUR	FIROZPUR	S-NPP	30.94583	74.54666	13:09:22	D	9.10
57	FIROZPUR	FIROZPUR	JPSS-2	30.96880	74.51071	14:25:44	D	4.60
58	FIROZPUR	FIROZPUR	JPSS-1	30.97897	74.52378	13:33:33	D	6.30
59	FIROZPUR	GHALL KHURD	JPSS-1	30.88049	74.80402	13:33:33	D	3.40
60	FIROZPUR	GURUHAR SAHAI	JPSS-1	30.72388	74.31332	13:33:33	D	11.00
61	FIROZPUR	MAMDOT	JPSS-1	30.81941	74.31565	13:33:33	D	9.80

62	FIROZPUR	MAMDOT	JPSS-1	30.84476	74.37231	13:33:33	D	1.50
63	GURDASPUR	BATALA	S-NPP	31.81941	75.15768	13:09:22	D	2.60
64	GURDASPUR	FATEHGARH CHURIAN	JPSS-1	31.81966	75.04056	13:33:33	D	1.80
65	GURDASPUR	FATEHGARH CHURIAN	JPSS-1	31.90997	74.98538	13:33:33	D	1.30
66	GURDASPUR	SRI HARGOBINDPUR	JPSS-1	31.61728	75.41768	13:33:33	D	4.00
67	KAPURTHALA	DHILWAN	JPSS-1	31.35898	75.24105	13:33:33	D	3.20
68	KAPURTHALA	SULTANPUR LODHI	JPSS-2	31.24105	75.15656	14:25:44	D	5.10
69	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.28015	75.17802	13:09:22	D	4.80
70	KAPURTHALA	SULTANPUR LODHI	JPSS-2	31.28358	75.21996	12:45:43	D	3.60
71	LUDHIANA	MACHHIWARA	JPSS-2	30.88325	76.14980	12:45:43	D	4.00
72	MALERKOTLA	AHMEDGARH	JPSS-2	30.58265	75.78806	14:25:44	D	20.70
73	MALERKOTLA	AHMEDGARH	JPSS-2	30.58680	75.78912	14:25:44	D	20.50
74	MALERKOTLA	AMARGARH	S-NPP	30.38242	76.02011	13:09:22	D	4.50
75	MALERKOTLA	MALERKOTLA	S-NPP	30.56436	75.86653	13:09:22	D	3.00
76	MANSA	BUDHLADA	JPSS-1	29.81560	75.61275	13:33:33	D	1.40
77	MANSA	BUDHLADA	S-NPP	29.82665	75.66071	13:09:22	D	8.30
78	MANSA	BUDHLADA	S-NPP	29.84150	75.69661	13:09:22	D	5.20
79	MANSA	BUDHLADA	JPSS-1	29.93441	75.61271	13:33:33	D	2.10
80	MANSA	MANSA	JPSS-1	30.01981	75.30466	13:33:33	D	4.20
81	MOGA	KOT ISE KHAN AT DHARAMKOT	JPSS-1	30.89052	75.32583	13:33:33	D	1.60
82	PATIALA	BHUNARHERI	S-NPP	30.16270	76.58346	13:09:22	D	3.20
83	PATIALA	BHUNARHERI	JPSS-1	30.18200	76.55869	13:33:33	D	4.80
84	PATIALA	GHANAUR	JPSS-1	30.31114	76.63636	13:33:33	D	3.40
85	PATIALA	GHANAUR	JPSS-1	30.41572	76.69092	13:33:33	D	2.70
86	PATIALA	NABHA	JPSS-1	30.34942	76.06390	13:33:33	D	1.70
87	PATIALA	NABHA	S-NPP	30.37871	76.02103	13:09:22	D	4.50
88	PATIALA	PATIALA	JPSS-2	30.25978	76.20190	12:45:43	D	1.90
89	PATIALA	PATIALA	JPSS-1	30.33162	76.32097	13:33:33	D	3.90
90	PATIALA	PATIALA	JPSS-1	30.33219	76.32528	13:33:33	D	3.10
91	PATIALA	PATIALA	JPSS-1	30.35283	76.48141	13:33:33	D	4.30
92	PATIALA	PATIALA	S-NPP	30.37074	76.30863	13:09:22	D	4.10
93	PATIALA	PATIALA	JPSS-2	30.41844	76.52457	12:45:43	D	2.50
94	PATIALA	PATRAN	JPSS-1	29.86387	76.11343	13:33:33	D	2.30
95	PATIALA	PATRAN	JPSS-1	29.90303	75.94353	13:33:33	D	3.80

