

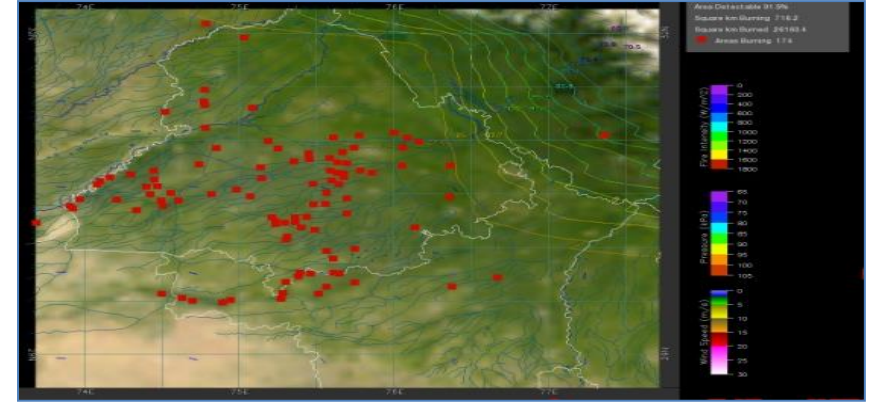
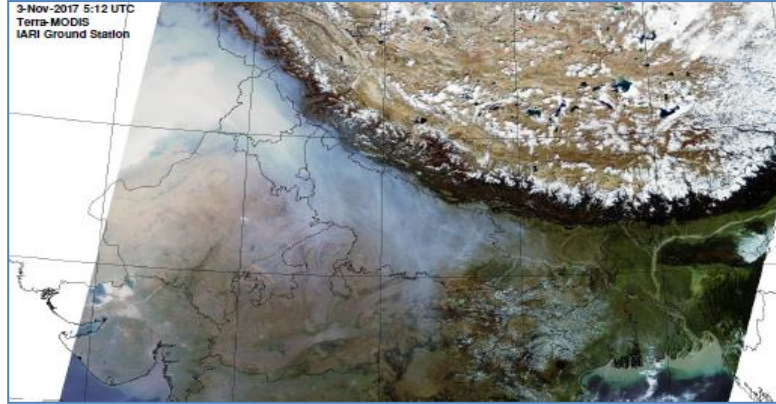


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2025

**Bulletin
No. 40**

**Events Date:
24-Oct-2025**

**Issued on:
24-Oct-2025**



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

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

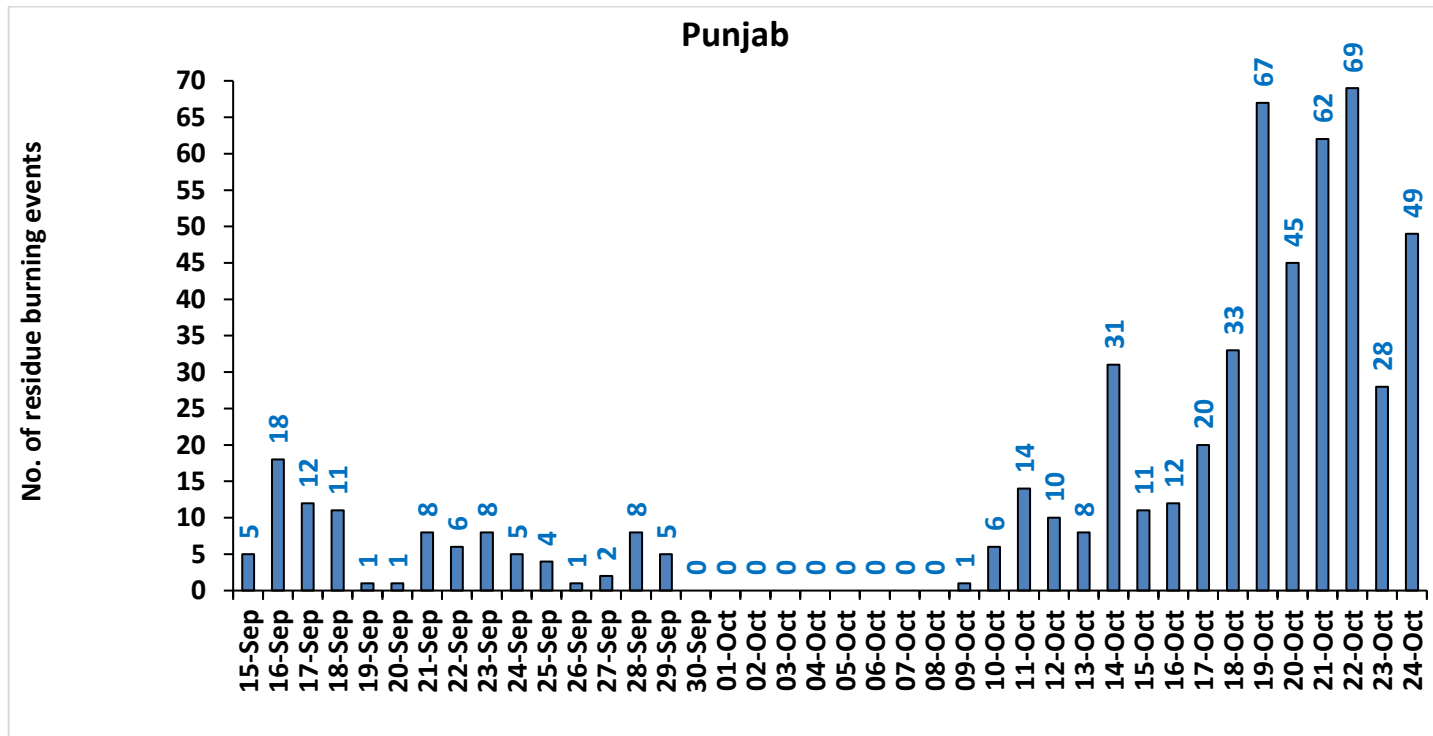
<https://creams.iari.res.in>



Highlights for 24-Oct-2025

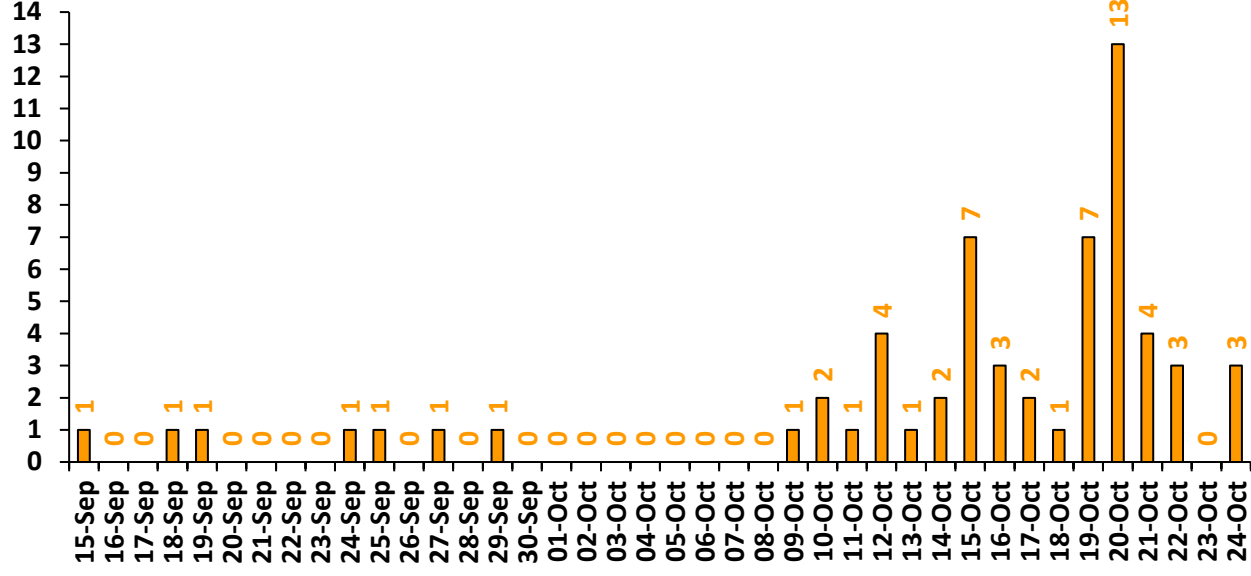
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **144** residue burning events in the six study States on **24-Oct-2025**.
- The state wise events detected on **24-Oct-2025** were **49** in Punjab, **03** in Haryana, **17** in UP, **00** in Delhi, **23** in Rajasthan and **52** in MP.
- Total **2161** burning events were detected in the six states between **15-Sept-2025** and **24-Oct-2025**, which are distributed as **561, 61, 734, 03, 358** and **444** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

Temporal distribution of rice residue burning events for the study States in 2025



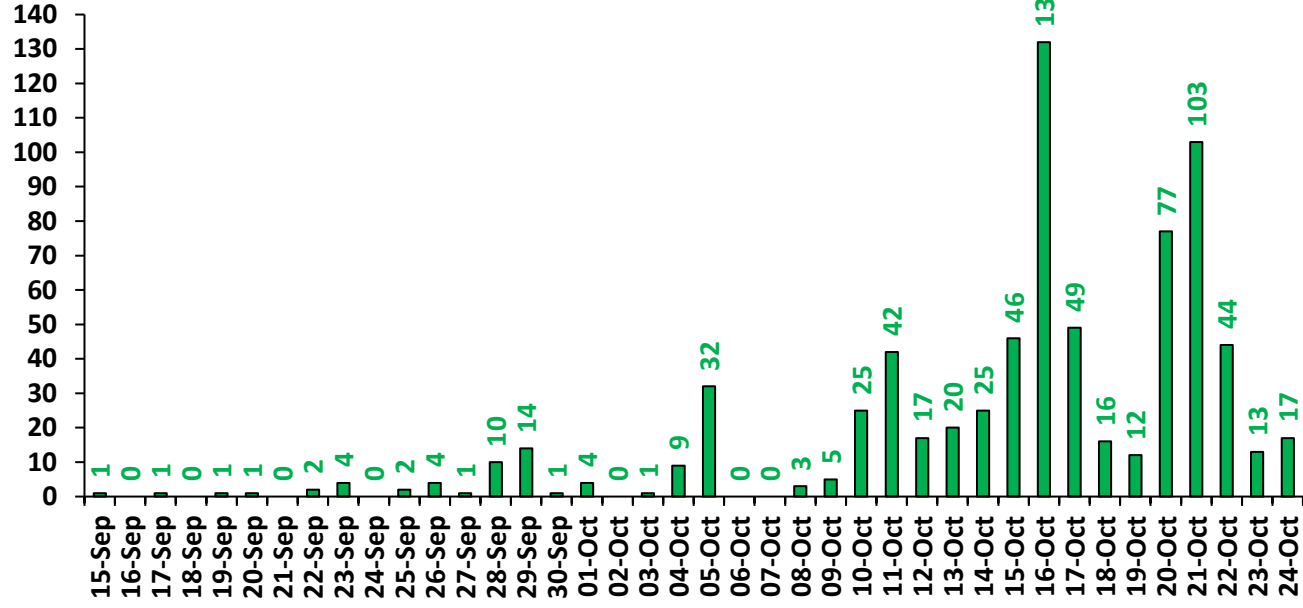
Haryana

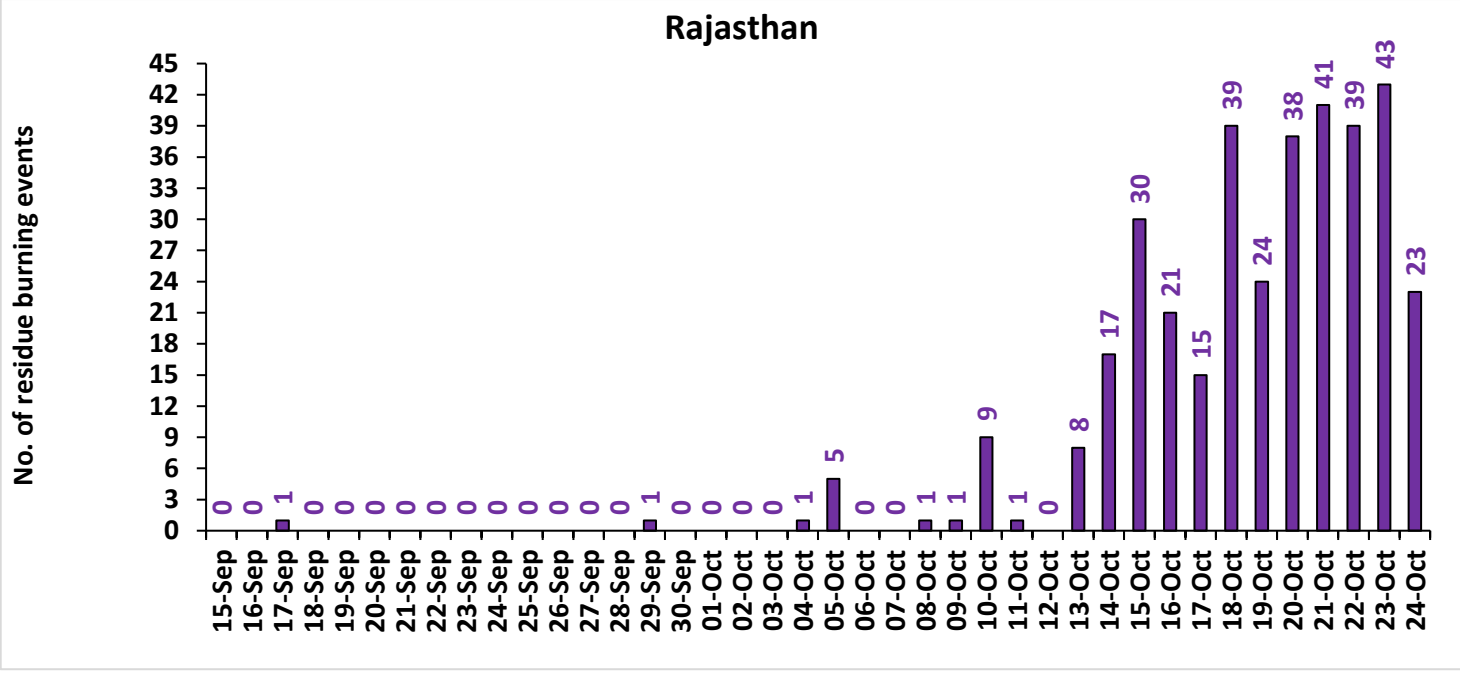
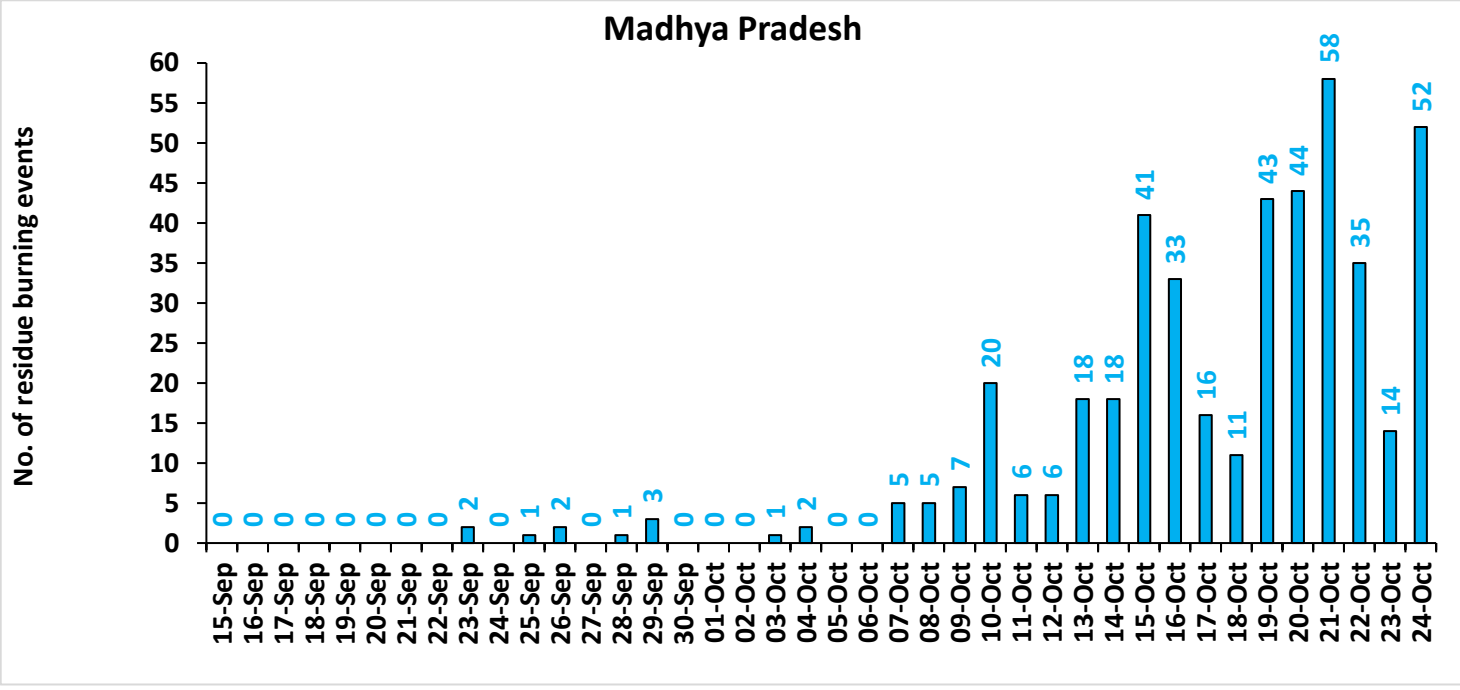
No. of residue burning events

