

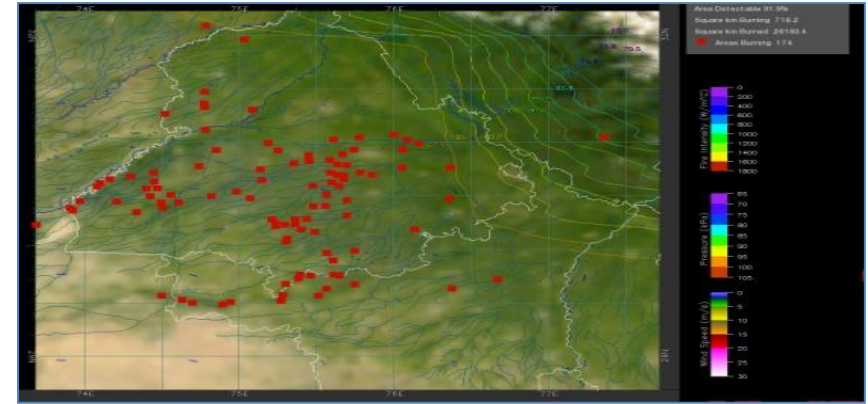
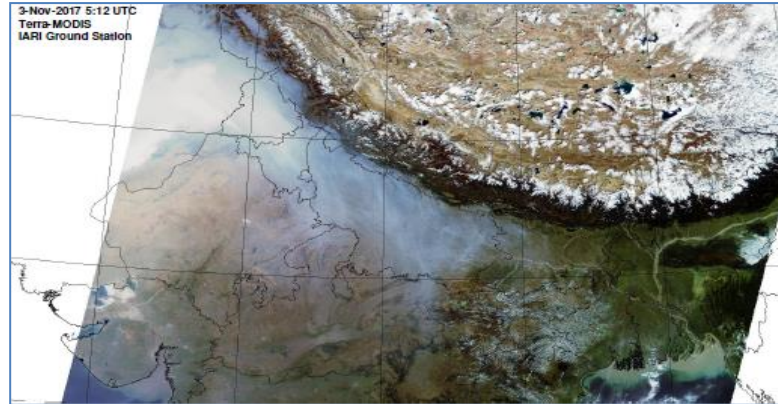


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin
No. 28

Events Date:
12-Oct-2024

Issued on:
12-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

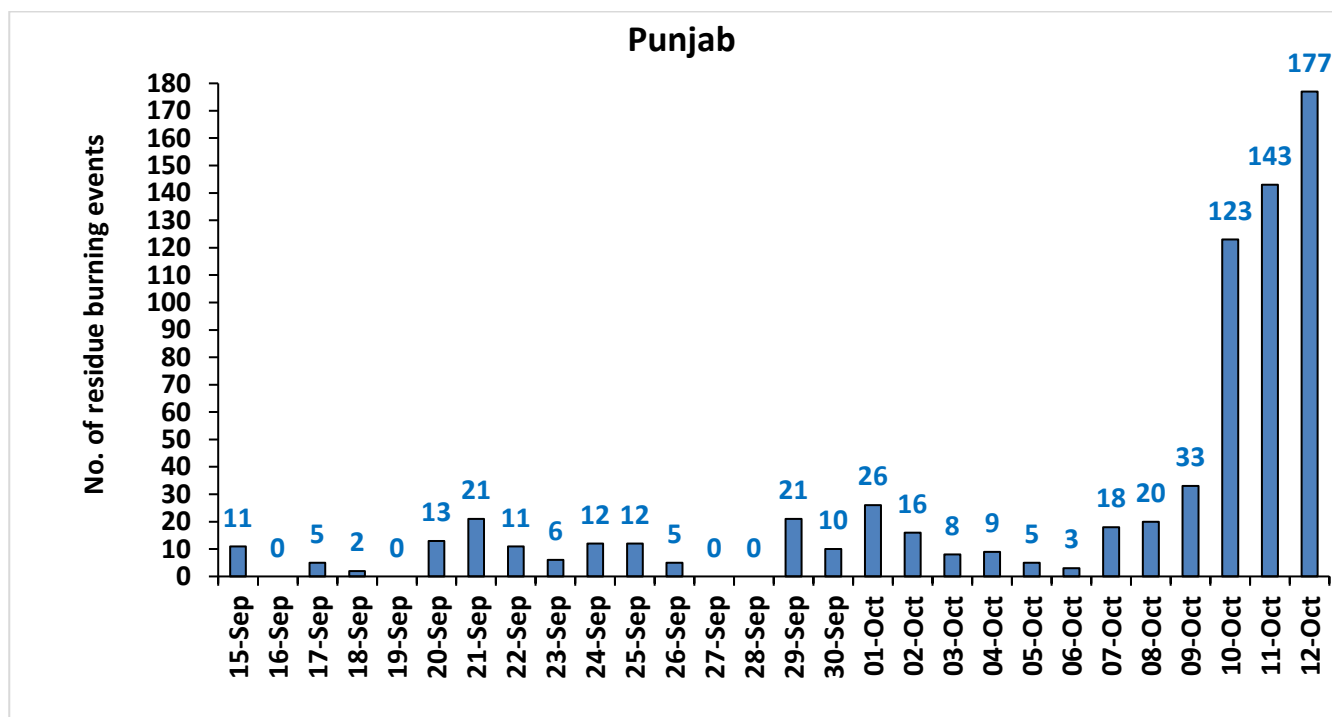
<https://creams.iari.res.in>



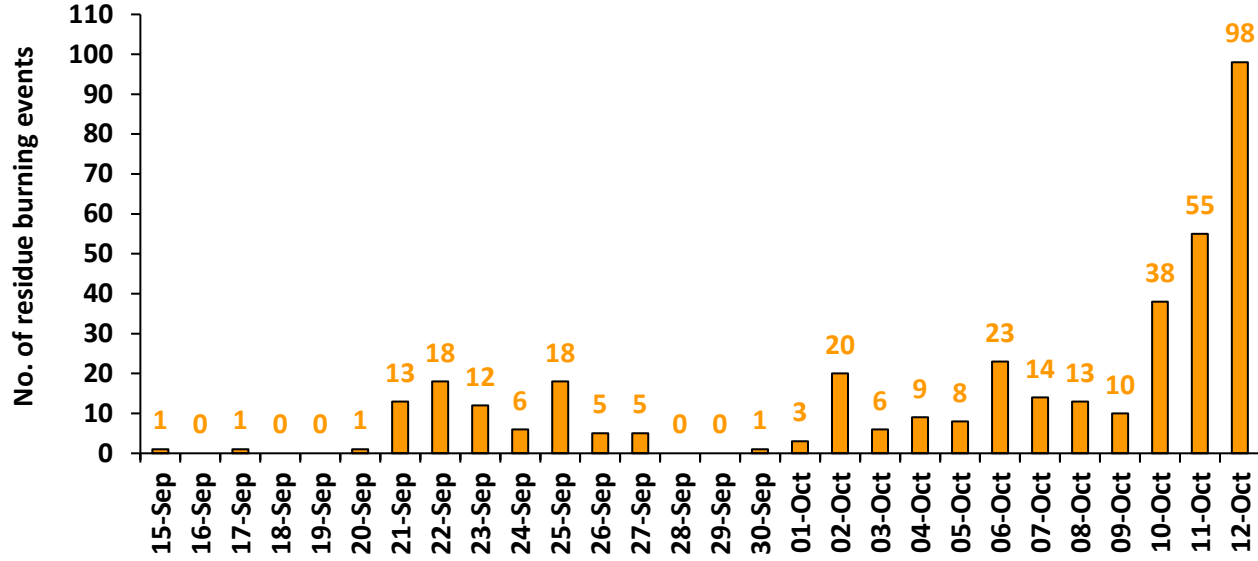
Highlights for 12-Oct-2024

- 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 **397** residue burning events in the six study States on **12-Oct-2024**.
- The state wise events detected on **12-Oct-2024** were **177** in Punjab, **98** in Haryana, **102** in UP, **02** in Delhi, **13** in Rajasthan and **05** in MP.
- Total **1531** burning events were detected in the six states between **15-Sept-2024** and **12-Oct-2024**, which are distributed as **710**, **378**, **322**, **05**, **40** and **76** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Detection of burning events was hampered by the presence of scattered clouds over parts of Uttar Pradesh, Rajasthan and Madhya Pradesh states.

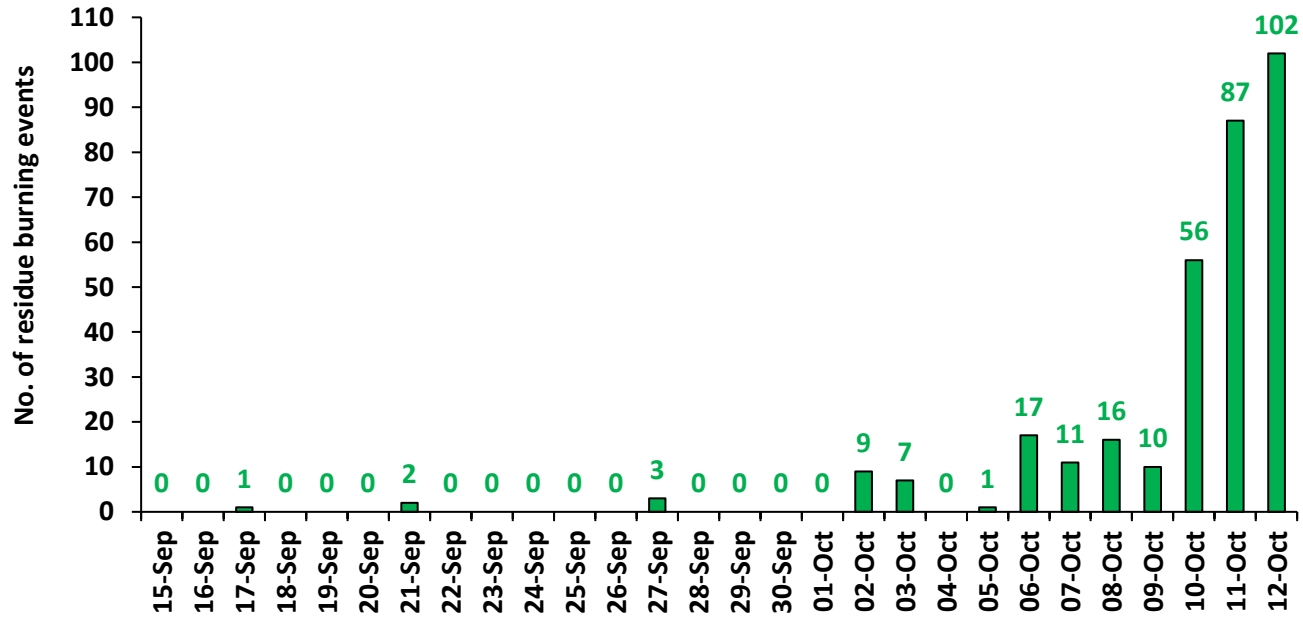
Temporal distribution of rice residue burning events for the study States in 2024