96	PATIALA	RAJPURA	JPSS-2	30.51347	76.52106	14:25:44	D	9.40
97	PATIALA	RAJPURA	JPSS-2	30.51482	76.51776	14:25:44	D	9.50
98	PATIALA	RAJPURA	JPSS-1	30.56904	76.64433	13:33:33	D	3.50
99	PATIALA	RAJPURA	JPSS-1	30.57089	76.64287	13:33:33	D	3.50
100	PATIALA	RAJPURA	JPSS-1	30.57601	76.61588	13:33:33	D	4.70
101	PATIALA	SAMANA	JPSS-1	30.00732	76.19266	13:33:33	D	1.80
102	PATIALA	SANAUR	S-NPP	30.19024	76.36800	13:09:22	D	4.20
103	PATIALA	SANAUR	S-NPP	30.26913	76.40908	13:09:22	D	9.90
104	PATIALA	SHAMBU KALAN	S-NPP	30.41843	76.68828	13:09:22	D	8.20
105	PATIALA	SHAMBU KALAN	S-NPP	30.41883	76.69009	13:09:22	D	6.40
106	PATIALA	SHAMBU KALAN	S-NPP	30.46998	76.68276	13:09:22	D	6.20
107	PATIALA	SHAMBU KALAN	JPSS-2	30.50422	76.66060	14:25:44	D	9.40
108	SANGRUR	ANDANA	JPSS-2	29.76412	75.98804	12:45:43	D	5.00
109	SANGRUR	ANDANA	JPSS-1	29.77036	75.99246	13:33:33	D	4.70
110	SANGRUR	ANDANA	JPSS-1	29.77104	76.04787	13:33:33	D	4.50
111	SANGRUR	ANDANA	JPSS-1	29.81207	75.84461	13:33:33	D	3.20
112	SANGRUR	ANDANA	S-NPP	29.81580	75.90648	13:09:22	D	2.70
113	SANGRUR	ANDANA	S-NPP	29.82886	75.89219	13:09:22	D	3.30
114	SANGRUR	ANDANA	JPSS-1	29.83311	76.04529	13:33:33	D	2.70
115	SANGRUR	ANDANA	JPSS-1	29.85024	76.03860	13:33:33	D	1.80
116	SANGRUR	ANDANA	JPSS-2	29.85649	76.04482	12:45:43	D	7.70
117	SANGRUR	BHAWANIGARH	JPSS-1	30.24076	76.00984	13:33:33	D	2.80
118	SANGRUR	BHAWANIGARH	JPSS-1	30.28837	76.17931	13:33:33	D	4.80
119	SANGRUR	BHAWANIGARH	JPSS-2	30.29613	76.12434	12:45:43	D	3.60
120	SANGRUR	DIRBA	S-NPP	30.11149	75.96753	13:09:22	D	2.90
121	SANGRUR	LEHRA GAGA	S-NPP	29.99466	75.88438	13:09:22	D	5.60
122	SANGRUR	SANGRUR	JPSS-1	30.18290	75.71642	13:33:33	D	4.20
123	SANGRUR	SANGRUR	S-NPP	30.24975	75.87148	13:09:22	D	5.60
124	SAS NAGAR	KHARAR	JPSS-1	30.63560	76.63727	13:33:33	D	5.40
125	TARN TARAN	BHIKHIWIND	JPSS-1	31.29202	74.64657	13:33:33	D	3.40
126	TARN TARAN	BHIKHIWIND	S-NPP	31.41501	74.62223	13:09:22	D	2.60
127	TARN TARAN	CHOHLA SAHIB	JPSS-2	31.28388	75.01302	12:45:43	D	4.00
128	TARN TARAN	CHOHLA SAHIB	JPSS-2	31.28508	75.01174	12:45:43	D	2.80
129	TARN TARAN	CHOHLA SAHIB	JPSS-1	31.36868	75.06481	13:33:33	D	2.40

