

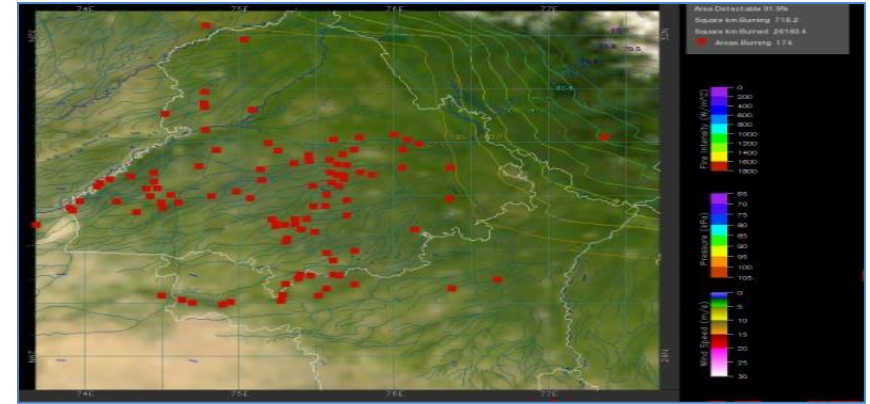
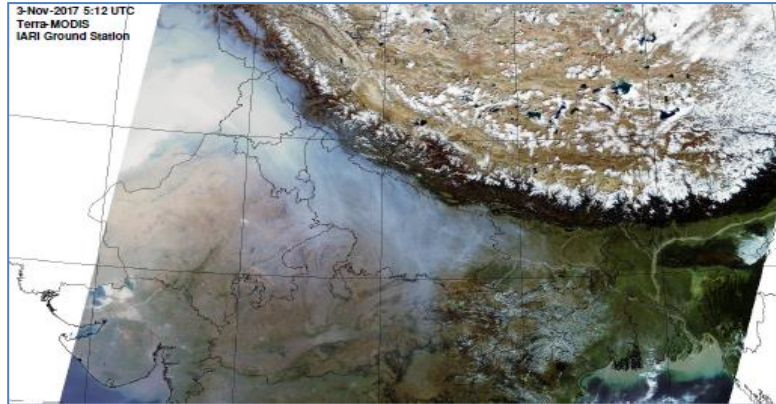


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin
No. 31

Events Date:
15-Oct-2024

Issued on:
15-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

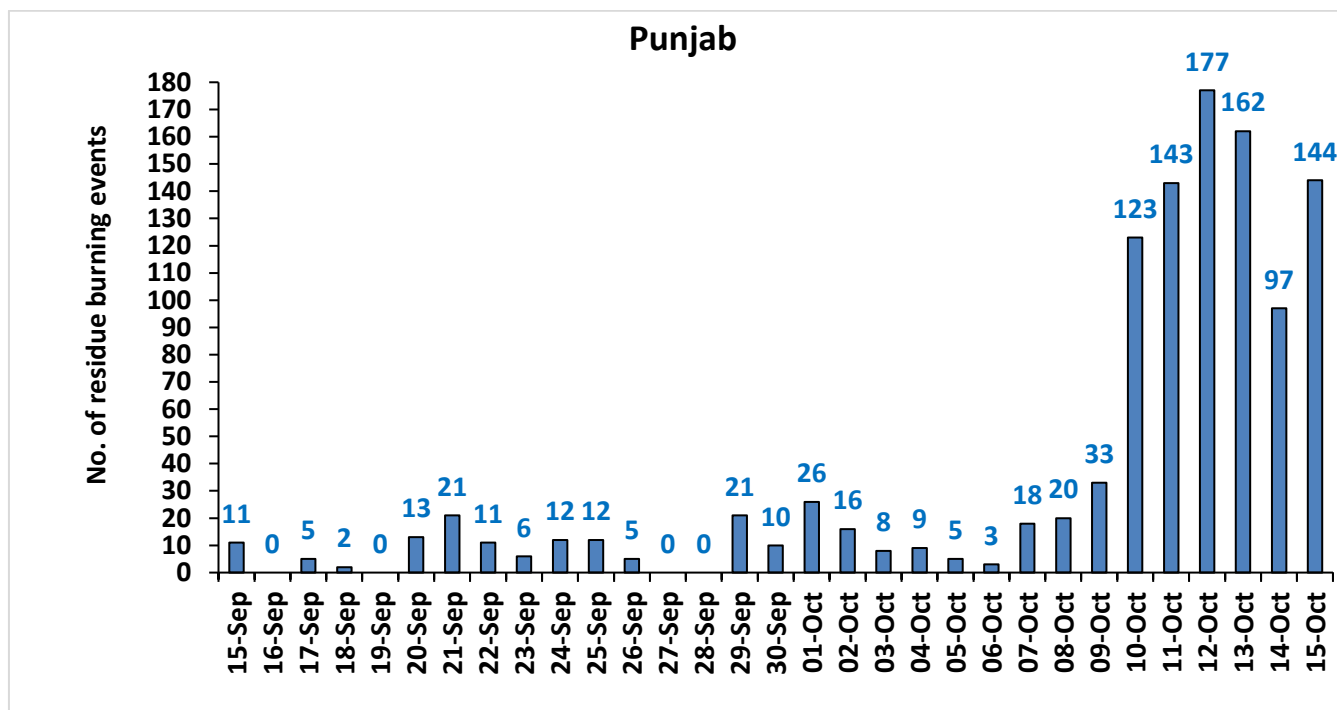
<https://creams.iari.res.in>



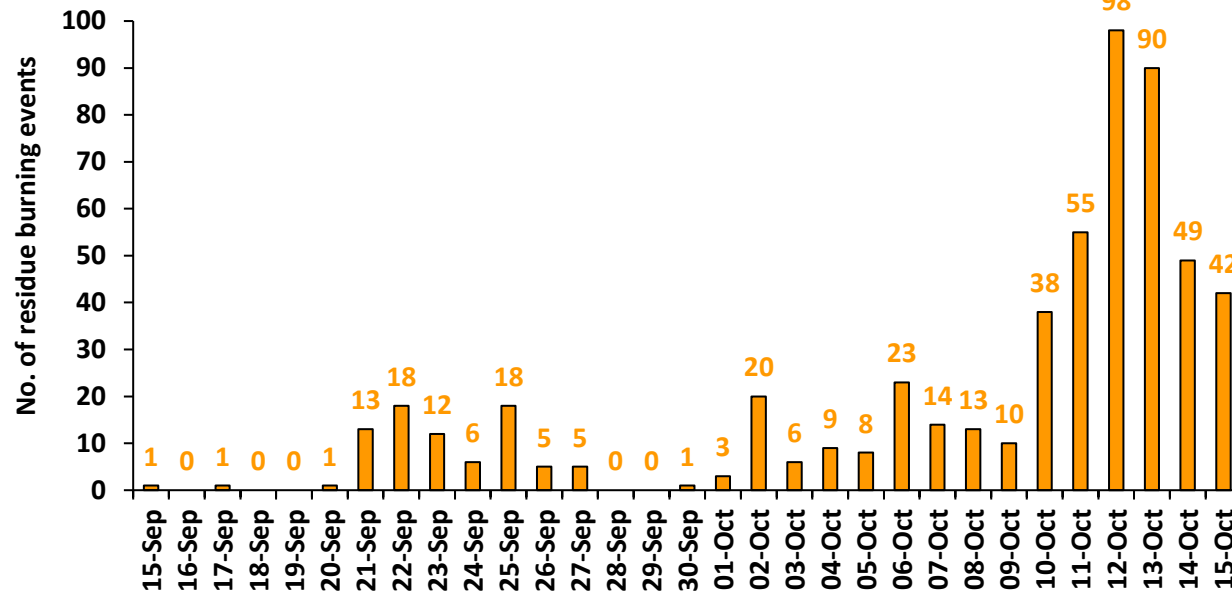
Highlights for 15-Oct-2024

- 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 **298** residue burning events in the six study States on **15-Oct-2024**.
- The state wise events detected on **15-Oct-2024** were **144** in Punjab, **42** in Haryana, **78** in UP, **00** in Delhi, **23** in Rajasthan and **11** in MP.
- Total **2399** burning events were detected in the six states between **15-Sept-2024** and **15-Oct-2024**, which are distributed as **1113**, **559**, **528**, **07**, **93** and **99** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Detection of burning events was hampered by the presence of scattered clouds over parts of southern Madhya Pradesh state.

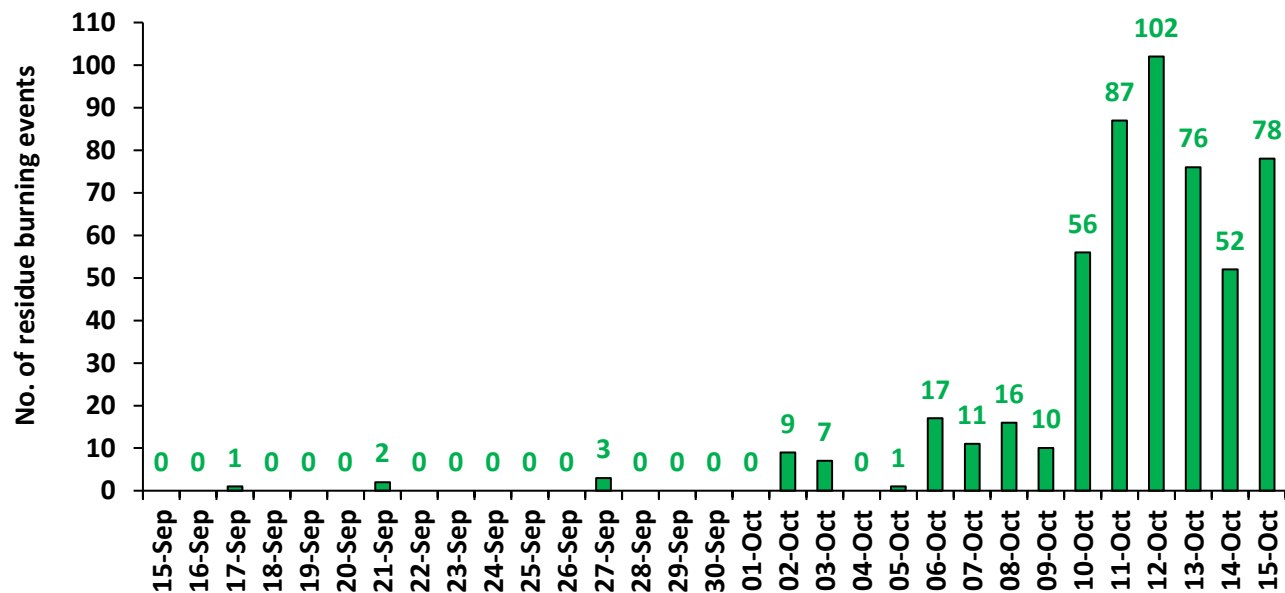
Temporal distribution of rice residue burning events for the study States in 2024