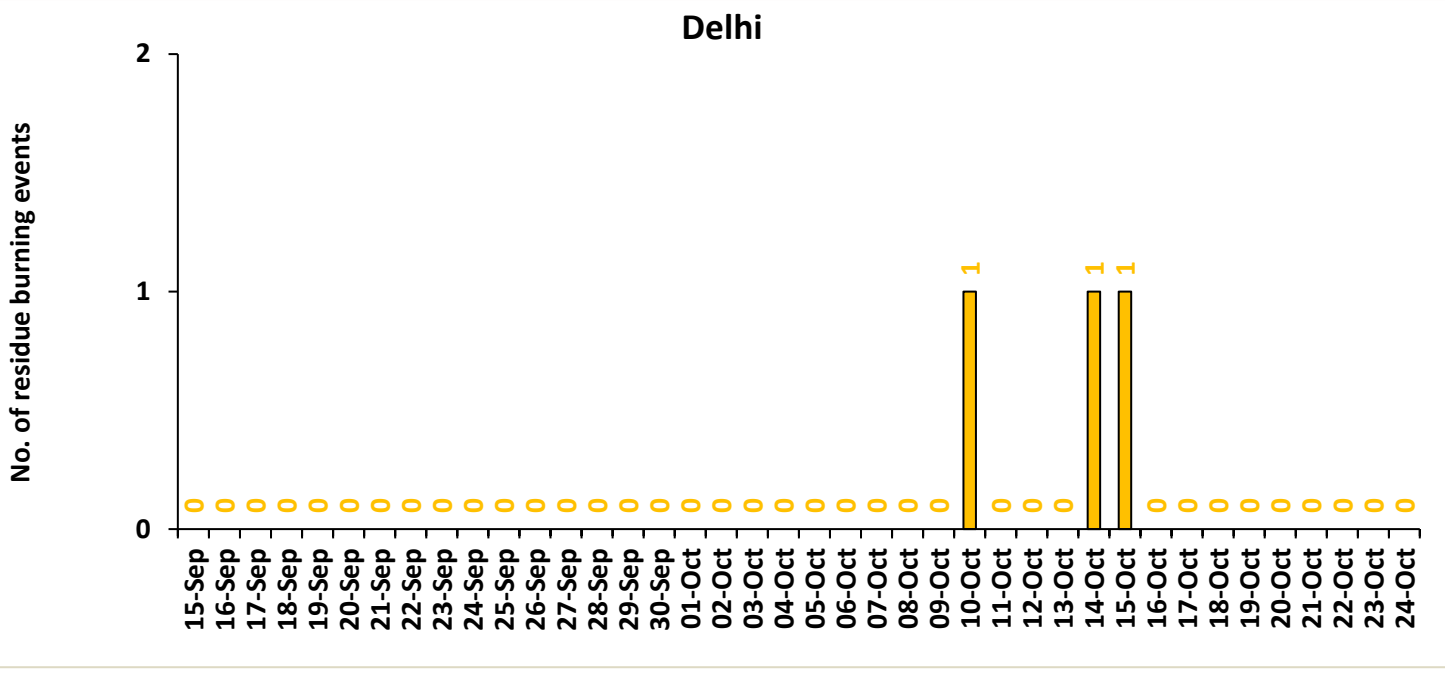


Uttar Pradesh

No. of residue burning events

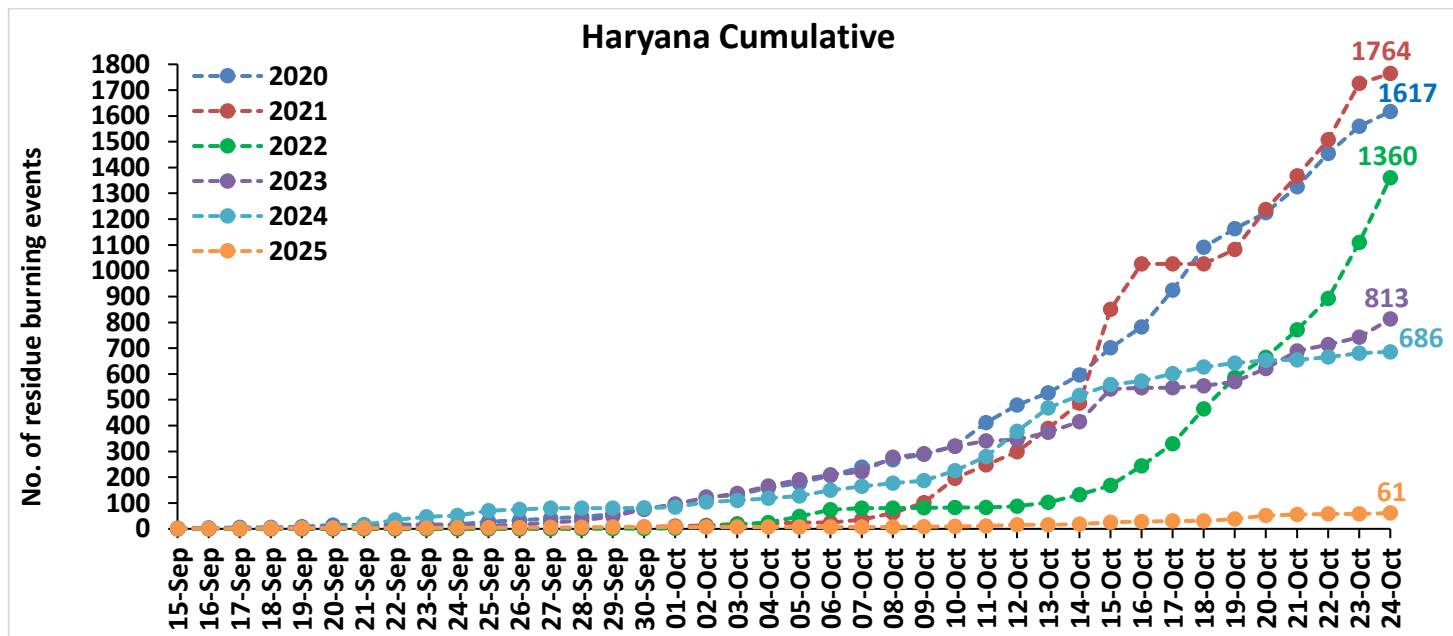
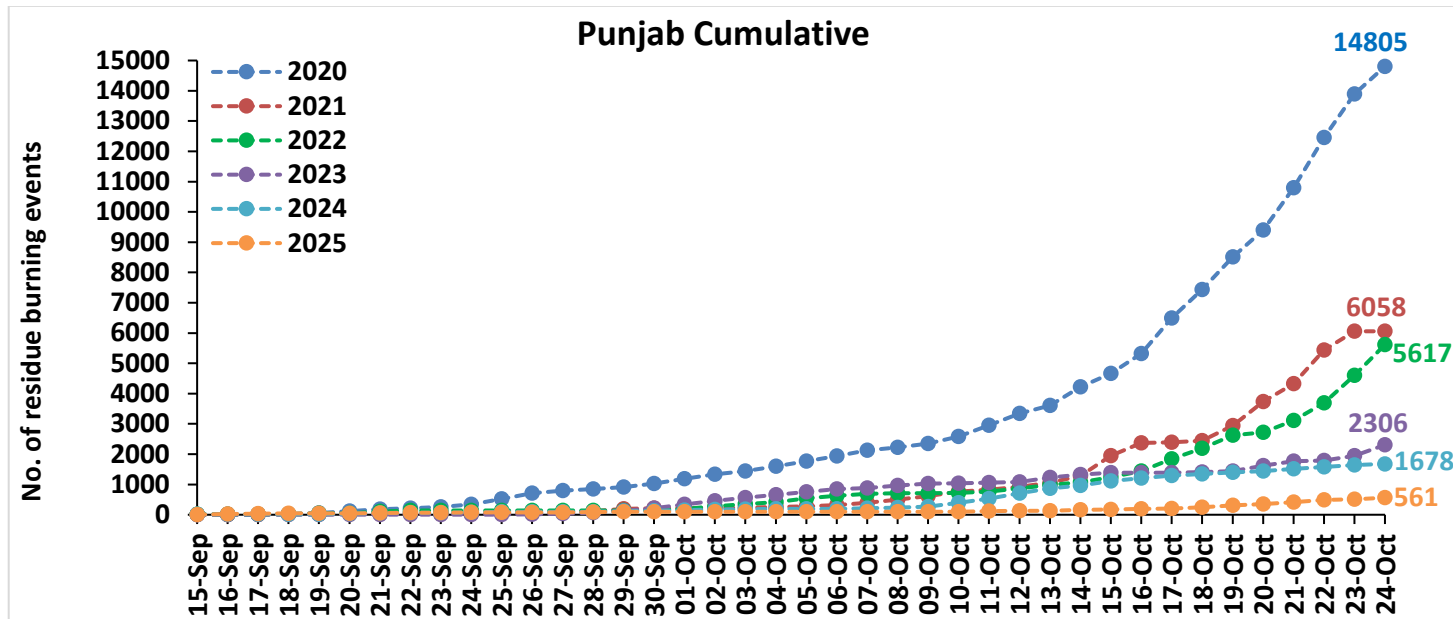


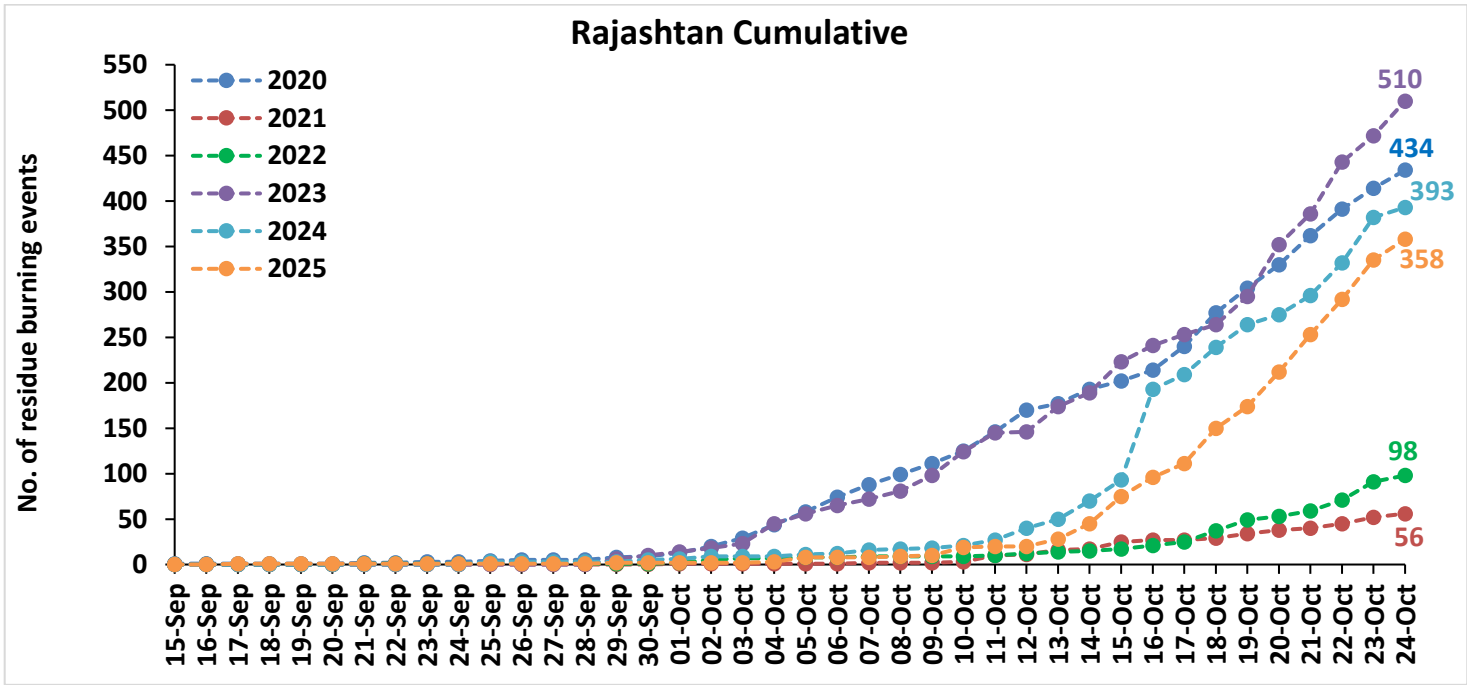
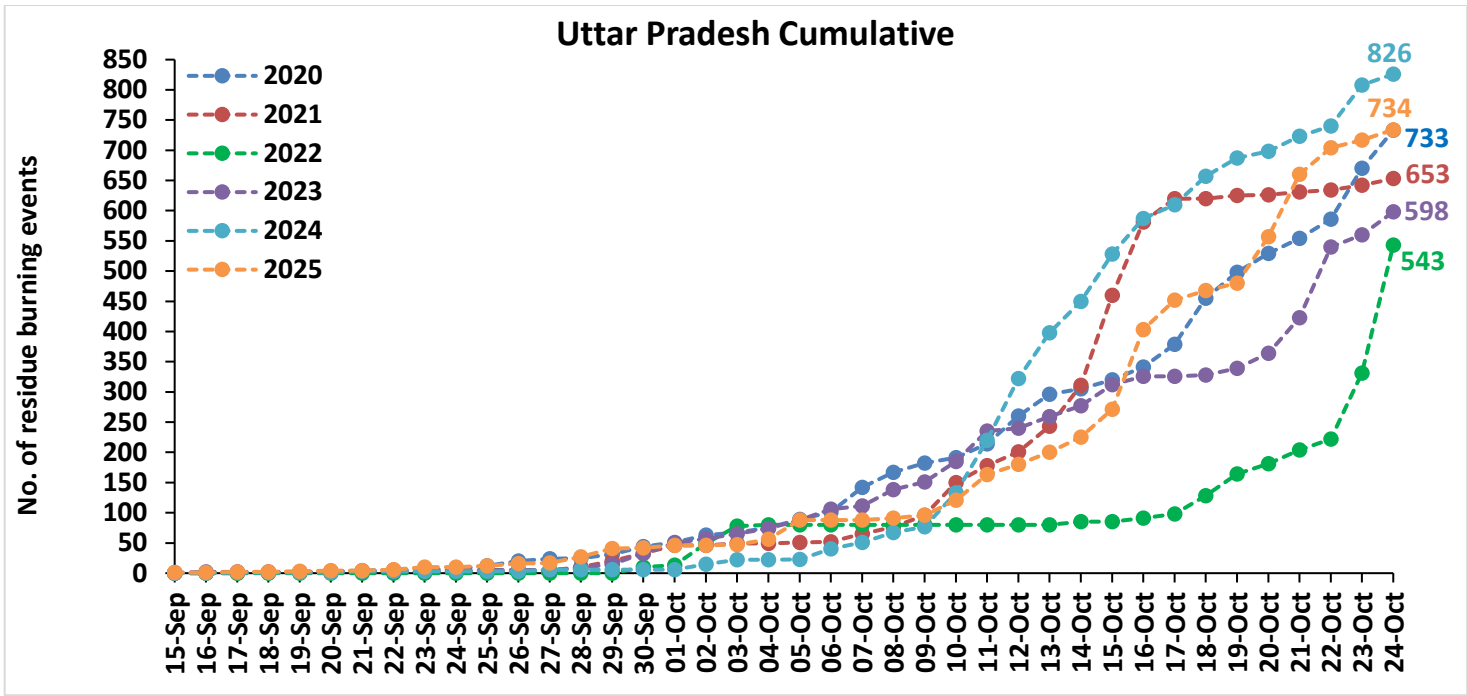