130	TARN TARAN	GANDI WIND TATLA	JPSS-1	31.54372	74.81702	13:33:33	D	2.90
131	TARN TARAN	KHADUR SAHIB	S-NPP	31.42182	75.17900	13:09:22	D	11.90
132	TARN TARAN	KHADUR SAHIB	JPSS-1	31.42560	75.07937	13:33:33	D	1.70
133	TARN TARAN	KHADUR SAHIB	S-NPP	31.43178	75.14771	13:09:22	D	5.40
134	TARN TARAN	KHADUR SAHIB	S-NPP	31.43294	75.14594	13:09:22	D	4.00
135	TARN TARAN	KHADUR SAHIB	JPSS-2	31.43323	75.13516	12:45:43	D	3.30
136	TARN TARAN	KHADUR SAHIB	JPSS-1	31.43513	75.17113	13:33:33	D	3.20
137	TARN TARAN	KHADUR SAHIB	JPSS-2	31.43625	75.13516	12:45:43	D	5.80
138	TARN TARAN	KHADUR SAHIB	S-NPP	31.46349	75.05694	13:09:22	D	4.30
139	TARN TARAN	KHADUR SAHIB	JPSS-1	31.48122	75.19285	13:33:33	D	3.20
140	TARN TARAN	KHADUR SAHIB	JPSS-1	31.49535	75.12189	13:33:33	D	8.30
141	TARN TARAN	KHADUR SAHIB	JPSS-2	31.49738	75.04974	14:25:44	D	16.70
142	TARN TARAN	NAUSHERA PANNUAN	JPSS-2	31.36581	74.88104	14:25:44	D	5.10
143	TARN TARAN	NAUSHERA PANNUAN	JPSS-1	31.36996	75.00106	13:33:33	D	12.00
144	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.37152	75.00072	13:09:22	D	5.10
145	TARN TARAN	NAUSHERA PANNUAN	JPSS-1	31.37821	74.98679	13:33:33	D	1.50
146	TARN TARAN	PATTI	S-NPP	31.31344	74.90977	13:09:22	D	4.50
147	TARN TARAN	TARN TARAN	JPSS-1	31.42595	74.87261	13:33:33	D	3.90
148	TARN TARAN	TARN TARAN	S-NPP	31.43233	74.83537	13:09:22	D	3.80
149	TARN TARAN	TARN TARAN	JPSS-1	31.44175	74.91174	13:33:33	D	8.50
150	TARN TARAN	TARN TARAN	JPSS-1	31.44391	74.90287	13:33:33	D	8.40
151	TARN TARAN	TARN TARAN	JPSS-1	31.44508	74.91109	13:33:33	D	3.70
152	TARN TARAN	TARN TARAN	JPSS-1	31.45355	74.85041	13:33:33	D	1.70
153	TARN TARAN	TARN TARAN	S-NPP	31.45601	74.85294	13:09:22	D	2.00
154	TARN TARAN	TARN TARAN	JPSS-1	31.46703	74.87309	13:33:33	D	2.40
155	TARN TARAN	TARN TARAN	JPSS-1	31.48404	74.92046	13:33:33	D	4.70
156	TARN TARAN	TARN TARAN	JPSS-2	31.50015	74.97300	14:25:44	D	5.70
157	TARN TARAN	TARN TARAN	JPSS-1	31.50245	74.85780	13:33:33	D	2.20
158	TARN TARAN	TARN TARAN	JPSS-1	31.50398	74.98855	13:33:33	D	2.70
159	TARN TARAN	TARN TARAN	S-NPP	31.51200	74.80618	13:09:22	D	3.60
160	TARN TARAN	TARN TARAN	JPSS-2	31.51985	74.90796	03:10:24	N	2.10
161	TARN TARAN	TARN TARAN	JPSS-1	31.52900	74.85784	13:33:33	D	5.50
162	TARN TARAN	VALTOHA	JPSS-1	31.32118	74.56577	13:33:33	D	1.80