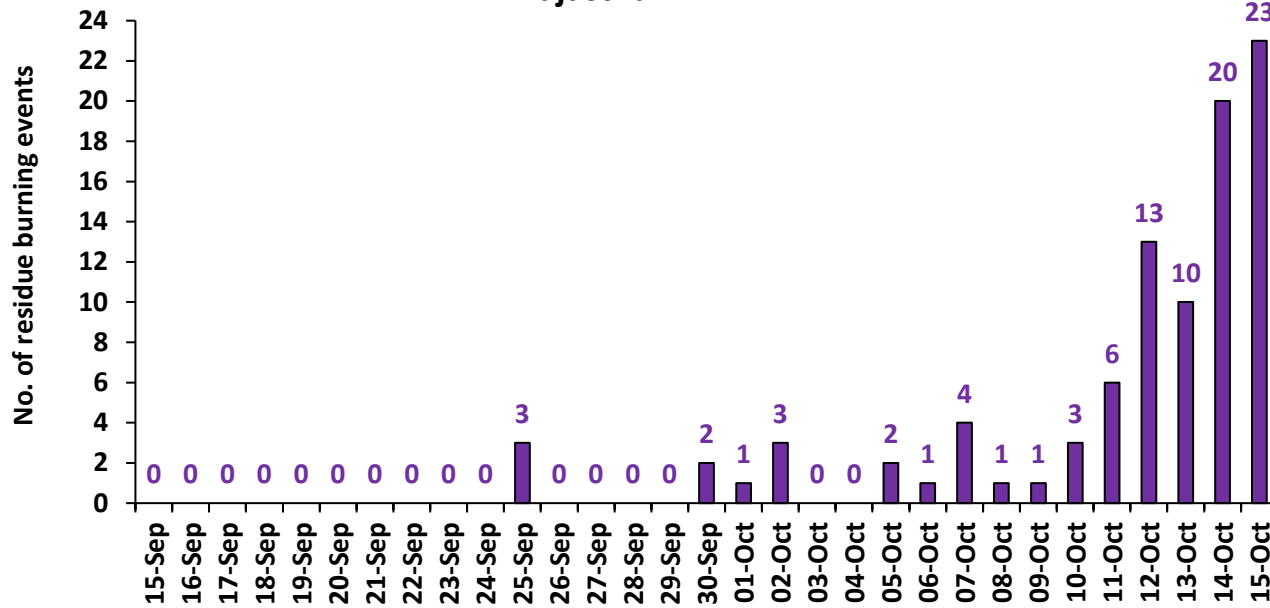
Haryana



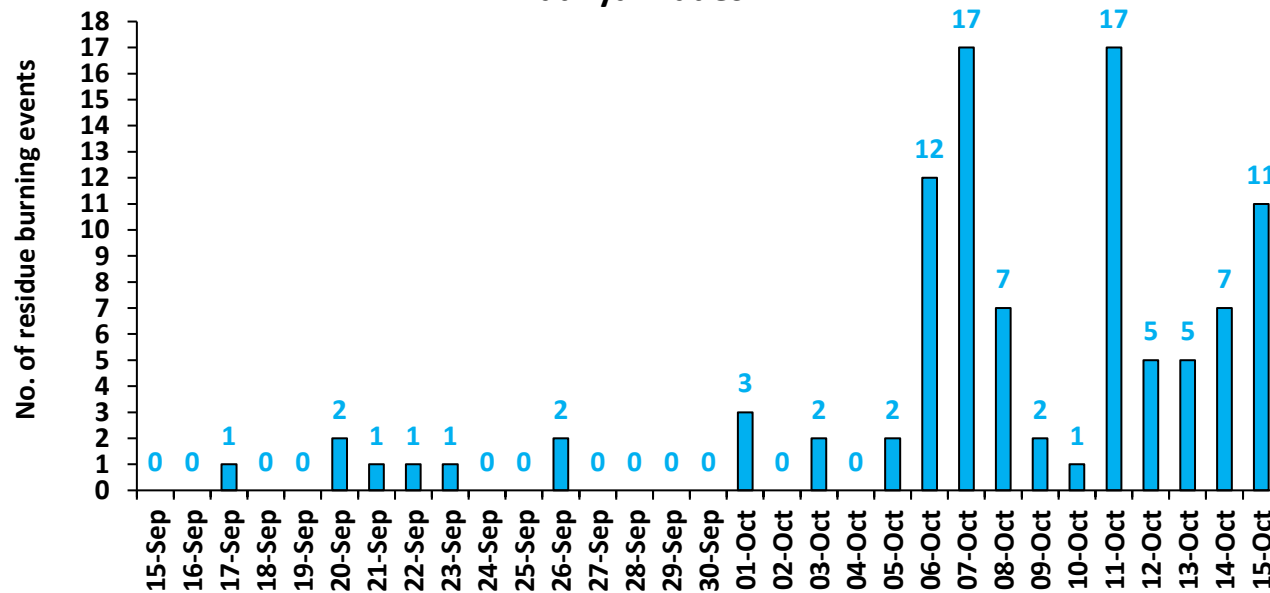
Uttar Pradesh



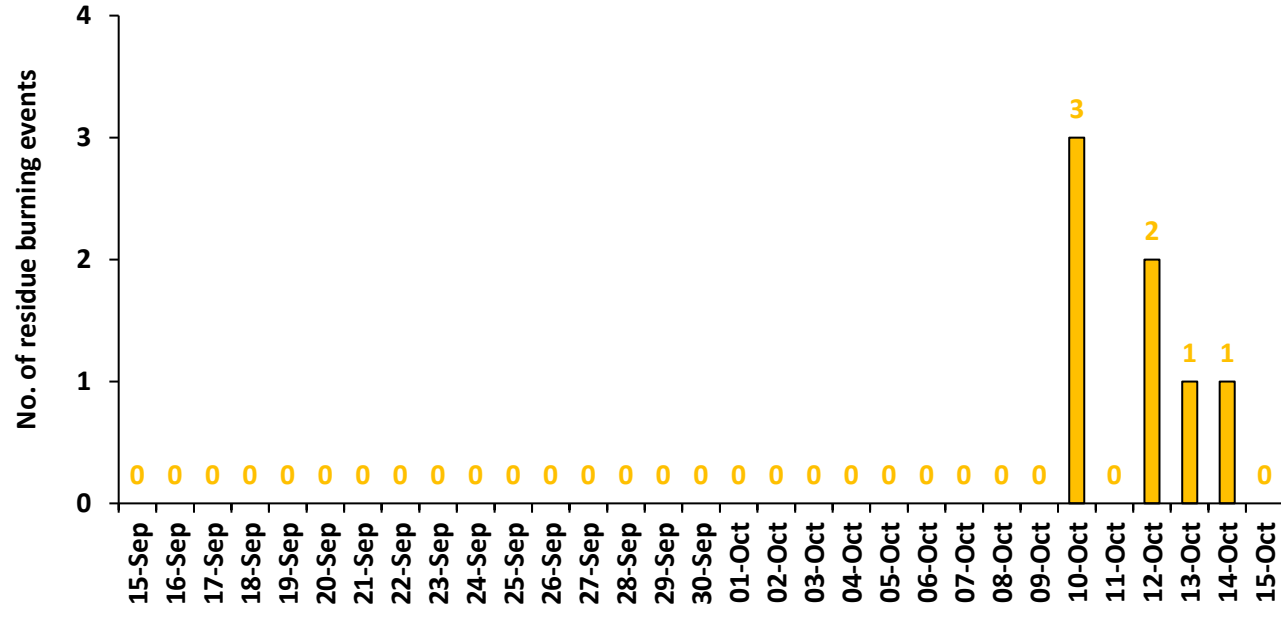
Rajasthan



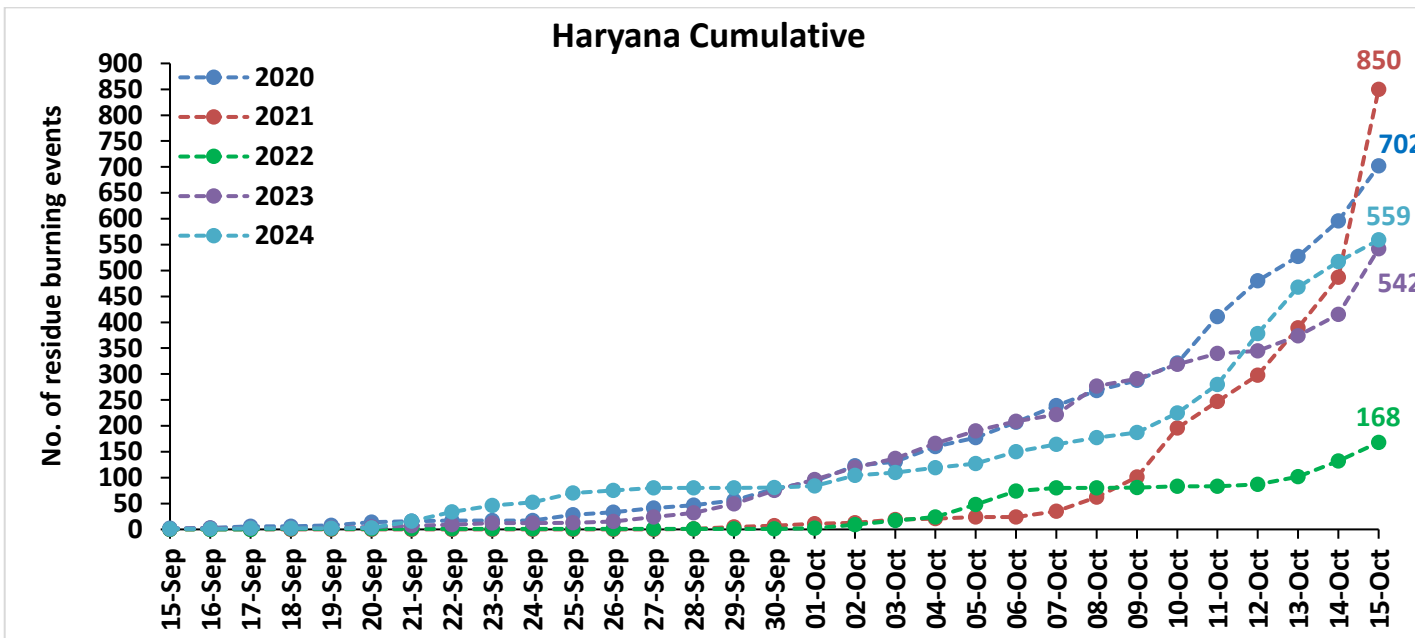
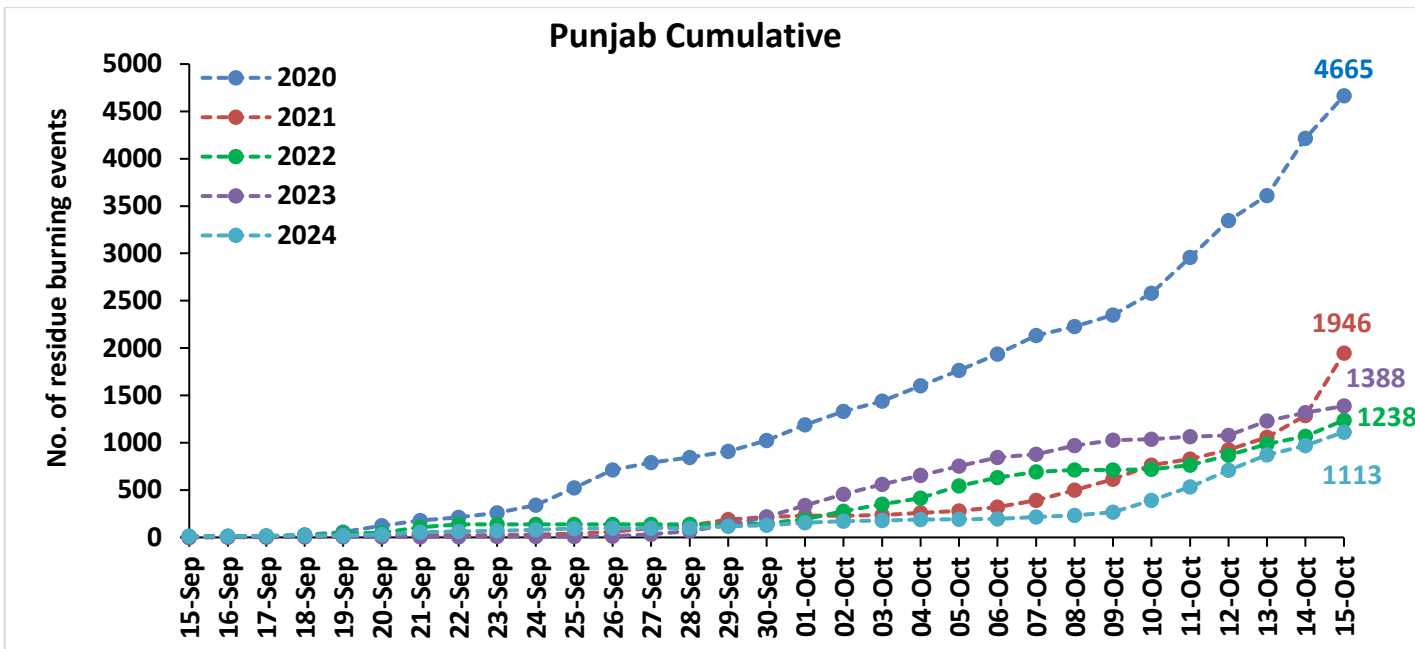
Madhya Pradesh

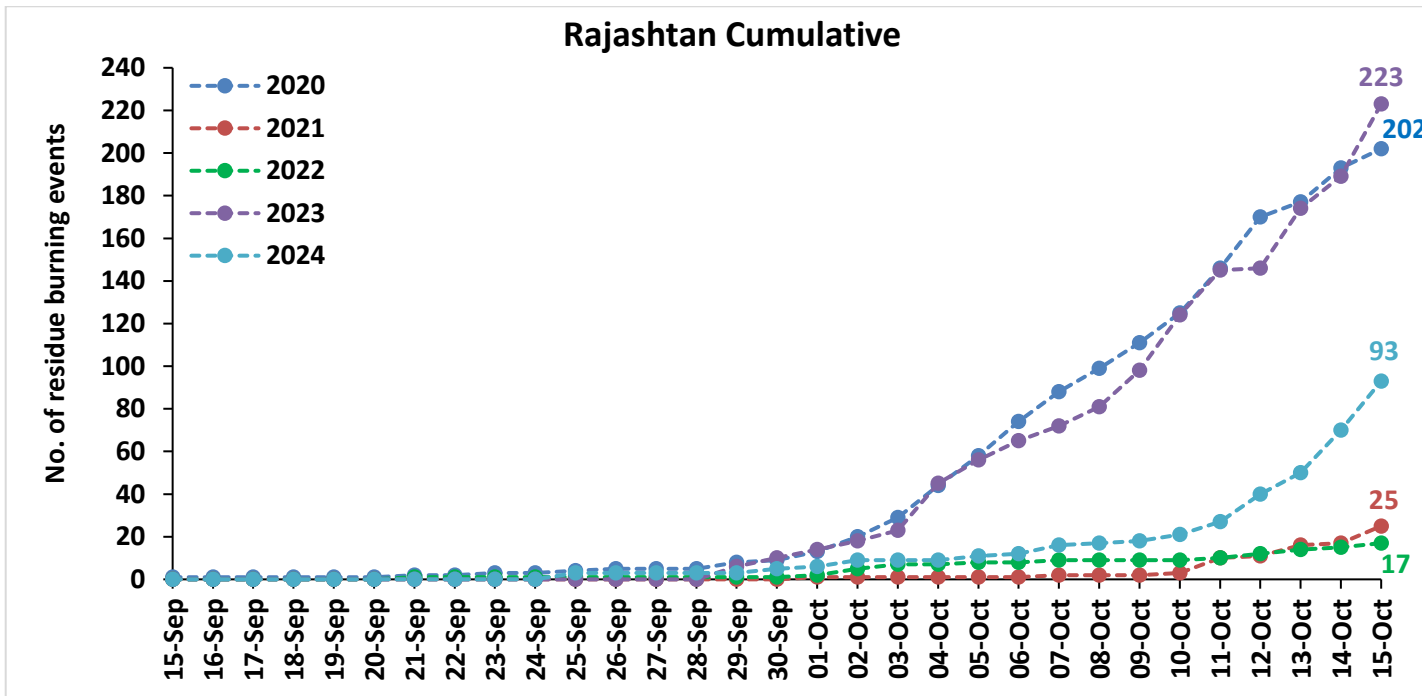
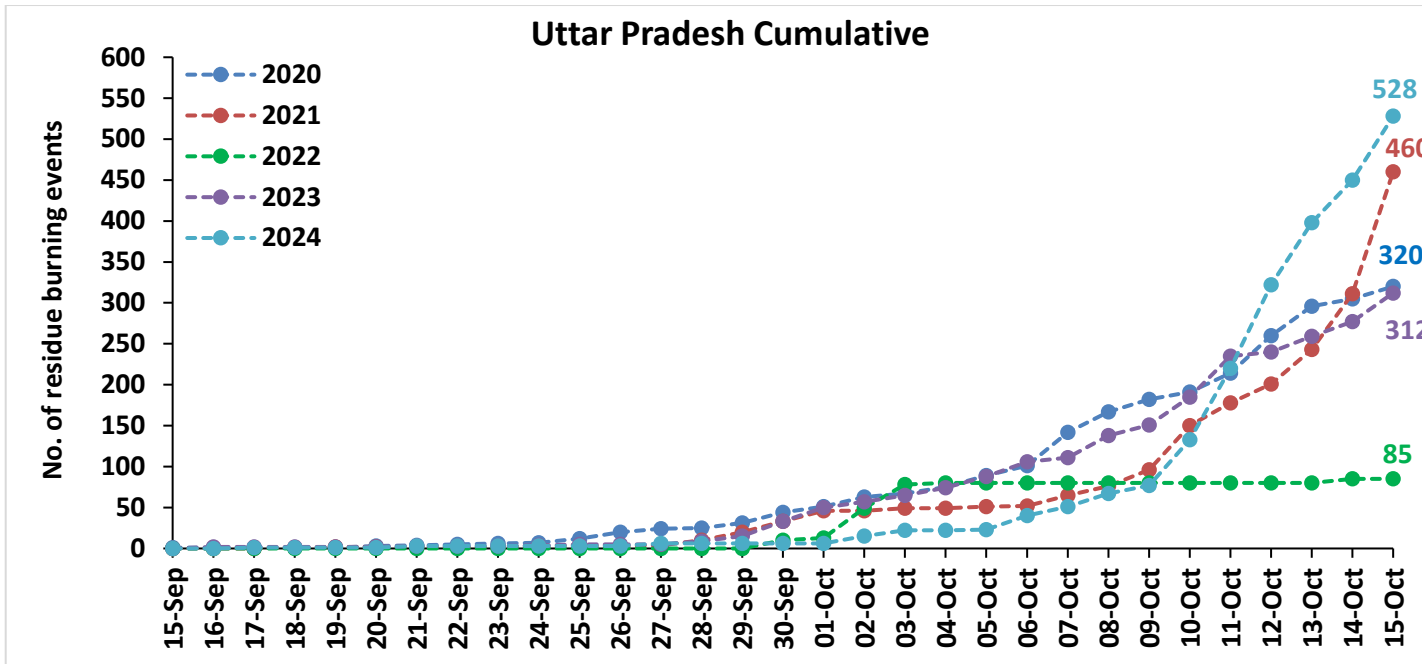


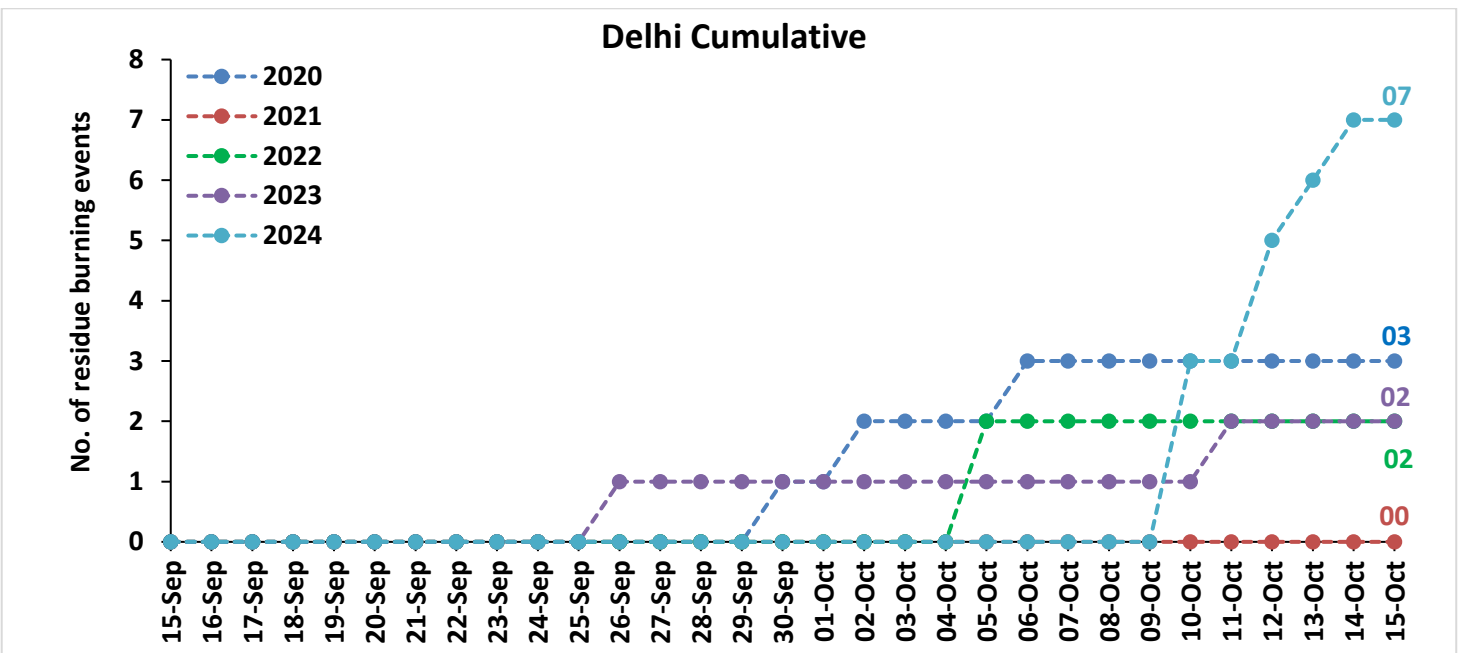
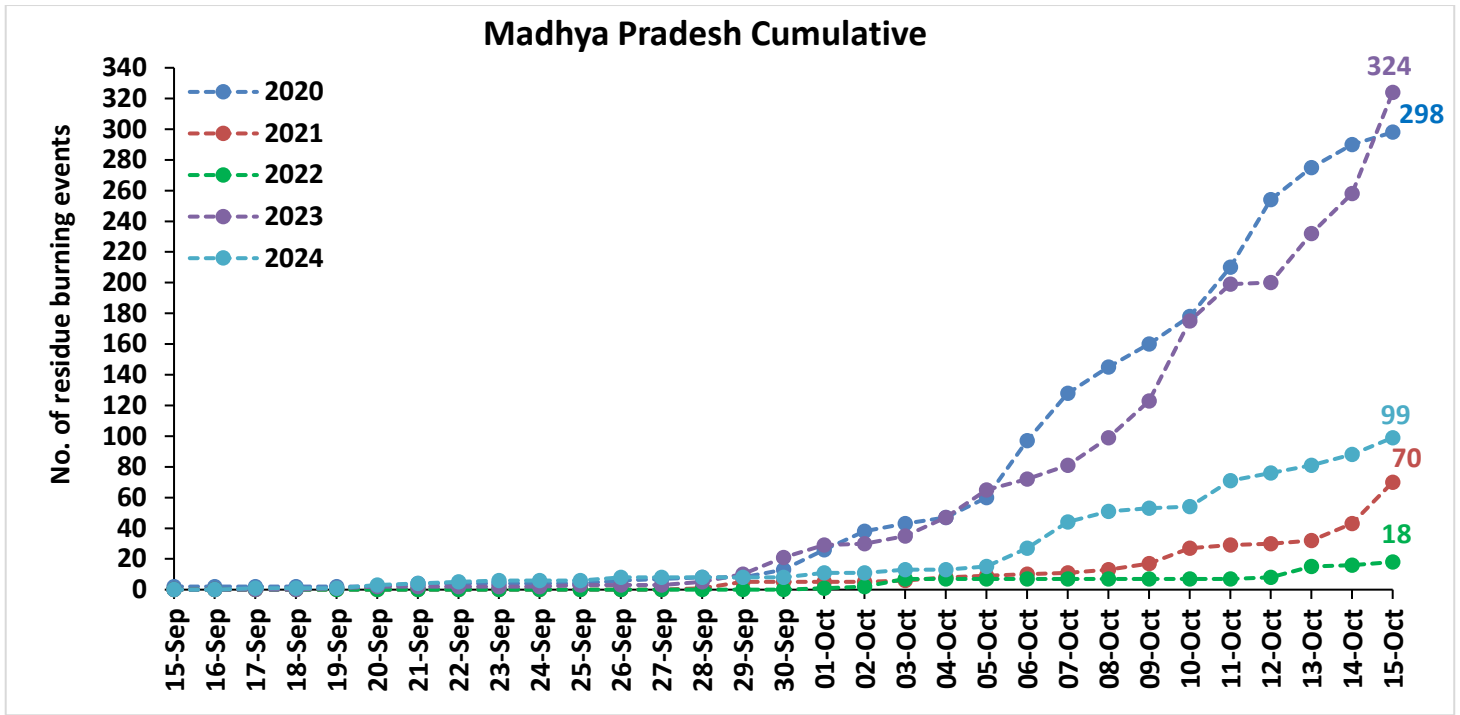
Delhi