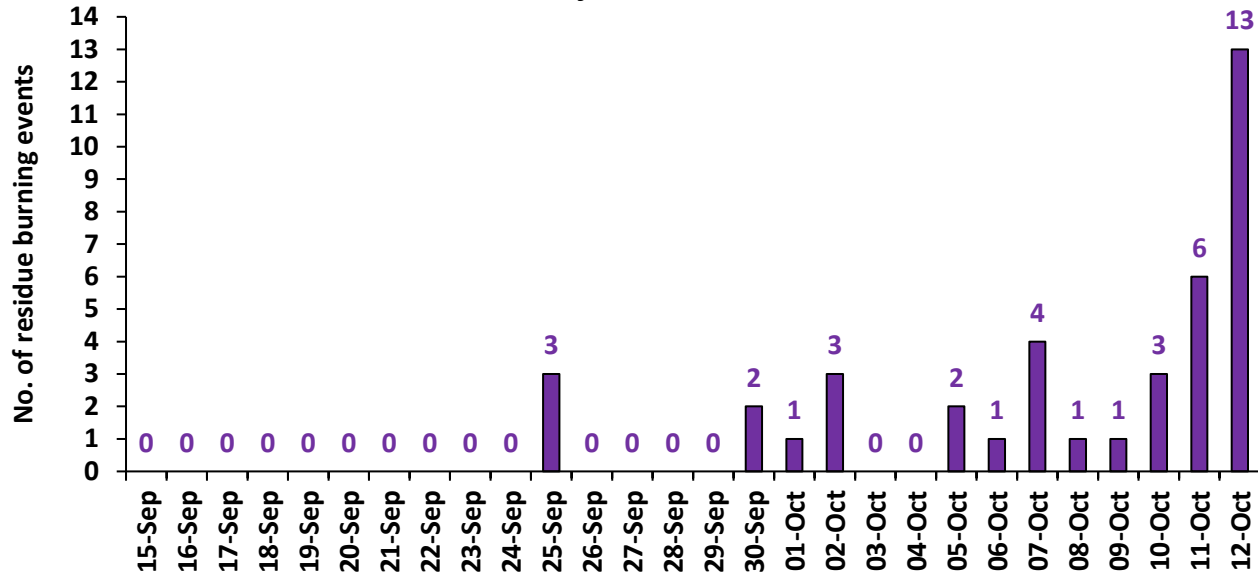
Haryana



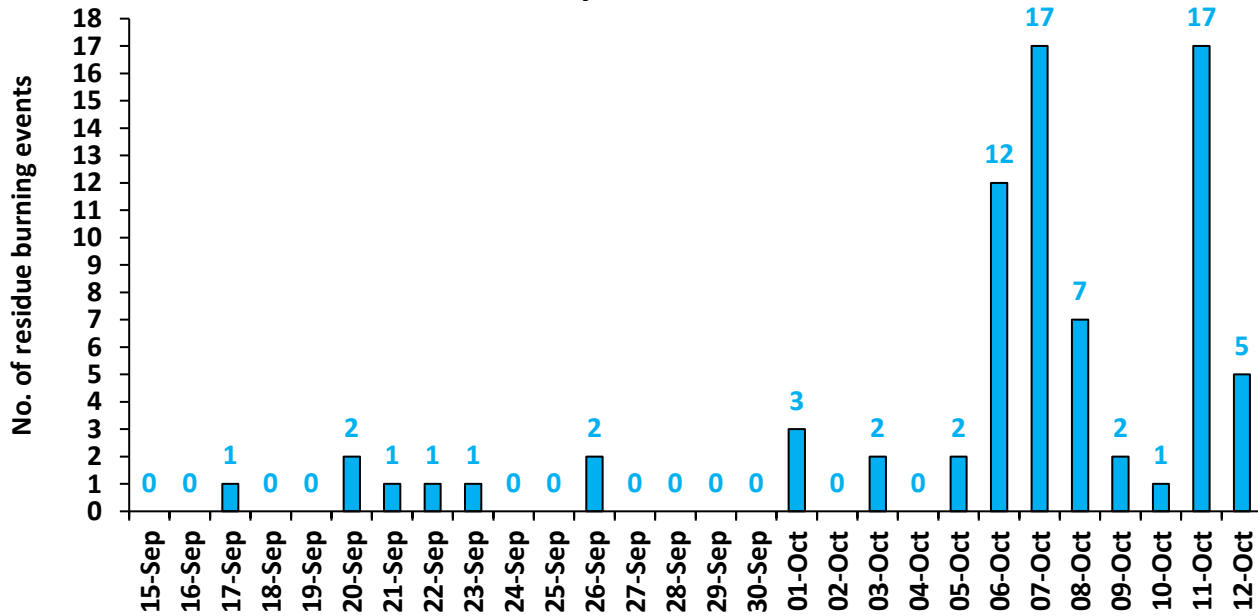
Uttar Pradesh

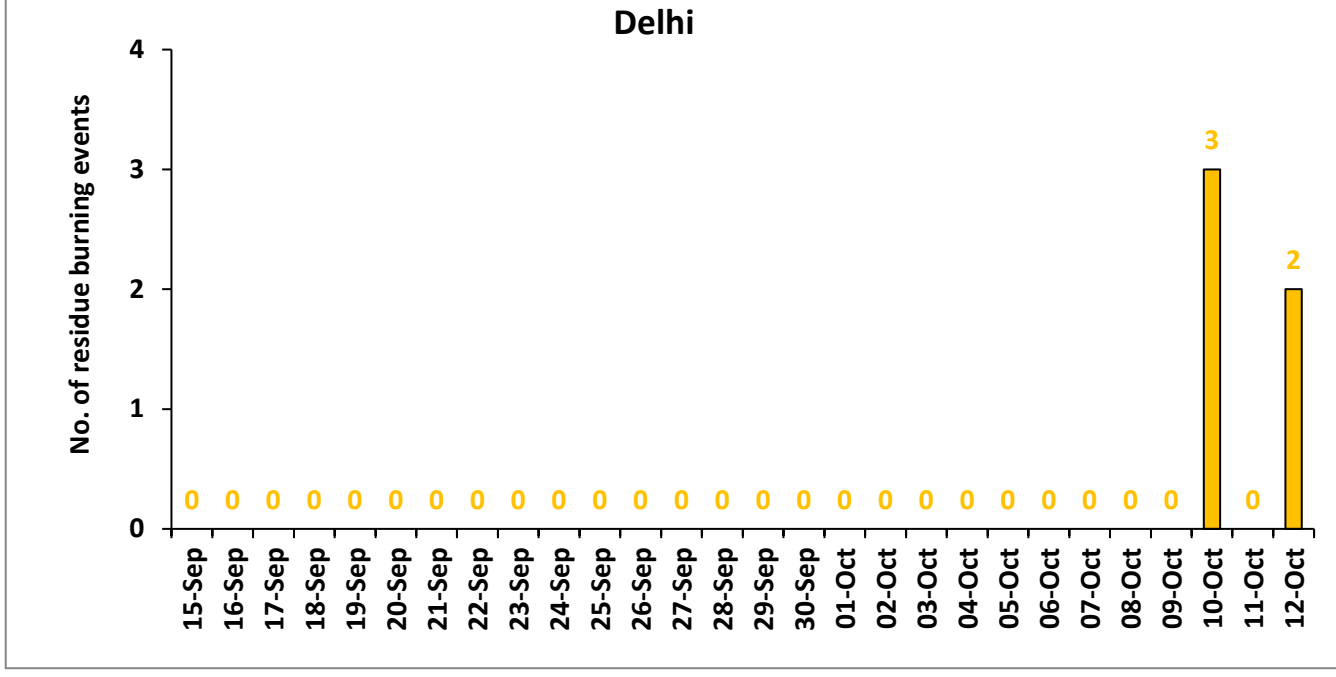


Rajasthan

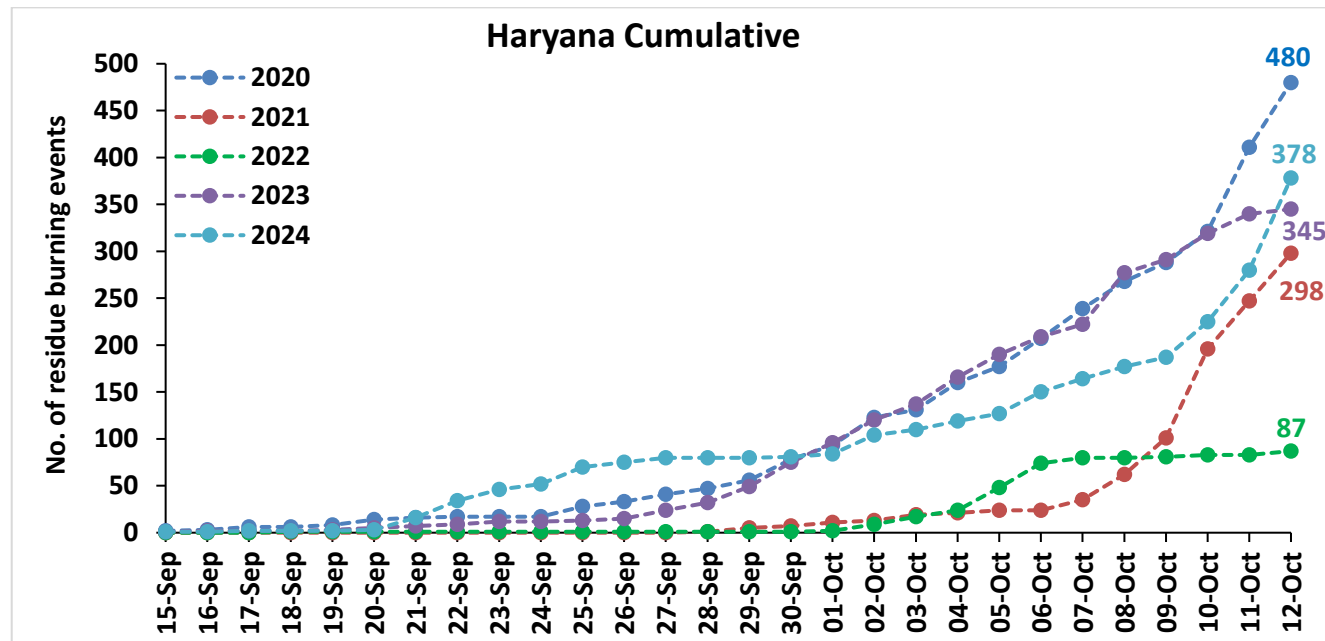
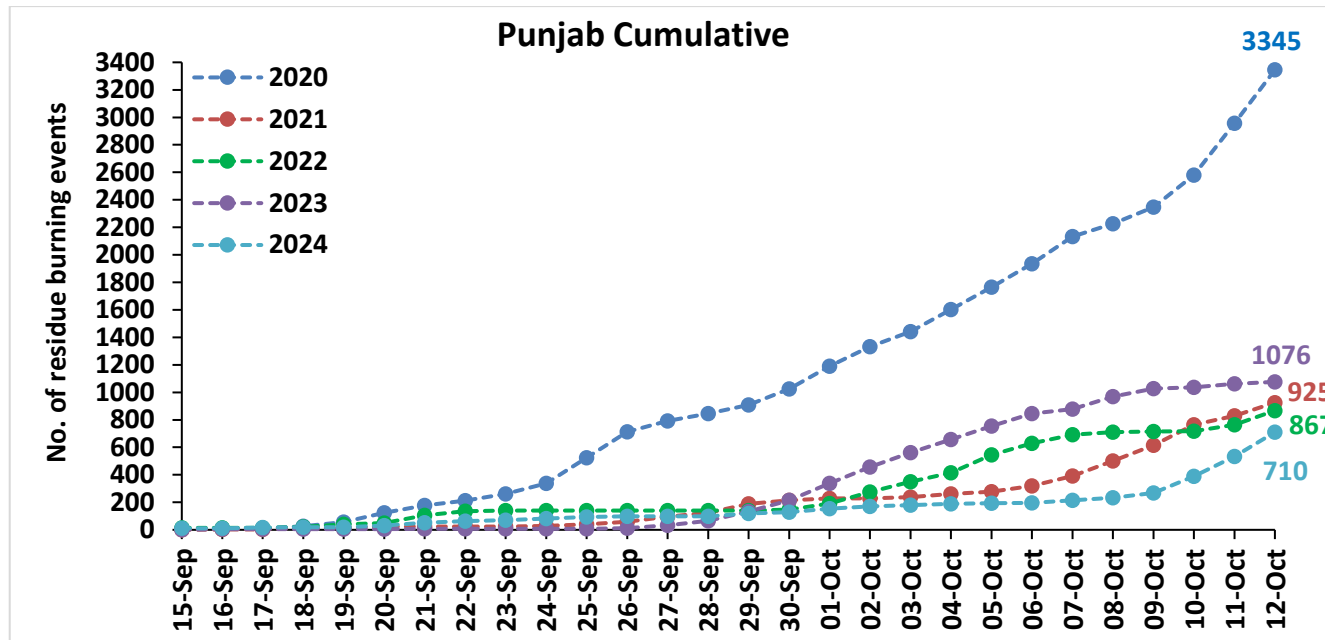


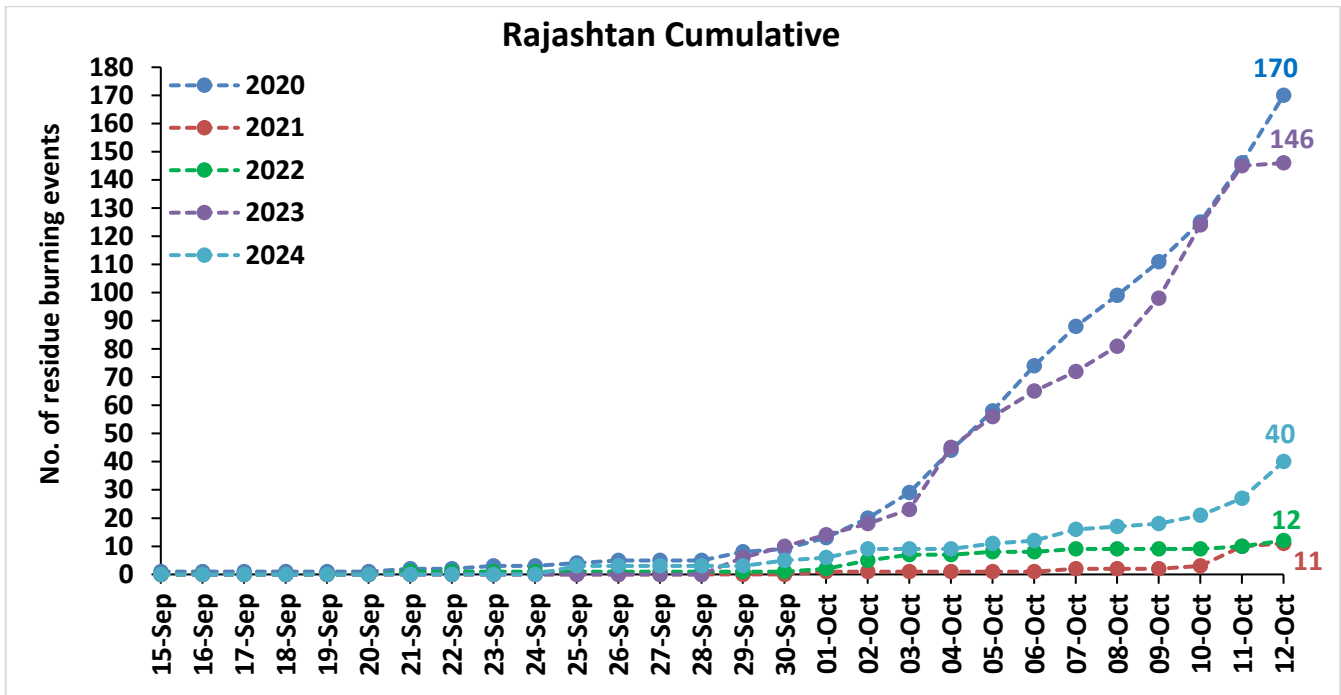
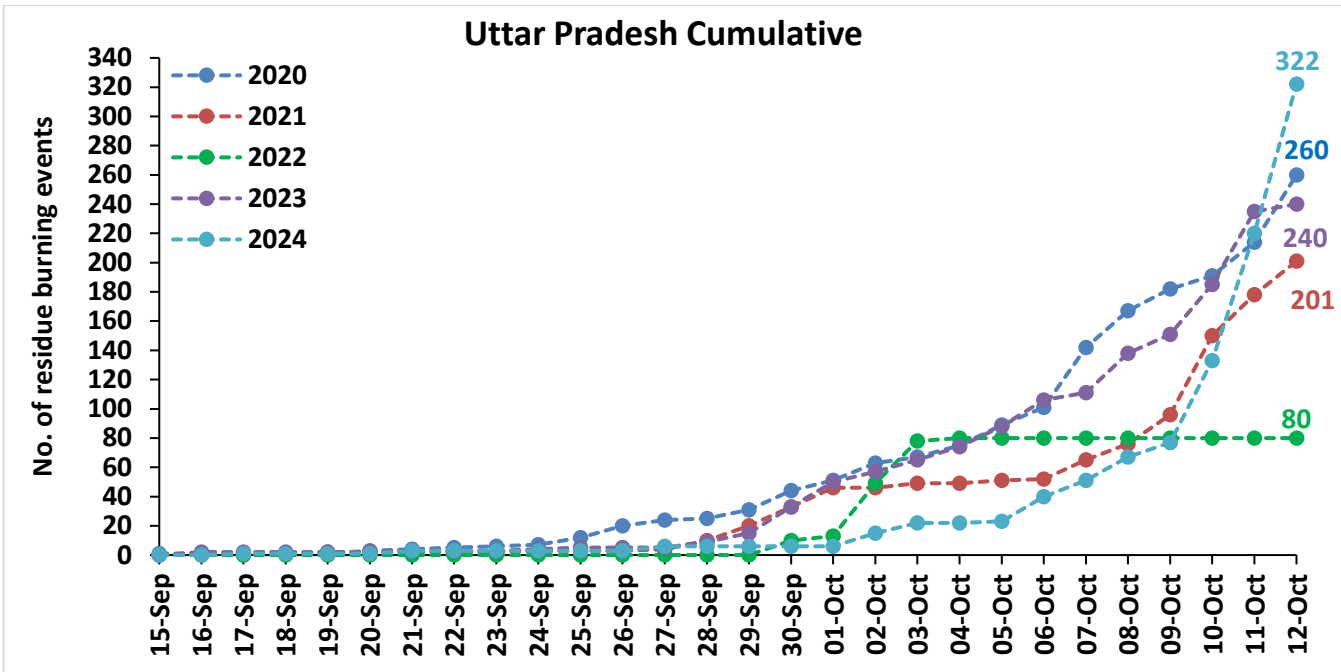
Madhya Pradesh



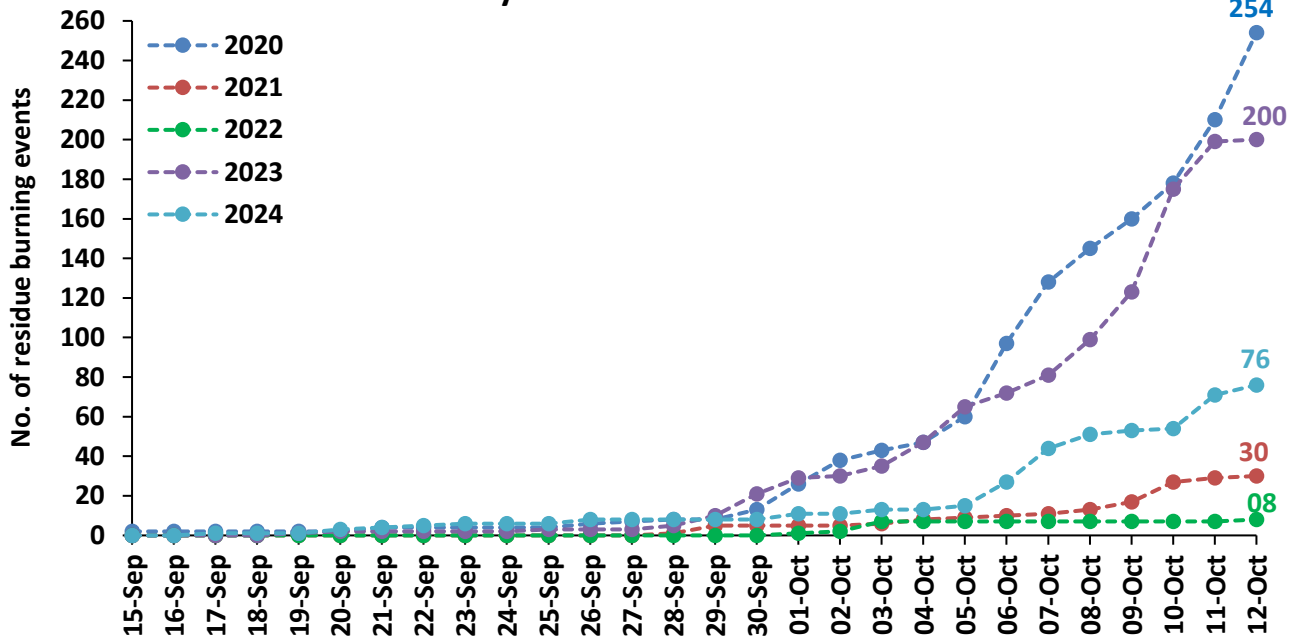


Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States

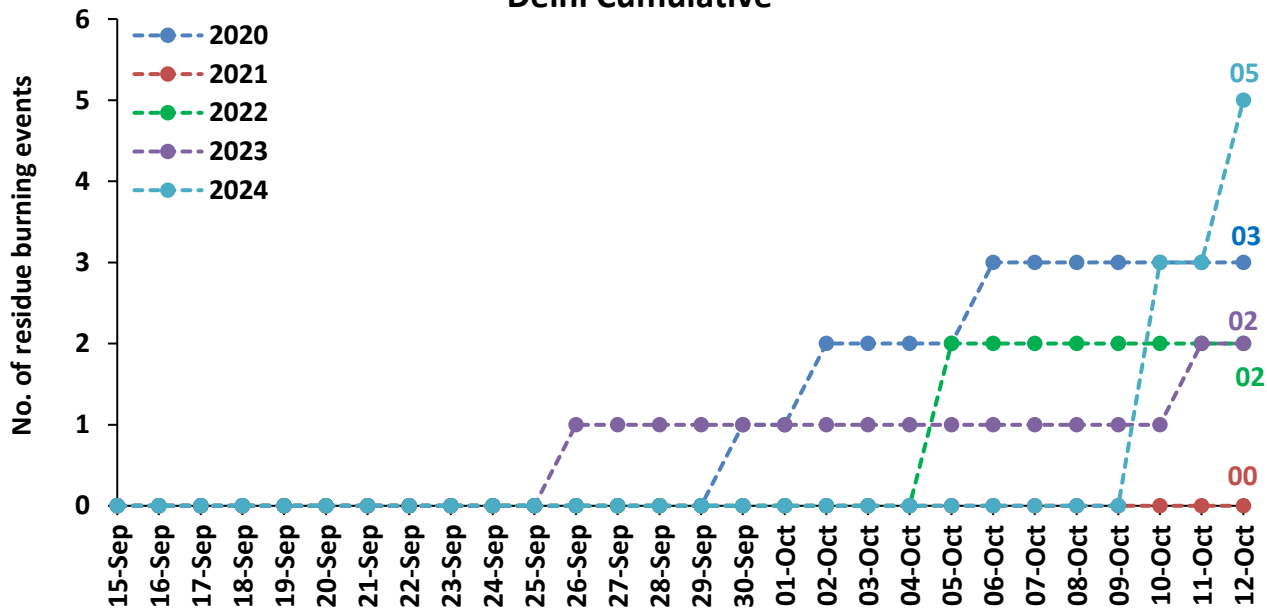




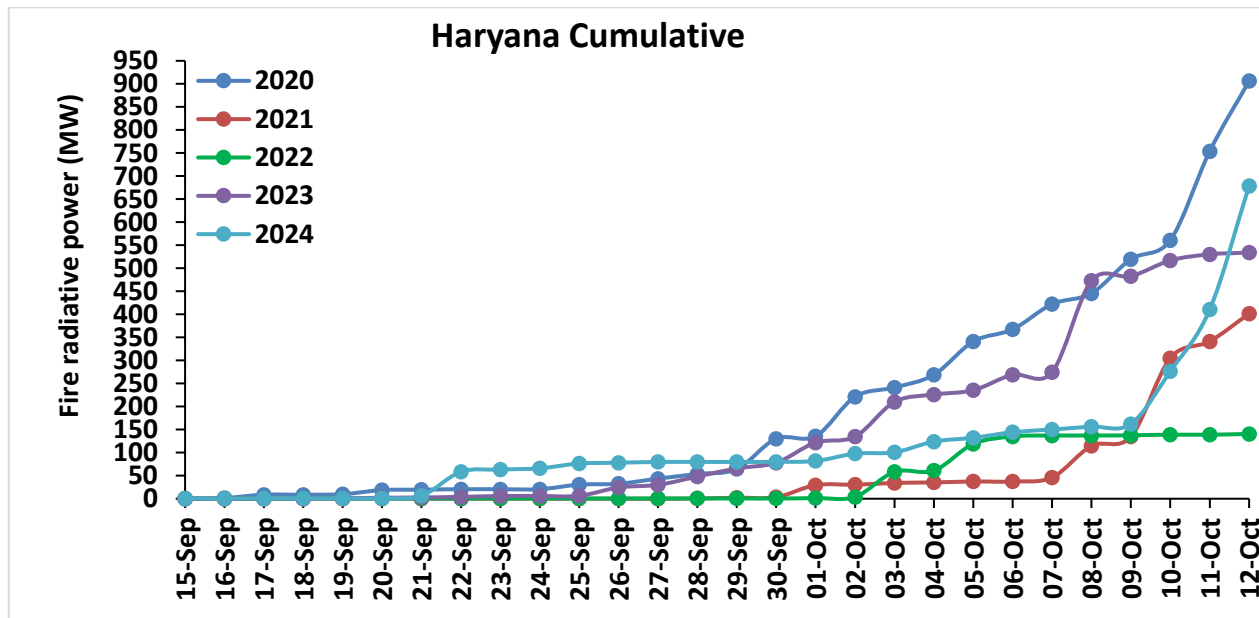
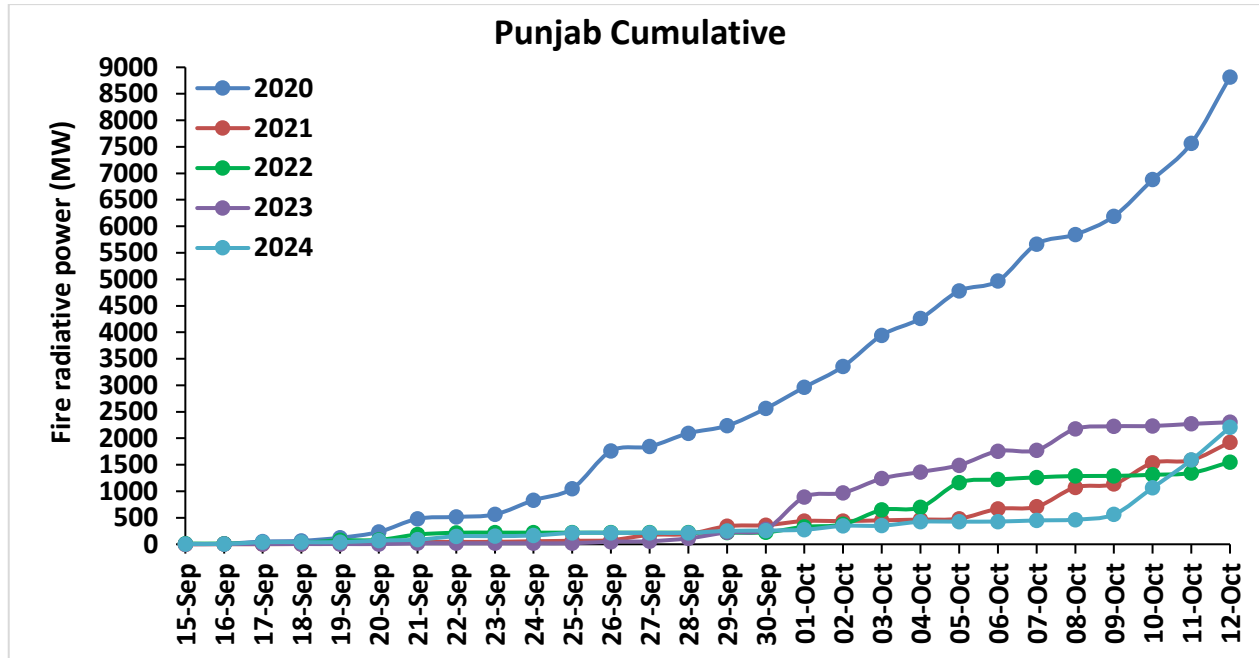
Madhya Pradesh Cumulative