Details of residue burning events in Haryana on 13-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-II	S-NPP	30.21971	76.75324	13:09:22	D	2.40
2	AMBALA	AMBALA-II	S-NPP	30.22344	76.71230	13:09:22	D	3.60
3	AMBALA	BARARA	S-NPP	30.13104	77.05677	13:09:22	D	4.30
4	AMBALA	BARARA	S-NPP	30.16904	77.01060	13:09:22	D	2.40
5	AMBALA	BARARA	JPSS-1	30.19793	77.06571	13:33:33	D	2.90
6	AMBALA	BARARA	S-NPP	30.21818	76.97446	13:09:22	D	4.70
7	AMBALA	BARARA	JPSS-2	30.26590	77.13338	12:45:43	D	6.50
8	AMBALA	NARAINGARH	JPSS-1	30.35966	77.03545	13:33:33	D	2.40
9	AMBALA	NARAINGARH	JPSS-2	30.42042	77.12082	12:45:43	D	3.60
10	AMBALA	NARAINGARH	S-NPP	30.47397	77.14577	13:09:22	D	3.20
11	AMBALA	NARAINGARH	S-NPP	30.53029	77.11957	13:09:22	D	5.10
12	AMBALA	SAHA	S-NPP	30.25656	76.89330	13:09:22	D	11.00
13	AMBALA	SHAHZADPUR	JPSS-1	30.54260	77.05821	13:33:33	D	5.40
14	FARIDABAD	BALLABGARH	JPSS-1	28.30932	77.47224	13:33:33	D	3.60
15	FARIDABAD	FARIDABAD	JPSS-1	28.43012	77.40395	13:33:33	D	1.40
16	FATEHABAD	RATIA	JPSS-1	29.66889	75.64744	13:33:33	D	1.80
17	FATEHABAD	TOHANA	JPSS-2	29.68629	75.89160	12:45:43	D	3.10
18	HISAR	AGROHA	JPSS-1	29.41082	75.64764	13:33:33	D	5.70
19	HISAR	BARWALA	JPSS-1	29.35538	75.97573	13:33:33	D	2.50
20	HISAR	BARWALA	S-NPP	29.35621	75.97411	13:09:22	D	3.40
21	JIND	ALEWA	JPSS-1	29.57159	76.35350	13:33:33	D	4.90
22	JIND	NARWANA	JPSS-1	29.51315	75.97415	13:33:33	D	11.60
23	JIND	NARWANA	JPSS-2	29.57661	76.05832	12:45:43	D	2.90
24	JIND	NARWANA	JPSS-2	29.73740	76.05650	12:45:43	D	4.90
25	JIND	NARWANA	S-NPP	29.74104	76.11309	13:09:22	D	3.60
26	JIND	NARWANA	S-NPP	29.74476	76.11217	13:09:22	D	3.60
27	JIND	NARWANA	JPSS-1	29.75875	76.18750	13:33:33	D	2.90
28	JIND	UCHANA	JPSS-1	29.46205	76.13966	13:33:33	D	7.50
29	KAITHAL	GUHLA	JPSS-1	30.00915	76.36246	13:33:33	D	1.70
30	KAITHAL	GUHLA	S-NPP	30.03583	76.28842	13:09:22	D	1.80