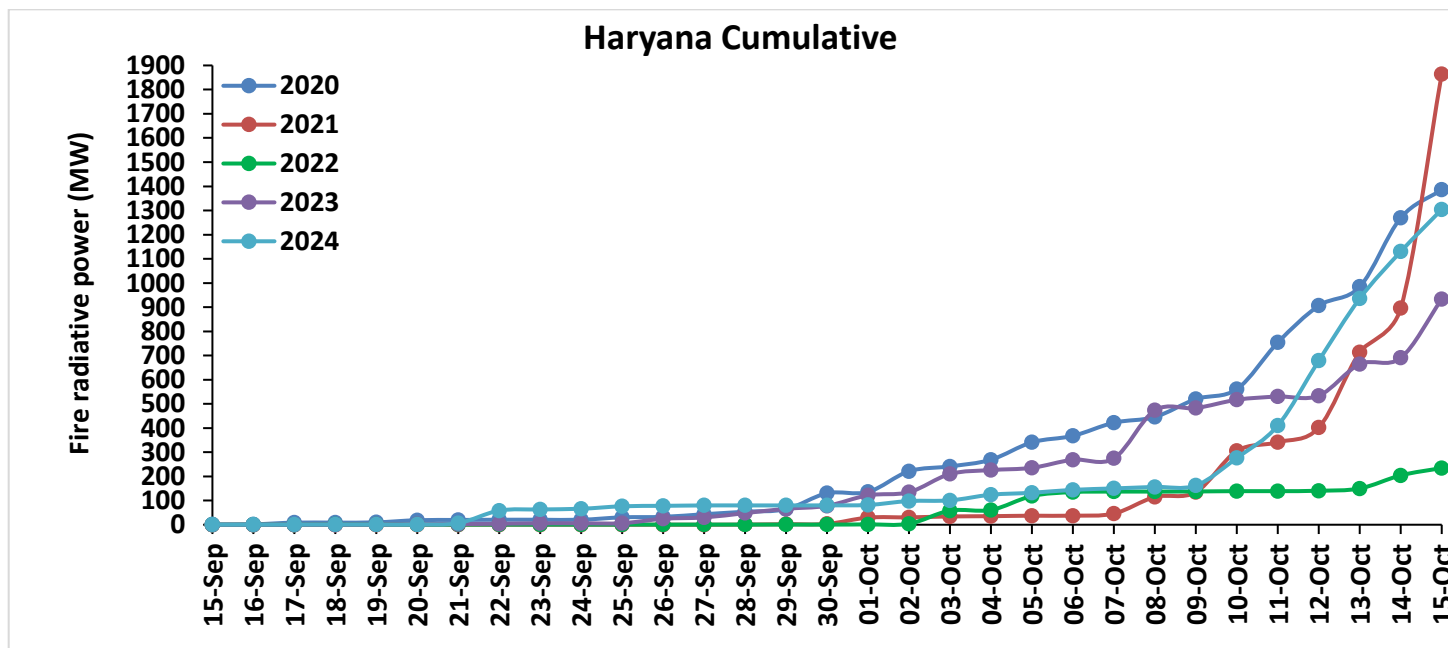
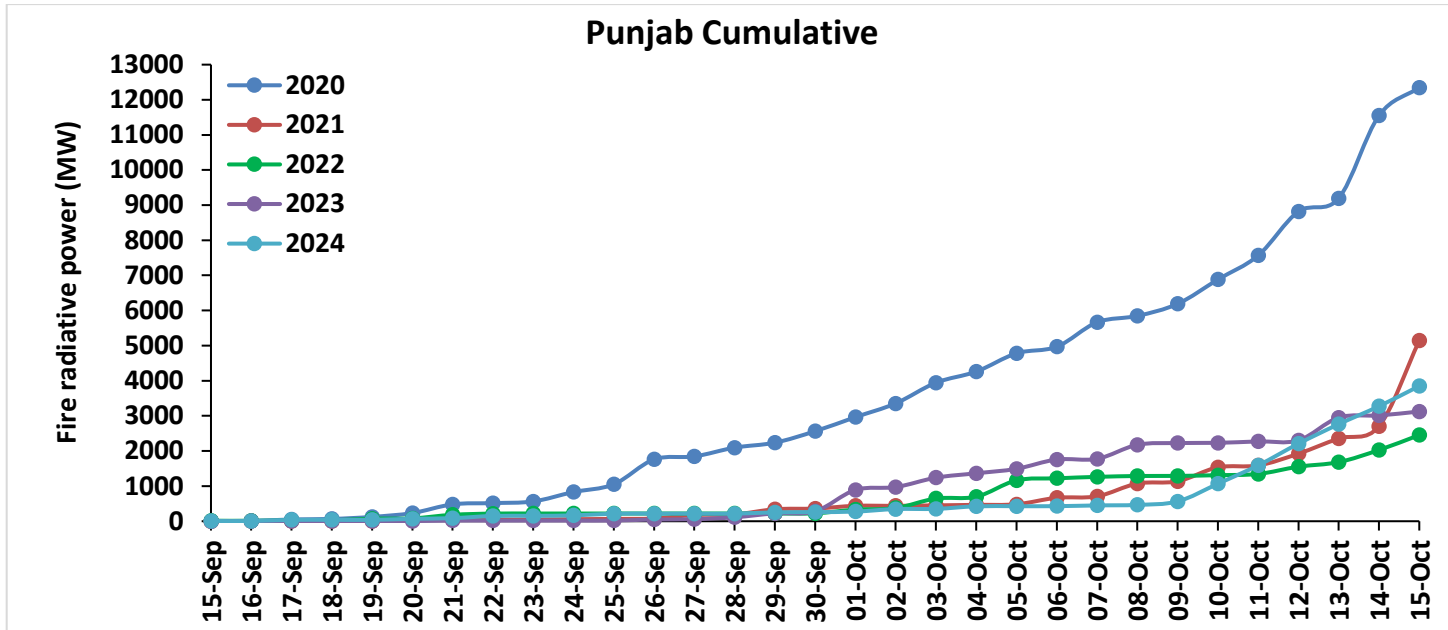
Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States

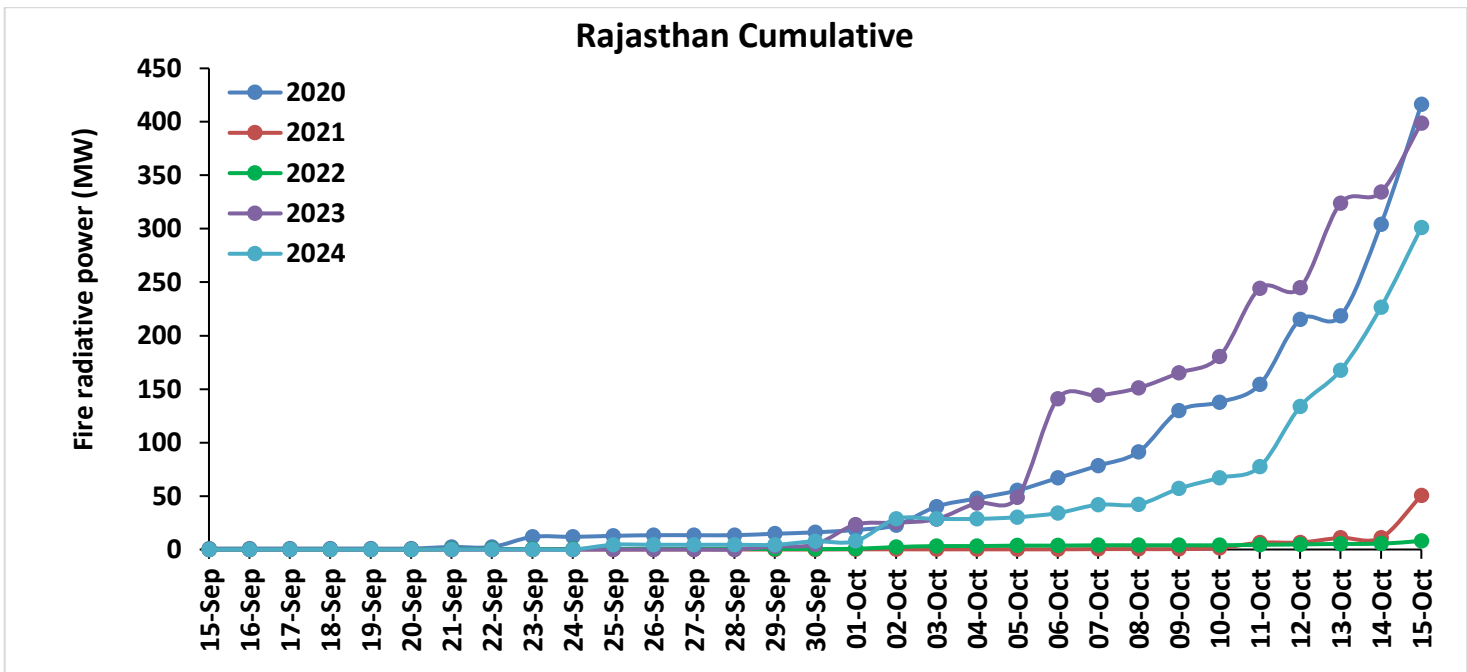
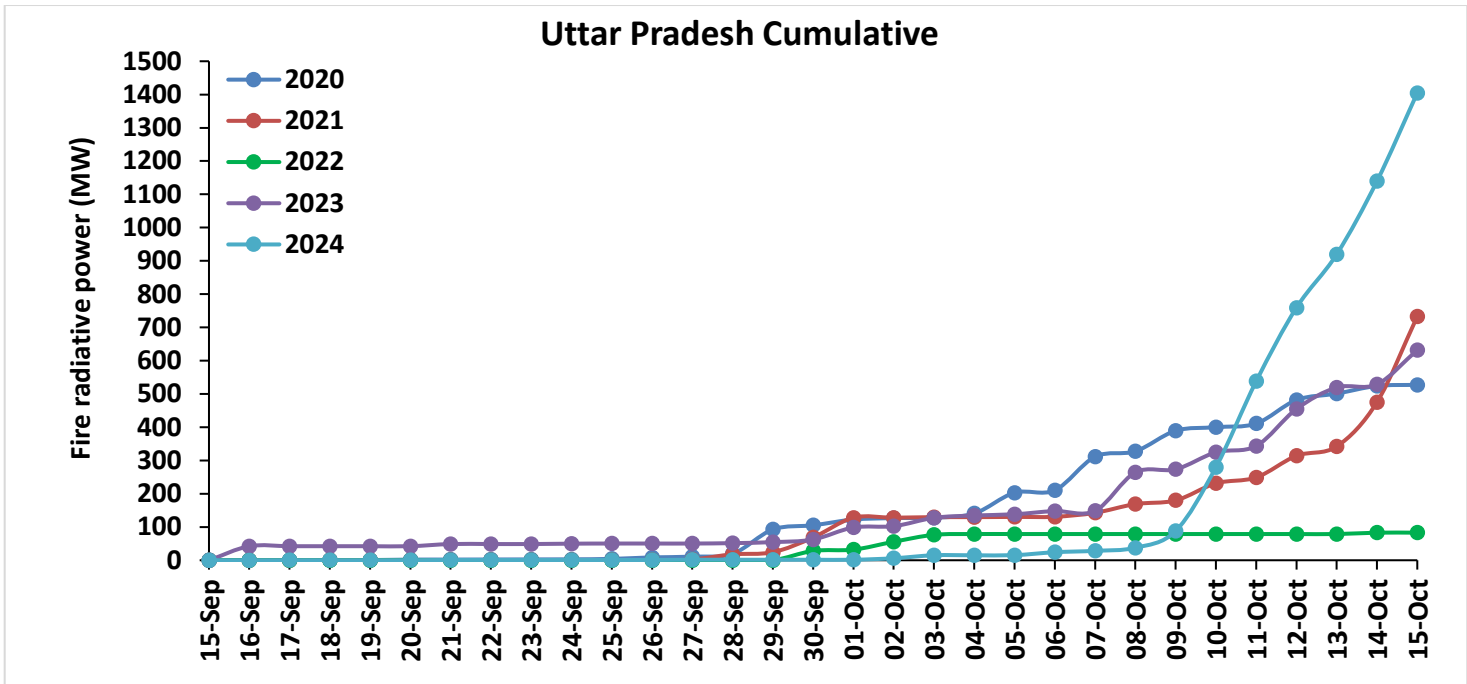


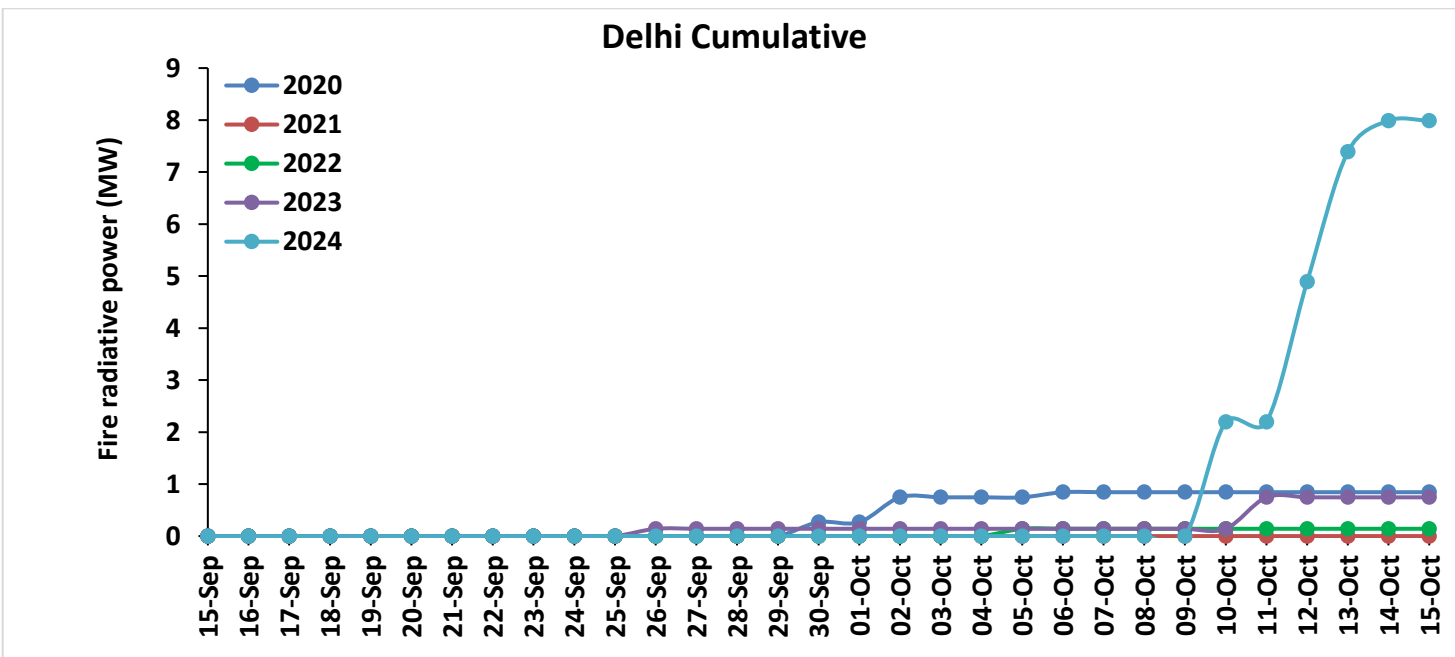
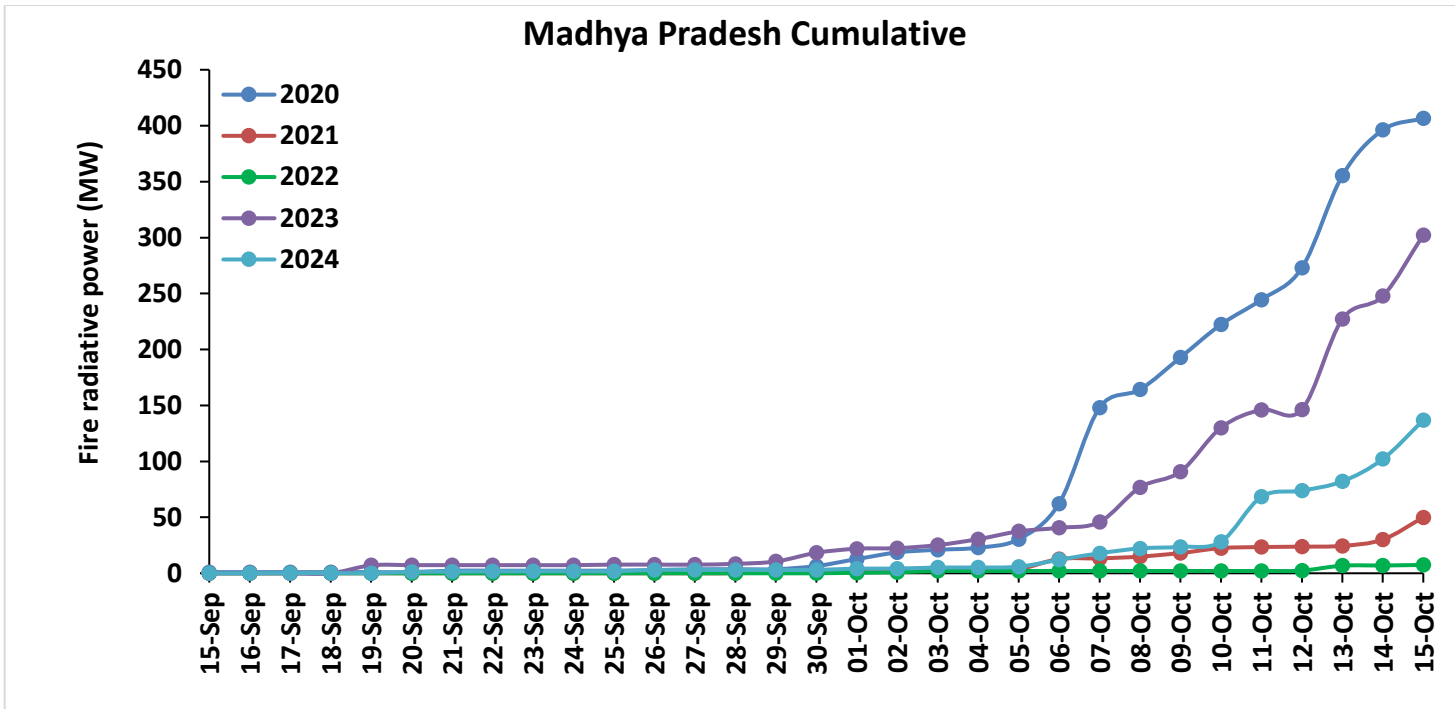




Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States

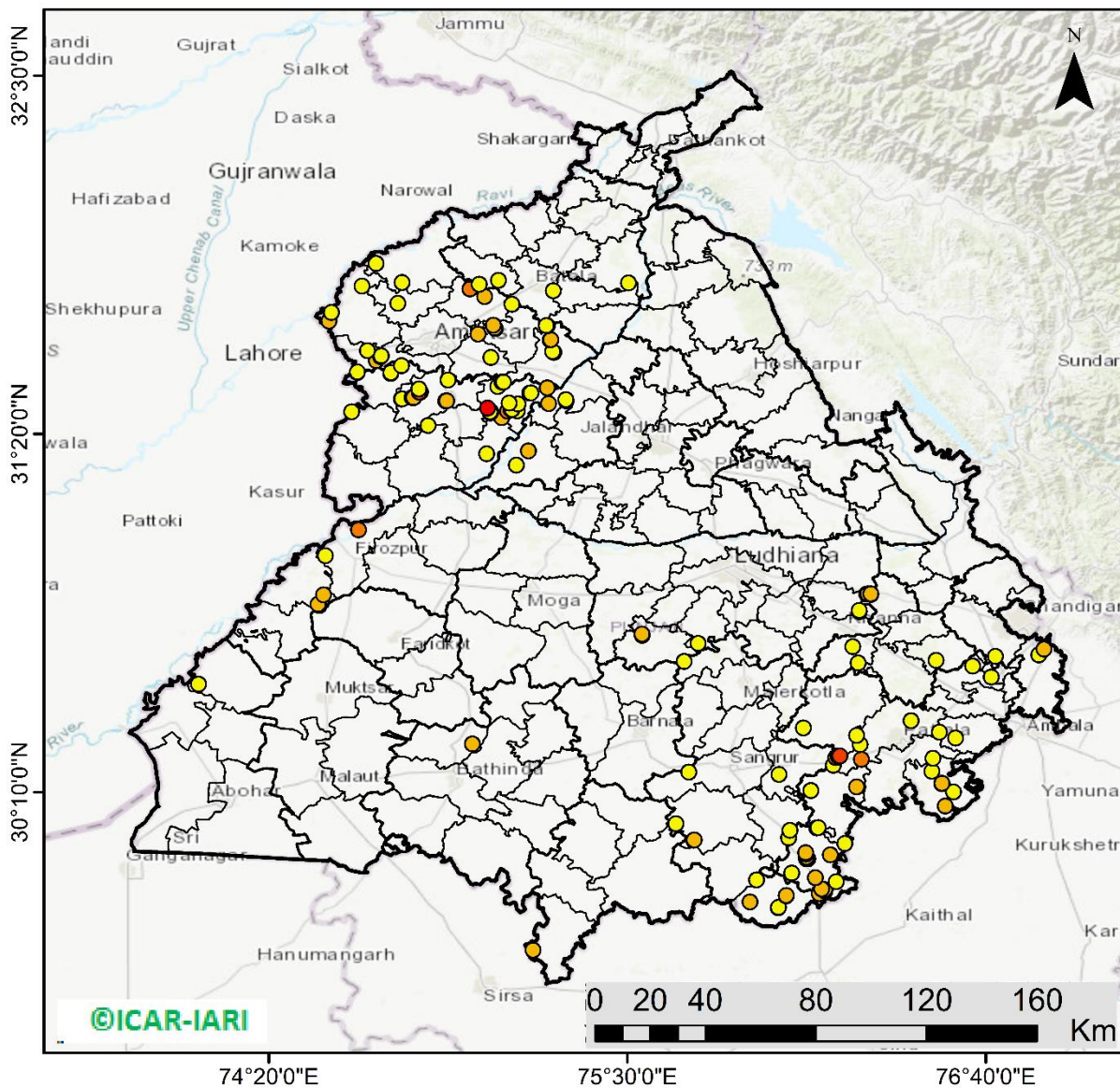






Punjab

RICE RESIDUE BURNING IN PUNJAB



144 burning events detected in Punjab during (15th Oct 2024)

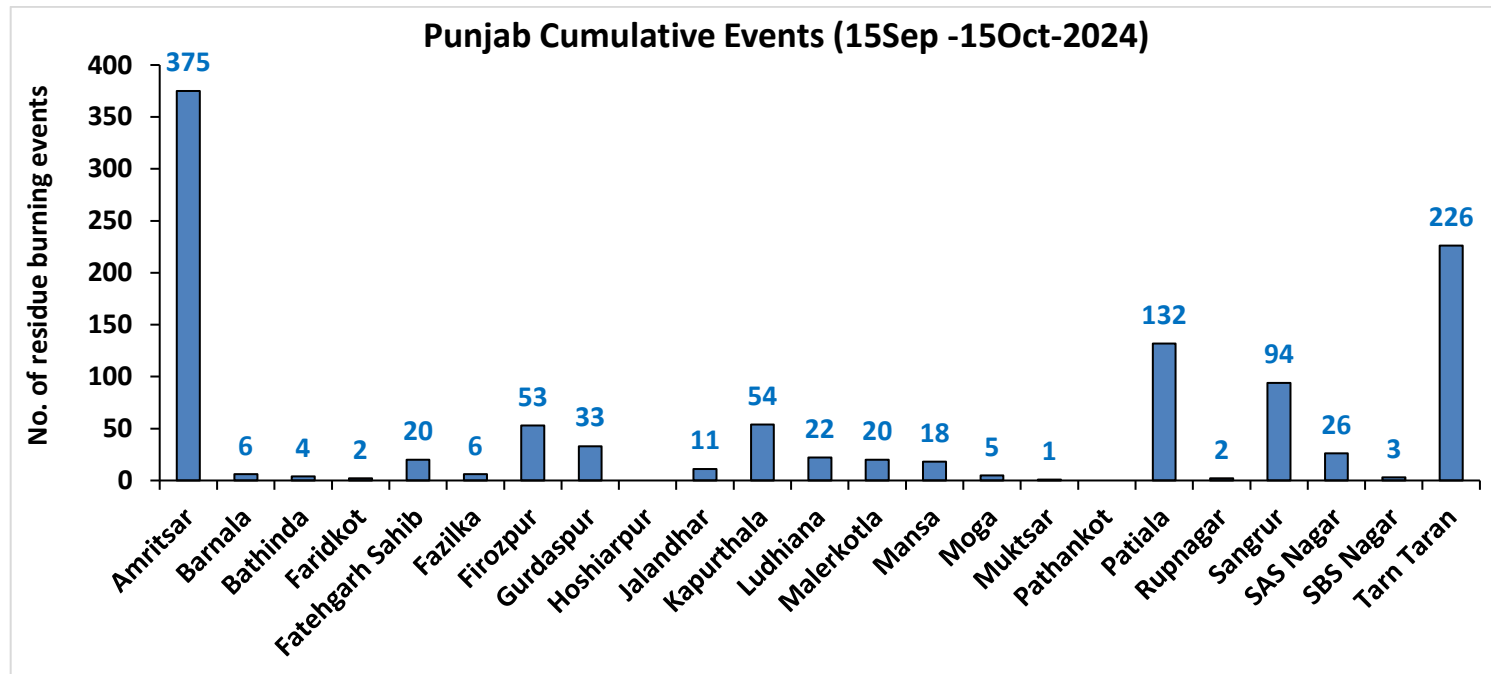
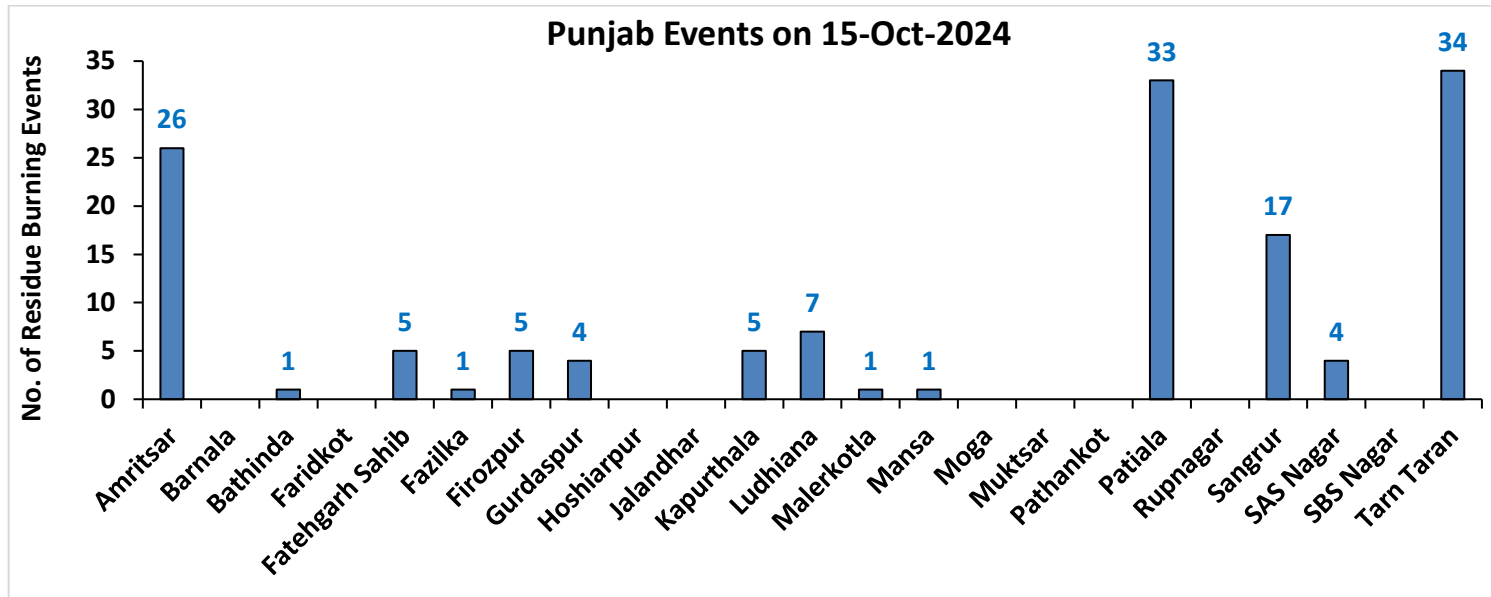
Fire Intensity (W/m²)

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



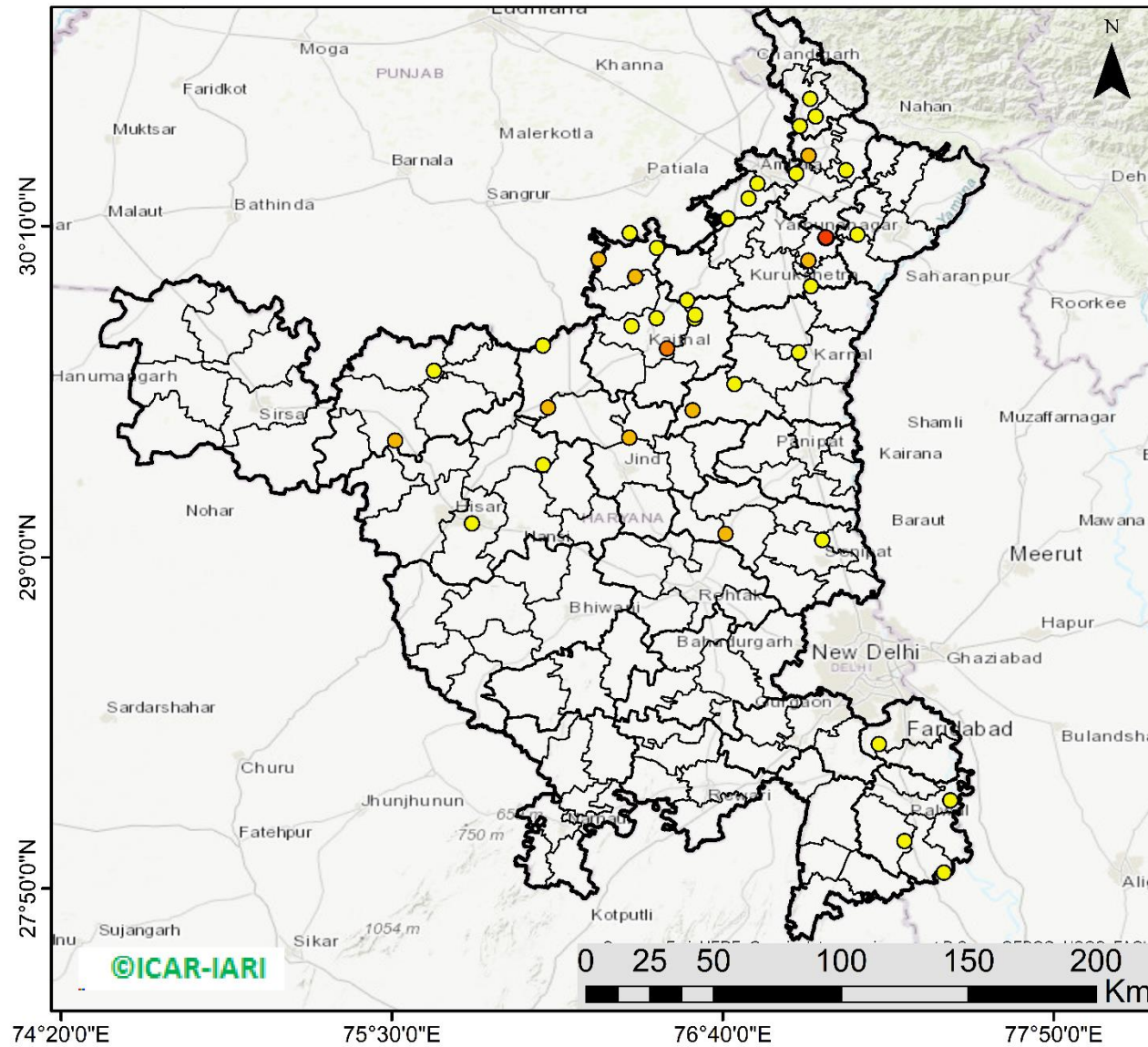
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

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



Haryana

RICE RESIDUE BURNING IN HARYANA



42 burning events detected in Haryana on (15th Oct 2024)

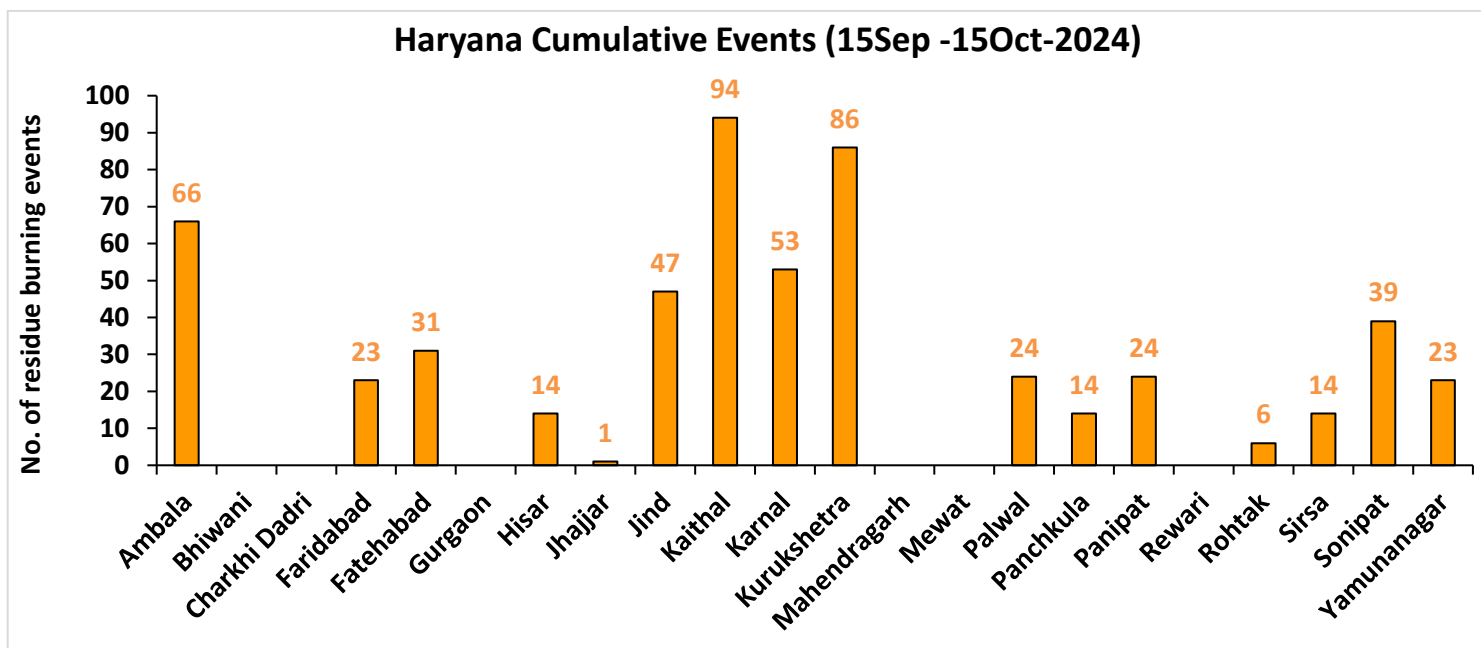
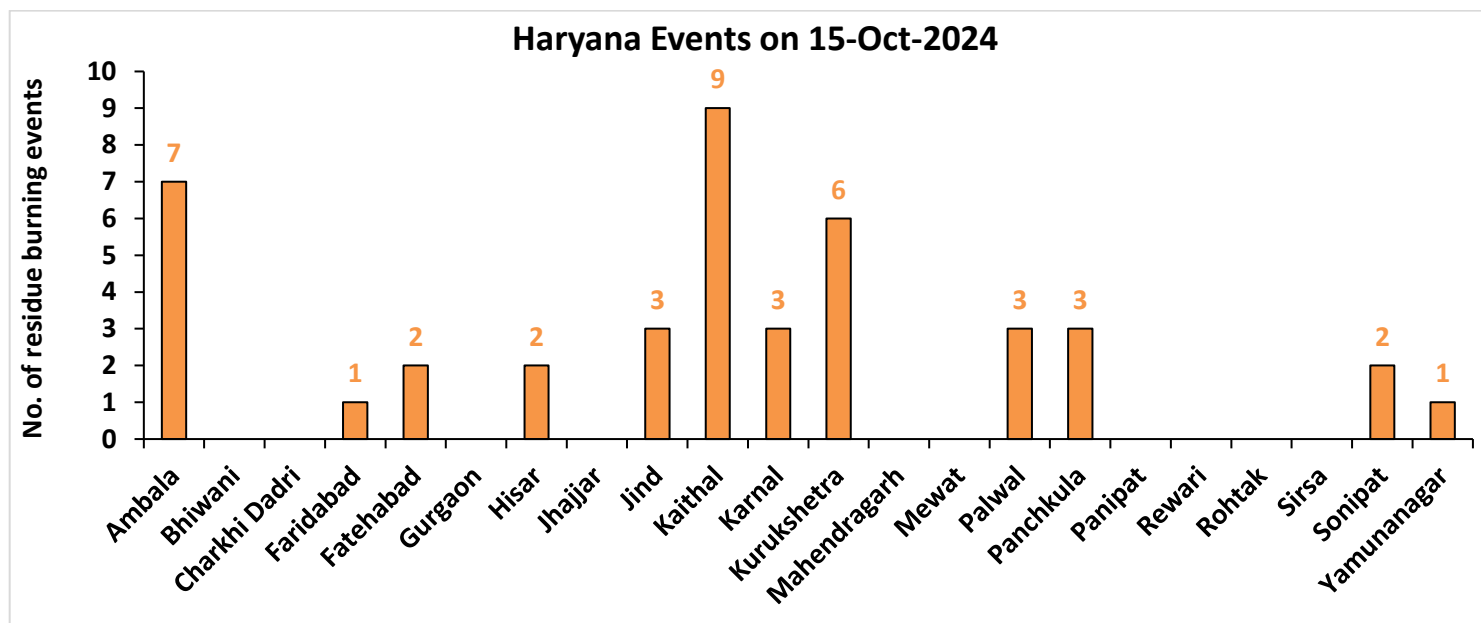
Fire Intensity (W/m²)