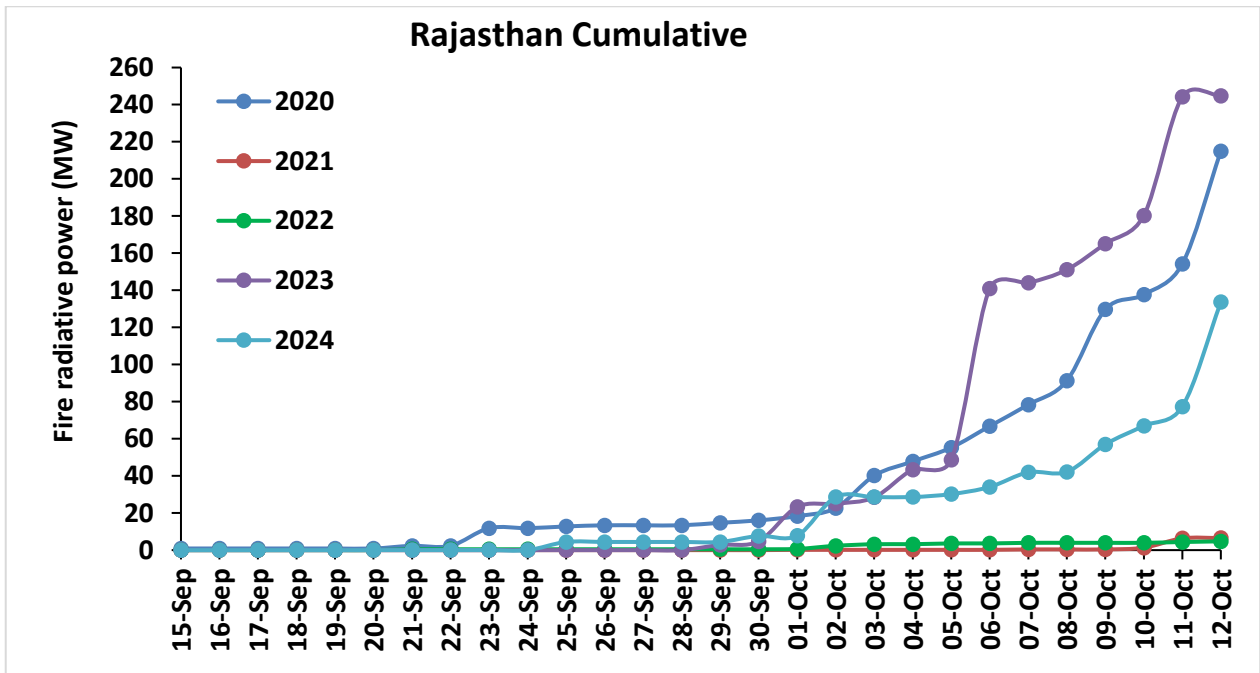
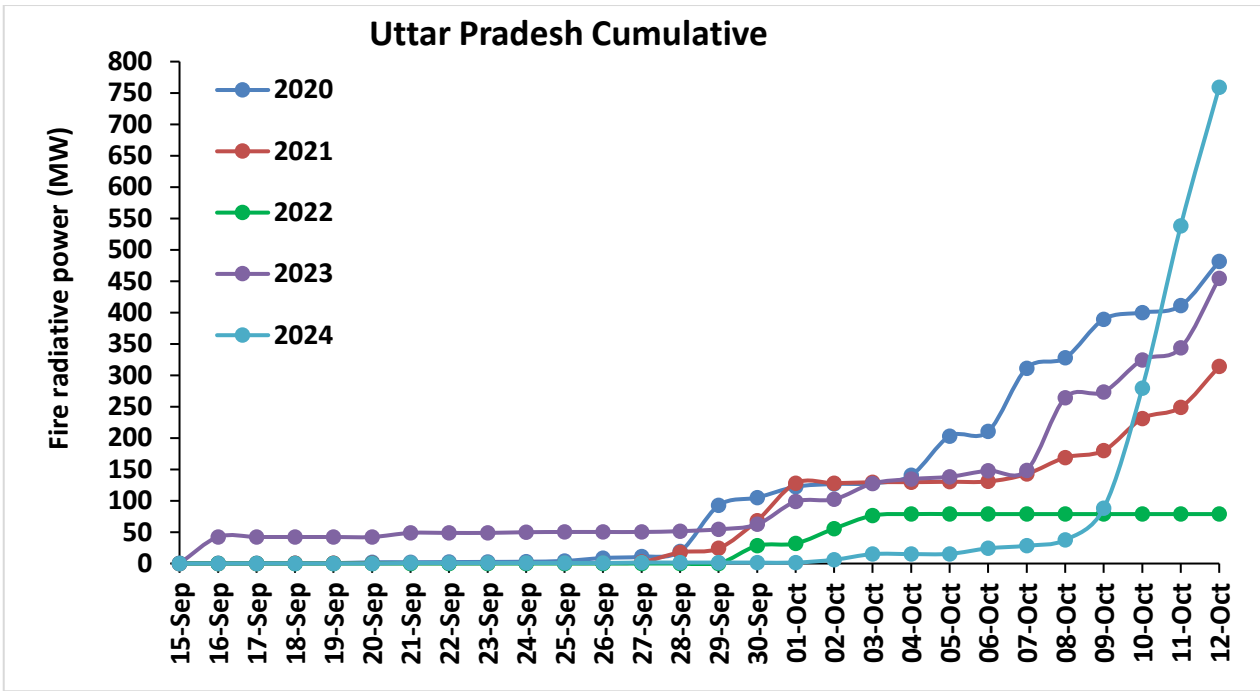


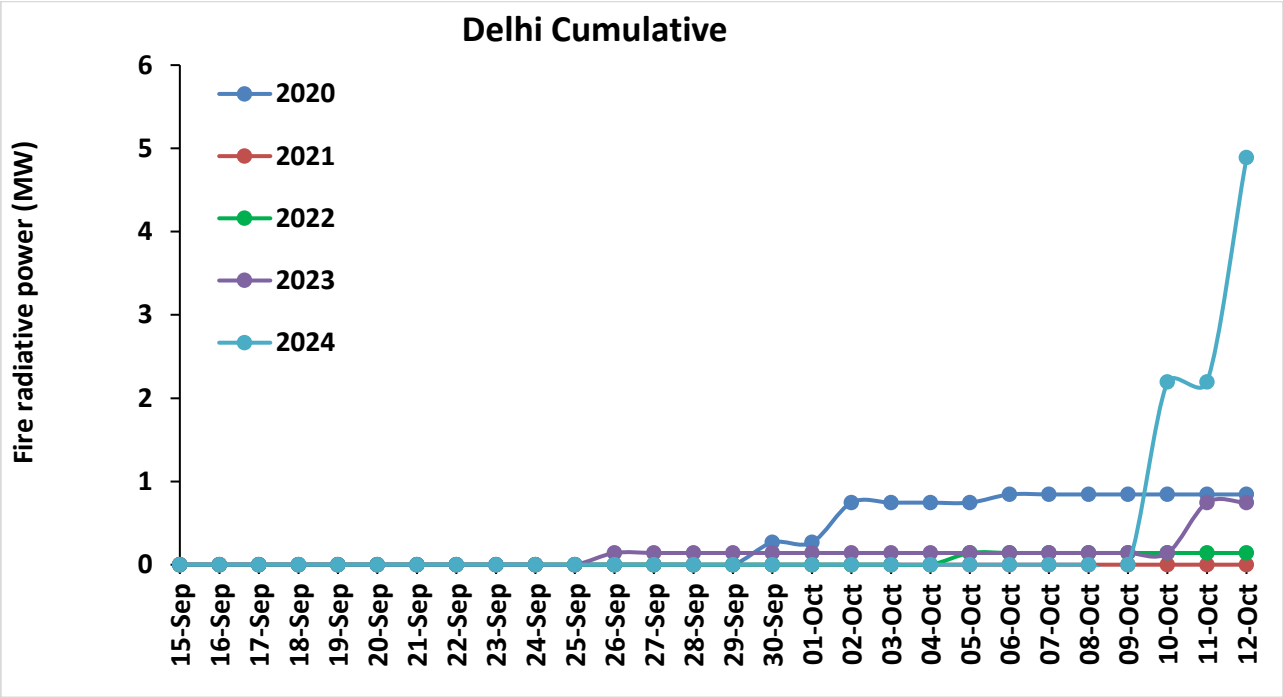
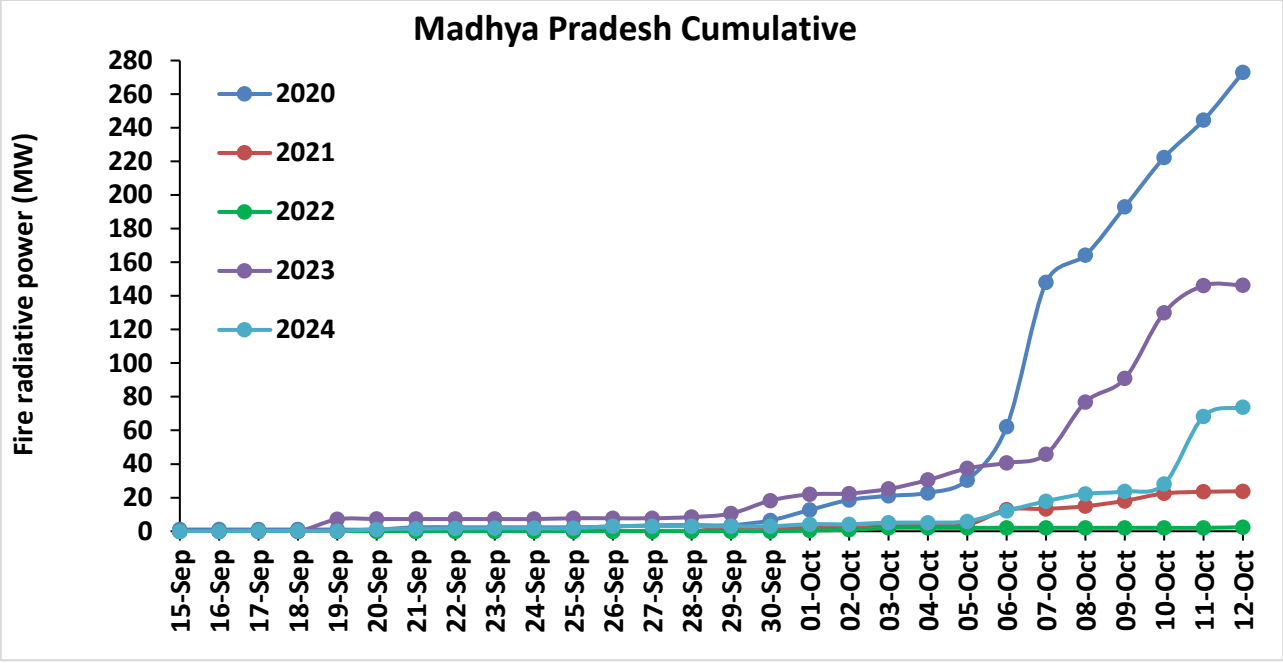
Delhi Cumulative



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

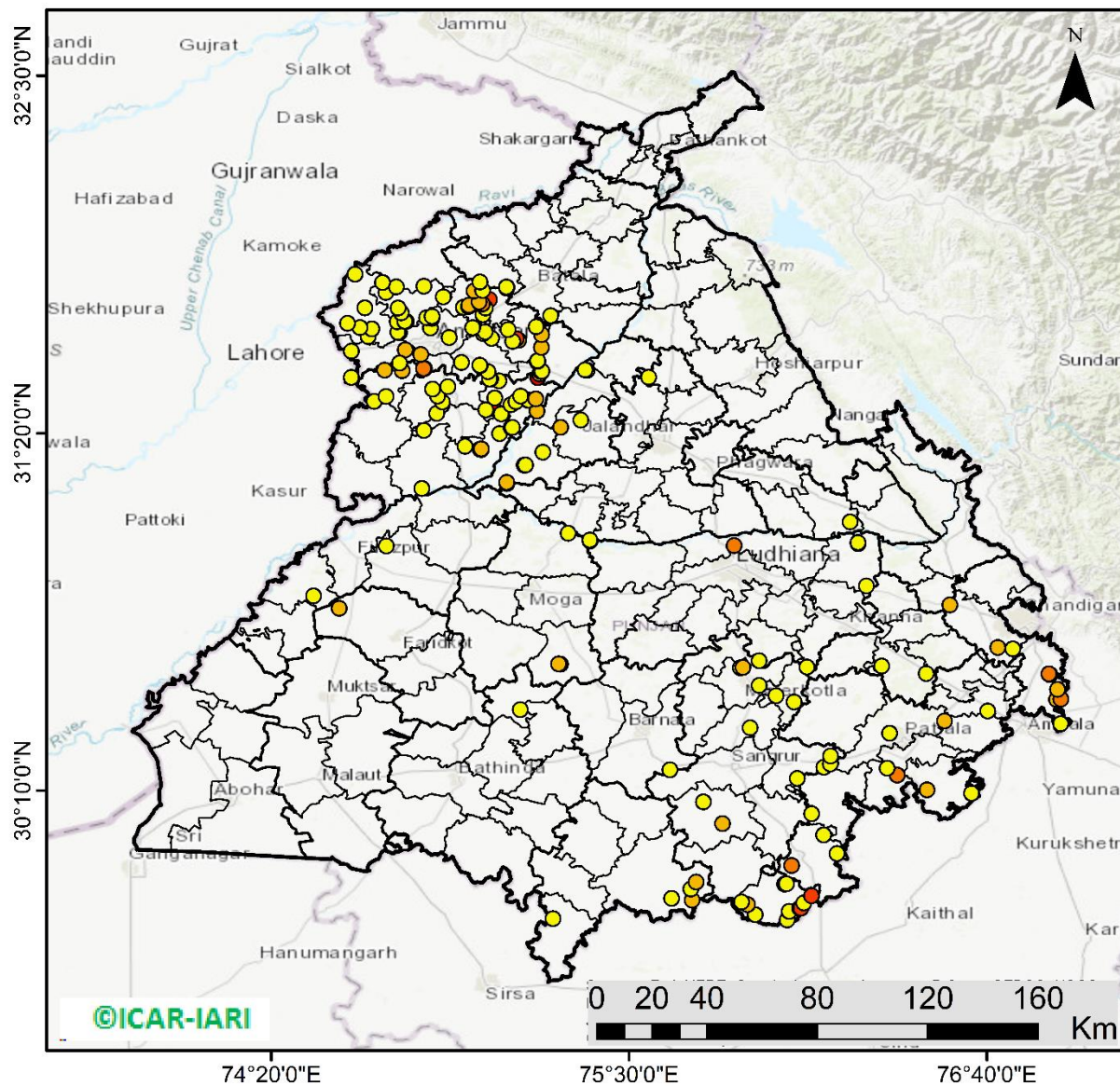






Punjab

RICE RESIDUE BURNING IN PUNJAB



177 burning events detected in Punjab during (12th Oct 2024)

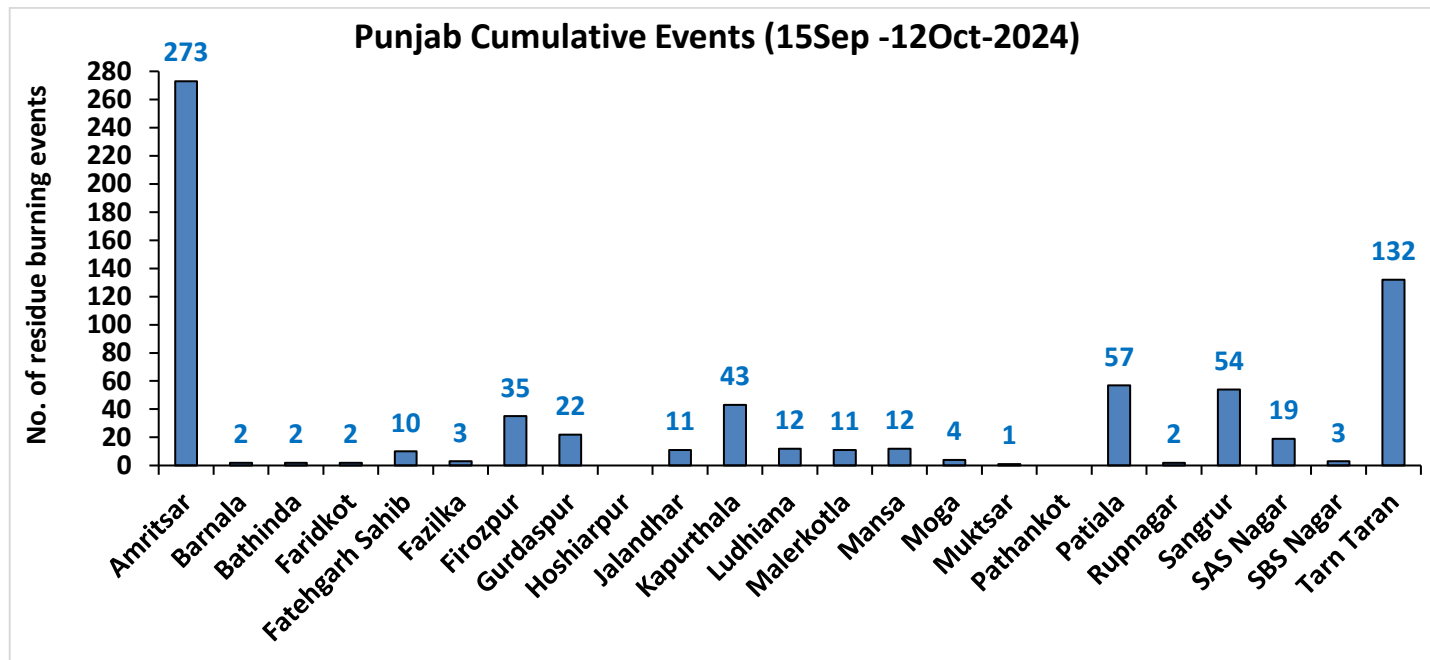
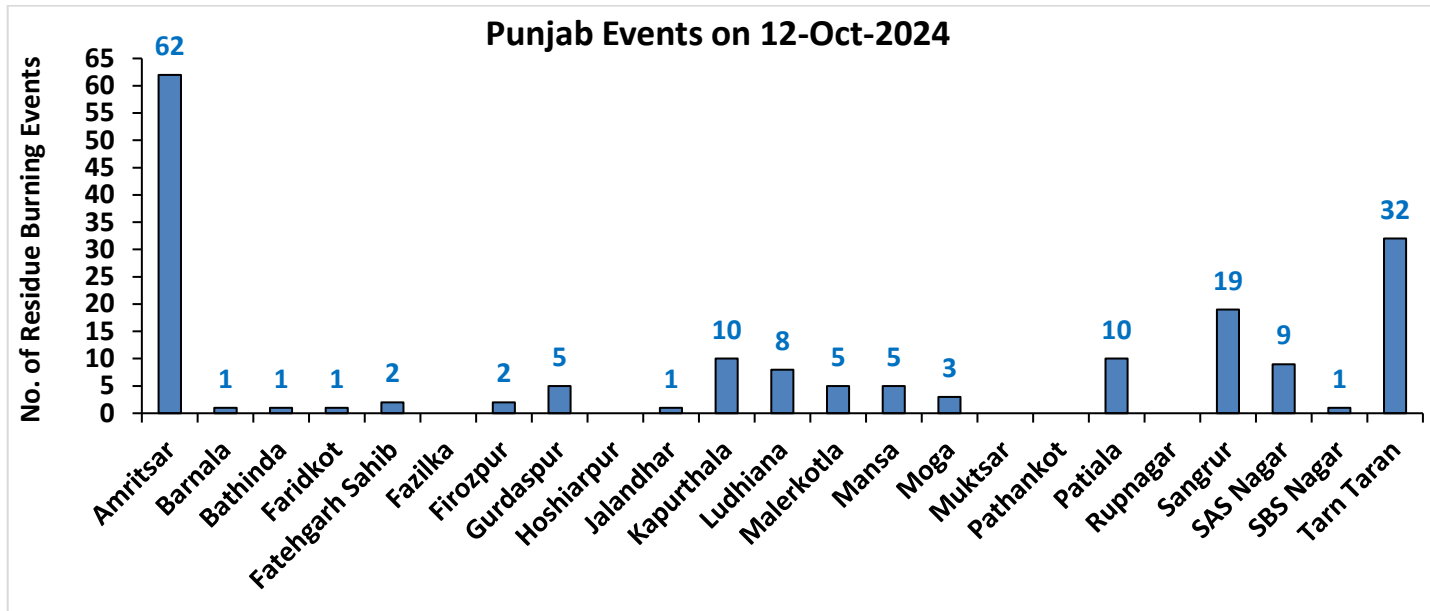
Fire Intensity (W/m²)