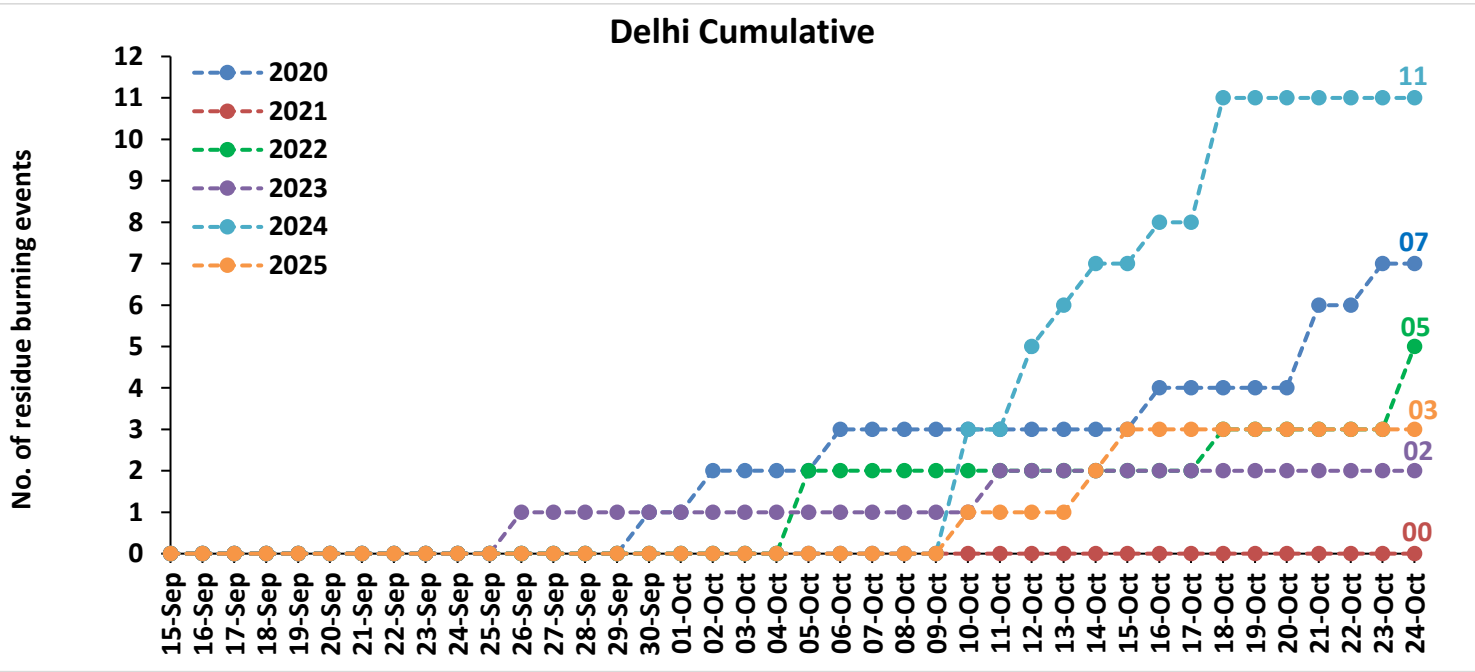
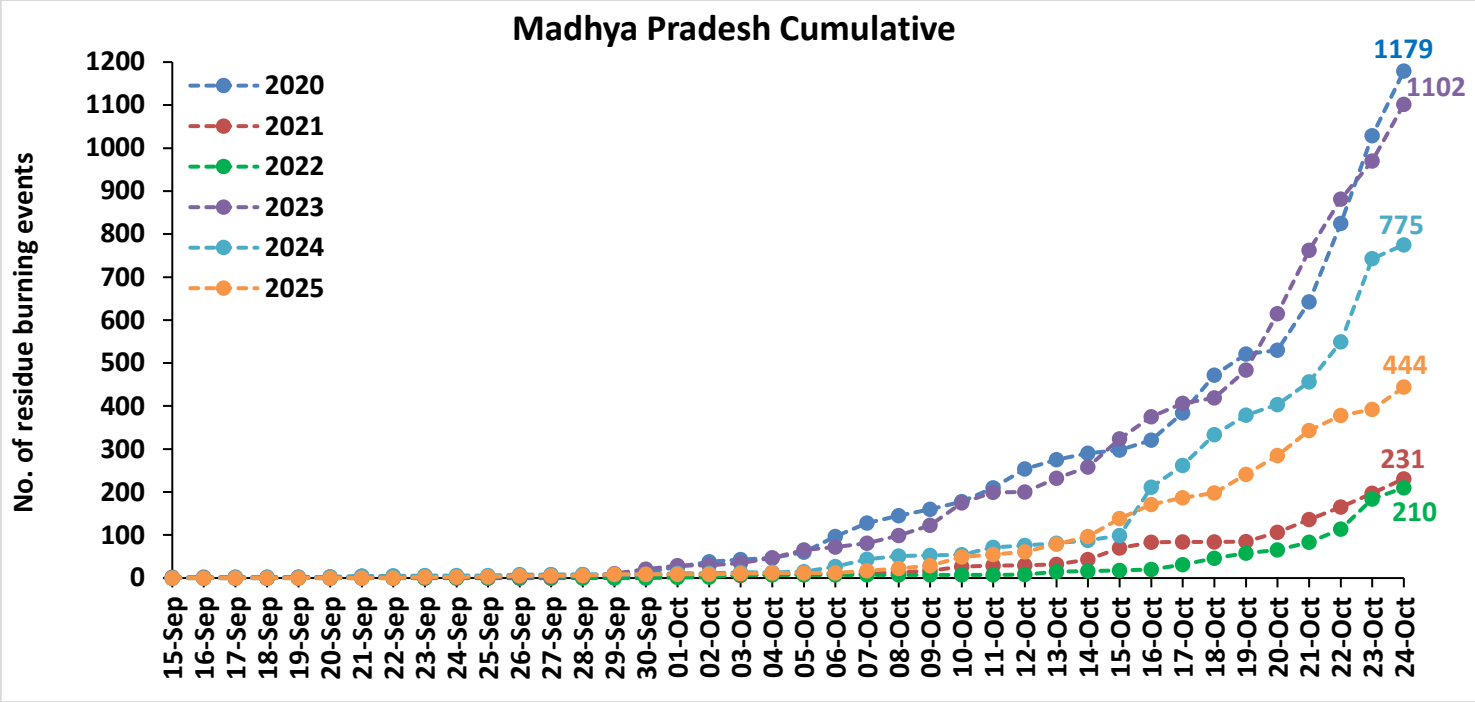


Comparison of residue burning events in current year (2025) with previous years (2020,2021,2022, 2023 and 2024) for the study