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



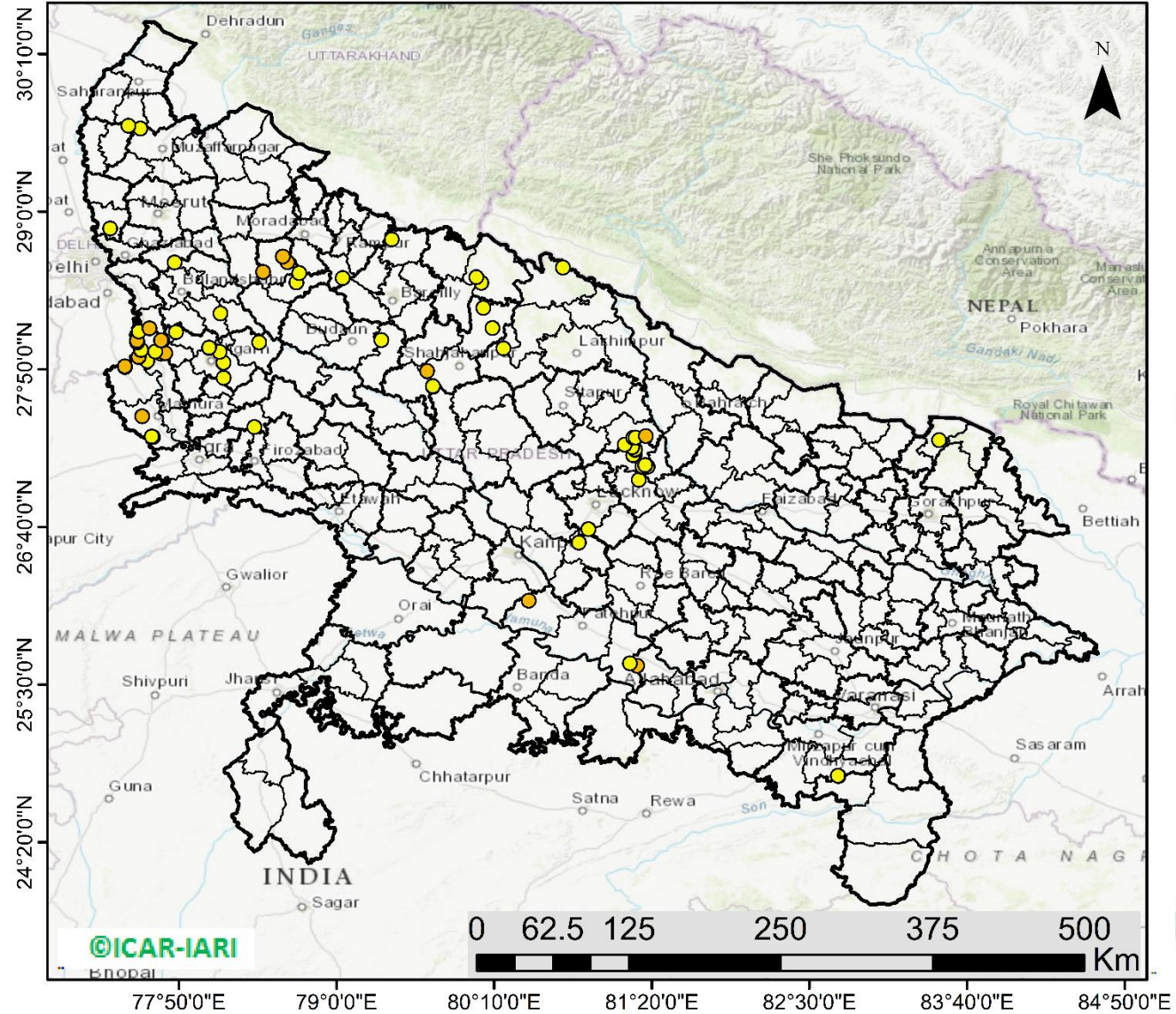
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

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



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



78 burning events detected in Uttar Pradesh on (15th Oct 2024)

Fire Intensity (W/m²)

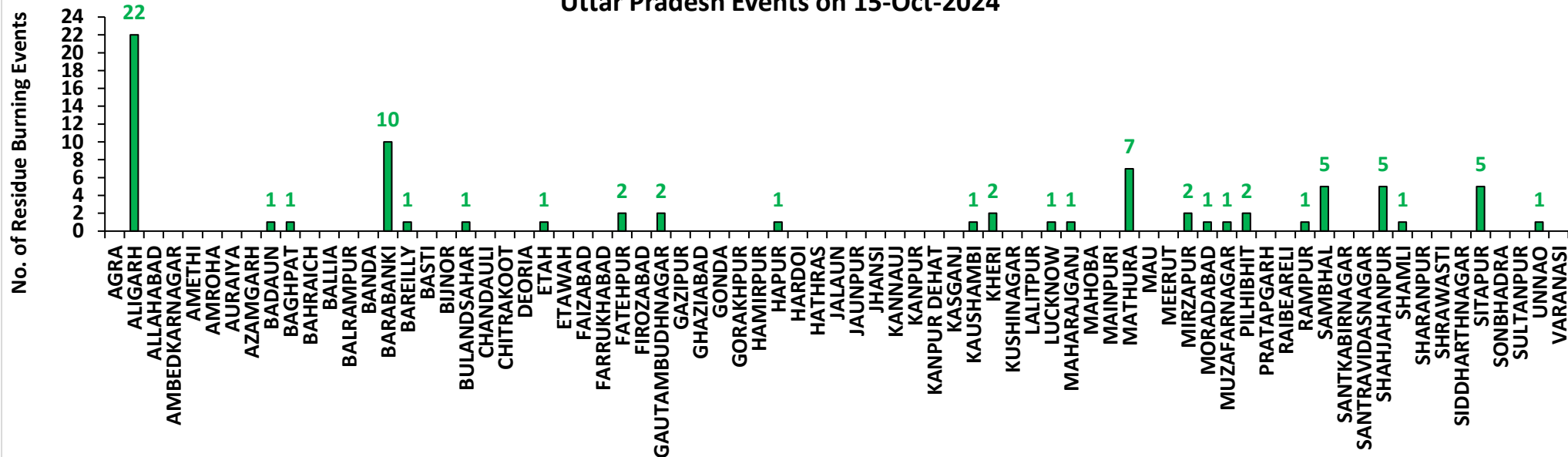
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



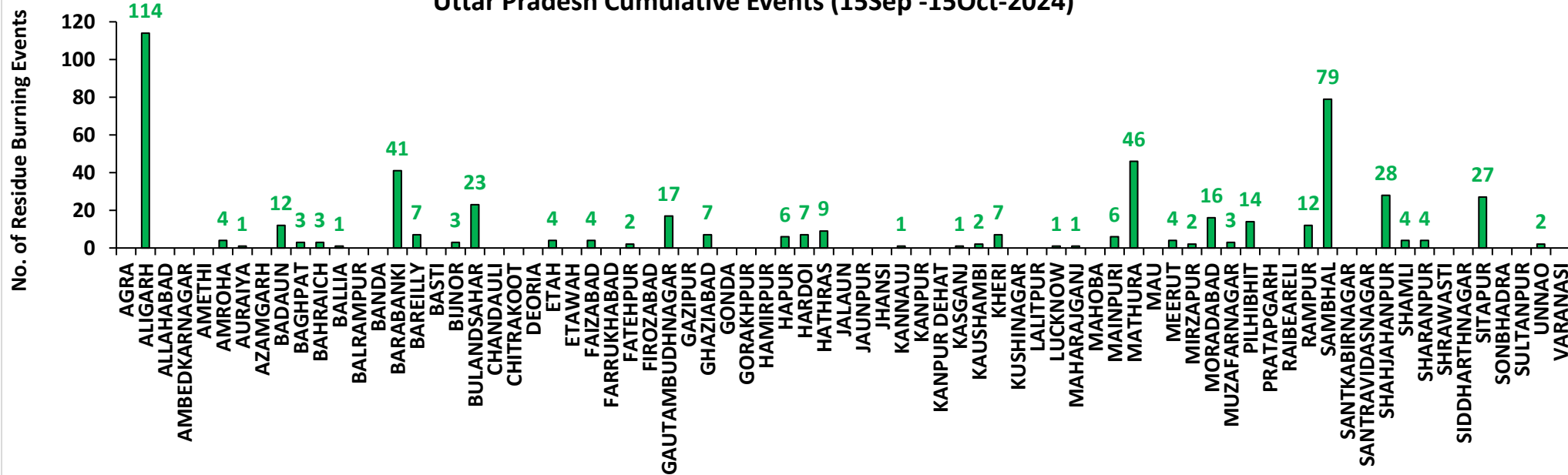
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

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

Uttar Pradesh Events on 15-Oct-2024

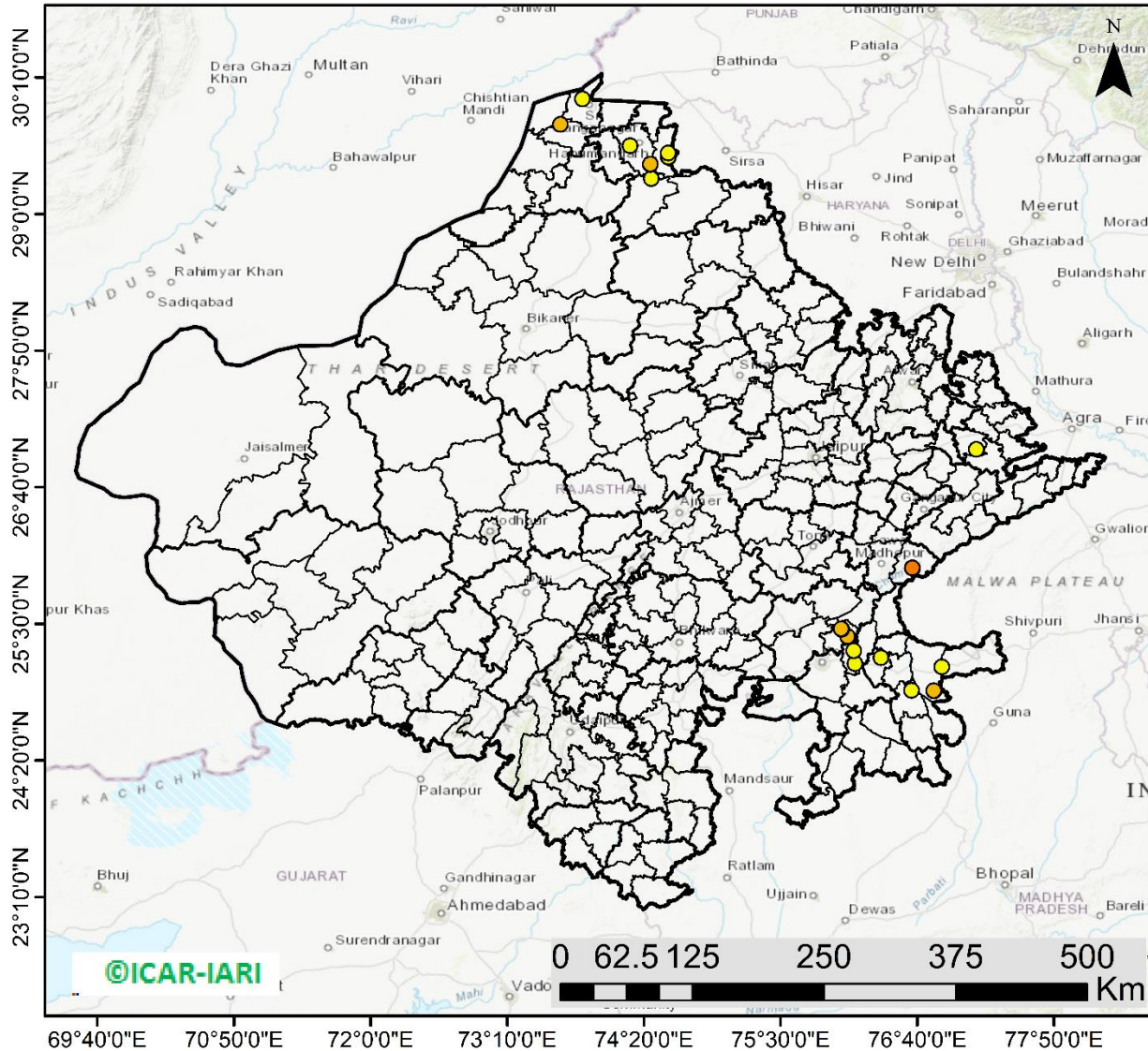


Uttar Pradesh Cumulative Events (15Sep -15Oct-2024)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



23 burning events
detected in Rajasthan on
(15th Oct 2024)