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



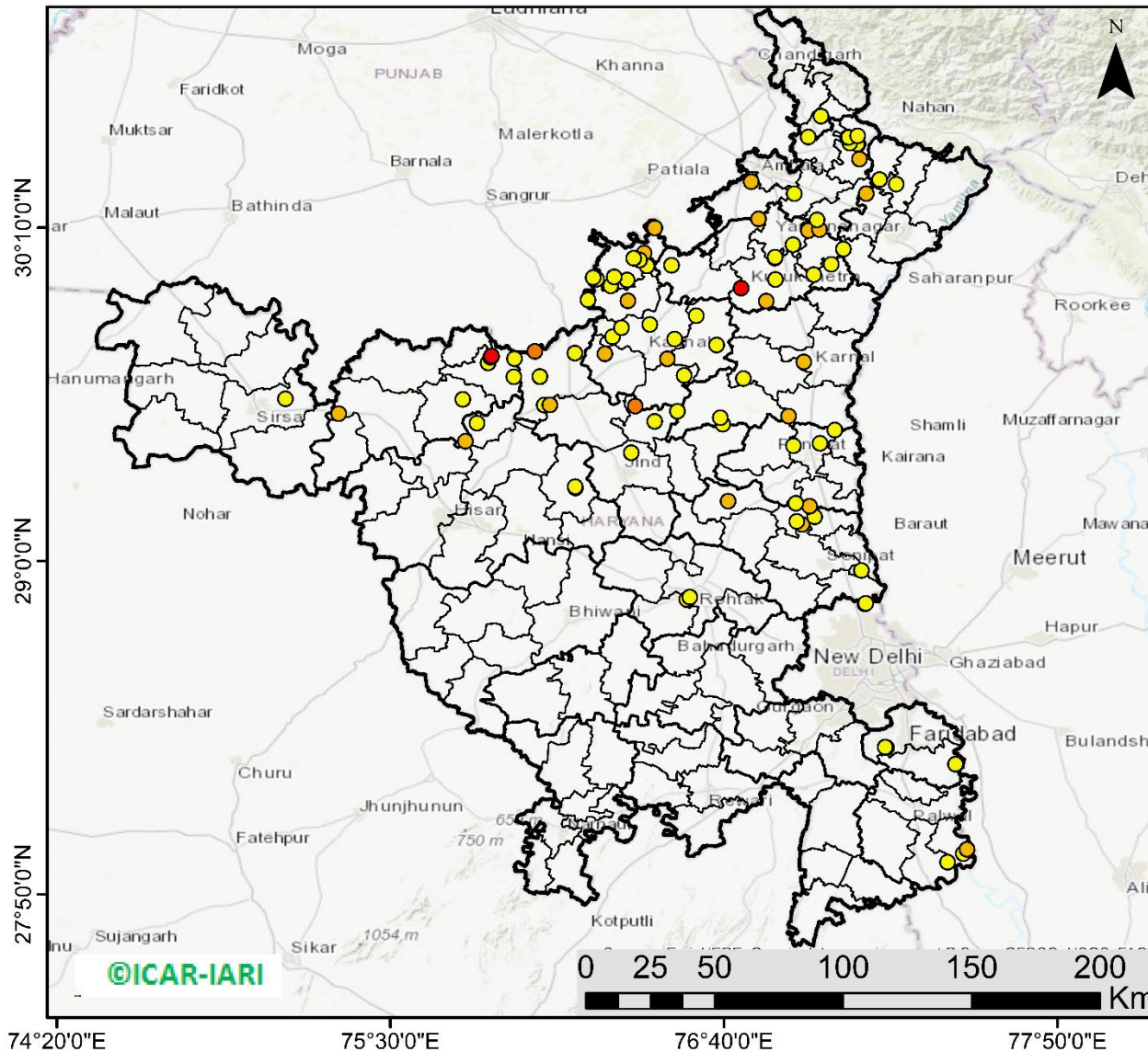
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15Sep-12Oct-2024)



Haryana

RICE RESIDUE BURNING IN HARYANA



98 burning events detected in Haryana on (12th Oct 2024)

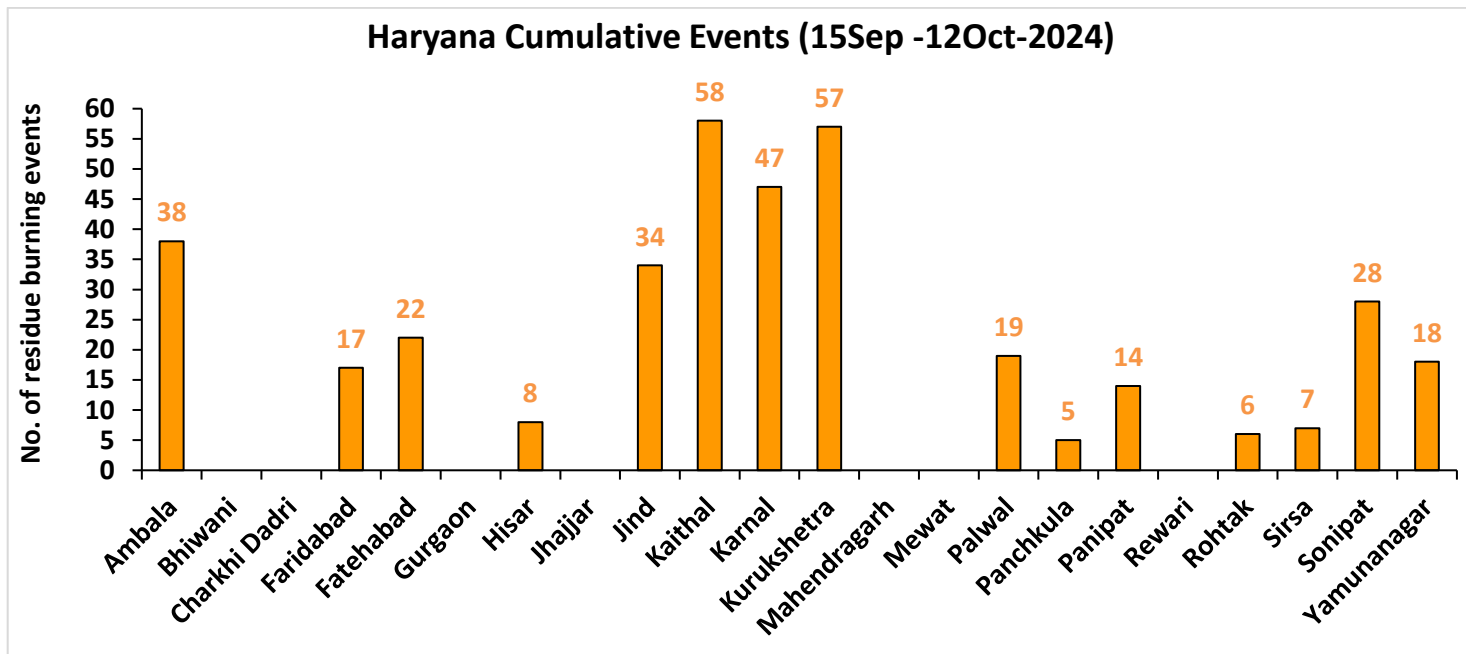
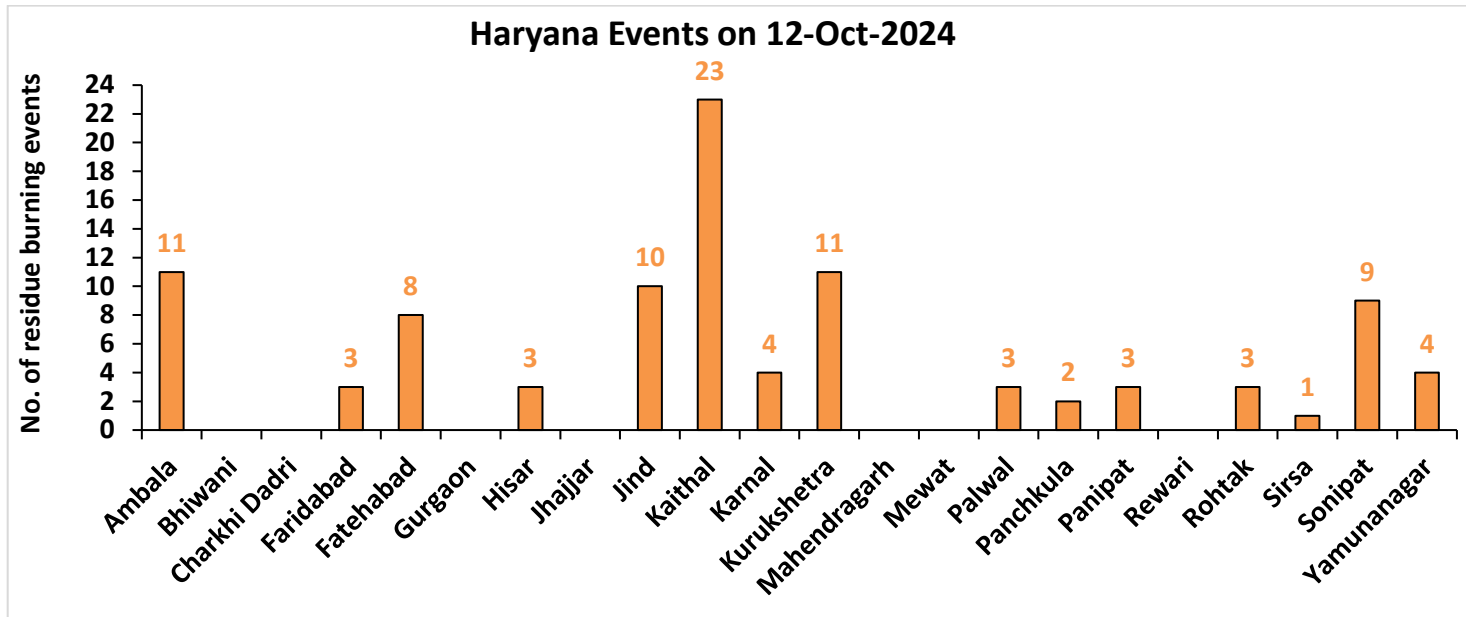
Fire Intensity (W/m²)

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



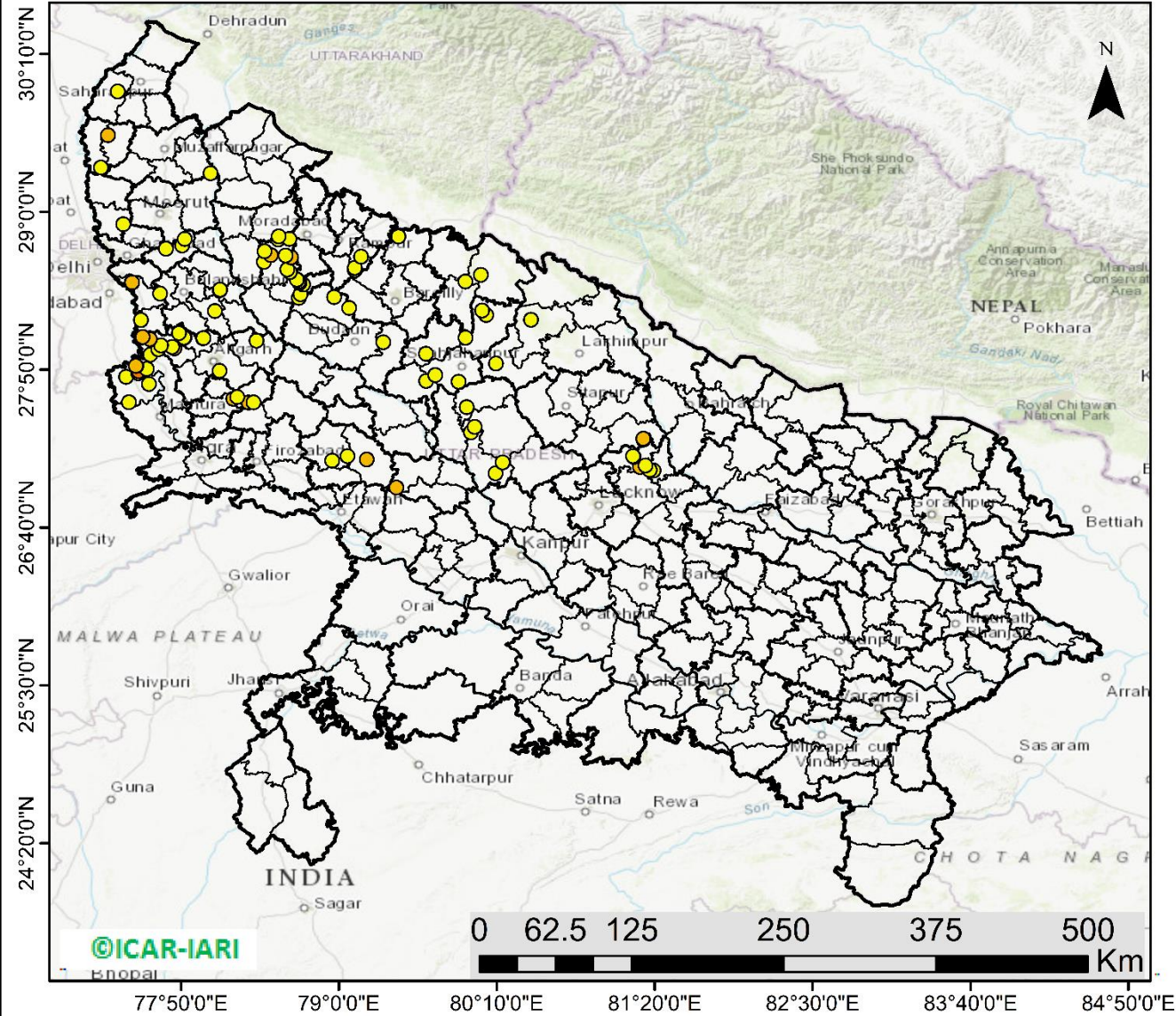
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15Sep-12Oct-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH

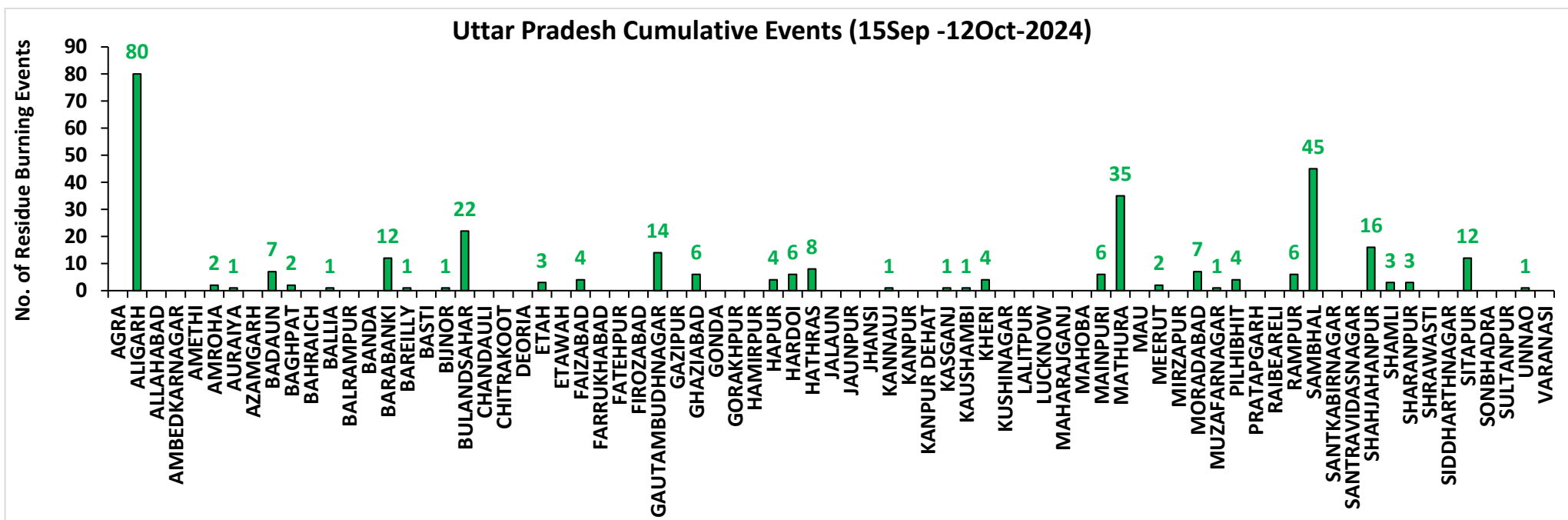
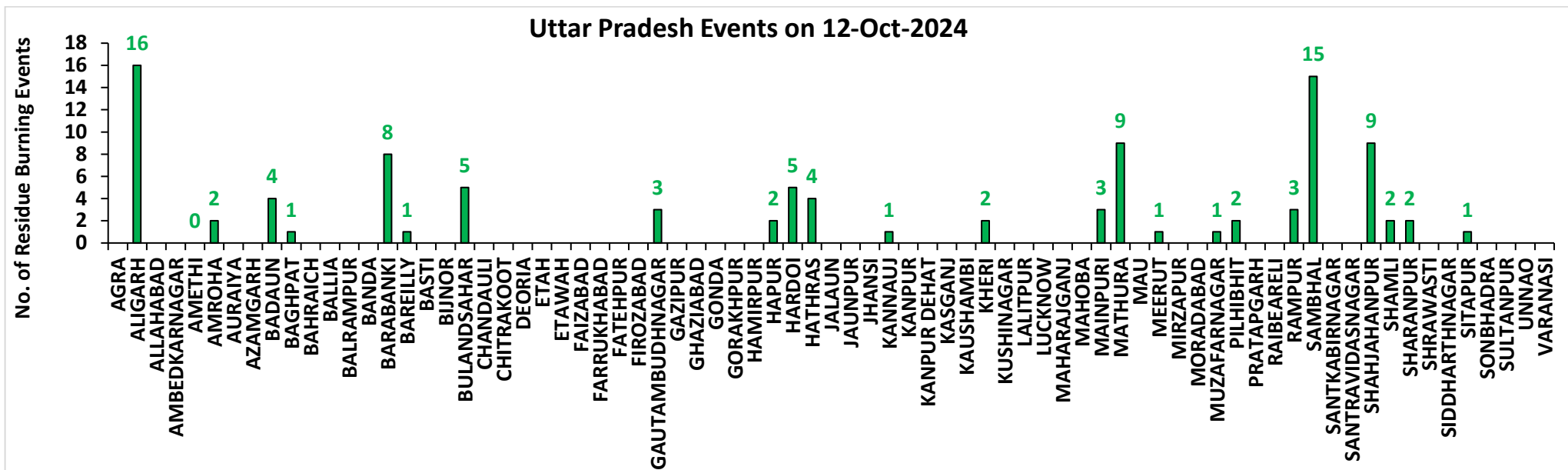


102 burning events detected in Uttar Pradesh on (12th Oct 2024)