31	KAITHAL	GUHLA	JPSS-1	30.04852	76.36867	13:33:33	D	2.00
32	KAITHAL	GUHLA	JPSS-2	30.05261	76.31124	12:45:43	D	2.00
33	KAITHAL	GUHLA	JPSS-2	30.05461	76.27026	12:45:43	D	2.80
34	KAITHAL	GUHLA	JPSS-1	30.06367	76.24786	13:33:33	D	7.70
35	KAITHAL	GUHLA	S-NPP	30.06423	76.25511	13:09:22	D	3.00
36	KAITHAL	GUHLA	JPSS-1	30.06425	76.25211	13:33:33	D	7.70
37	KAITHAL	KAITHAL	JPSS-1	29.83391	76.38251	13:33:33	D	2.70
38	KAITHAL	KAITHAL	JPSS-1	29.84542	76.46814	13:33:33	D	1.10
39	KAITHAL	KAITHAL	JPSS-1	29.85379	76.34843	13:33:33	D	3.60
40	KAITHAL	KAITHAL	JPSS-1	29.95635	76.46280	13:33:33	D	5.10
41	KAITHAL	RAJOUND	JPSS-1	29.53391	76.41104	13:33:33	D	2.30
42	KAITHAL	RAJOUND	JPSS-1	29.55202	76.36449	13:33:33	D	3.00
43	KAITHAL	SIWAN	JPSS-2	29.93491	76.21083	12:45:43	D	2.10
44	KAITHAL	SIWAN	S-NPP	29.96682	76.40228	13:09:22	D	13.10
45	KAITHAL	SIWAN	JPSS-1	29.96940	76.40330	13:33:33	D	5.90
46	KARNAL	GHARAUNDA	S-NPP	29.53732	77.07509	13:09:22	D	19.20
47	KARNAL	INDRI	S-NPP	29.90578	77.14059	13:09:22	D	3.30
48	KARNAL	KARNAL	S-NPP	29.64177	76.96835	13:09:22	D	4.80
49	KURUKSHETRA	BABAIN	JPSS-1	30.07895	76.95082	13:33:33	D	2.80
50	KURUKSHETRA	BABAIN	S-NPP	30.12500	77.04360	13:09:22	D	5.10
51	KURUKSHETRA	LADWA	S-NPP	30.02311	76.97806	13:09:22	D	12.20
52	KURUKSHETRA	PEHOWA	JPSS-1	29.91966	76.61098	13:33:33	D	3.80
53	KURUKSHETRA	PEHOWA	S-NPP	29.98950	76.72746	13:09:22	D	2.40
54	KURUKSHETRA	PEHOWA	JPSS-2	29.98954	76.71968	12:45:43	D	5.60
55	KURUKSHETRA	SHAHBAD	JPSS-1	30.09652	76.81097	13:33:33	D	3.60
56	KURUKSHETRA	SHAHBAD	S-NPP	30.13346	76.87655	13:09:22	D	3.00
57	KURUKSHETRA	THANESAR	JPSS-2	29.88925	76.87715	12:45:43	D	4.50
58	KURUKSHETRA	THANESAR	JPSS-2	29.90945	76.75860	12:45:43	D	2.70
59	KURUKSHETRA	THANESAR	JPSS-1	29.94668	76.82948	13:33:33	D	4.80
60	KURUKSHETRA	THANESAR	JPSS-1	29.98817	76.72879	13:33:33	D	3.80
61	KURUKSHETRA	THANESAR	JPSS-2	30.02374	76.86523	12:45:43	D	1.90
62	KURUKSHETRA	THANESAR	JPSS-2	30.05875	76.92340	14:25:44	D	9.40
63	PALWAL	HODAL	JPSS-1	27.89343	77.45979	13:33:33	D	3.60
64	PANCHKULA	BARWALA	JPSS-1	30.62444	76.96608	13:33:33	D	2.20

65	PANCHKULA	RAIPUR RANI	JPSS-1	30.50990	76.97040	13:33:33	D	5.90
66	PANCHKULA	RAIPUR RANI	S-NPP	30.52506	76.94642	13:09:22	D	2.70
67	PANCHKULA	RAIPUR RANI	JPSS-2	30.53630	76.98589	12:45:43	D	3.20
68	PANCHKULA	RAIPUR RANI	JPSS-2	30.54800	77.03014	12:45:43	D	7.10
69	PANIPAT	BAPPAULI	JPSS-2	29.23469	77.09785	12:45:43	D	2.40
70	PANIPAT	BAPPAULI	JPSS-2	29.23638	77.09948	12:45:43	D	3.10
71	PANIPAT	BAPPAULI	JPSS-1	29.26264	77.10246	13:33:33	D	2.30
72	PANIPAT	ISRANA	JPSS-1	29.25175	76.93777	13:33:33	D	4.70
73	PANIPAT	ISRANA	JPSS-1	29.29694	76.83666	13:33:33	D	2.80
74	PANIPAT	PANIPAT	S-NPP	29.45037	76.95039	13:09:22	D	2.20
75	PANIPAT	SAMALKHA	JPSS-1	29.17407	77.08877	13:33:33	D	1.20
76	PANIPAT	SAMALKHA	S-NPP	29.24385	77.11814	13:09:22	D	3.40
77	SIRSA	BARAGUNDA	JPSS-1	29.63586	75.11119	13:33:33	D	1.90
78	SIRSA	RANIA	JPSS-2	29.50280	74.82456	12:45:43	D	3.00
79	SIRSA	RANIA	S-NPP	29.61923	74.66956	13:09:22	D	2.20
80	SIRSA	SIRSA	JPSS-1	29.43956	74.92751	13:33:33	D	2.60
81	SONIPAT	GANAUR	JPSS-1	29.14499	77.11174	13:33:33	D	3.20
82	SONIPAT	GANAUR	JPSS-1	29.14672	77.12502	13:33:33	D	3.60
83	SONIPAT	MUNDLANA	JPSS-2	29.21201	76.75212	12:45:43	D	3.20
84	SONIPAT	MURTHAL	JPSS-1	29.08044	77.08999	13:33:33	D	3.80
85	SONIPAT	MURTHAL	S-NPP	29.08133	77.09033	13:09:22	D	4.20
86	SONIPAT	SONIPAT	JPSS-1	28.98170	76.89561	13:33:33	D	3.30
87	SONIPAT	SONIPAT	JPSS-1	29.07570	76.92082	13:33:33	D	3.20
88	SONIPAT	SONIPAT	JPSS-1	29.09099	76.88810	13:33:33	D	2.00
89	YAMUNANAGAR	MUSTAFABAD	JPSS-1	30.18546	77.22062	13:33:33	D	2.30
90	YAMUNANAGAR	RADAUR	JPSS-2	30.10692	77.08719	12:45:43	D	1.80