States

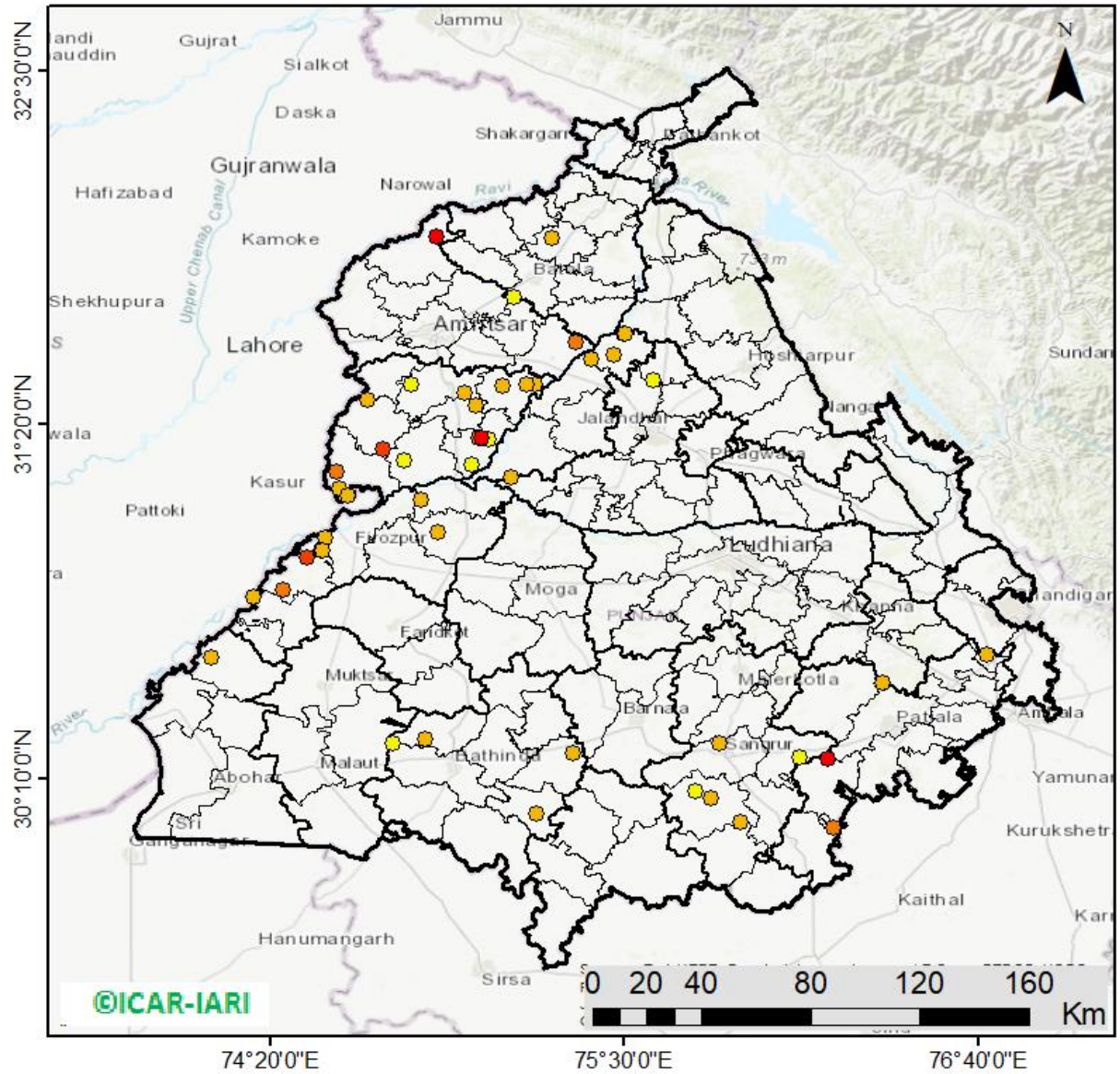






Punjab

RICE RESIDUE BURNING IN PUNJAB



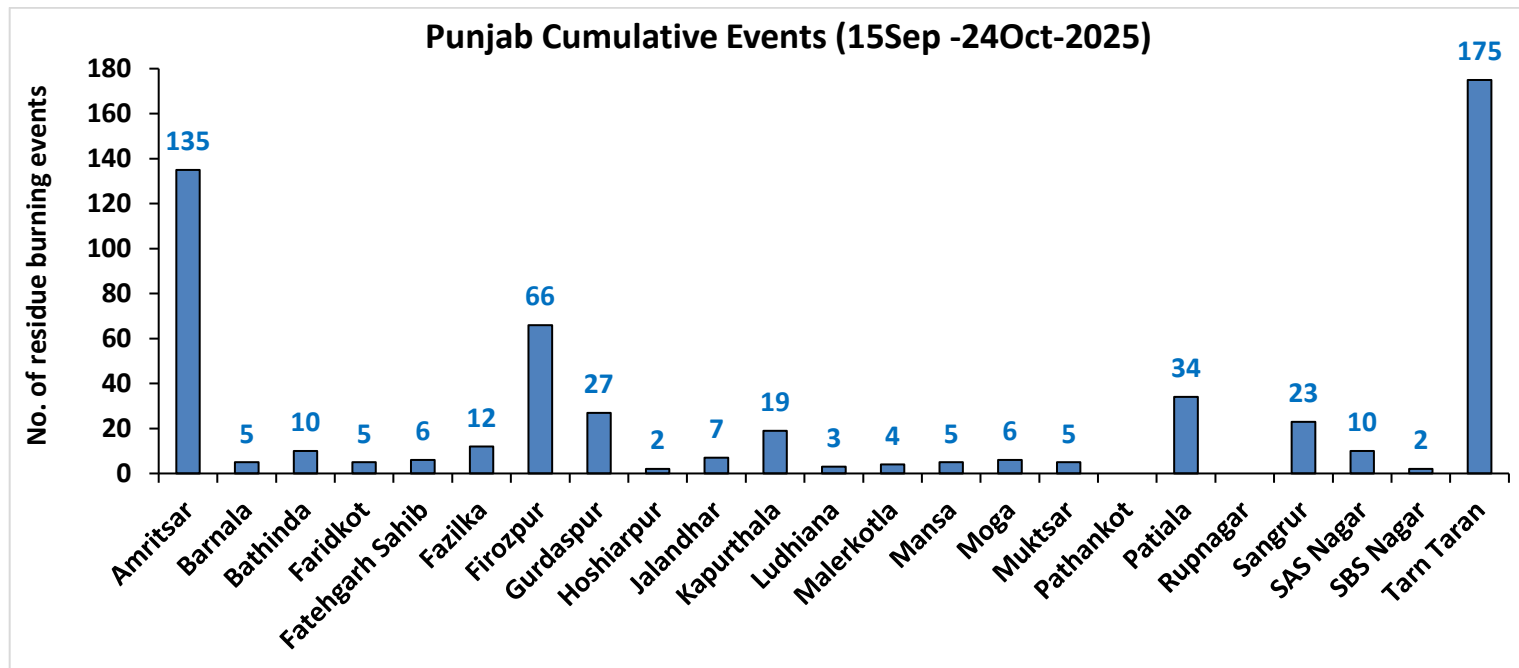
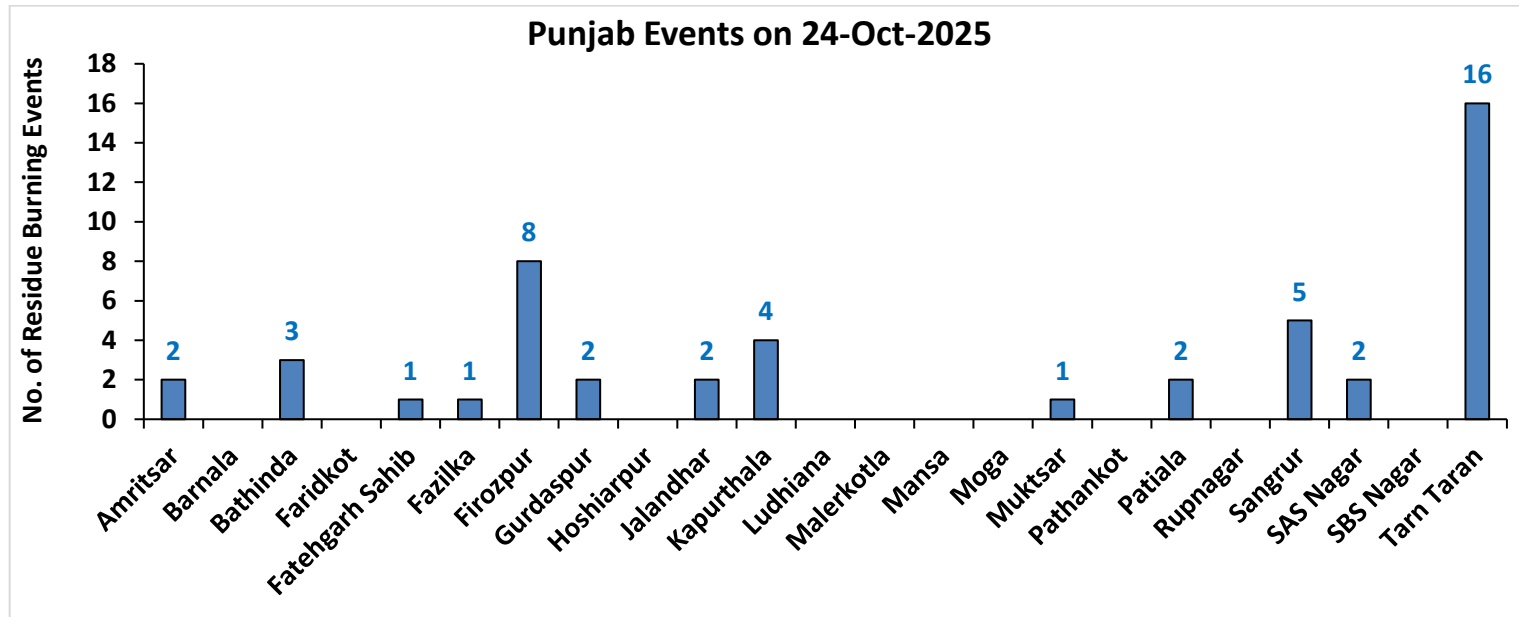
49 burning events detected in Punjab during (24th Oct 2025)

Fire Intensity (W/m²)

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

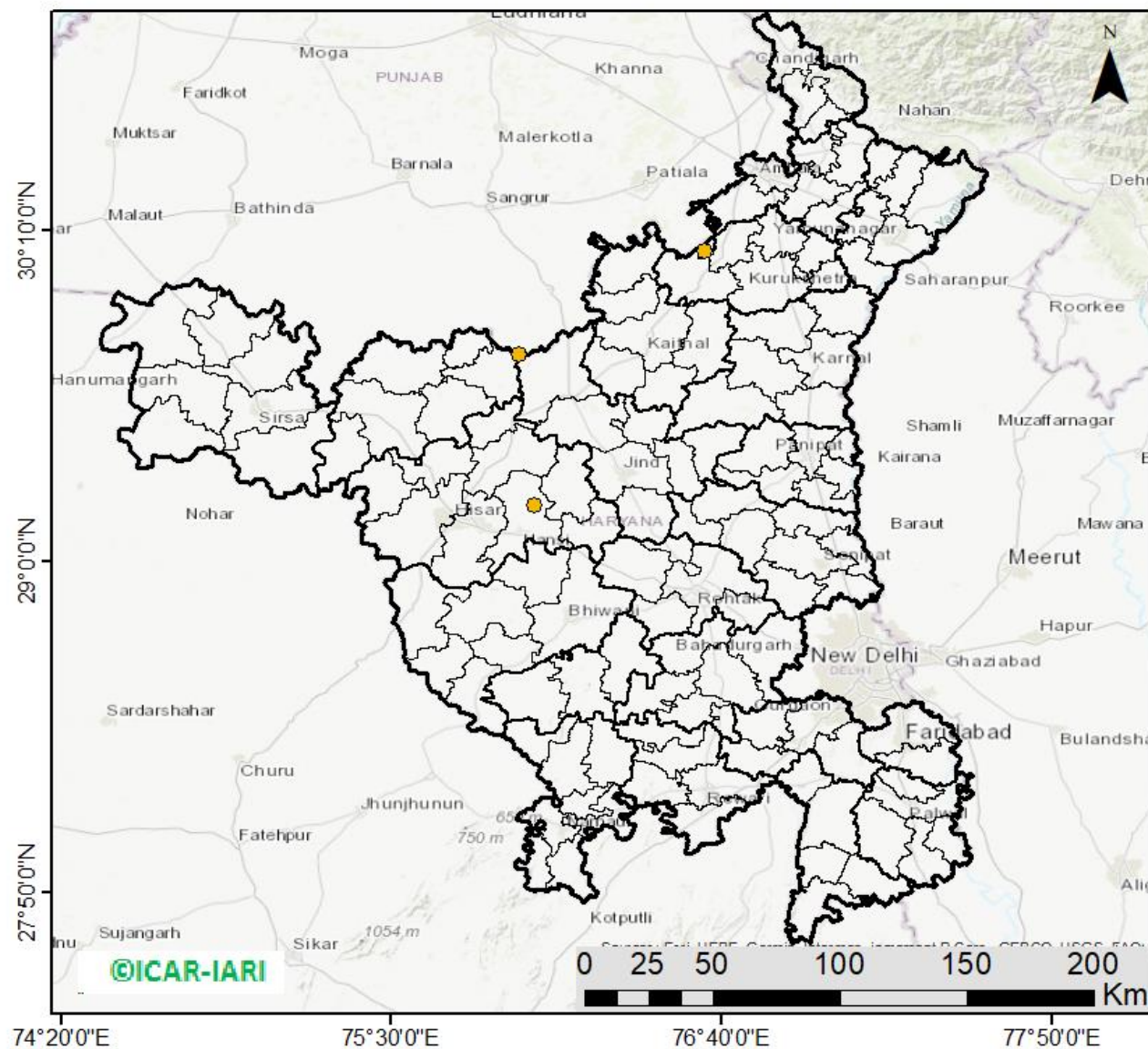


District-wise cumulative number of residues burning events in Punjab (15Sep-24Oct-2025)



Haryana

RICE RESIDUE BURNING IN HARYANA



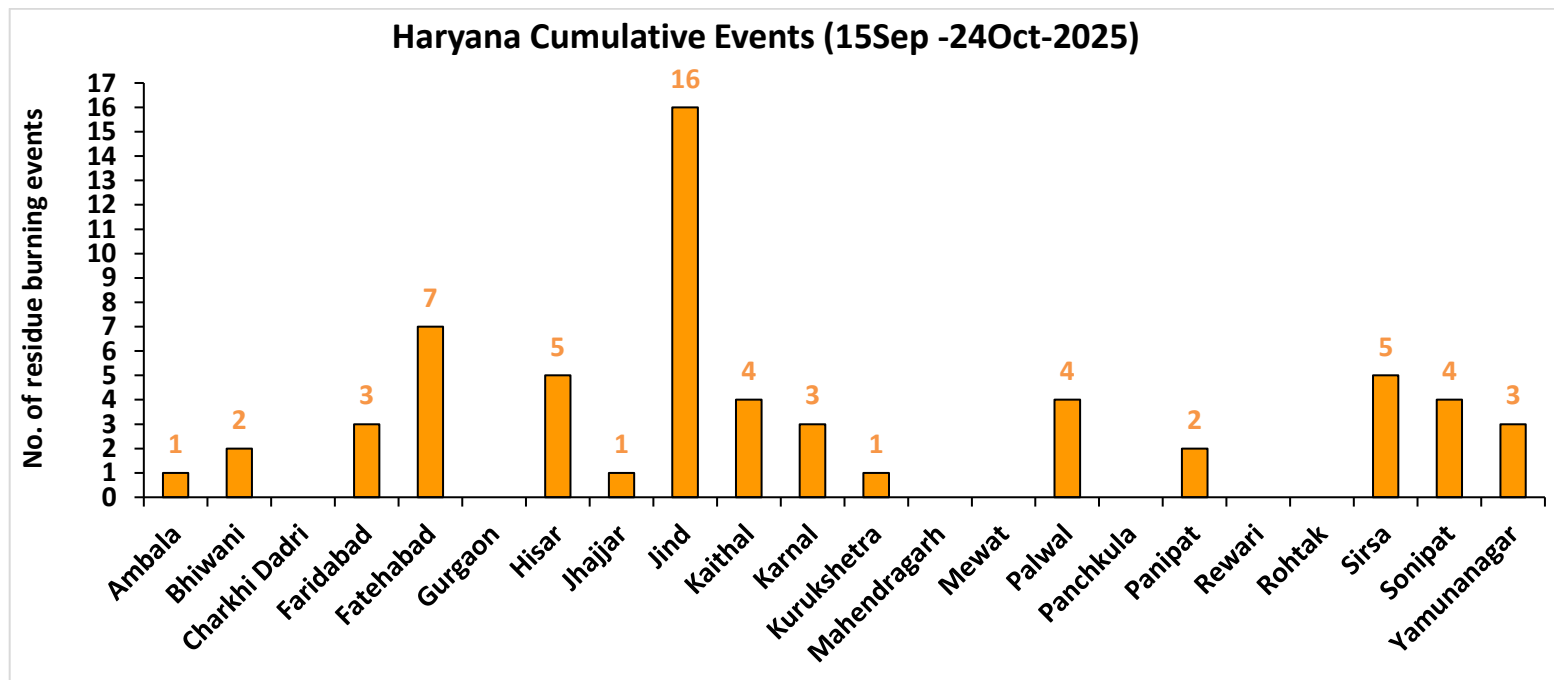
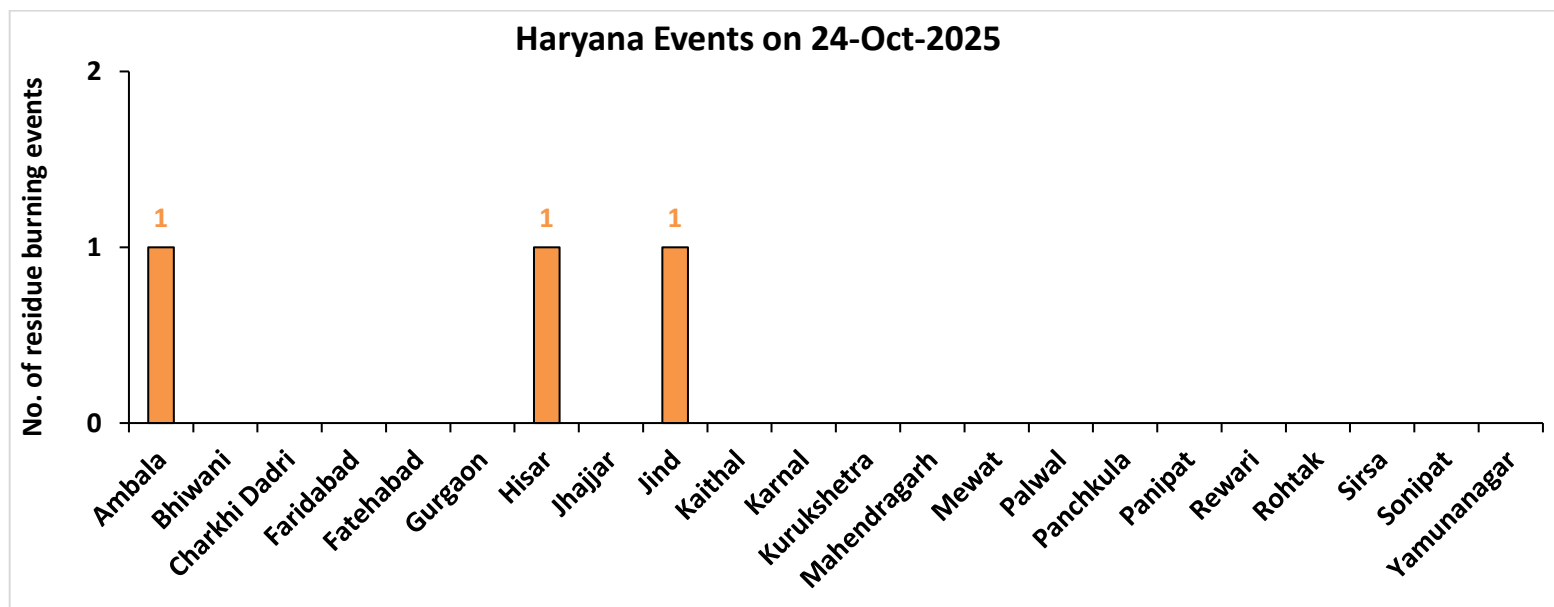
03 burning events
detected in Haryana on
(24th Oct 2025)

Fire Intensity (W/m²)