Fire Intensity (W/m2)

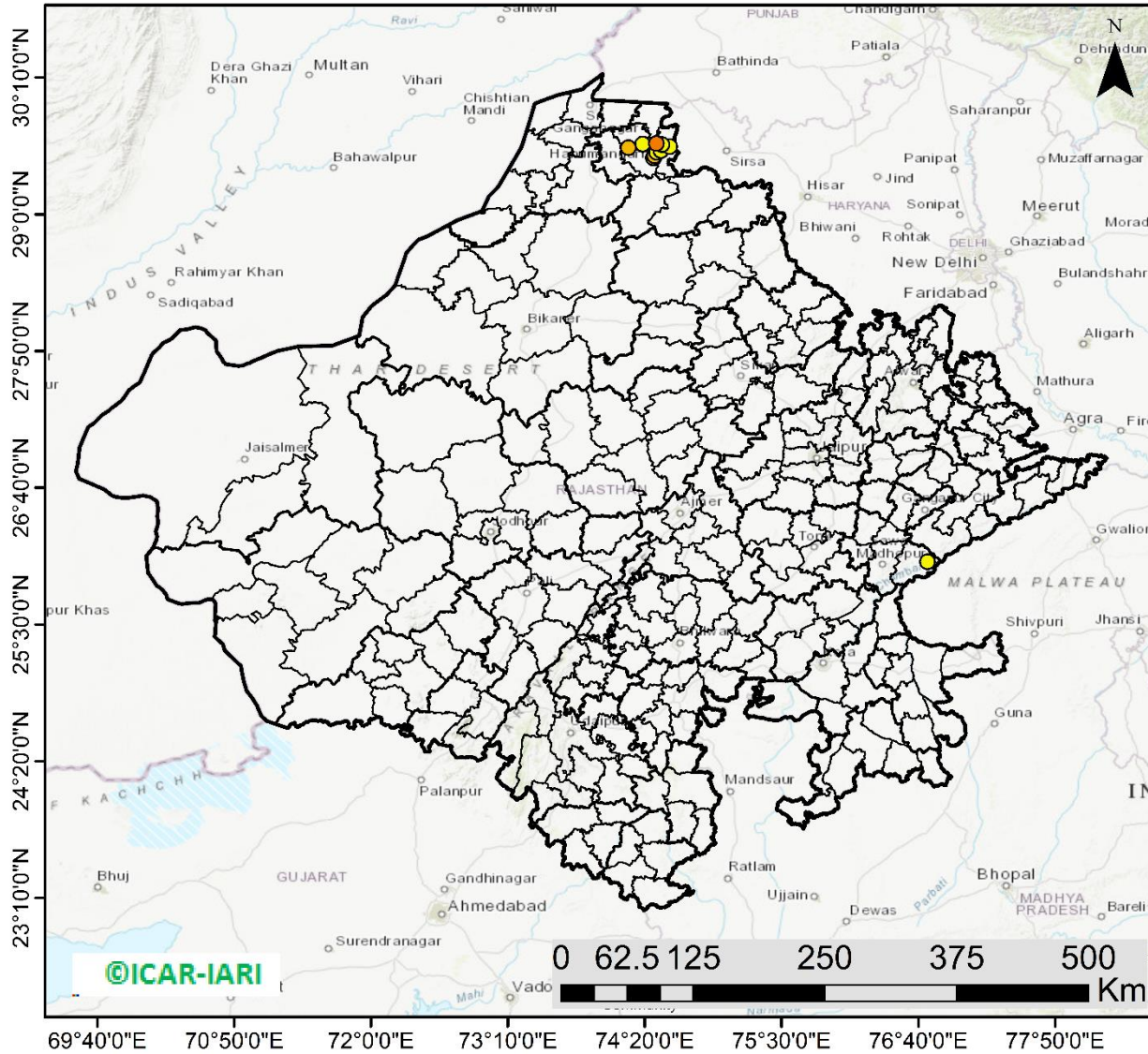
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-12Oct-2024)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



13 burning events
detected in Rajasthan on
(12th Oct 2024)

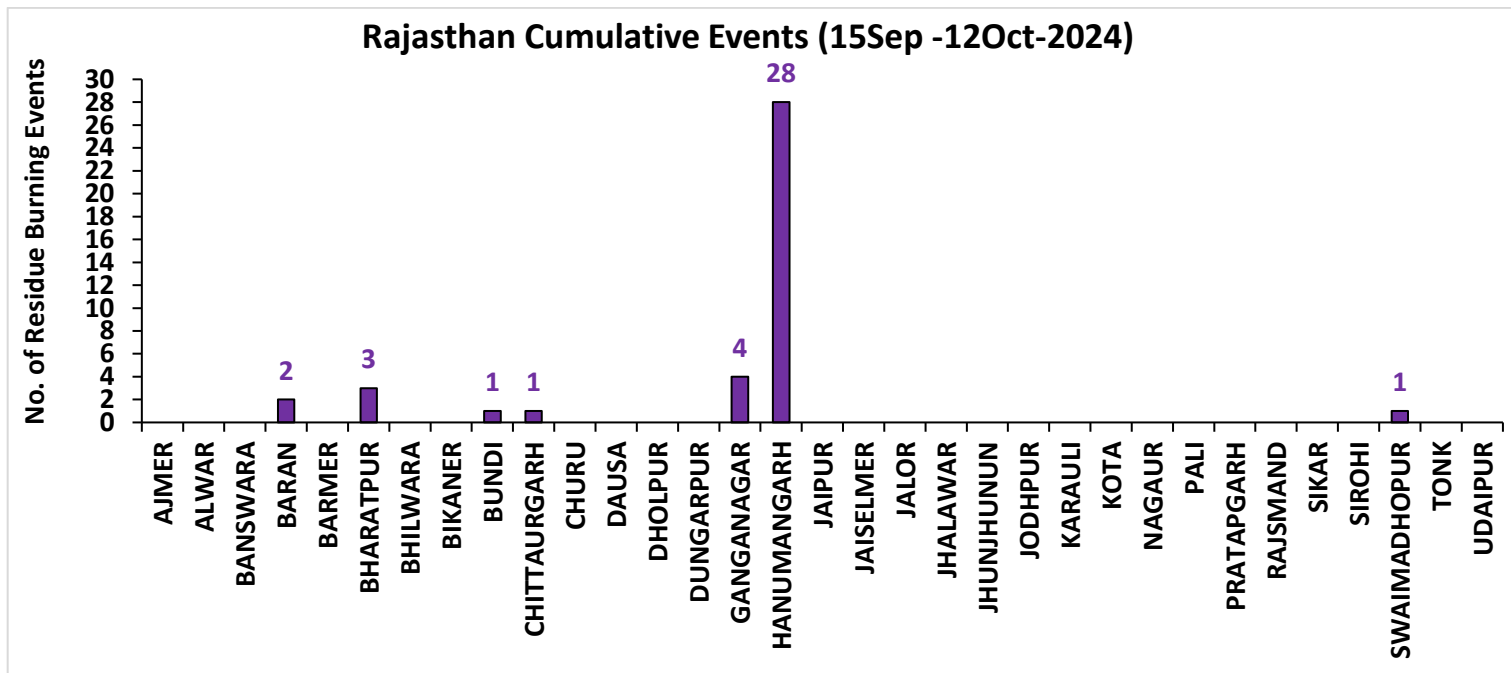
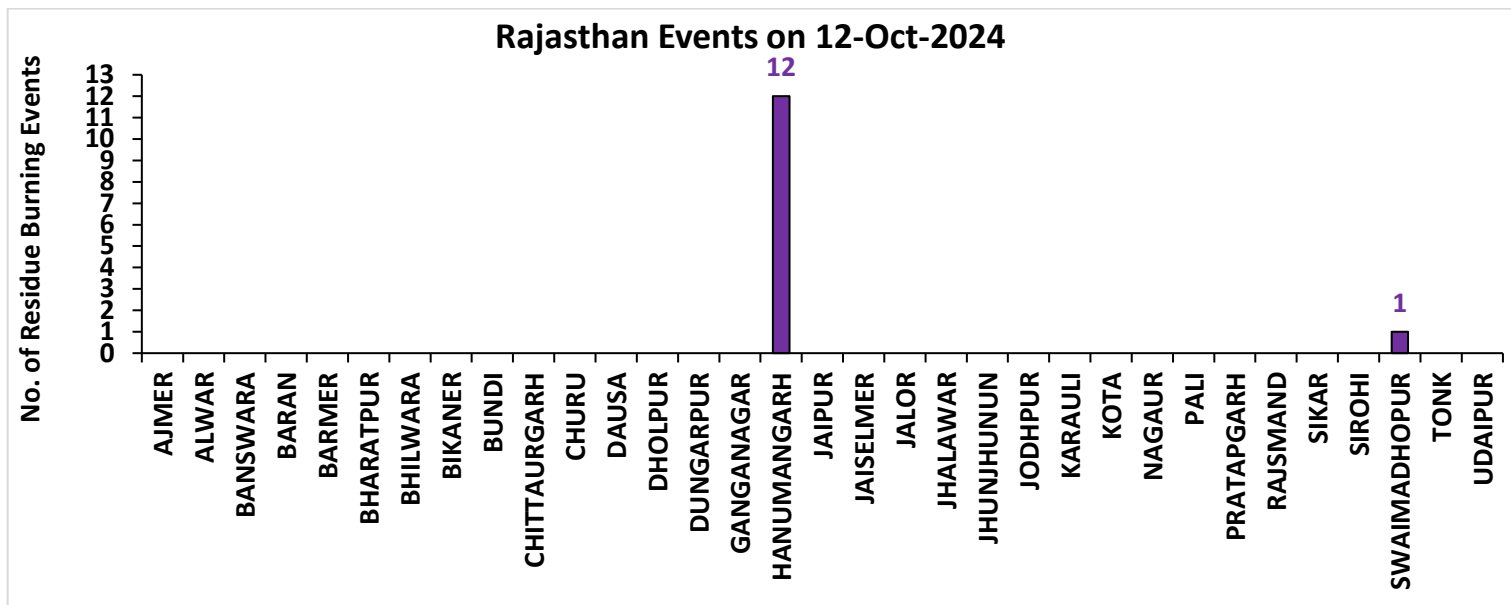
Fire Intensity (W/m²)

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



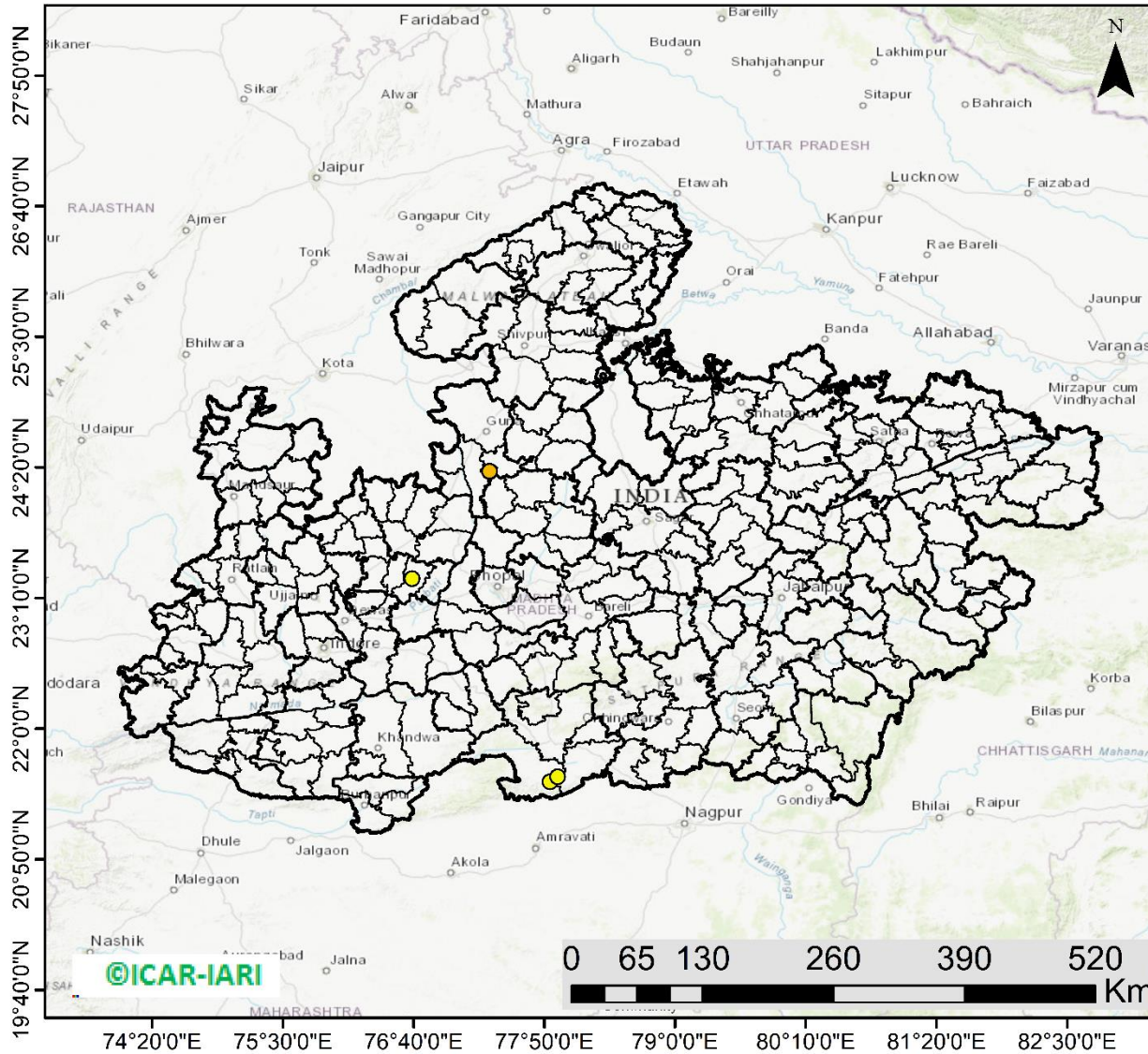
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15Sep-12Oct-2024)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



05 burning events detected in MP on (12th Oct 2024)

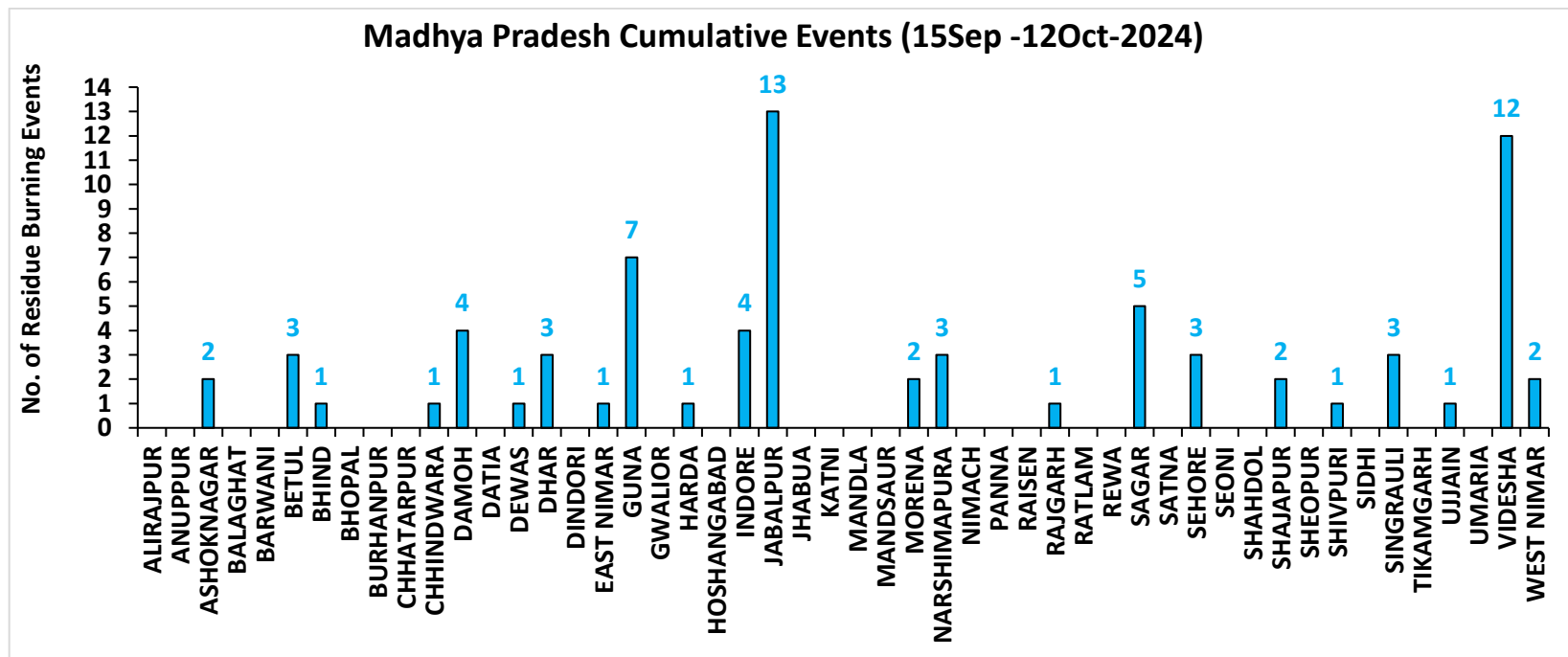
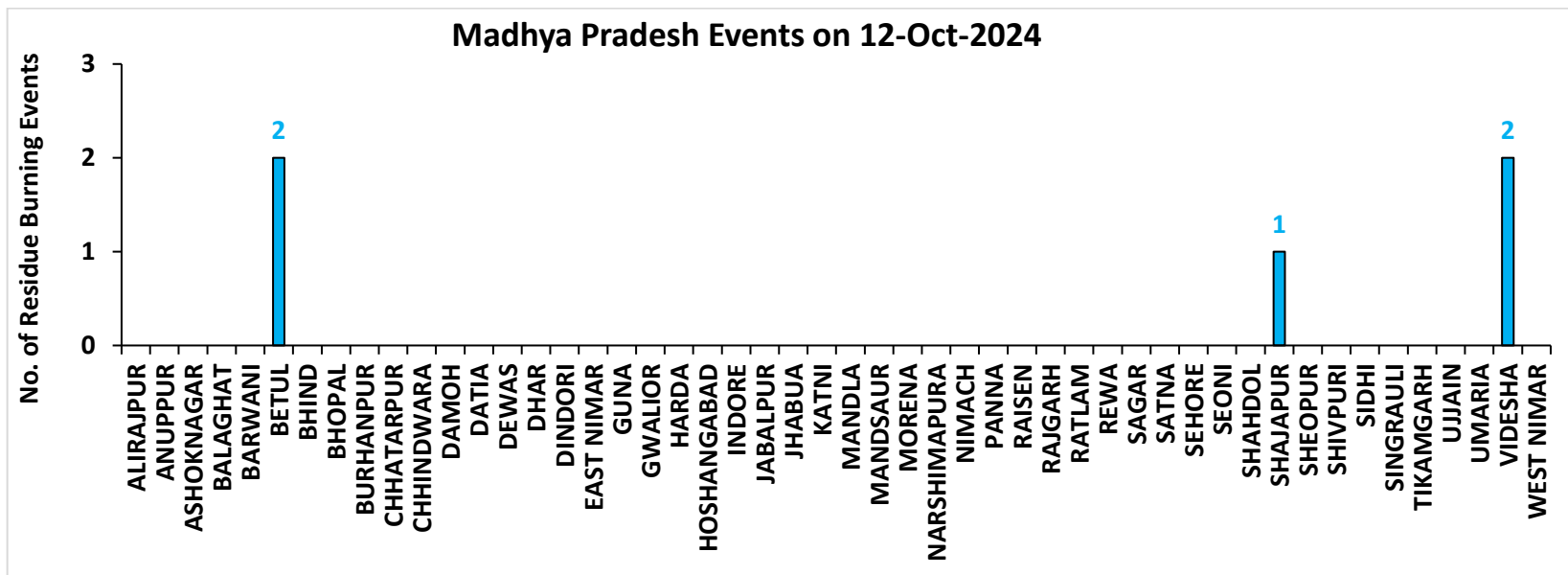
Fire Intensity (W/m²)