Details of residue burning events in Uttar Pradesh on 13-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ALIGARH	KHAIR	S-NPP	28.07301	77.62437	13:09:22	D	2.40
2	ALIGARH	KHAIR	JPSS-1	28.07349	77.62619	13:33:33	D	1.30
3	ALIGARH	KHAIR	JPSS-2	28.08298	77.80052	12:45:43	D	3.20
4	AMROHA	HASANPUR	JPSS-1	28.67714	78.33176	13:33:33	D	2.50
5	BADAUN	BISAU LI	S-NPP	28.37616	78.84924	13:09:22	D	3.10
6	BADAUN	BISAU LI	S-NPP	28.39902	78.98635	13:09:22	D	3.50
7	BAHRAICH	NANPARA	JPSS-2	27.76909	81.51115	12:45:43	D	3.10
8	BARABANKI	FATEHPUR	JPSS-1	27.10434	81.25176	13:33:33	D	4.50
9	BARABANKI	FATEHPUR	S-NPP	27.10908	81.23479	13:09:22	D	3.90
10	BARABANKI	FATEHPUR	S-NPP	27.11415	81.24575	13:09:22	D	1.80
11	BARABANKI	FATEHPUR	S-NPP	27.13245	81.25418	13:09:22	D	4.10
12	BARABANKI	FATEHPUR	S-NPP	27.17274	81.16380	13:09:22	D	2.90
13	BARABANKI	FATEHPUR	JPSS-2	27.17951	81.25378	12:45:43	D	3.70
14	BARABANKI	FATEHPUR	JPSS-2	27.19194	81.27261	12:45:43	D	2.60
15	BARABANKI	FATEHPUR	S-NPP	27.19210	81.22369	13:09:22	D	2.10
16	BARABANKI	FATEHPUR	S-NPP	27.19269	81.22756	13:09:22	D	4.50
17	BARABANKI	FATEHPUR	S-NPP	27.19375	81.16772	13:09:22	D	1.90
18	BARABANKI	FATEHPUR	S-NPP	27.20273	81.18192	13:09:22	D	6.60
19	BARABANKI	FATEHPUR	JPSS-1	27.22979	81.18323	13:33:33	D	4.00
20	BARABANKI	FATEHPUR	JPSS-1	27.23008	81.30307	13:33:33	D	4.70
21	BARABANKI	FATEHPUR	JPSS-1	27.23022	81.18678	13:33:33	D	3.20
22	BARABANKI	FATEHPUR	S-NPP	27.23036	81.18459	13:09:22	D	5.70
23	BARABANKI	FATEHPUR	JPSS-2	27.26707	81.12221	12:45:43	D	4.30
24	BARABANKI	FATEHPUR	S-NPP	27.26817	81.12562	13:09:22	D	5.30
25	BARABANKI	FATEHPUR	JPSS-2	27.32131	81.24095	12:45:43	D	3.00
26	BARABANKI	NAWABGANJ	S-NPP	27.07729	81.09389	13:09:22	D	2.30
27	BAREILLY	AONLA	S-NPP	28.28706	79.09422	13:09:22	D	1.90
28	BAREILLY	FARIDPUR	S-NPP	28.32099	79.59553	13:09:22	D	2.50
29	BIJNOR	CHANDPUR	S-NPP	29.05782	78.37870	13:09:22	D	4.30
30	BIJNOR	CHANDPUR	S-NPP	29.05855	78.38298	13:09:22	D	4.30
31	HAPUR	HAPUR	JPSS-2	28.62172	77.74726	12:45:43	D	3.60