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

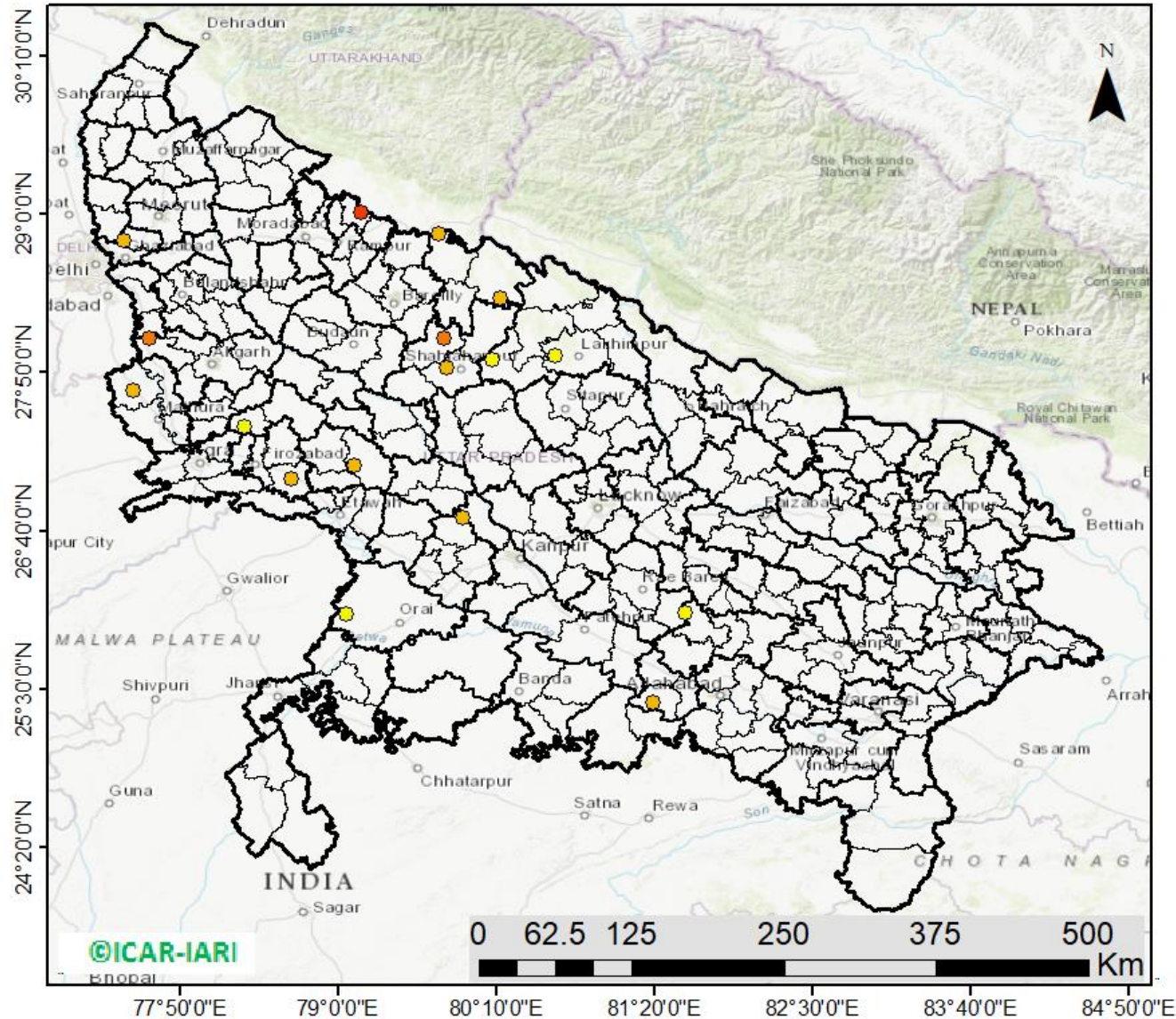


District-wise cumulative number of residues burning events in Haryana (15Sep-24Oct-2025)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



17 burning events detected in Uttar Pradesh on (24th Oct 2025)

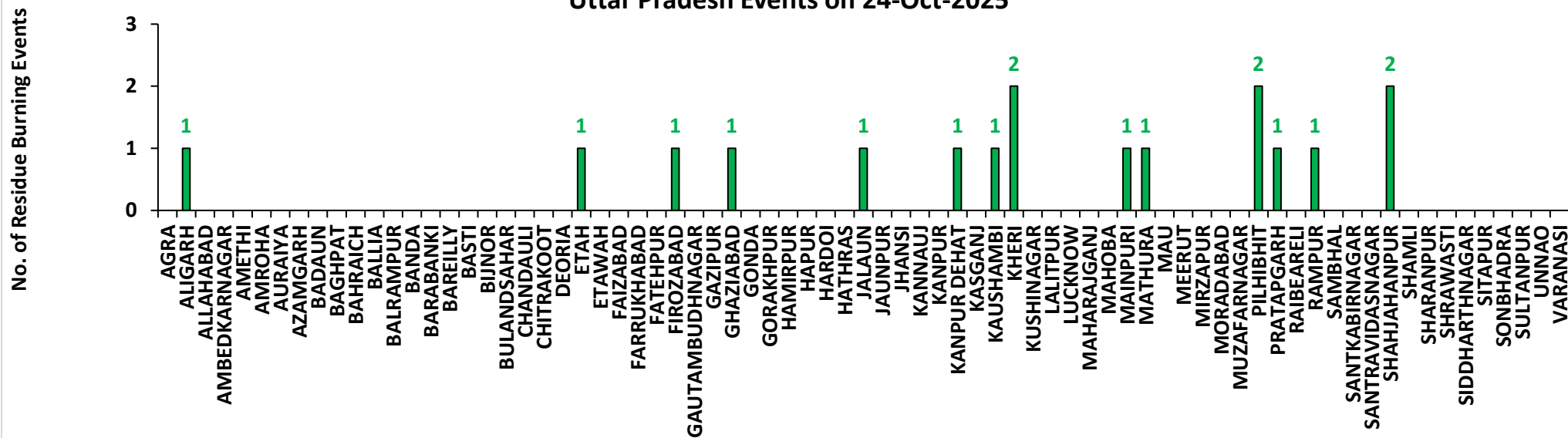
Fire Intensity (W/m²)

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

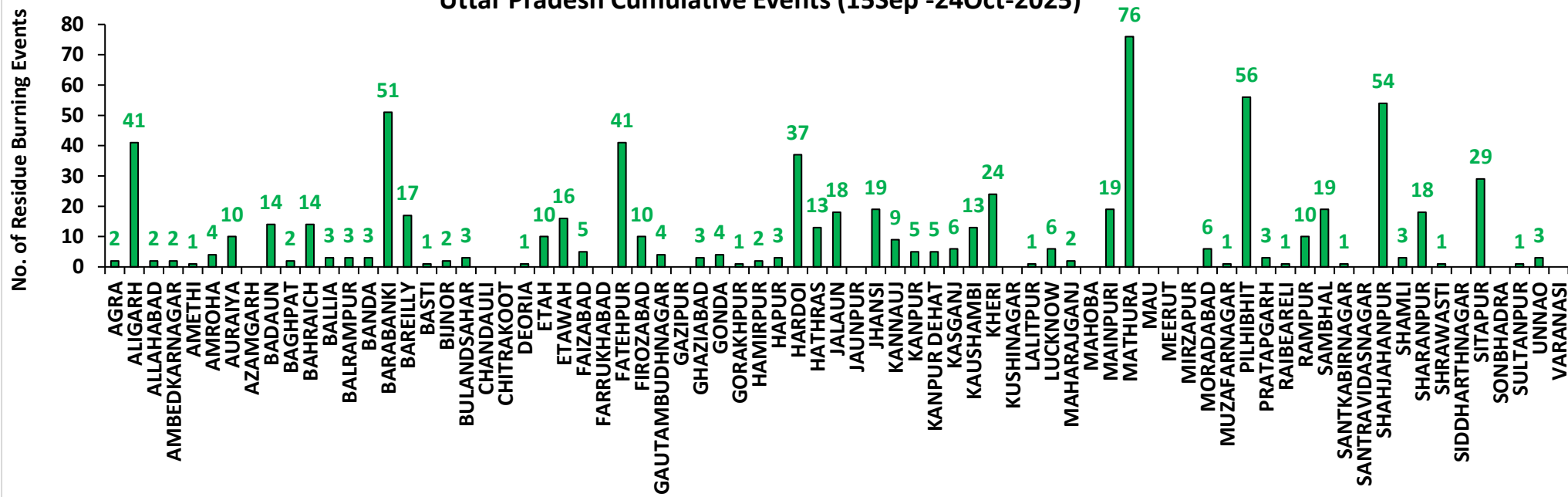


District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-24Oct-2025)

Uttar Pradesh Events on 24-Oct-2025

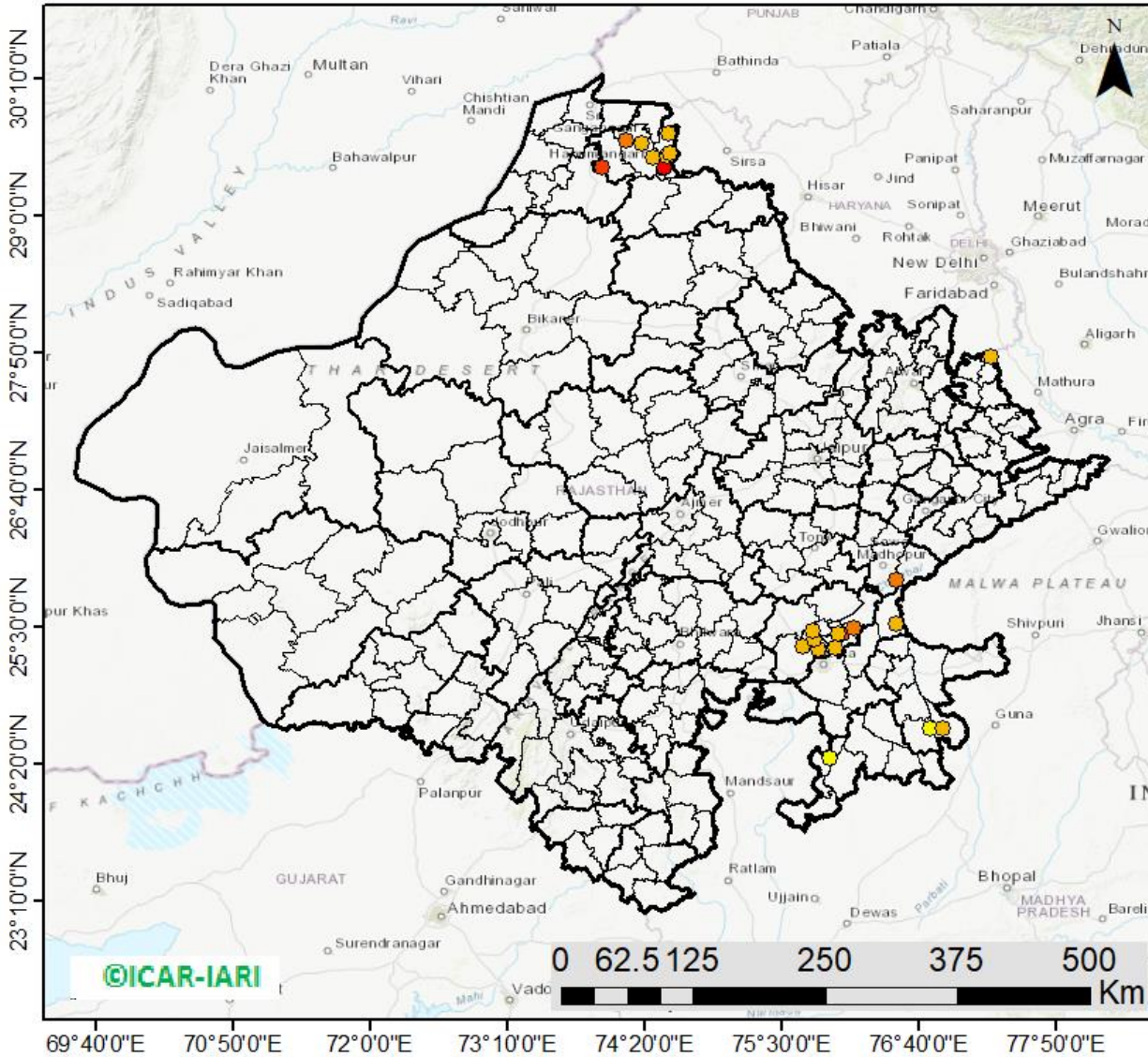


Uttar Pradesh Cumulative Events (15Sep -24Oct-2025)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



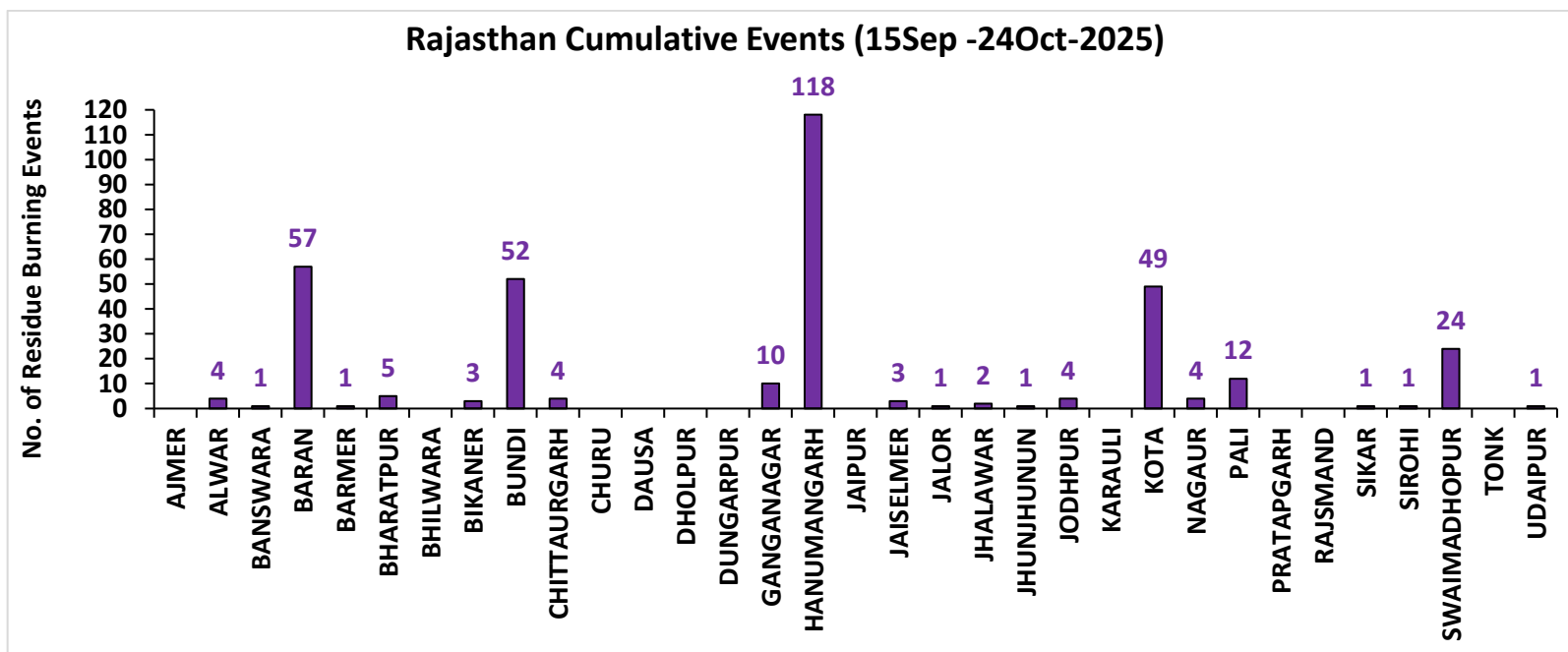
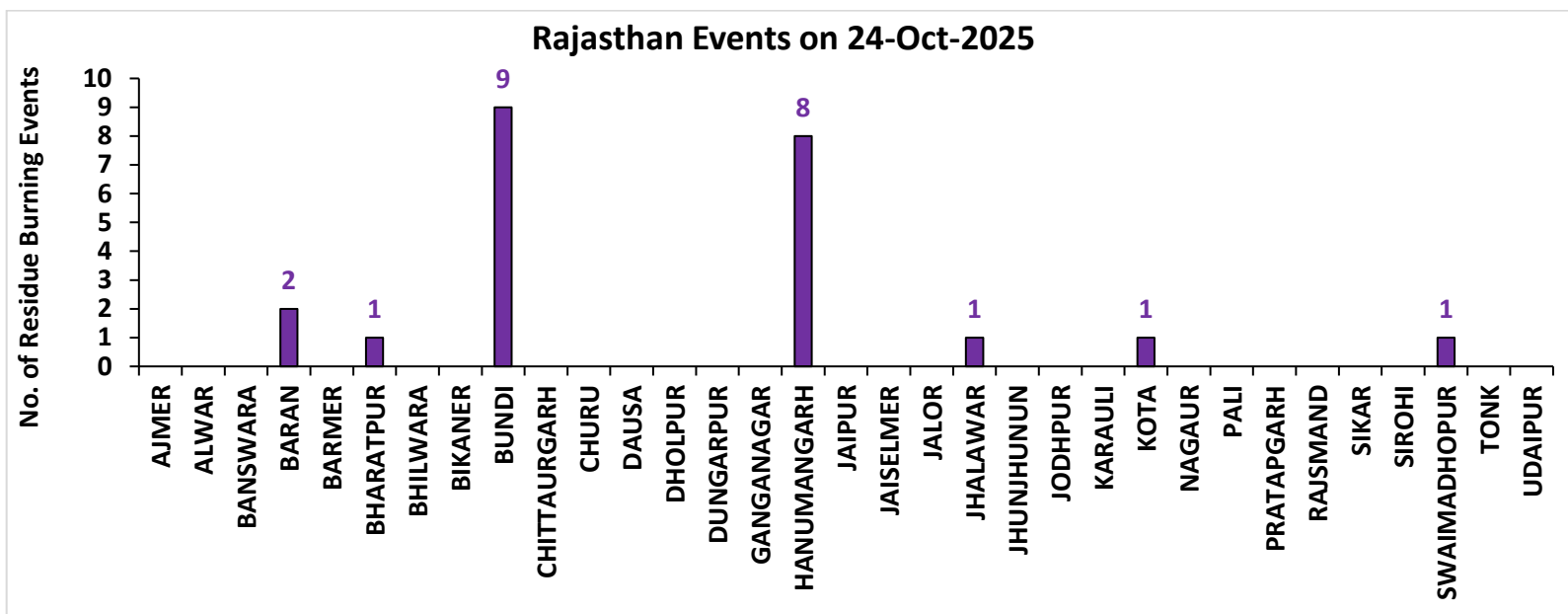
23 burning events detected in Rajasthan on (24th Oct 2025)