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



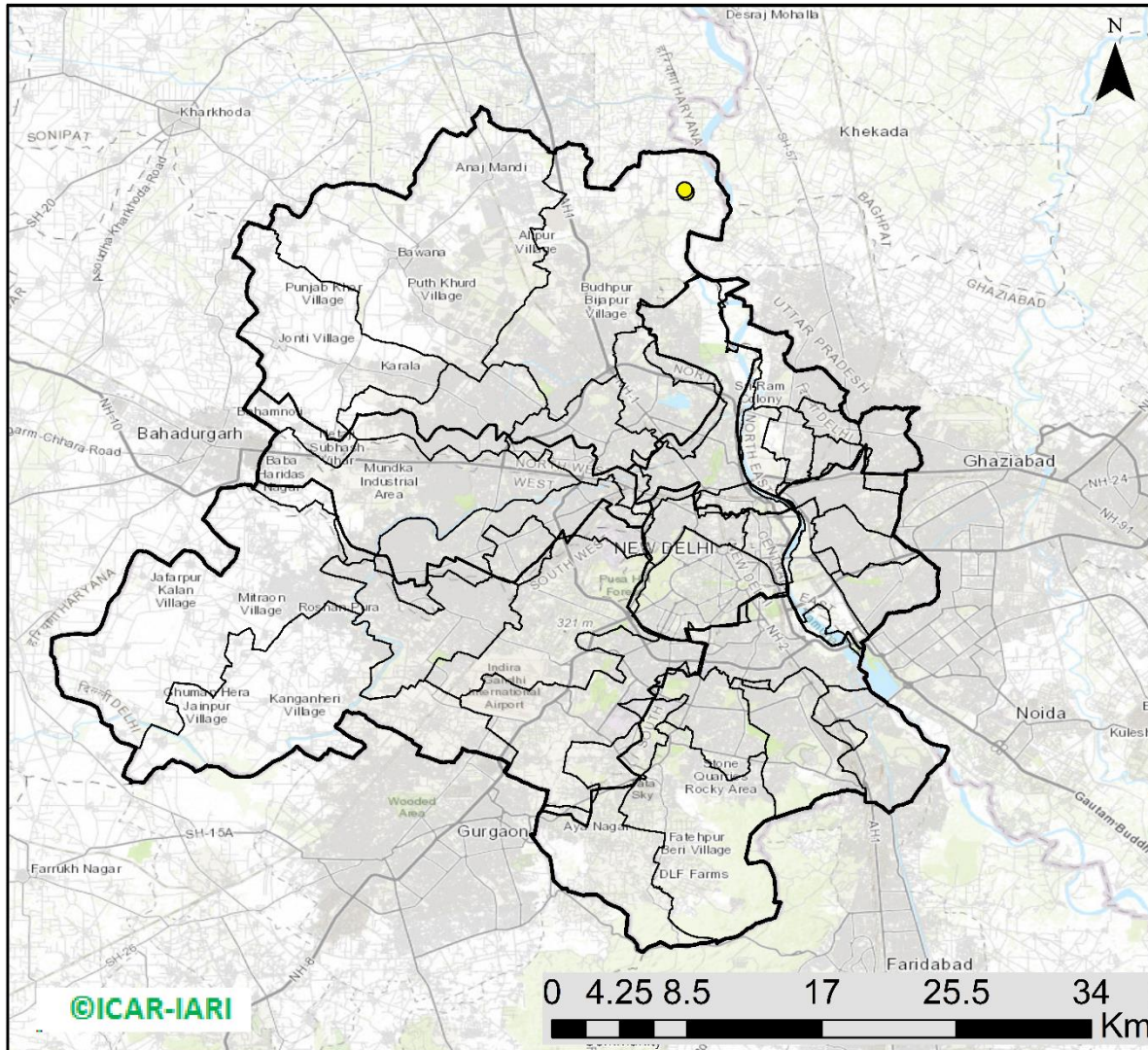
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-12Oct-2024)



Delhi

RICE RESIDUE BURNING IN DELHI



02 burning events detected in Delhi on (12th Oct 2024)

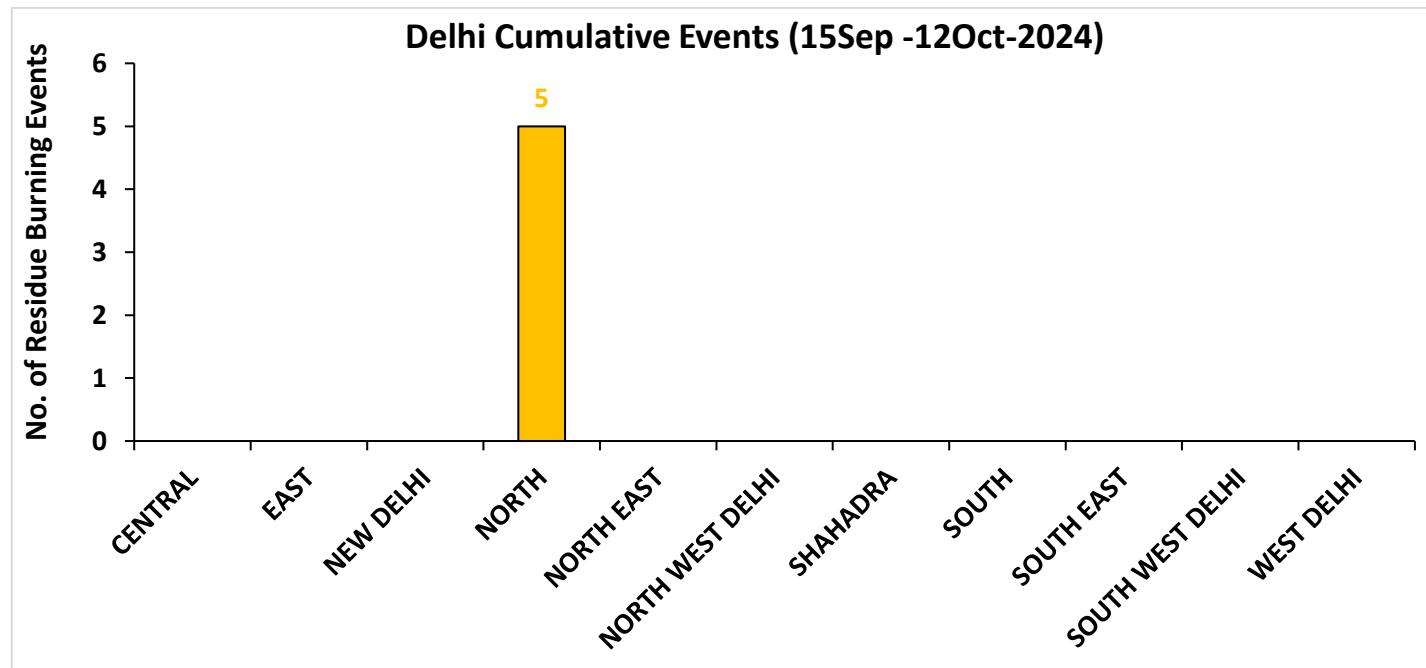
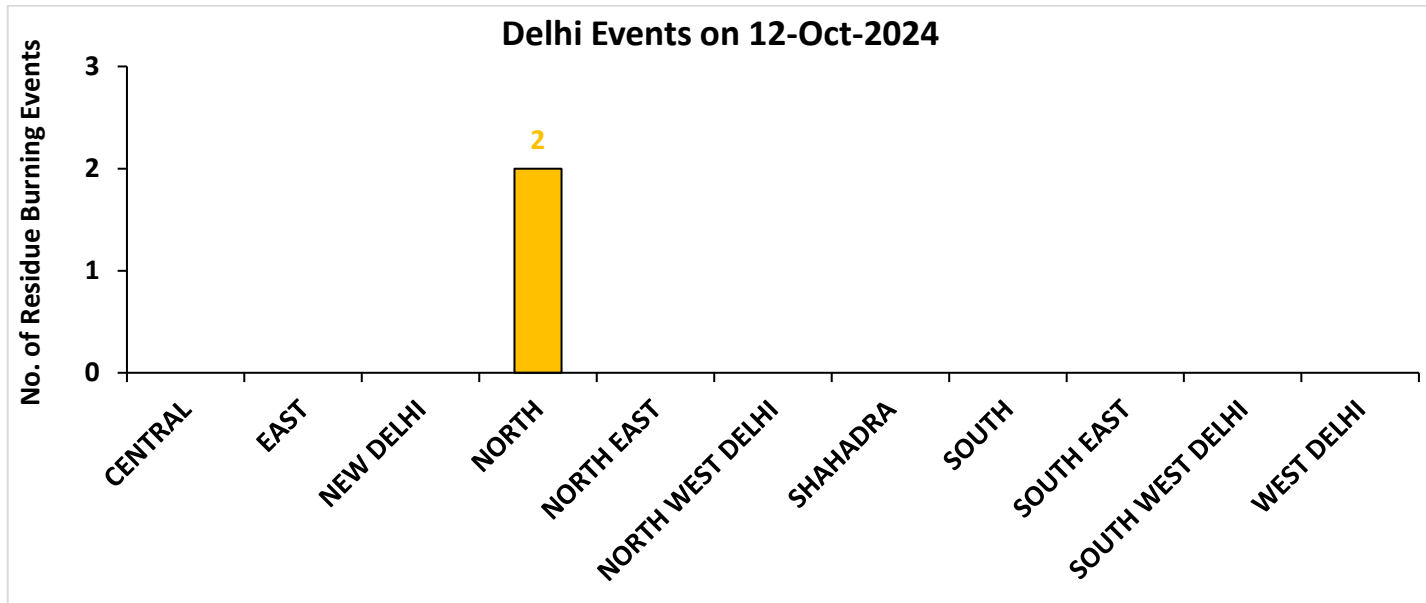
Fire Intensity (W/m²)

- 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-12Oct-2024)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024
(Period: 15 September-12 October)

(a) Punjab

District	15 Sep-12 Oct				
	2020	2021	2022	2023	2024
Amritsar	1485	355	487	575	273
Barnala	9	6	6	6	2
Bathinda	15	0	0	0	2
Faridkot	44	22	6	8	2
Fatehgarh Sahib	51	31	4	12	10
Fazilka	10	7	1	4	3
Firozpur	132	27	27	31	35
Gurdaspur	173	33	28	10	22
Hoshiarpur	8	1	0	2	0
Jalandhar	46	24	20	16	11
Kapurthala	74	27	34	62	43
Ludhiana	93	69	12	10	12
Malerkotla	0	0	0	3	11
Mansa	16	1	1	8	12
Moga	25	8	12	2	4
Muktsar	6	2	1	0	1
Pathankot	0	0	0	0	0
Patiala	256	81	26	83	57
Rupnagar	10	4	0	1	2
Sangrur	85	13	12	40	54
SAS NAGAR (Mohali)	19	13	4	40	19
SBS Nagar	9	2	2	2	3
Tarn Taran	779	199	184	161	132
Total	3345	925	867	1076	710

(b) Haryana

District	15 Sep-12 Oct				
	2020	2021	2022	2023	2024
AMBALA	65	14	10	59	38
BHIWANI	0	0	0	1	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	1	0	2	17
FATEHABAD	31	11	3	47	22
GURGAON	0	0	0	0	0
HISAR	6	0	1	15	8
JHAJJAR	1	0	0	2	0
JIND	14	9	8	37	34
KAITHAL	80	61	9	25	58
KARNAL	131	113	20	21	47
KURUKSHETRA	94	63	29	49	57
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	5	7	0	10	19
PANCHKULA	0	0	0	0	5
PANIPAT	7	3	1	12	14
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	6
SIRSA	5	0	1	1	7
SONIPAT	8	1	2	34	28
YAMUNANAGAR	33	15	3	29	18
Total	480	298	87	345	378

(c) Uttar Pradesh

District	15 Sep-12 Oct																		
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	5	0	4	14	MUZAFARNAGAR	2	0	0	0	1		
AGRA	1	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	4	8	2	25	4		
ALIGARH	20	4	1	48	80	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	13	16	0	11	6		
AMETHI	0	1	0	1	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	6	2	4	8	45		
AMROHA	1	0	0	2	2	HAPUR	3	0	0	0	4	SANTKABIRNAGAR	0	0	0	0	0		
AURAIYA	14	1	4	3	1	HARDOI	2	5	0	4	6	SANTRAVIDASNAGAR	0	0	0	0	0		
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	8	SHAHJAHANPUR	20	94	53	20	16		
BADAUN	0	0	0	1	7	JALAUN	0	0	0	0	0	SHAMLI	18	8	2	2	3		
BAGHPAT	1	0	0	1	2	JAUNPUR	0	0	0	0	0	SHARANPUR	18	1	0	0	3		
BAHRAICH	2	2	0	0	0	JHANSI	6	0	0	2	0	SHRAWASTI	0	0	0	0	0		
BALLIA	0	0	0	0	1	KANNAUJ	2	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	1	12		
BANDA	0	0	0	0	0	KANPUR DEHAT	2	0	0	1	0	SONBHADRA	0	0	0	0	0		
BARABANKI	10	0	0	13	12	KASGANJ	1	0	0	1	1	SULTANPUR	0	0	0	0	0		
BAREILLY	8	4	0	7	1	KAUSHAMBI	7	1	0	4	1	UNNAO	2	0	0	2	1		
BASTI	2	0	0	0	0	KHERI	23	20	8	3	4	VARANASI	0	0	0	0	0		
BIJNOR	3	1	1	5	1	KUSHINAGAR	0	0	0	0	0	Total	260	201	80	240	322		
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	4	0	8	3	MAINPURI	3	2	0	4	6								
ETAWAH	2	3	0	8	0	MATHURA	6	7	0	27	35								
FAIZABAD	0	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	1	0	2	7								

(d) Delhi

District	15 Sep-12 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	5
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	5

(e) Rajasthan

District	15 Sep-12 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	76	0	3	60	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	3	0	3	7	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	4
HANUMANGARH	53	10	3	23	28
JAIPUR	0	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	0	0	0	4	0
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARAULI	1	0	0	0	0
KOTA	21	0	1	36	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	2	0	0	3	1
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
Total	170	11	12	146	40

(f) Madhya Pradesh

District	15 Sep-12 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	6	1	2	5	1
ASHOKNAGAR	9	0	0	8	2	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	2	0	0	0	0
BARWANI	0	0	0	0	0	SAGAR	13	3	1	5	5
BETUL	0	0	0	0	3	SATNA	3	0	0	1	0
BHIND	0	0	0	6	1	SEHORE	5	0	1	8	3
BHOPAL	4	2	0	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	5	0	0	3	0
DAMOH	12	1	0	8	4	SHIVPURI	4	0	0	1	1
DATIA	19	2	0	11	0	SIDHI	0	0	0	0	0
DEWAS	3	0	0	5	1	SINGRAULI	0	0	0	0	3
DHAR	19	0	0	18	3	TIKAMGARH	1	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	5	0	0	6	1
EAST NIMAR	2	1	0	0	1	UMARIA	0	0	0	0	0
GUNA	10	1	1	39	7	VIDESHA	49	5	2	13	12
GWALIOR	21	0	1	4	0	WEST NIMAR	2	0	0	0	2
HARDA	8	7	0	8	1	Total	254	30	8	200	76
HOSHANGABAD	9	0	0	5	0						
INDORE	2	0	0	10	4						
JABALPUR	6	1	0	5	13						
JHABUA	0	0	0	0	0						
KATNI	0	0	0	0	0						
MANDLA	0	0	0	0	0						
MANDSAUR	0	0	0	1	0						
MORENA	7	3	0	12	2						
NARSHIMAPURA	1	1	0	1	3						
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-12 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

Total	3345	925	867	1076	710	480	298	87	345	378	260	201	80	240	322
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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
Total	3	0	2	2	5	170	11	12	146	40	254	30	8	200	76

Details of residue burning events in Punjab on 12-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	JPSS-1	31.81047	74.74158	01:10:29	N	3.10
2	AMRITSAR	AJNALA	JPSS-2	31.81265	74.83134	01:10:25	N	3.20
3	AMRITSAR	ATTARI	AQUA	31.60500	74.77100	14:34:48	D	7.20
4	AMRITSAR	ATTARI	JPSS-1	31.51498	74.59499	01:10:29	N	2.60
5	AMRITSAR	ATTARI	JPSS-1	31.54403	74.83296	01:10:29	N	8.10
6	AMRITSAR	ATTARI	S-NPP	31.54414	74.83010	13:27:35	D	10.70
7	AMRITSAR	ATTARI	JPSS-2	31.58972	74.82121	01:10:25	N	6.80
8	AMRITSAR	ATTARI	JPSS-1	31.60034	74.59501	01:10:29	N	2.20
9	AMRITSAR	CHOGAWAN	S-NPP	31.64811	74.64987	13:27:35	D	2.10
10	AMRITSAR	CHOGAWAN	S-NPP	31.66068	74.75186	13:27:35	D	2.60
11	AMRITSAR	CHOGAWAN	JPSS-2	31.66251	74.74613	01:10:25	N	1.30
12	AMRITSAR	CHOGAWAN	S-NPP	31.67321	74.66180	13:27:35	D	1.30
13	AMRITSAR	CHOGAWAN	S-NPP	31.67737	74.62315	13:27:35	D	2.50
14	AMRITSAR	CHOGAWAN	S-NPP	31.69145	74.58234	13:27:35	D	2.00
15	AMRITSAR	CHOGAWAN	JPSS-2	31.74153	74.63900	01:10:25	N	3.10
16	AMRITSAR	CHOGAWAN	S-NPP	31.85153	74.60687	13:27:35	D	2.60
17	AMRITSAR	HARSHA CHHINA	S-NPP	31.69652	74.74474	13:27:35	D	3.40
18	AMRITSAR	HARSHA CHHINA	S-NPP	31.69765	74.77377	13:27:35	D	3.80
19	AMRITSAR	HARSHA CHHINA	JPSS-2	31.69795	74.76922	01:10:25	N	3.90
20	AMRITSAR	HARSHA CHHINA	JPSS-1	31.72556	74.75743	01:10:29	N	1.60
21	AMRITSAR	HARSHA CHHINA	JPSS-1	31.74122	74.74722	01:10:29	N	3.30
22	AMRITSAR	HARSHA CHHINA	S-NPP	31.77794	74.89458	13:27:35	D	3.10
23	AMRITSAR	HARSHA CHHINA	S-NPP	31.79218	74.70777	13:27:35	D	1.60
24	AMRITSAR	HARSHA CHHINA	S-NPP	31.82460	74.69660	13:27:35	D	2.80
25	AMRITSAR	JANDIALA GURU	JPSS-2	31.53366	75.04026	01:10:25	N	4.50
26	AMRITSAR	JANDIALA GURU	S-NPP	31.55286	75.01431	02:17:35	N	1.50
27	AMRITSAR	JANDIALA GURU	JPSS-1	31.55477	75.01346	02:10:46	N	0.80
28	AMRITSAR	JANDIALA GURU	JPSS-2	31.56334	74.95373	01:10:25	N	2.80
29	AMRITSAR	JANDIALA GURU	JPSS-2	31.65794	75.02457	01:10:25	N	6.20
30	AMRITSAR	JANDIALA GURU	S-NPP	31.66314	75.03098	13:27:35	D	1.50