32	KHERI	GOLA	S-NPP	27.98943	80.48581	13:09:22	D	1.60
33	MATHURA	CHHATA	JPSS-1	27.92716	77.49914	13:33:33	D	5.00
34	MATHURA	MAT	JPSS-1	27.91075	77.53790	13:33:33	D	3.30
35	MATHURA	MATHURA	JPSS-1	27.54296	77.48683	13:33:33	D	8.10
36	MORADABAD	BILARI	S-NPP	28.55089	78.70025	13:09:22	D	2.70
37	MORADABAD	BILARI	S-NPP	28.63633	78.75197	13:09:22	D	2.10
38	MORADABAD	BILARI	JPSS-1	28.65647	78.67168	13:33:33	D	2.80
39	MORADABAD	MORADABAD	JPSS-2	28.89451	78.86072	01:10:42	N	1.00
40	MUZAFARNAGAR	MUZAFFARNAGAR	JPSS-1	29.45816	77.79087	13:33:33	D	2.70
41	PILHIBHIT	BISALPUR	S-NPP	28.22549	79.96474	13:09:22	D	9.60
42	PILHIBHIT	BISALPUR	S-NPP	28.22755	79.95613	13:09:22	D	3.60
43	PILHIBHIT	BISALPUR	JPSS-2	28.22955	79.94938	12:45:43	D	4.00
44	PILHIBHIT	PILHIBHIT	S-NPP	28.76034	79.68002	01:59:22	N	0.60
45	PILHIBHIT	PURANPUR	JPSS-1	28.59932	80.01569	02:10:33	N	1.30
46	PILHIBHIT	PURANPUR	S-NPP	28.64408	80.04045	13:09:22	D	1.70
47	RAMPUR	MILAK	S-NPP	28.65998	79.18735	13:09:22	D	2.80
48	RAMPUR	SHAHBAD	S-NPP	28.61454	78.95441	13:09:22	D	5.10
49	SAMBHAL	CHANDAUSI	S-NPP	28.42415	78.78333	13:09:22	D	2.50
50	SAMBHAL	CHANDAUSI	S-NPP	28.45105	78.71228	13:09:22	D	3.10
51	SAMBHAL	CHANDAUSI	JPSS-1	28.46814	78.75952	13:33:33	D	1.60
52	SAMBHAL	SAMBHAL	S-NPP	28.54078	78.61942	13:09:22	D	7.10
53	SAMBHAL	SAMBHAL	S-NPP	28.55375	78.61221	13:09:22	D	3.10
54	SAMBHAL	SAMBHAL	S-NPP	28.62248	78.46138	13:09:22	D	2.60
55	SAMBHAL	SAMBHAL	S-NPP	28.62304	78.61098	13:09:22	D	3.00
56	SAMBHAL	SAMBHAL	S-NPP	28.63316	78.50325	13:09:22	D	2.90
57	SAMBHAL	SAMBHAL	JPSS-1	28.64344	78.56625	13:33:33	D	2.40
58	SAMBHAL	SAMBHAL	S-NPP	28.64998	78.64452	13:09:22	D	2.80
59	SAMBHAL	SAMBHAL	JPSS-1	28.65189	78.55696	13:33:33	D	4.40
60	SAMBHAL	SAMBHAL	S-NPP	28.65279	78.55622	13:09:22	D	1.90
61	SAMBHAL	SAMBHAL	JPSS-1	28.65678	78.56638	13:33:33	D	6.70
62	SAMBHAL	SAMBHAL	JPSS-2	28.66006	78.53063	12:45:43	D	5.80
63	SAMBHAL	SAMBHAL	JPSS-1	28.68280	78.53185	13:33:33	D	6.30
64	SHAHJAHANPUR	PUWANYA	S-NPP	27.98520	80.01228	01:59:22	N	0.30
65	SHAHJAHANPUR	PUWANYA	JPSS-2	28.22210	80.26547	12:45:43	D	2.80