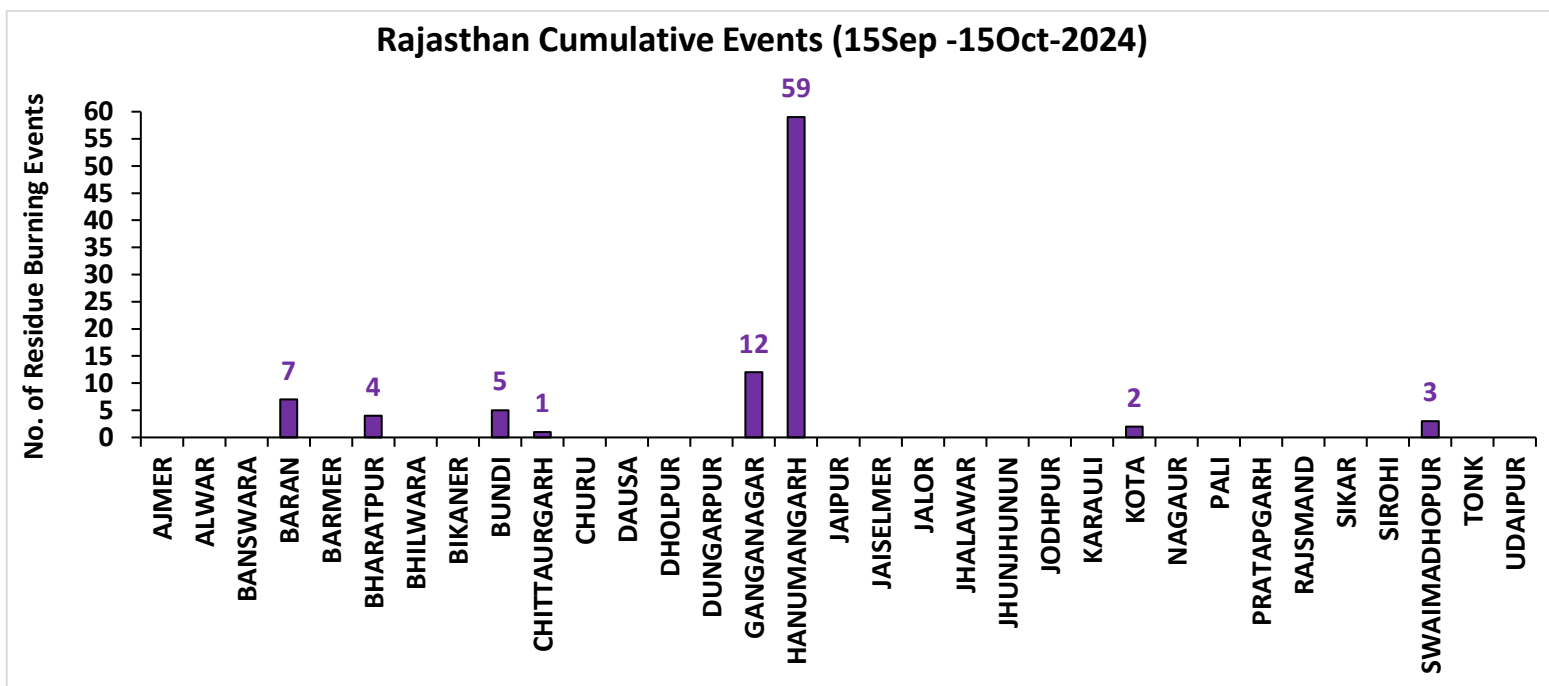
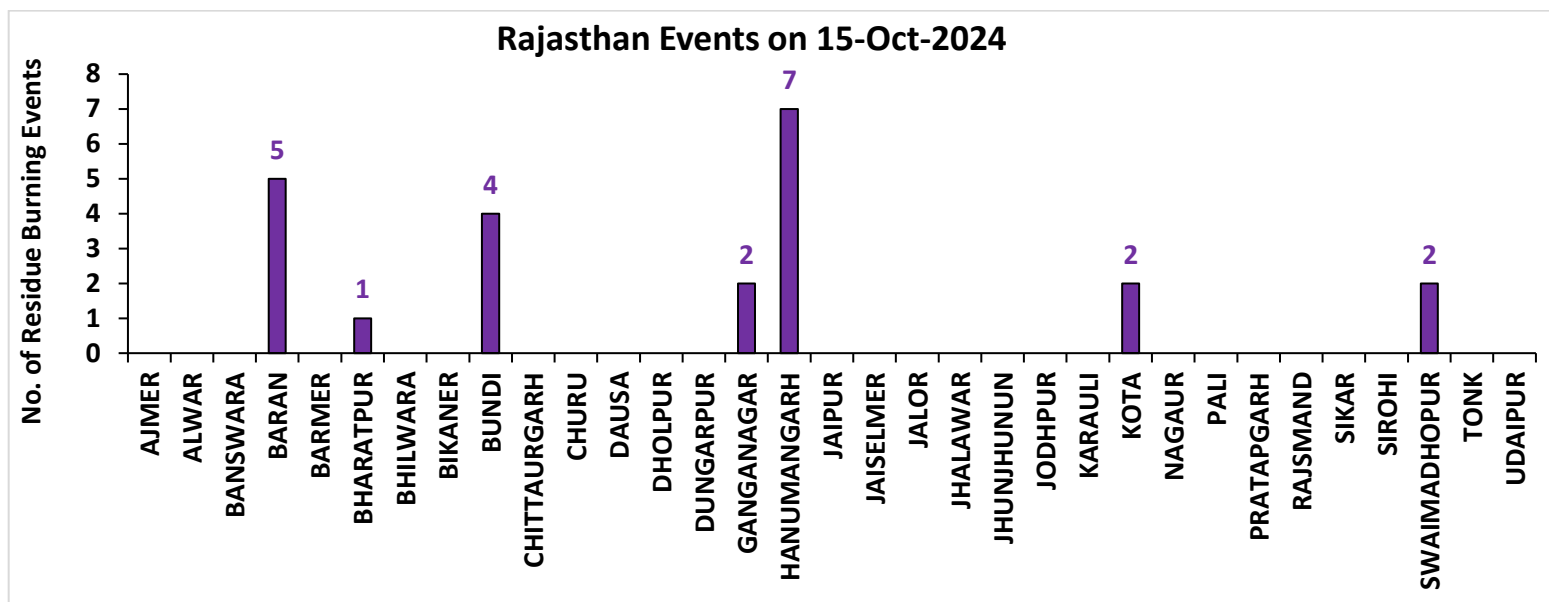
Fire Intensity (W/m²)

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



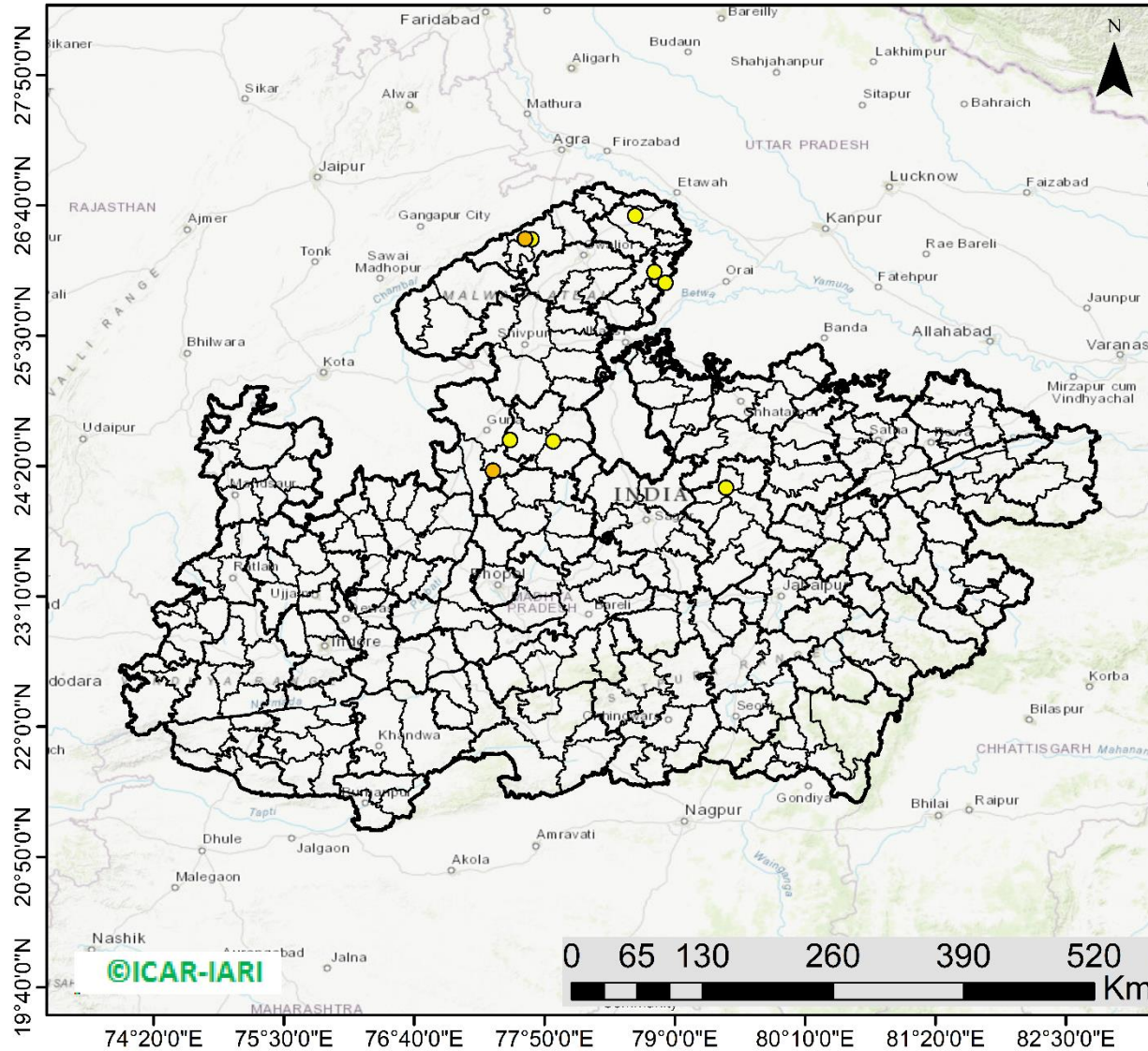
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

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



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



11 burning events detected in MP on (15th Oct 2024)

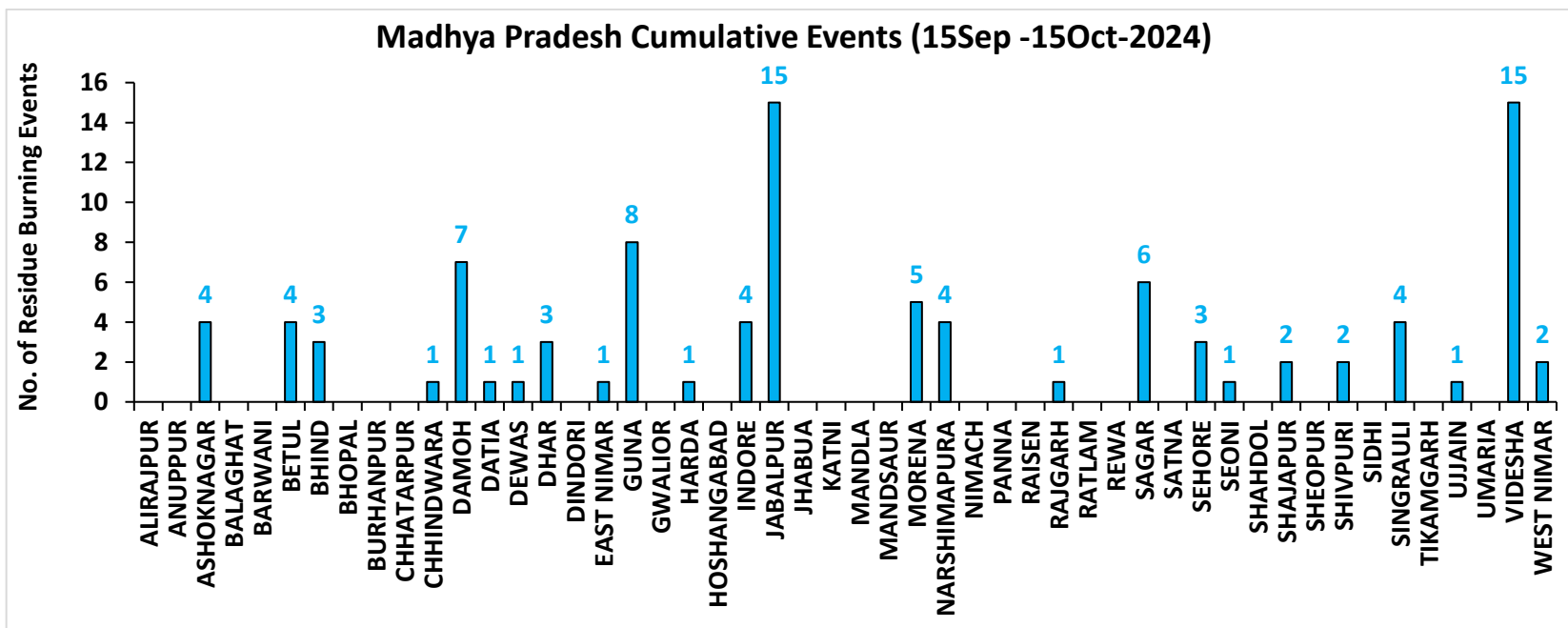
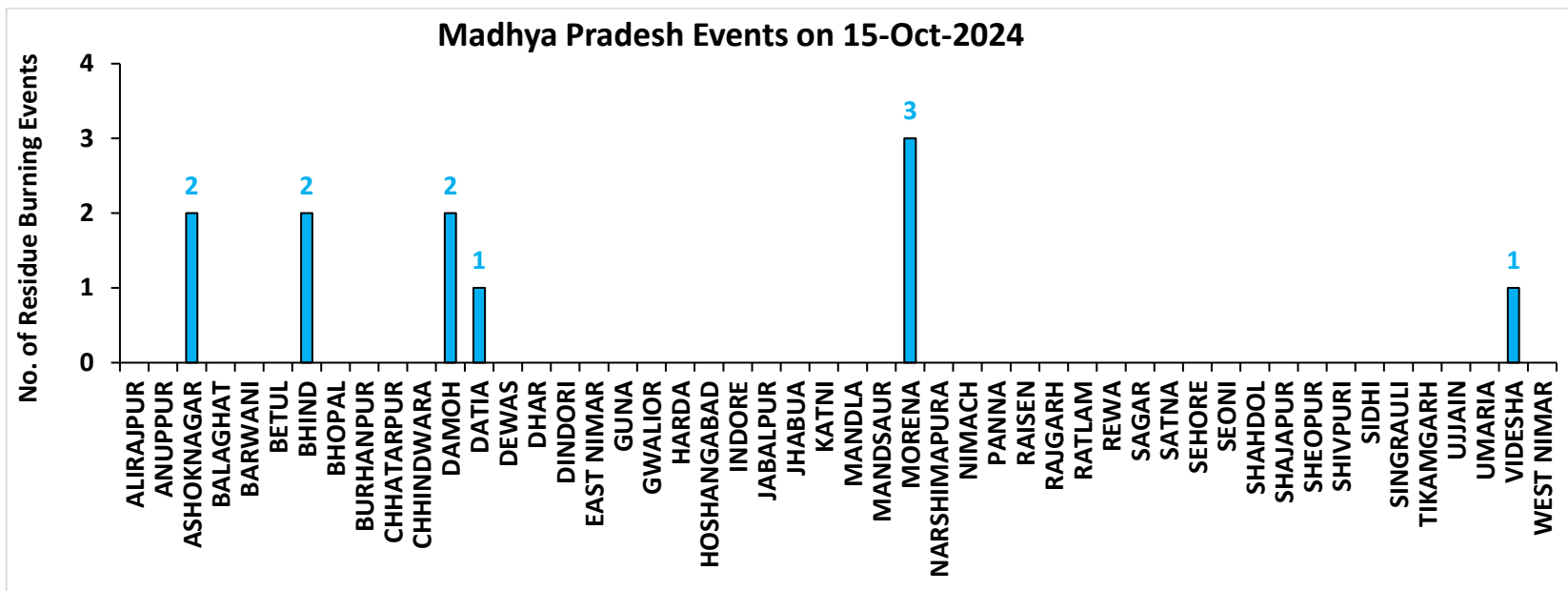
Fire Intensity (W/m²)

- 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-15Oct-2024)



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

(a) Punjab

District	15 Sep-15 Oct				
	2020	2021	2022	2023	2024
Amritsar	1699	532	561	644	375
Barnala	18	11	7	7	6
Bathinda	33	5	1	2	4
Faridkot	107	57	6	9	2
Fatehgarh Sahib	84	92	11	24	20
Fazilka	21	24	5	7	6
Firozpur	270	61	47	46	53
Gurdaspur	276	104	61	11	33
Hoshiarpur	28	10	1	2	0
Jalandhar	80	62	40	20	11
Kapurthala	145	74	62	81	54
Ludhiana	118	121	19	24	22
Malerkotla	0	0	0	3	20
Mansa	33	1	3	28	18
Moga	37	33	21	9	5
Muktsar	16	14	1	1	1
Pathankot	0	0	0	0	0
Patiala	412	197	41	145	132
Rupnagar	12	10	0	1	2
Sangrur	107	38	27	78	94
SAS NAGAR (Mohali)	29	22	4	52	26
SBS Nagar	11	6	2	2	3
Tarn Taran	1129	472	318	192	226
Total	4665	1946	1238	1388	1113

(b) Haryana

District	15 Sep-15 Oct				
	2020	2021	2022	2023	2024
AMBALA	86	39	16	79	66
BHIWANI	0	0	0	1	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	1	0	2	23
FATEHABAD	41	40	11	80	31
GURGAON	0	0	0	0	0
HISAR	6	0	1	29	14
JHAJJAR	1	0	0	3	1
JIND	20	23	17	59	47
KAITHAL	115	203	27	51	94
KARNAL	214	296	34	39	53
KURUKSHETRA	151	172	47	67	86
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	6	21	0	24	24
PANCHKULA	0	0	0	0	14
PANIPAT	7	15	2	14	24
REWARI	0	0	0	0	0
ROHTAK	0	0	0	4	6
SIRSA	7	4	2	6	14
SONIPAT	9	4	2	42	39
YAMUNANAGAR	39	32	9	42	23
Total	702	850	168	542	559

(c) Uttar Pradesh

District	15 Sep-15 Oct																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	7	0	5	17	MUZAFARNAGAR	2	2	0	0	3
AGRA	1	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	5	57	2	36	14
ALIGARH	24	13	1	62	114	GHAZIABAD	1	2	1	6	7	PRATAPGARH	0	0	0	0	0
ALLAHABAD	0	1	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	17	47	0	14	12
AMETHI	0	1	2	1	0	HAMIRPUR	1	0	0	0	0	SAMBHAL	6	6	4	8	79
AMROHA	1	0	0	2	4	HAPUR	3	0	0	0	6	SANTKABIRNAGAR	0	0	0	0	0
AURAIYA	16	2	4	3	1	HARDOI	6	6	0	4	7	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	9	SHAHJAHANPUR	36	146	53	20	28
BADAUN	0	1	0	2	12	JALAUN	0	0	0	0	0	SHAMLI	18	10	2	3	4
BAGHPAT	2	1	0	1	3	JAUNPUR	0	0	0	0	0	SHARANPUR	18	15	0	0	4
BAHRAICH	2	2	1	0	3	JHANSI	6	4	0	2	0	SHRAWASTI	2	0	0	0	0
BALLIA	0	0	0	0	1	KANNAUJ	3	0	0	1	1	SIDDHARTHANAGAR	0	0	0	0	0
BALRAMPUR	0	0	0	0	0	KANPUR	0	1	0	2	0	SITAPUR	9	8	0	2	27
BANDA	0	0	0	0	0	KANPUR DEHAT	3	1	0	3	0	SONBHADRA	0	0	0	0	0
BARABANKI	10	5	0	18	41	KASGANJ	1	2	0	1	1	SULTANPUR	0	0	0	0	0
BAREILLY	10	11	0	10	7	KAUSHAMBI	7	2	0	6	2	UNNAO	4	0	0	2	2
BASTI	2	1	0	0	0	KHERI	30	39	8	3	7	VARANASI	0	0	0	0	0
BIJNOR	4	2	1	5	3	KUSHINAGAR	0	0	0	0	0	Total	320	460	85	312	528
BULANDSAHAR	6	2	2	5	23	LALITPUR	0	1	2	0	0						
CHANDAULI	0	0	0	0	0	LUCKNOW	2	0	0	1	1						
CHITRAKOOT	0	0	0	0	0	MAHARAJGANJ	0	0	0	0	1						
DEORIA	0	0	0	2	0	MAHOBA	1	0	0	0	0						
ETAH	4	6	0	8	4	MAINPURI	4	6	0	5	6						
ETAWAH	2	6	0	10	0	MATHURA	14	24	0	45	46						
FAIZABAD	1	0	0	0	4	MAU	0	0	0	0	0						
FARRUKHABAD	0	0	0	0	0	MEERUT	9	2	0	2	4						
FATEHPUR	14	6	0	6	2	MIRZAPUR	5	5	2	0	2						
FIROZABAD	4	4	0	2	0	MORADABAD	2	3	0	2	16						