31	AMRITSAR	MAJITHA	AQUA	31.76700	75.03300	14:34:48	D	22.60
32	AMRITSAR	MAJITHA	AQUA	31.76900	75.04500	14:34:48	D	18.30
33	AMRITSAR	MAJITHA	S-NPP	31.71951	75.02376	13:27:35	D	2.00
34	AMRITSAR	MAJITHA	S-NPP	31.74119	75.03169	13:27:35	D	1.40
35	AMRITSAR	MAJITHA	JPSS-1	31.74335	74.96031	01:10:29	N	2.20
36	AMRITSAR	MAJITHA	S-NPP	31.74628	74.97638	13:27:35	D	6.00
37	AMRITSAR	MAJITHA	JPSS-2	31.74998	74.97774	01:10:25	N	5.10
38	AMRITSAR	MAJITHA	JPSS-2	31.75484	75.02208	01:10:25	N	11.90
39	AMRITSAR	MAJITHA	JPSS-2	31.76119	75.01119	01:10:25	N	9.10
40	AMRITSAR	MAJITHA	S-NPP	31.79689	74.99487	13:27:35	D	7.60
41	AMRITSAR	MAJITHA	JPSS-1	31.79869	75.02293	01:10:29	N	2.50
42	AMRITSAR	RAYYA	AQUA	31.51400	75.20300	14:34:48	D	30.10
43	AMRITSAR	RAYYA	JPSS-1	31.52603	75.20871	01:10:29	N	6.60
44	AMRITSAR	RAYYA	JPSS-1	31.53478	75.21194	01:10:29	N	4.20
45	AMRITSAR	RAYYA	JPSS-1	31.53524	75.21632	01:10:29	N	4.40
46	AMRITSAR	RAYYA	S-NPP	31.56733	75.20003	13:27:35	D	11.40
47	AMRITSAR	RAYYA	JPSS-1	31.56748	75.20303	01:10:29	N	6.60
48	AMRITSAR	RAYYA	JPSS-1	31.56931	75.20248	01:10:29	N	3.60
49	AMRITSAR	RAYYA	JPSS-1	31.61258	75.21431	01:10:29	N	5.70
50	AMRITSAR	RAYYA	JPSS-2	31.65448	75.21517	01:10:25	N	8.20
51	AMRITSAR	TARSIKKA	AQUA	31.63600	75.14000	14:34:48	D	7.50
52	AMRITSAR	TARSIKKA	AQUA	31.64100	75.13300	14:34:48	D	17.60
53	AMRITSAR	TARSIKKA	S-NPP	31.63265	75.12071	13:27:35	D	2.30
54	AMRITSAR	TARSIKKA	S-NPP	31.64252	75.05199	13:27:35	D	4.40
55	AMRITSAR	TARSIKKA	JPSS-1	31.67090	75.10583	01:10:29	N	1.40
56	AMRITSAR	TARSIKKA	JPSS-1	31.68015	75.19762	01:10:29	N	2.80
57	AMRITSAR	VERKA	S-NPP	31.64499	74.91396	13:27:35	D	1.40
58	AMRITSAR	VERKA	S-NPP	31.67646	74.85299	13:27:35	D	2.90
59	AMRITSAR	VERKA	S-NPP	31.67734	74.99045	13:27:35	D	1.50
60	AMRITSAR	VERKA	JPSS-1	31.70752	74.85773	01:10:29	N	2.90
61	AMRITSAR	VERKA	JPSS-1	31.70979	74.84032	01:10:29	N	1.40
62	AMRITSAR	VERKA	S-NPP	31.71424	74.85801	13:27:35	D	3.30
63	BARNALA	BARNALA	S-NPP	30.23454	75.63338	13:27:35	D	2.60

64	BATHINDA	BHAGTA BHAI KA	JPSS-1	30.43102	75.14529	01:10:29	N	3.20
65	FARIDKOT	FARIDKOT	S-NPP	30.76126	74.55518	13:27:35	D	8.10
66	FATEHGARH SAHIB	SIRHIND	S-NPP	30.54847	76.46903	13:27:35	D	4.30
67	FATEHGARH SAHIB	SIRHIND	JPSS-2	30.57280	76.32394	01:10:25	N	3.60
68	FIROZPUR	GHALL KHURD	S-NPP	30.96511	74.70883	13:27:35	D	3.80
69	FIROZPUR	MAMDOT	S-NPP	30.80169	74.47148	13:27:35	D	3.30
70	GURDASPUR	BATALA	S-NPP	31.71643	75.24472	13:27:35	D	4.10
71	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.80647	75.10133	13:27:35	D	3.70
72	GURDASPUR	FATEHGARH CHURIAN	JPSS-2	31.80917	75.10239	01:10:25	N	3.40
73	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.80978	75.10063	13:27:35	D	3.60
74	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.82623	75.01398	13:27:35	D	3.00
75	JALANDHAR	BHOGPUR	JPSS-1	31.51539	75.56401	01:10:29	N	3.60
76	KAPURTHALA	DHILWAN	S-NPP	31.40500	75.20002	13:27:35	D	6.40
77	KAPURTHALA	DHILWAN	S-NPP	31.53818	75.36354	13:27:35	D	1.50
78	KAPURTHALA	DHILWAN	JPSS-2	31.53958	75.35705	01:10:25	N	3.20
79	KAPURTHALA	KAPURTHALA	S-NPP	31.35214	75.27746	13:27:35	D	9.70
80	KAPURTHALA	KAPURTHALA	S-NPP	31.37580	75.34305	13:27:35	D	3.20
81	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.16830	75.10167	01:10:29	N	10.80
82	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.17241	75.10110	01:10:29	N	8.60
83	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.22851	75.15840	01:10:29	N	4.90
84	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.22897	75.16270	01:10:29	N	4.90
85	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.27099	75.21956	01:10:29	N	1.90
86	LUDHIANA	KHANNA	JPSS-2	30.56981	76.08041	01:10:25	N	4.90
87	LUDHIANA	LUDHIANA 2	JPSS-1	30.96629	75.84302	01:10:29	N	11.90
88	LUDHIANA	MACHHIWARA	S-NPP	30.83449	76.27390	13:27:35	D	2.30
89	LUDHIANA	MACHHIWARA	S-NPP	30.97268	76.24698	13:27:35	D	4.80
90	LUDHIANA	MACHHIWARA	S-NPP	30.97599	76.24632	13:27:35	D	4.80
91	LUDHIANA	MALoud	S-NPP	30.59016	75.92458	13:27:35	D	2.50
92	LUDHIANA	SIDHWAN BET	S-NPP	30.98086	75.37305	13:27:35	D	2.40
93	LUDHIANA	SIDHWAN BET	S-NPP	30.98416	75.37238	13:27:35	D	2.80
94	MALERKOTLA	AMARGARH	JPSS-2	30.45565	76.03869	01:10:25	N	3.10
95	MALERKOTLA	AMARGARH	S-NPP	30.47633	75.97985	13:27:35	D	1.40
96	MALERKOTLA	MALERKOTLA	JPSS-2	30.50967	75.92425	01:10:25	N	3.00

97	MALERKOTLA	MALERKOTLA	S-NPP	30.56735	75.86332	13:27:35	D	3.90
98	MALERKOTLA	MALERKOTLA	S-NPP	30.56855	75.87132	13:27:35	D	10.00
99	MANSA	BUDHLADA	JPSS-1	29.80925	75.70604	01:10:29	N	7.40
100	MANSA	BUDHLADA	JPSS-1	29.81503	75.63903	01:10:29	N	3.90
101	MANSA	BUDHLADA	JPSS-2	29.84550	75.70174	01:10:25	N	2.60
102	MANSA	BUDHLADA	S-NPP	29.86826	75.71899	13:27:35	D	6.30
103	MANSA	SARDULGARH	S-NPP	29.74870	75.25245	13:27:35	D	2.20
104	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.00655	75.30180	13:27:35	D	2.20
105	MOGA	NIHAL SINGH	S-NPP	30.57916	75.27695	13:27:35	D	2.30
106	MOGA	NIHAL SINGH	JPSS-2	30.57996	75.27080	01:10:25	N	5.10
107	PATIALA	BHUNARHERI	AQUA	30.16900	76.47200	14:34:48	D	9.10
108	PATIALA	BHUNARHERI	S-NPP	30.15786	76.61697	13:27:35	D	3.10
109	PATIALA	GHANAUR	JPSS-1	30.39390	76.52893	01:10:29	N	5.50
110	PATIALA	PATIALA	JPSS-1	30.35387	76.34963	01:10:29	N	4.10
111	PATIALA	PATRAN	S-NPP	29.92233	76.03068	13:27:35	D	10.50
112	PATIALA	PATRAN	S-NPP	29.96144	76.17822	13:27:35	D	2.60
113	PATIALA	PATRAN	JPSS-2	30.02201	76.13483	01:10:25	N	3.60
114	PATIALA	SANAUR	S-NPP	30.21719	76.37488	13:27:35	D	10.60
115	PATIALA	SANAUR	S-NPP	30.23959	76.34168	13:27:35	D	2.50
116	PATIALA	SHAMBU KALAN	S-NPP	30.42634	76.66982	13:27:35	D	3.60
117	SANGRUR	ANDANA	S-NPP	29.74430	76.01584	13:27:35	D	2.10
118	SANGRUR	ANDANA	JPSS-2	29.76167	75.91142	01:10:25	N	1.30
119	SANGRUR	ANDANA	S-NPP	29.77253	76.02247	13:27:35	D	3.40
120	SANGRUR	ANDANA	JPSS-2	29.78224	76.05675	01:10:25	N	16.90
121	SANGRUR	ANDANA	JPSS-2	29.78305	76.06079	01:10:25	N	16.90
122	SANGRUR	ANDANA	JPSS-2	29.79469	75.88660	01:10:25	N	6.10
123	SANGRUR	ANDANA	S-NPP	29.80013	76.07003	13:27:35	D	3.30
124	SANGRUR	ANDANA	JPSS-2	29.80340	75.86689	01:10:25	N	2.40
125	SANGRUR	ANDANA	S-NPP	29.82345	76.09484	13:27:35	D	19.20
126	SANGRUR	ANDANA	JPSS-2	29.86141	76.00732	01:10:25	N	3.60
127	SANGRUR	ANDANA	S-NPP	29.86232	76.01369	13:27:35	D	1.80
128	SANGRUR	BHAWANIGARH	S-NPP	30.20625	76.04855	13:27:35	D	3.00
129	SANGRUR	BHAWANIGARH	S-NPP	30.24308	76.13550	13:27:35	D	4.60

130	SANGRUR	BHAWANIGARH	JPSS-1	30.25376	76.15652	01:10:29	N	3.20
131	SANGRUR	BHAWANIGARH	S-NPP	30.27945	76.15727	13:27:35	D	4.00
132	SANGRUR	DHURI	JPSS-1	30.37178	75.89494	01:10:29	N	3.20
133	SANGRUR	DIRBA	S-NPP	30.09116	76.09551	13:27:35	D	4.60
134	SANGRUR	SUNAM	JPSS-1	30.05900	75.80519	01:10:29	N	8.10
135	SANGRUR	SUNAM	JPSS-2	30.12996	75.74295	01:10:25	N	3.80
136	SAS NAGAR	DERABASSI	AQUA	30.46400	76.89400	14:34:48	D	9.30
137	SAS NAGAR	DERABASSI	AQUA	30.46500	76.90800	14:34:48	D	11.60
138	SAS NAGAR	DERABASSI	JPSS-1	30.38511	76.90771	01:10:29	N	2.80
139	SAS NAGAR	DERABASSI	JPSS-2	30.49657	76.89748	01:10:25	N	5.50
140	SAS NAGAR	DERABASSI	JPSS-1	30.54477	76.87280	01:10:29	N	11.00
141	SAS NAGAR	DERABASSI	JPSS-1	30.54751	76.86911	01:10:29	N	12.40
142	SAS NAGAR	KHARAR	JPSS-1	30.62925	76.75161	01:10:29	N	3.60
143	SAS NAGAR	KHARAR	S-NPP	30.63360	76.70241	13:27:35	D	7.50
144	SAS NAGAR	KHARAR	JPSS-2	30.77256	76.54634	01:10:25	N	6.30
145	SBS NAGAR	NAWAN SHAHR	S-NPP	31.04317	76.22108	13:27:35	D	3.10
146	TARN TARAN	CHOHLA SAHIB	JPSS-1	31.27925	75.01839	01:10:29	N	4.00
147	TARN TARAN	CHOHLA SAHIB	S-NPP	31.28078	75.01424	13:27:35	D	8.60
148	TARN TARAN	CHOHLA SAHIB	S-NPP	31.28141	75.01827	13:27:35	D	6.60
149	TARN TARAN	CHOHLA SAHIB	JPSS-1	31.29019	74.96552	01:10:29	N	3.40
150	TARN TARAN	CHOHLA SAHIB	S-NPP	31.33168	75.07833	13:27:35	D	1.40
151	TARN TARAN	CHOHLA SAHIB	S-NPP	31.35111	75.11578	13:27:35	D	1.60
152	TARN TARAN	GANDIWIND TATLA	S-NPP	31.43679	74.66917	13:27:35	D	3.00
153	TARN TARAN	GANDIWIND TATLA	JPSS-1	31.45245	74.70812	01:10:29	N	4.30
154	TARN TARAN	GANDIWIND TATLA	S-NPP	31.53670	74.76067	13:27:35	D	5.20
155	TARN TARAN	GANDIWIND TATLA	JPSS-1	31.53865	74.70337	01:10:29	N	6.00
156	TARN TARAN	GANDIWIND TATLA	S-NPP	31.56163	74.75217	13:27:35	D	2.10
157	TARN TARAN	KHADUR SAHIB	AQUA	31.41300	75.05900	14:34:48	D	38.20
158	TARN TARAN	KHADUR SAHIB	S-NPP	31.35174	75.11981	13:27:35	D	4.10
159	TARN TARAN	KHADUR SAHIB	JPSS-1	31.39569	75.08338	02:10:46	N	0.70
160	TARN TARAN	KHADUR SAHIB	JPSS-2	31.42596	75.11525	01:10:25	N	4.70
161	TARN TARAN	KHADUR SAHIB	JPSS-1	31.43582	75.13157	01:10:29	N	1.70
162	TARN TARAN	KHADUR SAHIB	JPSS-1	31.43996	75.17049	01:10:29	N	3.60

163	TARN TARAN	KHADUR SAHIB	S-NPP	31.44071	75.17198	13:27:35	D	3.20
164	TARN TARAN	KHADUR SAHIB	S-NPP	31.44442	75.19613	13:27:35	D	5.70
165	TARN TARAN	KHADUR SAHIB	S-NPP	31.44767	75.06245	13:27:35	D	1.20
166	TARN TARAN	KHADUR SAHIB	JPSS-1	31.45416	75.14657	01:10:29	N	4.10
167	TARN TARAN	KHADUR SAHIB	S-NPP	31.50391	75.07607	13:27:35	D	3.40
168	TARN TARAN	NAUSHERA PANNUAN	JPSS-2	31.39739	74.87348	01:10:25	N	2.20
169	TARN TARAN	NAUSHERA PANNUAN	JPSS-2	31.40888	75.03304	01:10:25	N	4.60
170	TARN TARAN	PATTI	S-NPP	31.15262	74.82467	13:27:35	D	4.40
171	TARN TARAN	TARN TARAN	JPSS-1	31.34187	74.83160	01:10:29	N	4.90
172	TARN TARAN	TARN TARAN	JPSS-1	31.43480	74.89147	01:10:29	N	3.10
173	TARN TARAN	TARN TARAN	JPSS-1	31.45381	74.87602	01:10:29	N	3.60
174	TARN TARAN	TARN TARAN	JPSS-1	31.47685	74.86004	01:10:29	N	2.70
175	TARN TARAN	TARN TARAN	S-NPP	31.48484	74.90947	13:27:35	D	4.70
176	TARN TARAN	TARN TARAN	JPSS-1	31.50924	75.04861	01:10:29	N	2.50
177	TARN TARAN	TARN TARAN	S-NPP	31.50945	75.04577	13:27:35	D	3.20

Details of residue burning events in Haryana on 12-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-II	JPSS-1	30.32611	76.76265	01:10:29	N	7.10
2	AMBALA	BARARA	JPSS-2	30.15545	76.96274	01:10:25	N	5.80
3	AMBALA	BARARA	JPSS-2	30.19291	76.99290	01:10:25	N	2.30
4	AMBALA	NARAINGARH	JPSS-2	30.40575	77.14124	01:10:25	N	9.80
5	AMBALA	NARAINGARH	JPSS-1	30.45736	77.13637	01:10:29	N	4.90
6	AMBALA	NARAINGARH	S-NPP	30.45833	77.13358	13:27:35	D	1.40
7	AMBALA	NARAINGARH	S-NPP	30.46156	77.10757	13:27:35	D	3.20
8	AMBALA	NARAINGARH	S-NPP	30.48113	77.09966	13:27:35	D	3.60
9	AMBALA	NARAINGARH	S-NPP	30.48172	77.10378	13:27:35	D	3.60
10	AMBALA	NARAINGARH	JPSS-2	30.48708	77.13463	01:10:25	N	3.90
11	AMBALA	SAHA	S-NPP	30.28486	76.91343	13:27:35	D	3.80
12	FARIDABAD	BALLABGARH	S-NPP	28.28819	77.47745	13:27:35	D	2.40
13	FARIDABAD	FARIDABAD	JPSS-2	28.34646	77.23588	01:10:27	N	1.40
14	FARIDABAD	FARIDABAD	S-NPP	28.34762	77.23141	02:17:35	N	1.20
15	FATEHABAD	BHATTU KALAN	S-NPP	29.51493	75.31971	13:27:35	D	8.40
16	FATEHABAD	BHUNA	S-NPP	29.41797	75.76277	13:27:35	D	8.50
17	FATEHABAD	BHUNA	JPSS-1	29.56487	75.75391	01:10:29	N	4.20
18	FATEHABAD	TOHANA	AQUA	29.71600	75.90800	14:34:48	D	11.60
19	FATEHABAD	TOHANA	JPSS-1	29.64390	75.93195	01:10:29	N	3.00
20	FATEHABAD	TOHANA	JPSS-2	29.69242	75.84211	01:10:25	N	1.90
21	FATEHABAD	TOHANA	JPSS-2	29.70697	75.93437	01:10:25	N	4.20
22	FATEHABAD	TOHANA	S-NPP	29.71251	75.85104	13:27:35	D	5.90
23	FATEHABAD	TOHANA	S-NPP	29.71641	75.85432	13:27:35	D	26.00
24	HISAR	NARNAUND	JPSS-1	29.25519	76.14752	01:10:29	N	2.20
25	HISAR	NARNAUND	JPSS-1	29.25945	76.14697	01:10:29	N	2.20
26	HISAR	UKLANA	S-NPP	29.48167	75.80316	13:27:35	D	2.00
27	JIND	ALEWA	JPSS-2	29.48792	76.42502	01:10:25	N	2.10
28	JIND	ALEWA	S-NPP	29.54133	76.35674	13:27:35	D	11.00
29	JIND	JIND	JPSS-1	29.37777	76.34302	01:10:29	N	2.70
30	JIND	NARWANA	S-NPP	29.54473	76.03864	13:27:35	D	1.40
31	JIND	NARWANA	JPSS-1	29.54542	76.05839	01:10:29	N	7.70