Fire Intensity (W/m²)

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

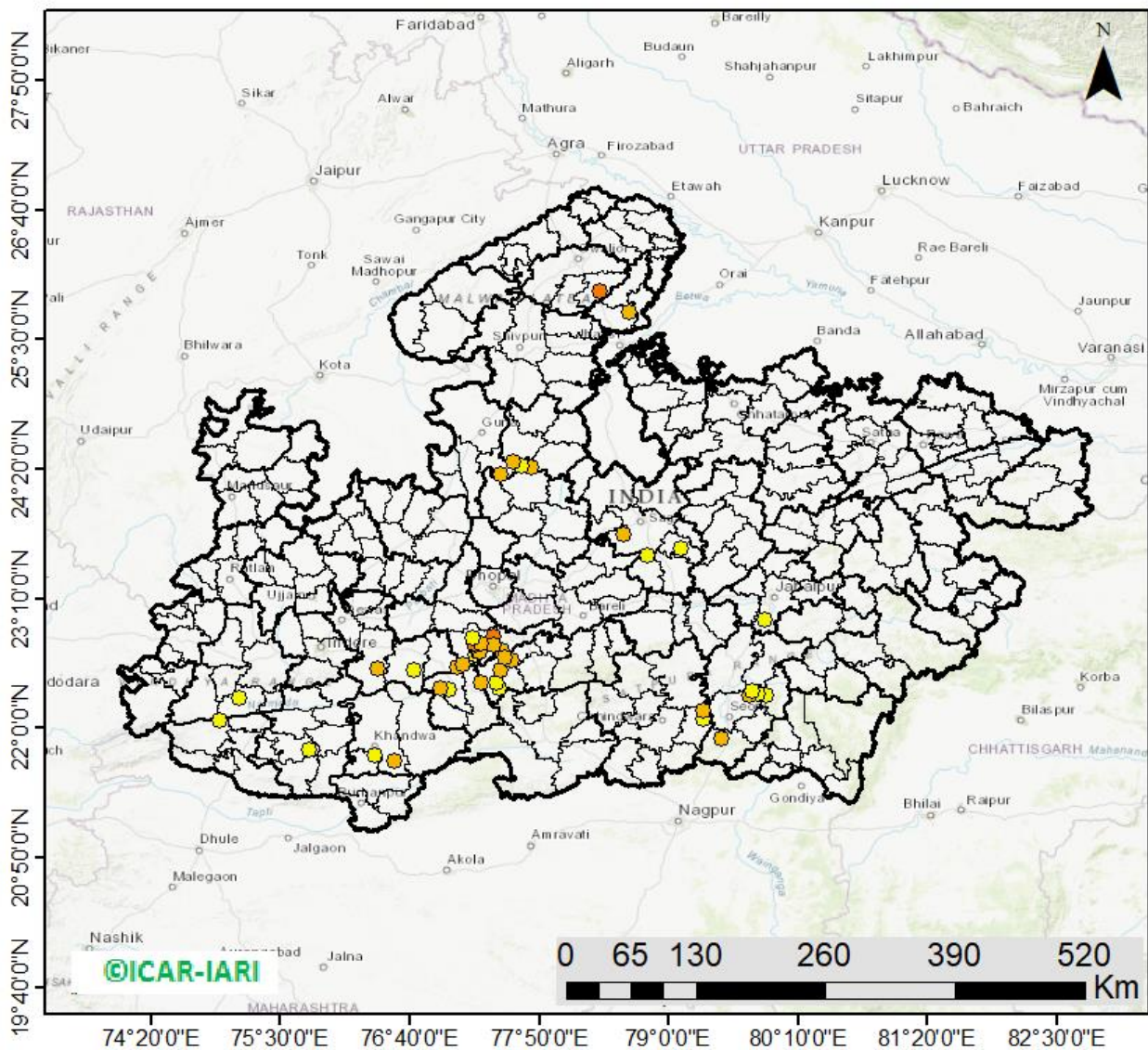


District-wise cumulative number of residues burning events in Rajasthan (15Sep-24Oct-2025)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



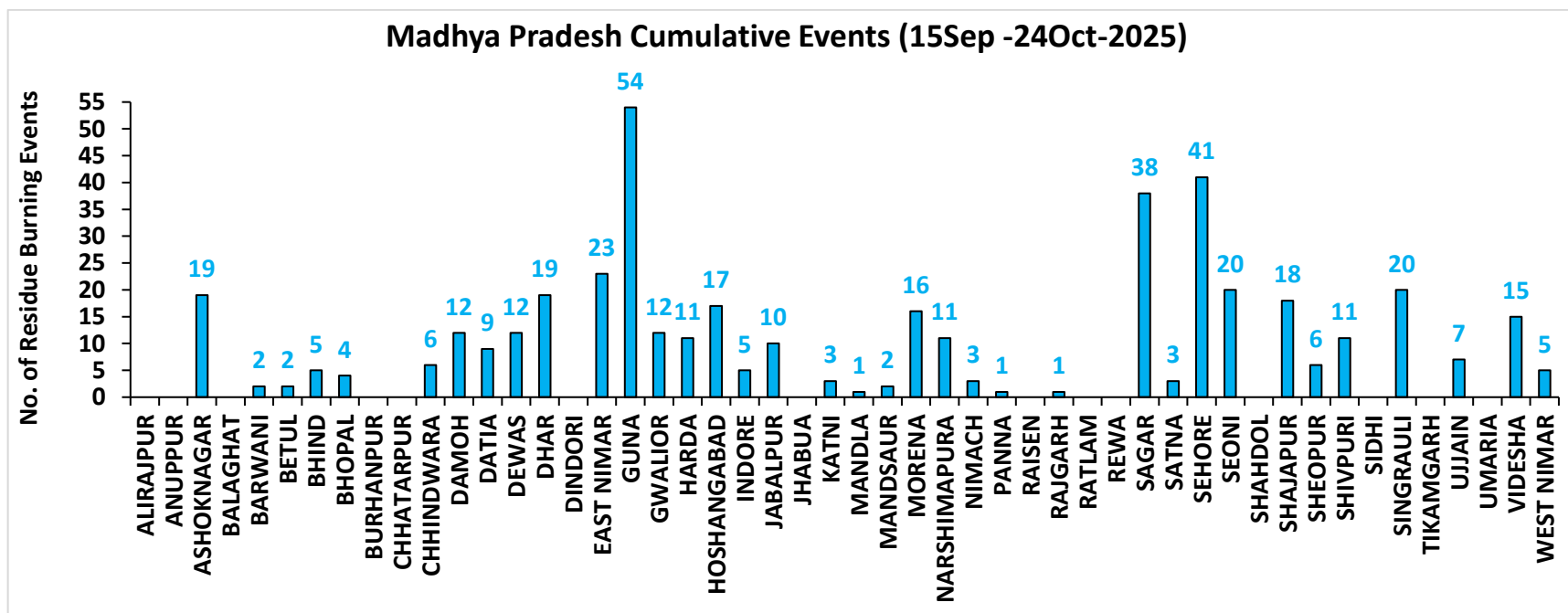
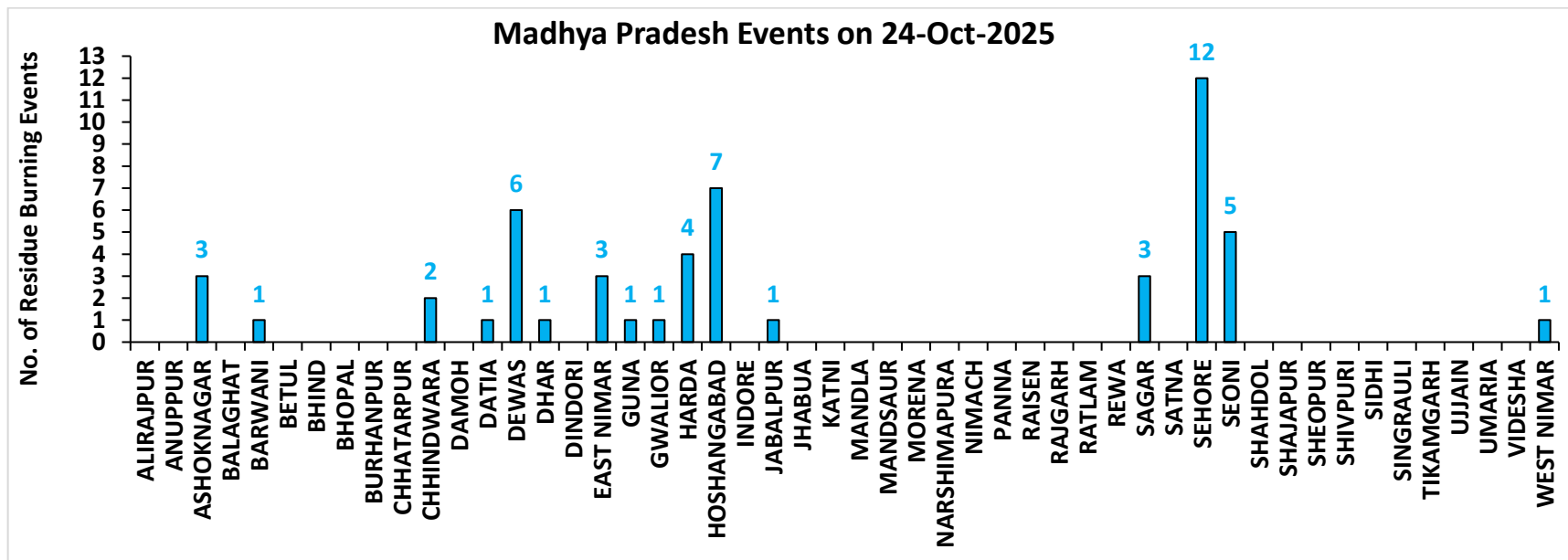
52 burning events
detected in MP on
(24th Oct 2025)

Fire Intensity (W/m²)

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



District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-24Oct-2025)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023, 2024 and 2025
(Period: 15 September -24 October)

(a) Punjab

District	15 Sep- 24 Oct					
	2020	2021	2022	2023	2024	2025
Amritsar	2343	945	1073	755	455	135
Barnala	81	47	36	17	10	5
Bathinda	197	71	84	11	11	10
Faridkot	787	285	52	31	10	5
Fatehgarh Sahib	468	286	231	100	47	6
Fazilka	229	82	48	16	18	12
Firozpur	1884	394	293	150	142	66
Gurdaspur	1215	394	565	40	51	27
Hoshiarpur	200	58	49	3	0	2
Jalandhar	354	273	269	43	21	7
Kapurthala	771	391	368	103	72	19
Ludhiana	373	389	238	94	33	3
Malerkotla	0	0	0	8	26	4
Mansa	132	32	44	85	34	5
Moga	282	131	132	46	14	6
Muktsar	254	85	26	3	4	5
Pathankot	7	0	0	0	0	0
Patiala	1323	500	474	278	212	34
Rupnagar	64	46	52	3	4	0
Sangrur	470	146	218	148	151	23
SAS NAGAR (Mohali)	75	54	45	79	28	10
SBS Nagar	27	34	9	5	4	2
Tarn Taran	3269	1415	1311	288	331	175
Total	14805	6058	5617	2306	1678	561

(b) Haryana

District	15 Sep- 24 Oct					
	2020	2021	2022	2023	2024	2025
AMBALA	197	85	93	106	74	1
BHIWANI	0	0	0	2	0	2
CHARKHI DADRI	0	0	0	0	0	0
FARIDABAD	1	1	1	2	34	3
FATEHABAD	99	110	132	123	41	7
GURGAON	0	0	0	0	0	0
HISAR	10	8	23	47	20	5
JHAJJAR	1	0	0	4	3	1
JIND	51	76	110	102	52	16
KAITHAL	332	479	379	107	130	4
KARNAL	413	554	224	53	72	3
KURUKSHETRA	338	319	246	91	99	1
MAHENDRAGARH	0	0	0	0	0	0
MEWAT	0	0	0	0	0	0
PALWAL	27	26	16	42	26	4
PANCHKULA	0	0	0	1	14	0
PANIPAT	12	22	20	17	28	2
REWARI	0	0	0	0	0	0
ROHTAK	2	0	0	7	8	0
SIRSA	32	17	27	11	18	5
SONIPAT	15	7	10	47	40	4
YAMUNANAGAR	87	60	79	51	27	3
Total	1617	1764	1360	813	686	61