(d) Delhi

District	15 Sep-15 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	7
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	7

(e) Rajasthan

District	15 Sep-15 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	81	0	4	86	7
BARMER	2	0	0	0	0
BHARATPUR	0	0	0	2	4
BHILWARA	2	0	0	0	0
BIKANER	1	0	0	0	0
BUNDI	4	0	6	12	5
CHITTAURGARH	0	2	2	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	9	12
HANUMANGARH	74	22	3	39	59
JAIPUR	0	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	1	0	0	6	0
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	1	0	0	0	0
KOTA	23	1	1	52	2
NAGPUR	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	13	3
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
Total	202	25	17	223	93

(f) Madhya Pradesh

District	15 Sep-15 Oct										
	2020	2021	2022	2023	2024	PANNA	2	0	0	0	0
ALIRAJPUR	0	0	0	0	0	RAISEN	10	1	0	1	0
ANUPPUR	0	0	0	0	0	RAJGARH	7	1	2	7	1
ASHOKNAGAR	9	0	0	15	4	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	5	1	7	6
BETUL	0	0	0	0	4	SATNA	3	4	0	1	0
BHIND	2	1	0	6	3	SEHORE	5	3	1	9	3
BHOPAL	6	5	1	6	0	SEONI	9	4	0	0	1
BURHANPUR	0	0	0	0	0	SHAHDOL	0	0	0	0	0
CHHATARPUR	4	0	0	2	0	SHAJAPUR	5	0	0	7	2
CHHINDWARA	0	3	0	1	1	SHEOPUR	6	0	0	11	0
DAMOH	15	4	0	10	7	SHIVPURI	5	0	6	3	2
DATIA	31	7	0	26	1	SIDHI	0	0	0	0	0
DEWAS	3	0	0	6	1	SINGRAULI	0	0	0	0	4
DHAR	19	0	0	22	3	TIKAMGARH	1	0	0	1	0
DINDORI	0	0	0	0	0	UJJAIN	5	0	0	12	1
EAST NIMAR	2	1	2	1	1	UMARIA	0	0	0	0	0
GUNA	15	1	1	82	8	VIDESHA	51	8	2	21	15
GWALIOR	21	0	1	7	0	WEST NIMAR	2	0	0	1	2
HARDA	8	8	0	13	1	Total	298	70	18	324	99
HOSHANGABAD	9	4	0	11	0						
INDORE	2	0	0	12	4						
JABALPUR	6	3	0	7	15						
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	14	5	0	12	5						
NARSHIMAPURA	2	2	1	2	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-15 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
14-Oct	605	229	82	89	97	69	98	30	41	49	9	68	5	18	52
15-Oct	449	660	169	69	144	106	363	36	127	42	15	149	0	35	78
Total	4665	1946	1238	1388	1113	702	850	168	542	559	320	460	85	312	528

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
14-Oct	0	0	0	0	1	16	1	1	15	20	15	11	1	26	7
15-Oct	0	0	0	0	0	9	8	2	34	23	8	27	2	66	11
Total	3	0	2	2	7	202	25	17	223	93	298	70	18	324	99

Details of residue burning events in Punjab on 15-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	JPSS-2	31.82582	74.76741	13:48:11	D	3.80
2	AMRITSAR	AJNALA	JPSS-2	31.88773	74.68273	13:48:11	D	3.80
3	AMRITSAR	ATTARI	S-NPP	31.53303	74.62173	14:11:49	D	1.30
4	AMRITSAR	ATTARI	S-NPP	31.53475	74.62199	14:11:49	D	1.40
5	AMRITSAR	ATTARI	JPSS-2	31.57141	74.68369	13:48:11	D	7.30
6	AMRITSAR	ATTARI	JPSS-2	31.58440	74.69729	13:48:11	D	2.20
7	AMRITSAR	ATTARI	JPSS-2	31.58695	74.69949	13:48:11	D	3.00
8	AMRITSAR	ATTARI	JPSS-2	31.60427	74.65463	13:48:11	D	3.60
9	AMRITSAR	CHOGAWAN	JPSS-1	31.70035	74.52952	12:56:25	D	7.90
10	AMRITSAR	CHOGAWAN	JPSS-2	31.72827	74.53756	13:48:11	D	4.00
11	AMRITSAR	CHOGAWAN	JPSS-2	31.81423	74.63676	13:48:11	D	2.50
12	AMRITSAR	HARSHA CHHINA	JPSS-2	31.75799	74.75336	13:48:11	D	3.30
13	AMRITSAR	JANDIALA GURU	JPSS-2	31.58196	75.05634	13:48:11	D	4.80
14	AMRITSAR	JANDIALA GURU	JPSS-2	31.65802	75.01434	13:48:11	D	5.20
15	AMRITSAR	MAJITHA	S-NPP	31.75500	75.12513	14:11:49	D	2.60
16	AMRITSAR	MAJITHA	JPSS-2	31.77992	75.03603	13:48:11	D	5.70
17	AMRITSAR	MAJITHA	JPSS-2	31.80501	74.98821	13:48:11	D	10.40
18	AMRITSAR	MAJITHA	JPSS-2	31.82014	75.01860	13:48:11	D	2.10
19	AMRITSAR	RAYYA	S-NPP	31.59848	75.26102	14:11:49	D	2.00
20	AMRITSAR	RAYYA	JPSS-2	31.60163	75.25744	13:48:11	D	4.40
21	AMRITSAR	RAYYA	JPSS-2	31.63864	75.24926	13:48:11	D	6.50
22	AMRITSAR	RAYYA	JPSS-2	31.63971	75.25137	13:48:11	D	6.20
23	AMRITSAR	TARSIKKA	JPSS-1	31.67629	75.07047	12:56:25	D	8.40

24	AMRITSAR	TARSIKKA	JPSS-1	31.67744	75.06850	12:56:25	D	7.50
25	AMRITSAR	TARSIKKA	S-NPP	31.68581	75.23658	14:11:49	D	3.50
26	AMRITSAR	TARSIKKA	JPSS-2	31.68690	75.06436	13:48:11	D	6.60
27	BATHINDA	GONIANA MANDI	JPSS-2	30.32367	74.99611	13:48:11	D	8.40
28	FATEHGARH SAHIB	AMLOH	JPSS-1	30.58738	76.25137	12:56:25	D	3.90
29	FATEHGARH SAHIB	AMLOH	JPSS-2	30.64005	76.23387	13:48:11	D	5.00
30	FATEHGARH SAHIB	KHAMANON	S-NPP	30.81052	76.29282	12:31:32	D	6.30
31	FATEHGARH SAHIB	KHAMANON	S-NPP	30.81227	76.29271	12:31:32	D	6.80
32	FATEHGARH SAHIB	KHERA	JPSS-1	30.59573	76.50507	12:56:25	D	3.20
33	FAZILKA	JALALABAD	S-NPP	30.51825	74.10507	14:11:49	D	1.20
34	FIROZPUR	FIROZPUR	JPSS-2	30.93638	74.51772	13:48:11	D	3.60
35	FIROZPUR	FIROZPUR	JPSS-2	31.02044	74.62567	13:48:11	D	13.40
36	FIROZPUR	MAMDOT	JPSS-1	30.77436	74.49781	12:56:25	D	4.00
37	FIROZPUR	MAMDOT	JPSS-1	30.77815	74.49368	12:56:25	D	5.70
38	FIROZPUR	MAMDOT	JPSS-2	30.80905	74.51152	13:48:11	D	7.80
39	GURDASPUR	BATALA	S-NPP	31.68516	75.24021	14:11:49	D	4.80
40	GURDASPUR	BATALA	JPSS-1	31.79936	75.25928	12:56:25	D	3.50
41	GURDASPUR	FATEHGARH CHURIAN	JPSS-1	31.83310	75.08103	12:56:25	D	4.20
42	GURDASPUR	KAHNUWAN	JPSS-1	31.82450	75.50397	12:56:25	D	3.30
43	KAPURTHALA	DHILWAN	S-NPP	31.43176	75.24440	14:11:49	D	7.80
44	KAPURTHALA	DHILWAN	JPSS-2	31.44077	75.30114	13:48:11	D	3.40
45	KAPURTHALA	DHILWAN	JPSS-2	31.44459	75.30054	13:48:11	D	4.70
46	KAPURTHALA	SULTANPUR LODHI	JPSS-1	31.23122	75.13900	12:56:25	D	3.00
47	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.27755	75.17857	14:11:49	D	7.90
48	LUDHIANA	KHANNA	JPSS-2	30.75407	76.25538	13:48:11	D	4.60
49	LUDHIANA	KHANNA	JPSS-2	30.75805	76.25478	13:48:11	D	4.60
50	LUDHIANA	MACHHIWARA	JPSS-2	30.81162	76.27958	13:48:11	D	9.40
51	LUDHIANA	MACHHIWARA	JPSS-2	30.81206	76.28359	13:48:11	D	9.40
52	LUDHIANA	PAKHOWAL	S-NPP	30.65079	75.73048	14:11:49	D	1.50
53	LUDHIANA	RAIKOT	JPSS-2	30.67723	75.54868	13:48:11	D	4.60
54	LUDHIANA	RAIKOT	JPSS-2	30.68105	75.54807	13:48:11	D	9.10
55	MALERKOTLA	AHMEDGARH	JPSS-1	30.59196	75.68532	12:56:25	D	4.80
56	MANSA	SARDULGARH	JPSS-2	29.65234	75.19335	13:48:11	D	5.30
57	PATIALA	BHUNARHERI	JPSS-1	30.12141	76.53533	12:56:25	D	5.80

58	PATIALA	BHUNARHERI	JPSS-1	30.16727	76.56184	12:56:25	D	2.30
59	PATIALA	BHUNARHERI	S-NPP	30.19396	76.52335	14:11:49	D	6.10
60	PATIALA	BHUNARHERI	S-NPP	30.19528	76.52429	14:11:49	D	8.50
61	PATIALA	BHUNARHERI	JPSS-1	30.23451	76.49131	13:14:38	D	1.60
62	PATIALA	GHANAUR	JPSS-1	30.34275	76.56856	13:14:38	D	2.30
63	PATIALA	NABHA	S-NPP	30.35111	76.24659	14:11:49	D	2.30
64	PATIALA	NABHA	S-NPP	30.37576	76.07319	12:31:32	D	3.70
65	PATIALA	PATIALA	JPSS-1	30.27324	76.26190	12:56:25	D	10.80
66	PATIALA	PATIALA	JPSS-1	30.32145	76.25793	13:14:38	D	4.90
67	PATIALA	PATIALA	JPSS-1	30.36193	76.51580	13:14:38	D	3.10
68	PATIALA	PATIALA	S-NPP	30.39918	76.42374	12:31:32	D	4.70
69	PATIALA	PATRAN	JPSS-1	29.83612	76.12506	12:56:25	D	5.40
70	PATIALA	PATRAN	JPSS-1	29.84471	76.14354	12:56:25	D	7.00
71	PATIALA	PATRAN	JPSS-1	29.84905	76.14233	12:56:25	D	7.00
72	PATIALA	PATRAN	JPSS-2	29.85135	76.13309	13:48:11	D	5.10
73	PATIALA	PATRAN	JPSS-1	29.87490	76.18001	01:45:43	N	0.70
74	PATIALA	PATRAN	JPSS-1	29.88776	76.11225	13:14:38	D	5.60
75	PATIALA	PATRAN	JPSS-1	29.90324	76.03544	13:14:38	D	4.40
76	PATIALA	PATRAN	S-NPP	29.94925	76.08334	14:11:49	D	16.50
77	PATIALA	PATRAN	S-NPP	29.94957	76.08780	14:11:49	D	17.50
78	PATIALA	PATRAN	S-NPP	29.95102	76.08423	14:11:49	D	26.30
79	PATIALA	PATRAN	S-NPP	29.95496	76.08287	14:11:49	D	6.30
80	PATIALA	PATRAN	JPSS-2	29.96215	76.16096	13:48:11	D	6.90
81	PATIALA	PATRAN	JPSS-1	29.96482	76.08180	12:56:25	D	8.50
82	PATIALA	PATRAN	JPSS-1	29.96918	76.08059	12:56:25	D	5.10
83	PATIALA	PATRAN	JPSS-1	30.04999	76.11642	12:56:25	D	3.80
84	PATIALA	PATRAN	JPSS-1	30.05105	76.12131	12:56:25	D	3.80
85	PATIALA	RAJPURA	JPSS-1	30.57688	76.62408	12:56:25	D	2.10
86	PATIALA	SAMANA	JPSS-2	29.99944	76.20808	13:48:11	D	3.20
87	PATIALA	SAMANA	S-NPP	30.17155	76.09756	14:11:49	D	3.60
88	PATIALA	SAMANA	JPSS-1	30.18363	76.24637	12:56:25	D	6.70
89	PATIALA	SANAUR	JPSS-1	30.27686	76.49493	12:56:25	D	4.20
90	SANGRUR	ANDANA	JPSS-1	29.79003	75.99108	13:14:38	D	2.80
91	SANGRUR	ANDANA	JPSS-1	29.79126	75.99214	13:14:38	D	3.80

92	SANGRUR	ANDANA	JPSS-2	29.80897	75.89966	13:48:11	D	7.40
93	SANGRUR	ANDANA	S-NPP	29.82843	76.01769	14:11:49	D	7.30
94	SANGRUR	ANDANA	S-NPP	29.83013	76.01763	14:11:49	D	7.60
95	SANGRUR	BHAWANIGARH	JPSS-1	30.22402	75.99394	13:14:38	D	1.80
96	SANGRUR	BHAWANIGARH	JPSS-2	30.25408	76.17085	13:48:11	D	4.50
97	SANGRUR	BHAWANIGARH	JPSS-2	30.27900	76.17889	13:48:11	D	5.60
98	SANGRUR	BHAWANIGARH	S-NPP	30.28289	76.18639	12:31:32	D	13.20
99	SANGRUR	BHAWANIGARH	S-NPP	30.28440	76.19199	12:31:32	D	19.20
100	SANGRUR	DIRBA	JPSS-1	30.01750	76.02505	12:56:25	D	4.30
101	SANGRUR	DIRBA	JPSS-1	30.04181	76.02962	13:14:38	D	3.30
102	SANGRUR	LEHRA GAGA	S-NPP	29.88066	75.92091	14:11:49	D	2.10
103	SANGRUR	SANGRUR	JPSS-1	30.23167	75.70039	13:14:38	D	4.00
104	SANGRUR	SUNAM	S-NPP	30.00996	75.71589	12:31:32	D	6.30
105	SANGRUR	SUNAM	S-NPP	30.01104	75.71801	12:31:32	D	7.40
106	SANGRUR	SUNAM	JPSS-1	30.06404	75.65876	13:14:38	D	2.70
107	SAS NAGAR	DERABASSI	S-NPP	30.61333	76.83939	12:31:32	D	3.40
108	SAS NAGAR	DERABASSI	S-NPP	30.63201	76.85620	14:11:49	D	7.20
109	SAS NAGAR	KHARAR	JPSS-2	30.60850	76.69822	13:48:11	D	2.70
110	SAS NAGAR	MAJRI	S-NPP	30.54122	76.68484	14:11:49	D	3.60
111	TARN TARAN	BHIKHIWIND	JPSS-2	31.40484	74.60355	13:48:11	D	2.90
112	TARN TARAN	CHOHLA SAHIB	JPSS-2	31.26822	75.04266	13:48:11	D	2.50
113	TARN TARAN	CHOHLA SAHIB	JPSS-2	31.38581	75.09171	13:48:11	D	5.10
114	TARN TARAN	GANDIWIND TATLA	S-NPP	31.52984	74.73080	14:11:49	D	2.50
115	TARN TARAN	GANDIWIND TATLA	S-NPP	31.53226	74.73083	14:11:49	D	2.90
116	TARN TARAN	GANDIWIND TATLA	JPSS-2	31.55490	74.76537	13:48:11	D	4.70
117	TARN TARAN	KHADUR SAHIB	JPSS-2	31.40113	75.05433	13:48:11	D	4.10
118	TARN TARAN	KHADUR SAHIB	JPSS-2	31.40455	75.05611	13:48:11	D	9.50
119	TARN TARAN	KHADUR SAHIB	JPSS-2	31.40489	75.05372	13:48:11	D	4.10
120	TARN TARAN	KHADUR SAHIB	JPSS-2	31.40719	75.11007	13:48:11	D	11.70
121	TARN TARAN	KHADUR SAHIB	S-NPP	31.40804	75.14243	14:11:49	D	3.30
122	TARN TARAN	KHADUR SAHIB	S-NPP	31.41208	75.12141	14:11:49	D	3.40
123	TARN TARAN	KHADUR SAHIB	S-NPP	31.41237	75.12550	14:11:49	D	3.40
124	TARN TARAN	KHADUR SAHIB	JPSS-1	31.41713	75.04585	12:56:25	D	35.80
125	TARN TARAN	KHADUR SAHIB	S-NPP	31.43026	75.14454	14:11:49	D	2.60