32	JIND	NARWANA	S-NPP	29.64368	76.02323	13:27:35	D	3.40
33	JIND	NARWANA	JPSS-1	29.64462	76.02315	01:10:29	N	2.20
34	JIND	NARWANA	S-NPP	29.72638	76.14576	13:27:35	D	1.20
35	JIND	NARWANA	S-NPP	29.73259	76.00593	13:27:35	D	13.70
36	JIND	SAFIDON	S-NPP	29.47797	76.66265	13:27:35	D	3.70
37	KAITHAL	GUHLA	AQUA	30.03800	76.40000	14:34:48	D	9.00
38	KAITHAL	GUHLA	AQUA	30.07700	76.38800	14:34:48	D	7.90
39	KAITHAL	GUHLA	JPSS-2	29.96211	76.27097	01:10:25	N	2.40
40	KAITHAL	GUHLA	JPSS-1	29.98254	76.32824	01:10:29	N	4.10
41	KAITHAL	GUHLA	JPSS-1	29.98528	76.22214	01:10:29	N	4.50
42	KAITHAL	GUHLA	JPSS-2	29.99119	76.20962	01:10:25	N	2.20
43	KAITHAL	GUHLA	JPSS-2	29.99357	76.28347	01:10:25	N	4.40
44	KAITHAL	GUHLA	S-NPP	30.03153	76.39810	13:27:35	D	2.00
45	KAITHAL	GUHLA	JPSS-2	30.05228	76.37169	01:10:25	N	3.90
46	KAITHAL	GUHLA	S-NPP	30.05878	76.35173	13:27:35	D	2.20
47	KAITHAL	GUHLA	JPSS-2	30.16471	76.42519	01:10:25	N	6.60
48	KAITHAL	KAITHAL	JPSS-1	29.70686	76.46952	01:10:29	N	5.70
49	KAITHAL	KAITHAL	JPSS-1	29.77589	76.49507	01:10:29	N	2.20
50	KAITHAL	KAITHAL	S-NPP	29.78349	76.27734	13:27:35	D	2.70
51	KAITHAL	KAITHAL	JPSS-2	29.81557	76.30831	01:10:25	N	3.30
52	KAITHAL	KAITHAL	S-NPP	29.82673	76.40797	13:27:35	D	0.50
53	KAITHAL	KALAYAT	JPSS-1	29.72430	76.25075	01:10:29	N	8.70
54	KAITHAL	PUNDRI	JPSS-1	29.75509	76.64134	01:10:29	N	4.70
55	KAITHAL	PUNDRI	S-NPP	29.85747	76.57023	13:27:35	D	3.50
56	KAITHAL	RAJOUND	JPSS-1	29.52313	76.50451	01:10:29	N	4.70
57	KAITHAL	RAJOUND	S-NPP	29.64848	76.52792	13:27:35	D	1.80
58	KAITHAL	SIWAN	S-NPP	29.90979	76.33125	13:27:35	D	6.60
59	KAITHAL	SIWAN	S-NPP	29.91284	76.19153	13:27:35	D	3.30
60	KARNAL	ASSANDH	S-NPP	29.50063	76.65422	13:27:35	D	2.40
61	KARNAL	CHIRAO	S-NPP	29.63789	76.73506	13:27:35	D	2.20
62	KARNAL	GHARAUNDA	JPSS-2	29.50629	76.89300	01:10:25	N	6.60
63	KARNAL	KARNAL	S-NPP	29.69599	76.94680	13:27:35	D	8.40
64	KURUKSHETRA	BABAIN	JPSS-2	30.15895	77.00147	01:10:25	N	5.60
65	KURUKSHETRA	ISMAILABAD	S-NPP	30.19631	76.78791	13:27:35	D	9.70
66	KURUKSHETRA	LADWA	JPSS-2	30.00147	76.98158	01:10:25	N	3.00

67	KURUKSHETRA	LADWA	S-NPP	30.03730	77.04240	13:27:35	D	1.40
68	KURUKSHETRA	PEHOWA	S-NPP	30.03393	76.48396	13:27:35	D	2.40
69	KURUKSHETRA	SHAHBAD	S-NPP	30.10586	76.90891	13:27:35	D	3.40
70	KURUKSHETRA	THANESAR	AQUA	29.95400	76.72700	14:34:48	D	21.50
71	KURUKSHETRA	THANESAR	JPSS-1	29.90885	76.81497	01:10:29	N	8.20
72	KURUKSHETRA	THANESAR	JPSS-1	29.98443	76.84708	01:10:29	N	4.10
73	KURUKSHETRA	THANESAR	JPSS-1	30.05912	76.84547	01:10:29	N	3.30
74	KURUKSHETRA	THANESAR	S-NPP	30.06260	76.84637	13:27:35	D	4.30
75	PALWAL	HASSANPUR	S-NPP	27.97500	77.50444	13:27:35	D	4.80
76	PALWAL	HASSANPUR	JPSS-2	27.99022	77.51768	01:10:25	N	5.60
77	PALWAL	HODAL	JPSS-2	27.94519	77.44922	01:10:25	N	2.40
78	PANCHKULA	RAIPUR RANI	JPSS-1	30.48293	76.96239	01:10:29	N	4.70
79	PANCHKULA	RAIPUR RANI	S-NPP	30.55553	77.00674	13:27:35	D	2.90
80	PANIPAT	MADLAUDA	S-NPP	29.40253	76.91002	13:27:35	D	2.90
81	PANIPAT	PANIPAT	JPSS-1	29.41120	77.00345	01:10:29	N	3.70
82	PANIPAT	PANIPAT	JPSS-2	29.45764	77.05508	01:10:25	N	3.20
83	ROHTAK	ROHTAK	JPSS-1	28.86308	76.53949	01:10:29	N	2.50
84	ROHTAK	ROHTAK	S-NPP	28.86493	76.53719	13:27:35	D	2.30
85	ROHTAK	ROHTAK	JPSS-1	28.87273	76.54782	01:10:29	N	4.30
86	SIRSA	SIRSA	S-NPP	29.56687	75.13309	13:27:35	D	3.40
87	SONIPAT	GANAUR	S-NPP	29.12692	76.94033	13:27:35	D	5.10
88	SONIPAT	GANAUR	S-NPP	29.13792	76.92188	13:27:35	D	1.90
89	SONIPAT	GANAUR	S-NPP	29.15387	76.98449	13:27:35	D	2.40
90	SONIPAT	GANAUR	JPSS-2	29.19087	76.96699	01:10:25	N	5.70
91	SONIPAT	GANAUR	S-NPP	29.20127	76.91856	13:27:35	D	2.30
92	SONIPAT	MUNDLANA	JPSS-2	29.20866	76.68169	01:10:25	N	5.60
93	SONIPAT	MURTHAL	JPSS-2	28.96595	77.14831	01:10:25	N	4.60
94	SONIPAT	RAI	S-NPP	28.84929	77.16019	02:17:35	N	1.00
95	SONIPAT	RAI	S-NPP	28.85121	77.16335	02:17:35	N	0.70
96	YAMUNANAGAR	BILASPUR	S-NPP	30.31778	77.26965	13:27:35	D	1.60
97	YAMUNANAGAR	BILASPUR	S-NPP	30.33385	77.21150	13:27:35	D	2.10
98	YAMUNANAGAR	MUSTAFABAD	S-NPP	30.28464	77.16499	13:27:35	D	7.80
99	YAMUNANAGAR	RADAUR	JPSS-1	30.09086	77.08497	01:10:29	N	3.50

Details of residue burning events in Uttar Pradesh on 12-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	ATRAULI	S-NPP	28.04648	78.39243	13:27:35	D	1.80
2	ALIGARH	GABHANA	S-NPP	28.06504	77.99651	13:27:35	D	4.90
3	ALIGARH	GABHANA	S-NPP	28.06561	78.00060	13:27:35	D	4.90
4	ALIGARH	GABHANA	JPSS-2	28.06851	77.86043	01:10:27	N	0.60
5	ALIGARH	GABHANA	S-NPP	28.06870	77.85995	02:17:35	N	0.30
6	ALIGARH	GABHANA	JPSS-1	28.06956	77.85605	02:10:46	N	0.80
7	ALIGARH	GABHANA	S-NPP	28.10238	77.81905	13:27:35	D	3.10
8	ALIGARH	KHAIR	S-NPP	27.94336	77.60810	13:27:35	D	3.40
9	ALIGARH	KHAIR	S-NPP	27.98272	77.66668	13:27:35	D	2.20
10	ALIGARH	KHAIR	S-NPP	27.98929	77.78506	13:27:35	D	6.40
11	ALIGARH	KHAIR	JPSS-1	27.99969	77.76963	01:10:29	N	2.80
12	ALIGARH	KHAIR	S-NPP	28.01119	77.68658	13:27:35	D	3.00
13	ALIGARH	KHAIR	S-NPP	28.05796	77.60409	13:27:35	D	5.60
14	ALIGARH	KHAIR	S-NPP	28.06945	77.54047	13:27:35	D	5.90
15	ALIGARH	KHAIR	JPSS-2	28.07443	77.55098	01:10:25	N	6.80
16	ALIGARH	KOL	JPSS-1	27.82390	78.11891	01:10:29	N	3.70
17	AMROHA	AMROHA	S-NPP	28.79479	78.55196	13:27:35	D	2.20
18	AMROHA	AMROHA	JPSS-2	28.81793	78.55663	01:10:25	N	3.60
19	BADAUN	BISAUJI	JPSS-1	28.28875	79.07679	01:10:29	N	2.00
20	BADAUN	BISAUJI	S-NPP	28.36306	78.70535	13:27:35	D	1.70
21	BADAUN	BISAUJI	JPSS-2	28.36935	78.96613	01:10:25	N	3.60
22	BADAUN	DATAGANJ	JPSS-2	28.03558	79.32887	01:10:25	N	2.00
23	BAGHPAT	BAGHPAT	S-NPP	28.90800	77.40797	13:27:35	D	4.40
24	BARABANKI	FATEHPUR	S-NPP	27.11256	81.22538	13:27:35	D	6.30
25	BARABANKI	FATEHPUR	JPSS-2	27.12357	81.26592	01:10:25	N	3.30
26	BARABANKI	FATEHPUR	JPSS-2	27.18769	81.17971	01:10:25	N	4.20
27	BARABANKI	FATEHPUR	JPSS-2	27.19370	81.17436	01:10:25	N	3.70
28	BARABANKI	FATEHPUR	JPSS-1	27.31516	81.25124	01:10:29	N	6.60
29	BARABANKI	FATEHPUR	JPSS-1	27.31740	81.25285	01:10:29	N	7.60
30	BARABANKI	RAMNAGAR	JPSS-1	27.08694	81.32570	01:10:29	N	1.70
31	BARABANKI	RAMNAGAR	JPSS-2	27.09081	81.29718	01:10:25	N	3.50

32	BAREILLY	BAHERI	JPSS-2	28.81674	79.44069	01:10:27	N	1.30
33	BULANSAHAR	ANUP SHAHR	S-NPP	28.42027	78.12311	02:17:35	N	1.60
34	BULANSAHAR	ANUP SHAHR	JPSS-1	28.42209	78.11994	02:10:46	N	1.20
35	BULANSAHAR	ANUP SHAHR	JPSS-1	28.42396	78.12318	02:10:46	N	0.90
36	BULANSAHAR	SHIKARPUR	S-NPP	28.26527	78.08464	13:27:35	D	2.00
37	BULANSAHAR	SIKANDARABAD	JPSS-1	28.39422	77.68017	01:10:29	N	4.90
38	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	JPSS-1	28.47656	77.47007	01:10:29	N	3.30
39	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	JPSS-1	28.47715	77.47336	01:10:29	N	5.20
40	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.19938	77.53862	13:27:35	D	4.40
41	HAPUR	HAPUR	S-NPP	28.72643	77.72340	13:27:35	D	3.60
42	HAPUR	HAPUR	JPSS-2	28.74977	77.84312	01:10:25	N	2.90
43	HARDOI	BILGRAM	S-NPP	27.06625	80.15904	13:27:35	D	2.70
44	HARDOI	BILGRAM	S-NPP	27.14648	80.21068	13:27:35	D	2.60
45	HARDOI	BILGRAM	JPSS-2	27.36864	79.97618	01:10:25	N	2.50
46	HARDOI	HARDOI	JPSS-2	27.40917	80.00417	01:10:27	N	1.40
47	HARDOI	SHAHABAD	JPSS-2	27.55501	79.94550	01:10:25	N	2.10
48	HATHRAS	HATHRAS	JPSS-2	27.61682	78.22010	01:10:25	N	5.90
49	HATHRAS	SIKANDRA RAO	S-NPP	27.58927	78.33311	13:27:35	D	6.10
50	HATHRAS	SIKANDRA RAO	S-NPP	27.59099	78.37080	13:27:35	D	3.80
51	HATHRAS	SIKANDRA RAO	S-NPP	27.62998	78.25031	13:27:35	D	2.90
52	KANNAUJ	CHHIBRAMAU	S-NPP	26.96107	79.42590	13:27:35	D	5.70
53	KHERI	GOLA	JPSS-2	28.20094	80.42028	01:10:25	N	3.00
54	KHERI	MOHMADI	S-NPP	27.87823	80.16138	13:27:35	D	3.60
55	MAINPURI	BHOGAON	S-NPP	27.16889	79.20666	13:27:35	D	6.70
56	MAINPURI	BHOGAON	JPSS-2	27.19302	79.06464	01:10:25	N	4.60
57	MAINPURI	MAINPURI	JPSS-1	27.15980	78.95174	01:10:29	N	4.60
58	MATHURA	CHHATA	JPSS-2	27.59155	77.44956	01:10:25	N	4.60
59	MATHURA	CHHATA	S-NPP	27.72577	77.59787	13:27:35	D	3.20
60	MATHURA	CHHATA	JPSS-2	27.77913	77.42886	01:10:25	N	4.60
61	MATHURA	CHHATA	S-NPP	27.80549	77.51855	13:27:35	D	3.80
62	MATHURA	CHHATA	S-NPP	27.82000	77.52407	13:27:35	D	4.40
63	MATHURA	CHHATA	JPSS-2	27.82116	77.52135	01:10:25	N	10.10
64	MATHURA	CHHATA	JPSS-1	27.83825	77.58114	01:10:29	N	2.60
65	MATHURA	CHHATA	S-NPP	27.85989	77.50468	13:27:35	D	8.50
66	MATHURA	CHHATA	JPSS-2	27.86118	77.50044	01:10:25	N	7.80
67	MEERUT	MEERUT	S-NPP	28.79812	77.86235	13:27:35	D	2.90

68	MUZAFARNAGAR	JANSATH	S-NPP	29.28369	78.05242	13:27:35	D	3.20
69	PILHIBHIT	BISALPUR	S-NPP	28.48340	79.93584	13:27:35	D	2.50
70	PILHIBHIT	PURANPUR	JPSS-2	28.53273	80.04934	01:10:25	N	1.90
71	RAMPUR	MILAK	JPSS-2	28.56824	79.11797	01:10:27	N	0.80
72	RAMPUR	MILAK	JPSS-1	28.58514	79.11833	01:10:29	N	2.20
73	RAMPUR	MILAK	S-NPP	28.66721	79.16484	13:27:35	D	3.30
74	SAMBHAL	CHANDAUSI	JPSS-2	28.38976	78.71718	01:10:25	N	2.20
75	SAMBHAL	CHANDAUSI	JPSS-2	28.46199	78.73625	01:10:25	N	3.10
76	SAMBHAL	CHANDAUSI	JPSS-2	28.47200	78.70956	01:10:25	N	4.70
77	SAMBHAL	CHANDAUSI	S-NPP	28.48445	78.70300	13:27:35	D	4.80
78	SAMBHAL	CHANDAUSI	JPSS-1	28.49685	78.69163	01:10:29	N	7.80
79	SAMBHAL	CHANDAUSI	JPSS-1	28.49807	78.68959	01:10:29	N	4.00
80	SAMBHAL	SAMBHAL	JPSS-2	28.55372	78.63834	01:10:25	N	2.30
81	SAMBHAL	SAMBHAL	JPSS-2	28.57263	78.61924	01:10:25	N	3.00
82	SAMBHAL	SAMBHAL	S-NPP	28.62856	78.44681	13:27:35	D	2.70
83	SAMBHAL	SAMBHAL	S-NPP	28.66068	78.64824	13:27:35	D	9.50
84	SAMBHAL	SAMBHAL	S-NPP	28.66293	78.64707	13:27:35	D	8.90
85	SAMBHAL	SAMBHAL	JPSS-2	28.67644	78.60752	01:10:25	N	2.20
86	SAMBHAL	SAMBHAL	JPSS-2	28.67888	78.49824	01:10:25	N	5.30
87	SAMBHAL	SAMBHAL	JPSS-2	28.70793	78.45163	01:10:25	N	2.40
88	SAMBHAL	SAMBHAL	JPSS-2	28.79859	78.63475	01:10:25	N	2.20
89	SHAHJAHANPUR	JALALABAD	JPSS-2	27.74868	79.64596	01:10:25	N	2.80
90	SHAHJAHANPUR	PUWANYA	JPSS-2	28.23601	80.08939	01:10:25	N	1.20
91	SHAHJAHANPUR	PUWANYA	JPSS-2	28.24194	80.08236	01:10:27	N	0.30
92	SHAHJAHANPUR	PUWANYA	S-NPP	28.26900	80.05891	13:27:35	D	3.80
93	SHAHJAHANPUR	SHAHJAHANPUR	JPSS-1	27.74275	79.88441	01:10:29	N	3.70
94	SHAHJAHANPUR	SHAHJAHANPUR	JPSS-1	27.74340	79.88525	01:10:29	N	4.10
95	SHAHJAHANPUR	SHAHJAHANPUR	JPSS-2	27.79294	79.71322	01:10:25	N	3.50
96	SHAHJAHANPUR	TILHAR	S-NPP	27.95001	79.64421	13:27:35	D	2.80
97	SHAHJAHANPUR	TILHAR	JPSS-2	28.06855	79.93649	01:10:25	N	4.20
98	SHAMLI	KAIRANA	JPSS-1	29.32707	77.24299	01:10:29	N	2.20
99	SHAMLI	SHAMLI	S-NPP	29.56526	77.29527	13:27:35	D	5.90
100	SHARANPUR	NAKUR	S-NPP	29.88801	77.36692	13:27:35	D	3.50
101	SHARANPUR	NAKUR	S-NPP	29.88916	77.36735	13:27:35	D	3.80
102	SITAPUR	MAHMUDABAD	S-NPP	27.32200	81.25007	13:27:35	D	7.20

Details of residue burning events in Rajasthan on 12-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	HANUMANGARH	HANUMANGARH	AQUA	29.56800	74.19500	14:34:48	D	6.40
2	HANUMANGARH	HANUMANGARH	JPSS-1	29.47867	74.40999	01:10:29	N	8.10
3	HANUMANGARH	HANUMANGARH	S-NPP	29.48132	74.41106	13:27:35	D	12.70
4	HANUMANGARH	HANUMANGARH	JPSS-2	29.48229	74.40673	01:10:25	N	4.80
5	HANUMANGARH	HANUMANGARH	JPSS-1	29.59508	74.31776	01:10:29	N	4.80
6	HANUMANGARH	HANUMANGARH	JPSS-1	29.59893	74.31719	01:10:29	N	4.40
7	HANUMANGARH	TIBI	JPSS-2	29.49879	74.41823	01:10:25	N	6.40
8	HANUMANGARH	TIBI	JPSS-1	29.52887	74.43625	01:10:29	N	4.60
9	HANUMANGARH	TIBI	S-NPP	29.54349	74.47358	13:27:35	D	2.50
10	HANUMANGARH	TIBI	S-NPP	29.57748	74.54720	13:27:35	D	2.90
11	HANUMANGARH	TIBI	JPSS-1	29.59413	74.48072	01:10:29	N	2.70
12	HANUMANGARH	TIBI	JPSS-2	29.60320	74.43378	01:10:25	N	11.00
13	SWAIMADHOPUR	KHANDAR	S-NPP	26.03377	76.74540	13:27:35	D	3.80

Details of residue burning events in Madhya Pradesh on 12-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BETUL	BHAINSDEHI	S-NPP	21.52490	77.88450	13:27:35	D	2.90
2	BETUL	MULTAI	S-NPP	21.56910	77.95300	13:27:35	D	2.20
3	SHAJAPUR	SUJALPUR	JPSS-1	23.33895	76.65388	01:10:29	N	3.20
4	VIDESHA	LETERI	S-NPP	24.29474	77.34573	13:27:35	D	2.90
5	VIDESHA	LETERI	S-NPP	24.29805	77.34513	13:27:35	D	8.40

Details of residue burning events in Delhi on 12-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	NORTH	ALIPUR	JPSS-1	28.83536	77.19922	01:10:29	N	2.4
2	NORTH	ALIPUR	S-NPP	28.83670	77.19827	13:27:35	D	2.1

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

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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](#)