66	SHAHJAHANPUR	PUWANYA	S-NPP	28.30816	80.08718	01:59:22	N	1.10
67	SITAPUR	MAHMUDABAD	JPSS-1	27.23960	81.19525	13:33:33	D	7.00
68	SITAPUR	MAHMUDABAD	JPSS-1	27.23964	81.19443	13:33:33	D	6.40
69	SITAPUR	MAHMUDABAD	JPSS-1	27.24337	81.19032	13:33:33	D	8.90
70	SITAPUR	MAHMUDABAD	JPSS-1	27.24714	81.18539	13:33:33	D	5.80
71	SITAPUR	MAHMUDABAD	S-NPP	27.24747	81.18528	13:09:22	D	7.40
72	SITAPUR	MAHMUDABAD	JPSS-1	27.24760	81.18976	13:33:33	D	5.80
73	SITAPUR	MAHMUDABAD	S-NPP	27.25390	81.18801	13:09:22	D	5.00
74	SITAPUR	MAHMUDABAD	JPSS-2	27.26917	81.17484	12:45:43	D	3.60
75	SITAPUR	MAHMUDABAD	S-NPP	27.27409	81.16427	13:09:22	D	11.80
76	SITAPUR	SITAPUR	S-NPP	27.64520	80.65002	13:09:22	D	3.00

Details of residue burning events in Rajasthan on 13-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	GANGANAGAR	GANGANAGAR	JPSS-1	29.83316	73.64088	13:33:33	D	1.50
2	GANGANAGAR	GANGANAGAR	JPSS-1	29.95843	73.83521	13:33:33	D	3.10
3	GANGANAGAR	KARANPUR	S-NPP	29.82892	73.47548	13:09:22	D	2.40
4	HANUMANGARH	HANUMANGARH	JPSS-1	29.30131	74.47579	13:33:33	D	3.30
5	HANUMANGARH	HANUMANGARH	JPSS-1	29.36007	74.41576	13:33:33	D	4.70
6	HANUMANGARH	PILIBANGA	JPSS-2	29.45064	73.96747	14:25:44	D	4.70
7	HANUMANGARH	PILIBANGA	JPSS-2	29.45227	73.96702	14:25:44	D	4.50
8	HANUMANGARH	TIBI	JPSS-1	29.56196	74.53845	13:33:33	D	6.10
9	HANUMANGARH	TIBI	JPSS-1	29.63646	74.49171	13:33:33	D	3.10
10	HANUMANGARH	TIBI	JPSS-1	29.67847	74.56881	13:33:33	D	2.70

Details of residue burning events in Madhya Pradesh on 13-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BETUL	BHAINSDEHI	JPSS-1	21.54282	77.81993	13:33:33	D	4.40
2	DAMOH	DAMOH	S-NPP	23.96360	79.51056	13:09:22	D	2.50
3	JABALPUR	PATAN	S-NPP	23.38127	79.81523	13:09:22	D	2.00
4	NARSHIMAPURA	GOTECAON	S-NPP	23.09602	79.37447	13:09:22	D	5.30
5	SAGAR	REHLI	JPSS-2	23.65743	79.01015	12:45:43	D	2.50

Details of residue burning events in Delhi on 13-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	NORTH	ALIPUR	JPSS-2	28.83419	77.14349	01:10:42	N	2.5

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

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375	Both
2.	JPSS-1 (NOAA -20)	VIIRS	375	Both
3.	JPSS-2 (NOAA-21)	VIIRS	375	Both
4.	Aqua	MODIS	1000	Both

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

Study Team

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GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>
(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)

The DASHBOARD for paddy residue burning events is available at weblink: [CREAMS Fire Dashboard](#)