126	TARN TARAN	KHADUR SAHIB	S-NPP	31.43371	75.11539	14:11:49	D	3.90
127	TARN TARAN	KHADUR SAHIB	S-NPP	31.46597	75.18442	14:11:49	D	8.50
128	TARN TARAN	KHADUR SAHIB	S-NPP	31.46617	75.18284	14:11:49	D	4.40
129	TARN TARAN	KHADUR SAHIB	S-NPP	31.46647	75.18697	14:11:49	D	4.40
130	TARN TARAN	KHADUR SAHIB	JPSS-1	31.48297	75.23965	12:56:25	D	8.10
131	TARN TARAN	KHADUR SAHIB	JPSS-1	31.48725	75.07856	12:56:25	D	2.90
132	TARN TARAN	KHADUR SAHIB	JPSS-2	31.50148	75.09258	13:48:11	D	15.80
133	TARN TARAN	KHADUR SAHIB	JPSS-2	31.50179	75.09716	02:38:10	N	0.40
134	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.36036	74.85181	14:11:49	D	1.90
135	TARN TARAN	TARN TARAN	JPSS-1	31.44001	74.90953	12:56:25	D	5.70
136	TARN TARAN	TARN TARAN	JPSS-1	31.44064	74.91237	12:56:25	D	5.50
137	TARN TARAN	TARN TARAN	S-NPP	31.44620	74.76496	12:31:32	D	3.20
138	TARN TARAN	TARN TARAN	JPSS-1	31.44683	74.76720	12:56:25	D	4.30
139	TARN TARAN	TARN TARAN	JPSS-2	31.45116	74.79987	13:48:11	D	3.90
140	TARN TARAN	TARN TARAN	S-NPP	31.45118	74.80509	14:11:49	D	5.30
141	TARN TARAN	TARN TARAN	S-NPP	31.46898	74.82715	14:11:49	D	2.90
142	TARN TARAN	TARN TARAN	JPSS-2	31.46915	74.82339	13:48:11	D	15.10
143	TARN TARAN	TARN TARAN	S-NPP	31.47947	74.82221	14:11:49	D	4.60
144	TARN TARAN	TARN TARAN	JPSS-2	31.50829	74.91679	13:48:11	D	2.40

Details of residue burning events in Haryana on 15-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-I	JPSS-2	30.35162	76.92593	13:48:11	D	2.70
2	AMBALA	AMBALA-II	S-NPP	30.19175	76.68401	14:11:49	D	2.90
3	AMBALA	AMBALA-II	S-NPP	30.19408	76.68459	14:11:49	D	2.60
4	AMBALA	AMBALA-II	JPSS-2	30.26371	76.75793	13:48:11	D	2.00
5	AMBALA	AMBALA-II	JPSS-2	30.31646	76.78915	13:48:11	D	3.50
6	AMBALA	NARAINGARH	JPSS-1	30.36346	77.10163	12:56:25	D	2.70
7	AMBALA	SHAHZADPUR	JPSS-2	30.41482	76.96912	13:48:11	D	5.10
8	FARIDABAD	FARIDABAD	JPSS-1	28.34112	77.21703	01:45:43	N	1.10
9	FATEHABAD	FATEHABAD	JPSS-1	29.41079	75.51169	12:56:25	D	9.30
10	FATEHABAD	RATIA	JPSS-2	29.65681	75.64879	13:48:11	D	1.90
11	HISAR	BARWALA	JPSS-2	29.32511	76.03323	13:48:11	D	4.60
12	HISAR	HISAR-I	JPSS-2	29.11892	75.78237	02:38:10	N	1.20
13	JIND	JIND	S-NPP	29.42084	76.33737	12:31:32	D	7.20
14	JIND	NARWANA	S-NPP	29.74556	76.03288	12:31:32	D	2.50
15	JIND	UCHANA	JPSS-1	29.52716	76.05083	12:56:25	D	6.80
16	KAITHAL	GUHLA	JPSS-2	29.98826	76.35799	13:48:11	D	5.40
17	KAITHAL	GUHLA	JPSS-2	30.04940	76.22911	13:48:11	D	6.50
18	KAITHAL	GUHLA	JPSS-1	30.08925	76.43501	12:56:25	D	4.30
19	KAITHAL	GUHLA	S-NPP	30.14175	76.33900	14:11:49	D	3.00
20	KAITHAL	KAITHAL	JPSS-1	29.73494	76.47034	12:56:25	D	11.80
21	KAITHAL	KAITHAL	JPSS-1	29.81429	76.34528	12:56:25	D	3.90
22	KAITHAL	KAITHAL	JPSS-1	29.84191	76.43361	12:56:25	D	2.80
23	KAITHAL	PUNDRI	JPSS-2	29.84122	76.56749	13:48:11	D	2.90
24	KAITHAL	PUNDRI	JPSS-2	29.85369	76.56973	13:48:11	D	1.80
25	KARNAL	ASSANDH	JPSS-2	29.51769	76.56074	13:48:11	D	7.60
26	KARNAL	ASSANDH	S-NPP	29.60995	76.70813	12:31:32	D	3.70
27	KARNAL	KARNAL	JPSS-1	29.72150	76.93538	12:56:25	D	3.10
28	KURUKSHETRA	BABAIN	JPSS-1	30.04494	76.96871	12:56:25	D	8.20
29	KURUKSHETRA	BABAIN	JPSS-2	30.12420	77.02867	13:48:11	D	8.70
30	KURUKSHETRA	BABAIN	JPSS-2	30.12467	77.03296	13:48:11	D	8.70
31	KURUKSHETRA	BABAIN	JPSS-2	30.12695	77.03032	13:48:11	D	17.10
32	KURUKSHETRA	LADWA	JPSS-1	29.95447	76.97787	12:56:25	D	2.90

33	KURUKSHETRA	PEHOWA	JPSS-1	29.90473	76.54079	12:56:25	D	2.40
34	PALWAL	HATHIN	JPSS-1	27.99982	77.30763	12:56:25	D	5.00
35	PALWAL	HODAL	JPSS-2	27.88879	77.44678	13:48:11	D	4.40
36	PALWAL	PALWAL	JPSS-1	28.14288	77.46943	12:56:25	D	2.20
37	PANCHKULA	BARWALA	S-NPP	30.61493	76.97520	12:31:32	D	2.50
38	PANCHKULA	RAIPUR RANI	JPSS-2	30.51894	76.93871	13:48:11	D	4.00
39	PANCHKULA	RAIPUR RANI	JPSS-1	30.55279	76.99437	12:56:25	D	3.60
40	SONIPAT	GOHANA	JPSS-1	29.08195	76.67656	12:56:25	D	5.90
41	SONIPAT	MURTHAL	JPSS-2	29.06039	77.01735	13:48:11	D	2.80
42	YAMUNANAGAR	RADAUR	JPSS-1	30.13642	77.14135	12:56:25	D	3.90

Details of residue burning events in Uttar Pradesh on 15-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	ATRAULI	JPSS-1	28.03152	78.42784	12:56:25	D	2.30
2	ALIGARH	GABHANA	S-NPP	27.99090	78.05678	12:31:32	D	1.60
3	ALIGARH	GABHANA	S-NPP	27.99292	78.05763	12:31:32	D	2.60
4	ALIGARH	GABHANA	JPSS-1	28.10750	77.81304	12:56:25	D	2.70
5	ALIGARH	KHAIR	JPSS-2	27.92219	77.53682	13:48:11	D	6.80
6	ALIGARH	KHAIR	JPSS-2	27.92395	77.53568	13:48:11	D	6.60
7	ALIGARH	KHAIR	JPSS-2	27.94816	77.70248	13:48:11	D	3.80
8	ALIGARH	KHAIR	JPSS-2	27.95135	77.73283	13:48:11	D	5.90
9	ALIGARH	KHAIR	S-NPP	27.96339	77.65929	14:11:49	D	2.80
10	ALIGARH	KHAIR	S-NPP	27.96355	77.65957	14:11:49	D	2.30
11	ALIGARH	KHAIR	JPSS-1	27.97504	77.55099	12:56:25	D	3.40
12	ALIGARH	KHAIR	JPSS-1	27.97592	77.55537	12:56:25	D	4.20
13	ALIGARH	KHAIR	JPSS-2	28.03033	77.52596	13:48:11	D	3.30
14	ALIGARH	KHAIR	JPSS-2	28.03269	77.52647	13:48:11	D	2.70
15	ALIGARH	KHAIR	JPSS-2	28.04512	77.52473	13:48:11	D	8.20
16	ALIGARH	KHAIR	JPSS-2	28.04584	77.70213	13:48:11	D	3.30
17	ALIGARH	KHAIR	JPSS-1	28.04637	77.71072	12:56:25	D	2.50
18	ALIGARH	KHAIR	JPSS-2	28.04705	77.70299	13:48:11	D	6.50

19	ALIGARH	KOL	JPSS-2	27.76882	78.16573	13:48:11	D	2.20
20	ALIGARH	KOL	JPSS-2	27.88000	78.16271	13:48:11	D	4.40
21	ALIGARH	KOL	JPSS-2	27.88199	78.16444	13:48:11	D	4.70
22	ALIGARH	KOL	JPSS-1	27.96113	78.13528	12:56:25	D	4.10
23	BADAUN	DATAGANJ	JPSS-1	28.04831	79.33261	12:56:25	D	2.50
24	BAGHPAT	BAGHPAT	JPSS-1	28.87399	77.32561	12:56:25	D	3.40
25	BARABANKI	FATEHPUR	JPSS-2	27.10807	81.26527	13:48:11	D	2.30
26	BARABANKI	FATEHPUR	JPSS-2	27.11160	81.26583	13:48:11	D	5.20
27	BARABANKI	FATEHPUR	JPSS-2	27.11325	81.26469	13:48:11	D	1.80
28	BARABANKI	FATEHPUR	JPSS-1	27.19646	81.20647	12:56:25	D	11.30
29	BARABANKI	FATEHPUR	S-NPP	27.19681	81.19582	12:31:32	D	2.80
30	BARABANKI	FATEHPUR	JPSS-2	27.23577	81.21023	13:48:11	D	3.20
31	BARABANKI	FATEHPUR	JPSS-2	27.33819	81.28986	13:48:11	D	5.70
32	BARABANKI	NAWABGANJ	S-NPP	27.01383	81.23756	12:31:32	D	2.30
33	BARABANKI	RAMNAGAR	S-NPP	27.11207	81.30329	12:31:32	D	1.60
34	BARABANKI	RAMNAGAR	JPSS-1	27.12279	81.28522	12:56:25	D	2.20
35	BAREILLY	BAHERI	JPSS-2	28.79409	79.40990	02:38:10	N	0.40
36	BULANDSAHAR	DIBAI	JPSS-1	28.24532	78.14226	12:56:25	D	2.80
37	ETAH	JALESAR	JPSS-1	27.40455	78.39268	12:56:25	D	2.40
38	FATEHPUR	BINKI	JPSS-1	26.12030	80.42348	12:56:25	D	8.80
39	FATEHPUR	KHAGA	JPSS-1	25.65594	81.17182	12:56:25	D	3.30
40	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.11181	77.53786	12:31:32	D	2.80
41	GAUTAMBUDHNAGAR	JEVAR	JPSS-2	28.13527	77.61611	13:48:11	D	5.70
42	HAPUR	HAPUR	JPSS-2	28.62354	77.80216	13:48:11	D	3.60
43	KAUSHAMBI	SIRATHU	S-NPP	25.63778	81.22497	12:31:32	D	8.70
44	KHERI	MOHMADI	JPSS-1	27.98646	80.23624	01:45:43	N	0.50
45	KHERI	PALIA KALAN	JPSS-1	28.58509	80.67596	01:45:43	N	0.70
46	LUCKNOW	LUCKNOW	JPSS-2	26.64903	80.86453	13:48:11	D	2.30
47	MAHARAJGANJ	NAUTANWA	JPSS-1	27.30819	83.45997	12:56:25	D	3.20
48	MATHURA	CHHATA	S-NPP	27.84972	77.43497	14:11:49	D	8.20
49	MATHURA	CHHATA	S-NPP	27.85060	77.43558	14:11:49	D	8.70
50	MATHURA	CHHATA	JPSS-2	27.85404	77.43478	13:48:11	D	8.50
51	MATHURA	MAT	JPSS-2	27.89326	77.60025	13:48:11	D	2.10
52	MATHURA	MATHURA	JPSS-1	27.33050	77.64180	12:56:25	D	5.10

53	MATHURA	MATHURA	JPSS-2	27.33448	77.63364	13:48:11	D	2.60
54	MATHURA	MATHURA	JPSS-2	27.48431	77.56241	13:48:11	D	7.40
55	MIRZAPUR	MARIHAN	JPSS-1	24.82187	82.71576	12:56:25	D	5.10
56	MIRZAPUR	MARIHAN	JPSS-1	24.82459	82.71099	12:56:25	D	3.60
57	MORADABAD	BILARI	JPSS-1	28.54419	78.72469	12:56:25	D	3.30
58	MUZAFARNAGAR	MUZAFFARNAGAR	JPSS-2	29.61394	77.54886	13:48:11	D	2.90
59	PILHIBHIT	PURANPUR	JPSS-2	28.47239	80.07256	02:38:10	N	0.50
60	PILHIBHIT	PURANPUR	JPSS-2	28.51379	80.03577	02:38:10	N	0.40
61	RAMPUR	SHAHBAD	JPSS-1	28.50776	79.04631	12:56:25	D	3.60
62	SAMBHAL	CHANDAUSI	JPSS-2	28.47492	78.70375	13:48:11	D	4.10
63	SAMBHAL	SAMBHAL	JPSS-1	28.55286	78.45796	12:56:25	D	6.00
64	SAMBHAL	SAMBHAL	JPSS-1	28.62485	78.63807	12:56:25	D	8.90
65	SAMBHAL	SAMBHAL	JPSS-1	28.66668	78.60257	12:56:25	D	7.40
66	SAMBHAL	SAMBHAL	JPSS-1	28.66715	78.60394	12:56:25	D	7.00
67	SHAHJAHANPUR	JALALABAD	JPSS-2	27.70380	79.71381	13:48:11	D	2.00
68	SHAHJAHANPUR	JALALABAD	JPSS-2	27.70707	79.71391	13:48:11	D	3.90
69	SHAHJAHANPUR	PUWANYA	JPSS-1	28.13776	80.15470	01:45:43	N	0.60
70	SHAHJAHANPUR	PUWANYA	JPSS-2	28.28683	80.08781	02:38:10	N	0.40
71	SHAHJAHANPUR	SHAHJAHANPUR	JPSS-2	27.81926	79.67110	13:48:11	D	5.20
72	SHAMLI	SHAMLI	JPSS-2	29.63489	77.46078	13:48:11	D	1.50
73	SITAPUR	MAHMUDABAD	JPSS-2	27.24094	81.20966	13:48:11	D	3.20
74	SITAPUR	MAHMUDABAD	JPSS-1	27.25541	81.18893	12:56:25	D	3.40
75	SITAPUR	MAHMUDABAD	JPSS-1	27.27502	81.13368	12:56:25	D	3.40
76	SITAPUR	MAHMUDABAD	JPSS-1	27.32590	81.19710	12:56:25	D	3.90
77	SITAPUR	MAHMUDABAD	S-NPP	27.32698	81.21410	12:31:32	D	2.70
78	UNNAO	PURWA	JPSS-1	26.54901	80.79417	12:56:25	D	3.60

Details of residue burning events in Rajasthan on 15-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARAN	ANTA	S-NPP	25.20983	76.35705	14:11:49	D	0.80
2	BARAN	ATRU	JPSS-2	24.93101	76.61793	13:48:11	D	3.70
3	BARAN	KISHANGUNJ	S-NPP	24.92634	76.81129	14:11:49	D	5.60
4	BARAN	KISHANGUNJ	JPSS-2	24.92792	76.80826	13:48:11	D	5.90
5	BARAN	SHAHBAD	S-NPP	25.13082	76.87746	14:11:49	D	3.40
6	BHARATPUR	WEIR	S-NPP	26.98973	77.17137	14:11:49	D	2.10
7	BUNDI	KESHORAIPATAN	S-NPP	25.39063	76.07240	14:11:49	D	5.40
8	BUNDI	KESHORAIPATAN	JPSS-2	25.45304	76.01881	13:48:11	D	8.60
9	BUNDI	KESHORAIPATAN	JPSS-2	25.45365	76.02361	13:48:11	D	6.20
10	BUNDI	KESHORAIPATAN	JPSS-2	25.45672	76.01823	13:48:11	D	6.70
11	GANGANAGAR	GANGANAGAR	JPSS-1	29.98249	73.80937	12:56:25	D	2.30
12	GANGANAGAR	PADAMPUR	JPSS-2	29.76565	73.62057	13:48:11	D	5.70
13	HANUMANGARH	HANUMANGARH	S-NPP	29.42248	74.38741	12:31:32	D	4.90
14	HANUMANGARH	HANUMANGARH	S-NPP	29.42521	74.38822	12:31:32	D	5.80
15	HANUMANGARH	HANUMANGARH	JPSS-1	29.58259	74.21524	12:56:25	D	3.30
16	HANUMANGARH	RAWATSAR	S-NPP	29.30271	74.39656	14:11:49	D	2.70
17	HANUMANGARH	TIBI	JPSS-1	29.48469	74.54185	12:56:25	D	2.40
18	HANUMANGARH	TIBI	JPSS-1	29.48749	74.54245	12:56:25	D	4.00
19	HANUMANGARH	TIBI	JPSS-2	29.51988	74.54105	13:48:11	D	2.70
20	KOTA	DIGOD	JPSS-2	25.15876	76.13562	13:48:11	D	4.70
21	KOTA	DIGOD	JPSS-2	25.26935	76.12564	13:48:11	D	3.20
22	SWAIMADHOPUR	KHANDAR	S-NPP	25.97466	76.62770	14:11:49	D	3.20
23	SWAIMADHOPUR	KHANDAR	JPSS-2	25.97671	76.62524	13:48:11	D	10.40

Details of residue burning events in Madhya Pradesh on 15-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ASHOKNAGAR	ASHOKNAGAR	JPSS-1	24.56562	77.52508	12:56:25	D	2.50
2	ASHOKNAGAR	MUNGAOLI	JPSS-1	24.55293	77.91120	12:56:25	D	2.20
3	BHIND	BHIND	JPSS-1	26.57302	78.64604	12:56:25	D	3.20
4	BHIND	LAHAR	JPSS-1	25.97214	78.91550	12:56:25	D	3.10
5	DAMOH	BATIAGARH	JPSS-1	24.13673	79.45797	01:45:43	N	0.50
6	DAMOH	BATIAGARH	JPSS-1	24.13778	79.45734	01:45:43	N	0.30
7	DATIA	SEONDHA	JPSS-1	26.07118	78.81788	12:56:25	D	3.10
8	MORENA	JORA	JPSS-1	26.36283	77.71602	12:56:25	D	1.60
9	MORENA	JORA	JPSS-2	26.36545	77.65656	13:48:11	D	4.90
10	MORENA	JORA	JPSS-2	26.36591	77.66062	13:48:11	D	6.20
11	VIDESHA	LETERI	JPSS-2	24.29089	77.37166	13:48:11	D	7.10

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

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