(c) Uttar Pradesh

District	15 Sep- 24 Oct																			
	2020	2021	2022	2023	2024	2025	GAUTAMBU DHNAGAR	6	7	7	7	23	4	MUZAFARNAGAR	3	2	1	1	7	1
AGRA	2	0	0	1	0	2	GAZIPUR	0	0	0	0	0	0	PILHIBHIT	10	108	81	68	26	56
ALIGARH	50	21	22	73	149	41	GHAZIABAD	3	2	2	10	9	3	PRATAPGARH	4	0	0	1	1	3
ALLAHABAD	0	1	2	2	1	2	GONDA	0	0	0	0	0	4	RAIBEARELI	1	0	2	1	2	1
AMBEDKARNA GAR	0	0	0	0	2	2	GORAKHPU R	1	0	0	0	1	1	RAMPUR	55	50	40	37	15	10
AMETHI	0	1	4	1	0	1	HAMIRPUR	1	0	0	0	0	2	SAMBHAL	7	7	6	12	84	19
AMROHA	2	0	0	2	4	4	HAPUR	7	1	1	0	9	3	SANTKABIRNAGAR	0	0	0	1	0	1
AURAIYA	19	7	7	10	1	10	HARDOI	19	6	7	9	15	37	SANTRAVIDASNAG AR	0	0	0	0	0	0
AZAMGARH	0	0	0	0	0	0	HATHRAS	0	0	0	2	13	13	SHAHJAHANPUR	51	181	178	30	50	54
BADAUN	2	6	0	2	20	14	JALAUN	0	0	0	0	0	18	SHAMLI	21	15	5	5	8	3
BAGHPAT	4	1	1	1	3	2	JAUNPUR	0	0	0	1	0	0	SHARANPUR	44	20	4	1	5	18
BAHRAICH	20	2	5	1	3	14	JHANSI	26	6	0	20	8	19	SHRAWASTI	8	0	0	2	0	1
BALLIA	0	0	0	0	1	3	KANNAUJ	6	2	0	1	5	9	SIDDHARTHANAGAR	0	0	0	0	1	0
BALRAMPUR	5	1	1	1	0	3	KANPUR	5	7	10	20	2	5	SITAPUR	21	9	3	4	46	29
BANDA	0	0	0	0	0	3	KANPUR DEHAT	15	1	0	9	2	5	SONBHADRA	0	0	0	0	0	0
BARABANKI	21	20	18	41	67	51	KASGANJ	2	2	0	1	1	6	SULTANPUR	1	0	0	0	0	1
BAREILLY	25	15	9	18	13	17	KAUSHAMBI	14	3	2	16	3	13	UNNAO	6	1	0	7	6	3
BASTI	3	1	0	0	1	1	KHERI	50	54	60	8	14	24	VARANASI	1	0	0	0	0	0
BIJNOR	6	4	2	6	4	2	KUSHINAGA R	0	0	0	0	0	0	Total	733	653	543	598	826	734
BULANDSAHAR	16	2	7	6	26	3	LALITPUR	0	1	3	1	0	1							
CHANDAULI	0	0	0	0	0	0	LUCKNOW	2	0	1	2	5	6							
CHITRAKOOT	0	1	2	3	0	0	MAHARAJG ANJ	0	0	1	2	1	2							
DEORIA	0	0	0	2	0	1	MAHOBA	12	0	0	0	0	0							
ETAH	12	6	1	11	10	10	MAINPURI	15	7	11	13	18	19							
ETAWAH	8	7	6	28	10	16	MATHURA	49	43	9	70	72	76							
FAIZABAD	3	0	0	2	4	5	MAU	0	0	0	0	0	0							
FARRUKHABAD	1	0	0	0	0	0	MEERUT	16	4	4	3	9	0							
FATEHPUR	26	6	16	16	21	41	MIRZAPUR	6	5	2	0	2	0							
FIROZABAD	12	4	0	3	3	10	MORADABA D	8	3	0	3	20	6							

(d) Delhi

District	15 Sep- 24 Oct					
	2020	2021	2022	2023	2024	2025
CENTRAL	0	0	0	0	0	0
EAST	0	0	0	0	0	0
NEW DELHI	0	0	0	0	0	0
NORTH	2	0	5	2	8	3
NORTH EAST	0	0	0	0	0	0
NORTH WEST DELHI	3	0	0	0	3	0
SHAHADRA	0	0	0	0	0	0
SOUTH	1	0	0	0	0	0
SOUTH EAST	0	0	0	0	0	0
SOUTH WEST DELHI	0	0	0	0	0	0
WEST DELHI	1	0	0	0	0	0
Total	7	0	5	2	11	3

(e) Rajasthan

District	15 Sep- 24 Oct					
	2020	2021	2022	2023	2024	2025
AJMER	2	0	0	0	0	0
ALWAR	2	0	0	0	0	4
BANSWARA	0	0	0	0	0	1
BARAN	106	0	10	206	120	57
BARMER	2	0	0	0	0	1
BHARATPUR	2	0	0	2	6	5
BHILWARA	4	0	0	0	0	0
BIKANER	1	0	0	0	0	3
BUNDI	25	3	35	85	60	52
CHITTAURGARH	0	2	2	8	2	4
CHURU	0	0	0	0	0	0
DAUSA	0	0	0	0	0	0
DHOLPUR	0	0	0	0	0	0
DUNGARPUR	0	0	0	0	0	0
GANGANAGAR	4	2	5	9	19	10
HANUMANGARH	216	47	18	55	110	118
JAIPUR	2	0	0	0	0	0
JAISELMER	2	0	0	0	0	3
JALOR	0	0	0	0	0	1
JHALAWAR	1	0	2	8	1	2
JHUNJHUNUN	1	0	0	0	0	1
JODHPUR	1	0	0	0	0	4
KARALI	1	0	0	0	0	0
KOTA	42	2	23	102	49	49
NAGPUR	0	0	0	0	0	4
PALI	2	0	0	0	0	12
PRATAPGARH	4	0	0	0	0	0
RAJSMAND	0	0	0	0	0	0
SIKAR	0	0	0	0	0	1
SIROHI	1	0	0	0	0	1
SWAIMADHOPUR	10	0	3	35	26	24
TONK	3	0	0	0	0	0
UDAIPUR	0	0	0	0	0	1
Total	434	56	98	510	393	358

(f) Madhya Pradesh

District	15 Sep- 24 Oct													
	2020	2021	2022	2023	2024	2025	PANNA	8	1	0	1	6	1	
ALIRAJPUR	0	0	0	0	0	0	RAISEN	73	3	7	26	6	0	
ANUPPUR	0	0	0	0	0	0	RAJGARH	7	1	3	9	1	1	
ASHOKNAGAR	42	1	5	70	100	19	RATLAM	0	0	0	1	0	0	
BALAGHAT	0	0	0	0	0	0	REWA	19	0	1	1	0	0	
BARWANI	0	0	0	0	0	2	SAGAR	19	13	14	25	29	38	
BETUL	4	1	1	3	4	2	SATNA	40	8	1	6	8	3	
BHIND	14	1	7	28	21	5	SEHORE	19	8	25	22	9	41	
BHOPAL	12	5	3	12	3	4	SEONI	121	74	26	38	14	20	
BURHANPUR	0	0	0	1	0	0	SHAHDOL	0	0	0	0	1	0	
CHHATARPUR	4	0	0	3	1	0	SHAJAPUR	5	0	0	7	12	18	
CHHINDWARA	15	9	4	11	2	6	SHEOPUR	41	0	3	127	3	6	
DAMOH	38	15	13	19	24	12	SHIVPURI	22	0	9	31	67	11	
DATIA	127	8	11	124	41	9	SIDHI	0	0	0	0	0	0	
DEWAS	3	0	0	7	4	12	SINGRAULI	0	0	0	0	6	20	
DHAR	22	0	0	26	6	19	TIKAMGARH	1	0	0	3	0	0	
DINDORI	0	0	0	1	0	0	UJJAIN	5	0	0	14	7	7	
EAST NIMAR	10	5	4	2	1	23	UMARIA	0	0	0	0	0	0	
GUNA	26	2	11	202	227	54	VIDESHA	73	10	16	41	44	15	
GWALIOR	115	0	4	30	6	12	WEST NIMAR	16	1	0	8	2	5	
HARDA	10	15	4	19	5	11	Total	1179	231	210	1102	775	444	
HOSHANGABAD	155	28	17	90	10	17								
INDORE	2	0	0	12	12	5								
JABALPUR	36	7	6	33	33	10								
JHABUA	0	0	0	0	0	0								
KATNI	21	0	0	2	2	3								
MANDLA	5	2	0	2	1	1								
MANDSAUR	3	0	0	1	13	2								
MORENA	23	5	3	27	24	16								
NARSHIMAPURA	23	8	12	17	19	11								
NIMACH	0	0	0	0	1	3								

State-wise and date-wise number of paddy residue burning events detected in 2020 ,2021 ,2022, 2023, 2024 and 2025

(Period: 15 September -24 October)

Number of Paddy Residue Burning Events Detected

Date	Punjab						Haryana						Uttar Pradesh					
	2020	2021	2022	2023	2024	2025	2020	2021	2022	2023	2024	2025	2020	2021	2022	2023	2024	2025
15-Sep	5	0	14	0	11	5	2	0	0	1	1	1	1	0	0	0	0	1
16-Sep	0	2	0	6	0	18	1	0	0	1	0	0	0	0	0	2	0	0
17-Sep	5	0	1	0	5	11	3	0	0	0	1	0	0	0	0	0	1	0
18-Sep	17	9	7	0	2	12	0	0	1	0	0	1	0	1	0	0	0	1
19-Sep	30	5	18	0	0	1	2	0	0	1	0	1	0	1	0	0	0	1
20-Sep	67	8	10	0	13	1	6	0	0	2	1	0	2	0	0	0	0	1
21-Sep	54	0	56	1	21	8	2	0	0	2	13	0	1	0	0	1	2	0
22-Sep	34	0	30	0	11	6	1	0	0	2	18	0	1	0	0	0	0	2
23-Sep	49	0	3	1	6	8	0	0	0	3	12	0	1	0	0	0	0	4
24-Sep	78	5	0	0	12	5	0	0	0	0	6	1	1	1	0	1	0	0
25-Sep	184	11	0	0	12	4	11	0	0	1	18	1	5	0	0	1	0	2
26-Sep	190	19	0	3	5	1	5	0	0	2	5	0	8	0	0	0	0	4
27-Sep	78	37	0	21	0	2	8	0	0	9	5	1	4	1	0	0	3	1
28-Sep	55	28	0	33	0	8	6	1	0	8	0	0	1	6	0	4	0	10
29-Sep	63	64	0	68	21	5	9	4	0	17	0	1	6	10	0	6	0	14
30-Sep	116	27	8	81	10	0	22	2	0	26	1	0	13	13	10	18	0	1
01-Oct	165	13	45	123	26	0	15	4	1	21	3	0	7	13	3	17	0	4
02-Oct	141	0	83	119	16	0	30	2	7	24	20	0	12	0	36	7	9	0
03-Oct	110	9	75	105	8	0	8	6	8	17	6	0	4	3	29	8	7	1
04-Oct	162	23	65	95	9	0	29	2	7	29	9	0	8	0	2	9	0	9
05-Oct	161	18	130	98	5	0	17	3	24	24	8	0	14	2	0	14	1	32
06-Oct	171	42	85	91	3	0	30	0	26	19	23	0	12	1	0	18	17	0
07-Oct	197	72	62	32	18	0	32	11	6	13	14	0	41	13	0	5	11	0
08-Oct	95	108	19	92	20	0	29	27	0	55	13	0	25	11	0	27	16	3
09-Oct	121	114	3	58	33	1	20	39	1	14	10	1	15	20	0	13	10	5
10-Oct	232	150	4	10	123	6	33	95	2	28	38	2	9	54	0	34	56	25
11-Oct	377	64	45	26	143	14	90	51	0	21	55	1	23	28	0	50	87	42

12-Oct	388	97	104	13	177	10	69	51	4	5	98	4	46	23	0	5	102	17
13-Oct	266	132	120	154	162	8	47	91	15	29	90	1	36	42	0	19	76	20
14-Oct	605	229	82	89	97	31	69	98	30	41	49	2	9	68	5	18	52	25
15-Oct	449	660	169	69	144	11	106	363	36	127	42	7	15	149	0	35	78	46
16-Oct	654	429	206	0	99	12	80	176	76	4	14	3	21	121	6	14	59	132
17-Oct	1172	14	403	1	77	20	143	0	86	0	28	2	38	39	7	0	23	49
18-Oct	938	57	342	18	59	33	166	1	134	8	26	1	76	0	30	2	47	16
19-Oct	1080	496	436	37	45	67	72	55	122	16	15	7	43	5	36	11	30	12
20-Oct	890	788	96	174	52	45	62	155	78	51	11	13	31	1	17	25	11	77
21-Oct	1392	597	393	146	65	62	101	131	107	68	2	4	25	5	23	59	25	103
22-Oct	1665	1111	582	30	71	69	128	140	122	25	10	3	32	3	18	117	17	44
23-Oct	1438	620	902	152	57	28	106	218	217	29	15	0	84	8	109	20	68	13
24-Oct	911	0	1019	360	40	49	57	38	250	70	6	3	63	11	212	38	18	17
Total	14805	6058	5617	2306	1678	561	1617	1764	1360	813	686	61	733	653	543	598	826	734

Number of Paddy Residue Burning Events Detected

Date	Delhi						Rajasthan						Madhya Pradesh					
	2020	2021	2022	2023	2024	2025	2020	2021	2022	2023	2024	2025	2020	2021	2022	2023	2024	2025
15-Sep	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
16-Sep	0	0	0	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	0	0	1	0
18-Sep	0	0	0	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	0	0	1	0	0
20-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
21-Sep	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	1	0
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
23-Sep	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	1	0	1
26-Sep	0	0	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	2
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

28-Sep	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	1
29-Sep	0	0	0	0	0	0	3	0	0	6	0	1	0	4	0	5	0	3
30-Sep	1	0	0	0	0	0	1	0	0	4	2	0	5	0	0	11	0	0
01-Oct	0	0	0	0	0	0	4	1	1	4	1	0	13	0	1	8	3	0
02-Oct	1	0	0	0	0	0	7	0	3	4	3	0	12	0	1	1	0	0
03-Oct	0	0	0	0	0	0	9	0	2	5	0	0	5	1	5	5	2	1
04-Oct	0	0	0	0	0	0	15	0	0	22	0	1	4	2	0	12	0	2
05-Oct	0	0	2	0	0	0	14	0	1	11	2	5	13	1	0	18	2	0
06-Oct	1	0	0	0	0	0	16	0	0	9	1	0	37	1	0	7	12	0
07-Oct	0	0	0	0	0	0	14	1	1	7	4	0	31	1	0	9	17	5
08-Oct	0	0	0	0	0	0	11	0	0	9	1	1	17	2	0	18	7	5
09-Oct	0	0	0	0	0	0	12	0	0	17	1	1	15	4	0	24	2	7
10-Oct	0	0	0	0	3	1	14	1	0	26	3	9	18	10	0	52	1	20
11-Oct	0	0	0	1	0	0	21	7	1	21	6	1	32	2	0	24	17	6
12-Oct	0	0	0	0	2	0	24	1	2	1	13	0	44	1	1	1	5	6
13-Oct	0	0	0	0	1	0	7	5	2	28	10	8	21	2	7	32	5	18
14-Oct	0	0	0	0	1	1	16	1	1	15	20	17	15	11	1	26	7	18
15-Oct	0	0	0	0	0	1	9	8	2	34	23	30	8	27	2	66	11	41
16-Oct	1	0	0	0	1	0	12	2	4	18	100	21	23	13	2	51	112	33
17-Oct	0	0	0	0	0	0	26	0	4	12	16	15	63	1	11	31	51	16
18-Oct	0	0	1	0	3	0	37	2	12	11	30	39	88	0	15	13	71	11
19-Oct	0	0	0	0	0	0	27	5	12	31	25	24	49	1	12	65	46	43
20-Oct	0	0	0	0	0	0	26	4	4	57	11	38	9	21	7	131	24	44
21-Oct	2	0	0	0	0	0	32	2	6	34	21	41	112	30	18	147	53	58
22-Oct	0	0	0	0	0	0	29	5	12	57	36	39	183	29	31	119	93	35
23-Oct	1	0	0	0	0	0	23	7	20	29	50	43	204	32	70	89	194	14
24-Oct	0	0	2	0	0	0	20	4	7	38	11	23	150	34	26	132	32	52
Total	7	0	5	2	11	3	434	56	98	510	393	358	1179	231	210	1102	775	444

Details of residue burning events in Punjab on 24-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	AQUA	31.95500	74.88100	14:58:46	D	22.40
2	AMRITSAR	RAYYA	AQUA	31.60700	75.34100	14:58:46	D	11.60
3	BATHINDA	GONIANA MANDI	S-NPP	30.29638	74.84732	14:03:55	D	9.00
4	BATHINDA	MAUR	AQUA	30.05000	75.21400	14:58:46	D	6.00
5	BATHINDA	RAMPURA	S-NPP	30.25168	75.33061	14:03:55	D	5.80
6	FATEHGARH SAHIB	SIRHIND	AQUA	30.48400	76.35200	14:58:46	D	6.70
7	FAZILKA	JALALABAD	AQUA	30.56500	74.14000	14:58:46	D	8.80
8	FIROZPUR	FIROZPUR	AQUA	30.96000	74.51400	14:58:46	D	6.40
9	FIROZPUR	GURUHAR SAHAI	AQUA	30.76400	74.27800	14:58:46	D	5.50
10	FIROZPUR	MAKHU	AQUA	31.08500	74.83300	14:58:46	D	5.90
11	FIROZPUR	MAMDOT	AQUA	30.78900	74.37400	14:58:46	D	10.80
12	FIROZPUR	MAMDOT	AQUA	30.89400	74.45700	14:58:46	D	15.40
13	FIROZPUR	MAMDOT	S-NPP	30.91809	74.50255	14:03:55	D	6.20
14	FIROZPUR	MAMDOT	S-NPP	30.91861	74.50629	14:03:55	D	7.50
15	FIROZPUR	ZIRA	AQUA	30.98100	74.88900	14:58:46	D	5.40
16	GURDASPUR	BATALA	S-NPP	31.75343	75.13921	14:03:55	D	2.10
17	GURDASPUR	DHARIWAL	AQUA	31.94900	75.26500	14:58:46	D	6.60
18	JALANDHAR	JALANDHAR WEST	AQUA	31.48200	75.59500	14:58:46	D	5.00
19	JALANDHAR	LOHIAN	AQUA	31.15900	75.13000	14:58:46	D	6.40
20	KAPURTHALA	NADALA	AQUA	31.55200	75.39500	14:58:46	D	5.40
21	KAPURTHALA	NADALA	AQUA	31.56300	75.46600	14:58:46	D	5.30
22	KAPURTHALA	NADALA	S-NPP	31.63194	75.50111	14:03:55	D	6.80
23	KAPURTHALA	NADALA	S-NPP	31.63575	75.50277	14:03:55	D	6.90
24	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.28092	74.73883	14:03:55	D	3.20
25	PATIALA	SAMANA	AQUA	30.00500	76.18900	14:58:46	D	10.30
26	PATIALA	SAMANA	AQUA	30.23300	76.17200	14:58:46	D	28.00
27	SANGRUR	BHAWANIGARH	AQUA	30.23700	76.07800	14:58:46	D	4.90
28	SANGRUR	LEHRA GAGA	AQUA	30.02200	75.88500	14:58:46	D	7.30
29	SANGRUR	SANGRUR	AQUA	30.28100	75.81300	14:58:46	D	7.30
30	SANGRUR	SUNAM	AQUA	30.10100	75.78900	14:58:46	D	8.30

31	SANGRUR	SUNAM	S-NPP	30.12360	75.73559	14:03:55	D	3.70
32	SAS NAGAR	KHARAR	S-NPP	30.57584	76.69941	14:03:55	D	4.80
33	SAS NAGAR	KHARAR	S-NPP	30.57596	76.69809	14:03:55	D	6.10
34	TARN TARAN	BHIKHIWIND	AQUA	31.25100	74.70800	14:58:46	D	19.50
35	TARN TARAN	BHIKHIWIND	AQUA	31.41800	74.65400	14:58:46	D	7.50
36	TARN TARAN	CHOHLA SAHIB	AQUA	31.20400	74.99600	14:58:46	D	4.90
37	TARN TARAN	CHOHLA SAHIB	AQUA	31.28600	75.05300	14:58:46	D	5.00
38	TARN TARAN	CHOHLA SAHIB	AQUA	31.29000	75.02000	14:58:46	D	12.90
39	TARN TARAN	CHOHLA SAHIB	AQUA	31.29100	75.03100	14:58:46	D	38.00
40	TARN TARAN	KHADUR SAHIB	AQUA	31.46000	75.10000	14:58:46	D	5.60
41	TARN TARAN	KHADUR SAHIB	AQUA	31.46800	75.20600	14:58:46	D	6.50
42	TARN TARAN	KHADUR SAHIB	S-NPP	31.46673	75.17957	14:03:55	D	5.90
43	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.39547	75.01154	14:03:55	D	7.20
44	TARN TARAN	PATTI	S-NPP	31.21611	74.77735	14:03:55	D	4.50
45	TARN TARAN	TARN TARAN	AQUA	31.44100	74.97600	14:58:46	D	7.50
46	TARN TARAN	TARN TARAN	AQUA	31.46900	74.80100	14:58:46	D	5.00
47	TARN TARAN	VALTOHA	AQUA	31.12400	74.56100	14:58:46	D	5.80
48	TARN TARAN	VALTOHA	AQUA	31.18000	74.55400	14:58:46	D	13.80
49	TARN TARAN	VALTOHA	S-NPP	31.10059	74.58984	14:03:55	D	5.10

Details of residue burning events in Haryana on 24-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-II	AQUA	30.09300	76.60400	14:58:46	D	9.90
2	HISAR	HANSI-I	S-NPP	29.19266	76.00140	14:03:55	D	8.70
3	JIND	NARWANA	AQUA	29.72800	75.95200	14:58:46	D	7.40

Details of residue burning events in Uttar Pradesh on 24-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ALIGARH	KHAIR	AQUA	28.08502	77.60648	15:02:00	D	11.95
2	ETAH	JALESAR	AQUA	27.43642	78.31461	15:02:00	D	4.32
3	FIROZABAD	SIKOHABAD	AQUA	27.04926	78.66212	15:02:00	D	5.54
4	GHAZIABAD	MODINAGAR	AQUA	28.80729	77.42384	15:02:00	D	6.81
5	JALAUN	KONCH	AQUA	26.05200	79.06271	15:02:00	D	3.80
6	KANPUR DEHAT	RASULABAD	AQUA	26.76574	79.92590	15:02:00	D	6.12
7	KAUSHAMBI	MANJHANPUR	AQUA	25.39760	81.32371	15:00:00	D	7.40
8	KHERI	LAKHIMPUR	S-NPP	27.96029	80.60121	12:27:00	D	2.97
9	KHERI	MOHMADI	S-NPP	27.92969	80.13804	01:10:00	N	0.62
10	MAINPURI	BHOGAON	AQUA	27.14816	79.12179	15:02:00	D	5.94
11	MATHURA	CHHATA	AQUA	27.69878	77.48949	15:02:00	D	8.33
12	PILHIBHIT	PILHIBHIT	AQUA	28.85700	79.73936	15:02:00	D	8.62
13	PILHIBHIT	PURANPUR	S-NPP	28.37777	80.19508	12:27:00	D	5.76
14	PRATAPGARH	LALGANJ	S-NPP	26.05914	81.55992	01:10:00	N	0.47
15	RAMPUR	SUAR	AQUA	29.01634	79.17181	15:02:00	D	16.40
16	SHAHJAHANPUR	SHAHJAHANPUR	AQUA	27.87301	79.80014	15:02:00	D	6.66
17	SHAHJAHANPUR	TILHAR	AQUA	28.08835	79.78255	15:02:00	D	10.10

Details of residue burning events in Rajasthan on 24-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARAN	CHHABRA	AQUA	24.62396	76.86478	15:00:00	D	6.97
2	BARAN	CHHIPABAROD	S-NPP	24.63061	76.76524	14:07:00	D	4.23
3	BHARATPUR	KAMAN	AQUA	27.78668	77.27599	15:02:00	D	7.19
4	BUNDI	BUNDI	AQUA	25.30296	75.81328	15:00:00	D	6.78
5	BUNDI	BUNDI	AQUA	25.31894	75.68055	15:00:00	D	6.89
6	BUNDI	BUNDI	AQUA	25.38894	75.76812	15:00:00	D	7.85
7	BUNDI	BUNDI	AQUA	25.45230	75.75558	15:02:00	D	4.98
8	BUNDI	BUNDI	AQUA	25.45396	75.76601	15:02:00	D	8.37
9	BUNDI	KESHORAIPATAN	AQUA	25.30812	75.95650	15:00:00	D	5.65
10	BUNDI	KESHORAIPATAN	AQUA	25.42885	76.01591	15:00:00	D	17.69
11	BUNDI	KESHORAIPATAN	AQUA	25.43127	75.97319	15:00:00	D	5.63
12	BUNDI	KESHORAIPATAN	AQUA	25.48085	76.11080	15:02:00	D	12.29
13	HANUMANGARH	HANUMANGARH	AQUA	29.48392	74.40540	15:02:00	D	9.24
14	HANUMANGARH	HANUMANGARH	AQUA	29.60652	74.30908	15:02:00	D	6.06
15	HANUMANGARH	HANUMANGARH	AQUA	29.63193	74.17606	15:02:00	D	10.71
16	HANUMANGARH	PILIBANGA	AQUA	29.40164	73.96784	15:02:00	D	19.33
17	HANUMANGARH	TIBI	AQUA	29.39652	74.49946	15:02:00	D	23.27
18	HANUMANGARH	TIBI	AQUA	29.49461	74.52816	15:02:00	D	5.54
19	HANUMANGARH	TIBI	AQUA	29.52539	74.54408	15:02:00	D	7.55
20	HANUMANGARH	TIBI	AQUA	29.69008	74.53004	15:02:00	D	5.54
21	JHALAWAR	PACHPHAR	S-NPP	24.36933	75.91145	14:07:00	D	2.63
22	KOTA	PIPALDA	AQUA	25.51972	76.47543	15:00:00	D	9.90
23	SWAIMADHOPUR	KHANDAR	AQUA	25.88980	76.47202	15:02:00	D	12.02

Details of residue burning events in Madhya Pradesh on 24-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ASHOKNAGAR	ASHOKNAGAR	S-NPP	24.34417	77.76160	14:07:00	D	8.21
2	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.34847	77.67253	15:00:00	D	4.65
3	ASHOKNAGAR	ASHOKNAGAR	AQUA	24.38603	77.60051	15:00:00	D	6.12
4	BARWANI	BARWANI	S-NPP	22.05574	74.94611	14:05:00	D	2.50
5	CHHINDWARA	CHAURAI	S-NPP	22.07658	79.30546	14:05:00	D	2.31
6	CHHINDWARA	CHAURAI	AQUA	22.15567	79.30798	15:00:00	D	6.98
7	DATIA	DATIA	AQUA	25.73594	78.63655	15:00:00	D	7.20
8	DEWAS	BAGLI	S-NPP	22.53219	76.38042	14:07:00	D	5.43
9	DEWAS	KANNOD	S-NPP	22.51112	76.69947	14:07:00	D	3.09
10	DEWAS	KANNOD	S-NPP	22.51231	76.69640	14:07:00	D	3.54
11	DEWAS	KHATEGOAN	S-NPP	22.54467	77.09345	14:07:00	D	10.59
12	DEWAS	KHATEGOAN	S-NPP	22.54572	77.09068	14:07:00	D	7.19
13	DEWAS	KHATEGOAN	S-NPP	22.54629	77.09584	14:07:00	D	8.29
14	DHAR	MANAWAR	S-NPP	22.26446	75.13197	02:53:00	N	1.40
15	EAST NIMAR	KHANDWA	S-NPP	21.69523	76.53041	14:05:00	D	3.51
16	EAST NIMAR	KHANDWA	AQUA	21.69187	76.52917	15:00:00	D	8.20
17	EAST NIMAR	PANDHANA	S-NPP	21.74512	76.34485	14:05:00	D	2.94
18	GUNA	ARON	AQUA	24.28363	77.47832	15:00:00	D	8.37
19	GWALIOR	DABRA	AQUA	25.92960	78.37903	15:02:00	D	11.29
20	HARDA	HARDA	S-NPP	22.33809	77.01958	14:05:00	D	3.92
21	HARDA	HARDA	S-NPP	22.33837	77.01704	14:05:00	D	1.86
22	HARDA	HARDA	S-NPP	22.35303	76.94125	14:05:00	D	6.64
23	HARDA	TIMURNI	AQUA	22.39608	77.30111	15:00:00	D	5.67
24	HOSHANGABAD	HOSHANGABAD	AQUA	22.60314	77.57319	15:00:00	D	6.32
25	HOSHANGABAD	HOSHANGABAD	AQUA	22.60459	77.58274	15:00:00	D	7.18
26	HOSHANGABAD	HOSHANGABAD	AQUA	22.63337	77.52274	15:00:00	D	9.12
27	HOSHANGABAD	SEONI MALWA	S-NPP	22.34570	77.47117	14:05:00	D	4.15
28	HOSHANGABAD	SEONI MALWA	S-NPP	22.40106	77.44067	14:05:00	D	3.72
29	HOSHANGABAD	SEONI MALWA	S-NPP	22.40162	77.44608	14:05:00	D	3.72

30	HOSHANGABAD	SEONI MALWA	AQUA	22.51684	77.48062	15:00:00	D	6.86
31	JABALPUR	JABALPUR	S-NPP	22.96755	79.86878	14:07:00	D	1.93
32	SAGAR	KESALI	S-NPP	23.55298	78.81035	14:07:00	D	1.54
33	SAGAR	REHLI	S-NPP	23.61108	79.11197	12:27:00	D	2.59
34	SAGAR	SAGAR	AQUA	23.74275	78.58884	15:00:00	D	5.27
35	SEHORE	BUDHNI	S-NPP	22.69620	77.49331	14:07:00	D	6.60
36	SEHORE	BUDHNI	S-NPP	22.81999	77.42581	14:07:00	D	13.39
37	SEHORE	NASRULLAHGANJ	S-NPP	22.57006	77.14026	14:07:00	D	6.05
38	SEHORE	NASRULLAHGANJ	S-NPP	22.65100	77.24999	14:07:00	D	3.69
39	SEHORE	NASRULLAHGANJ	S-NPP	22.67440	77.29018	14:07:00	D	4.34
40	SEHORE	NASRULLAHGANJ	S-NPP	22.67532	77.28721	14:07:00	D	14.39
41	SEHORE	NASRULLAHGANJ	S-NPP	22.67911	77.28961	14:07:00	D	9.16
42	SEHORE	NASRULLAHGANJ	TERRA	22.74601	77.25611	09:27:00	D	19.58
43	SEHORE	NASRULLAHGANJ	AQUA	22.74657	77.41718	15:00:00	D	5.88
44	SEHORE	NASRULLAHGANJ	TERRA	22.74992	77.24829	09:27:00	D	12.38
45	SEHORE	NASRULLAHGANJ	AQUA	22.75889	77.31026	15:00:00	D	7.59
46	SEHORE	NASRULLAHGANJ	AQUA	22.80143	77.23300	15:00:00	D	4.75
47	SEONI	KEWLARI	S-NPP	22.29163	79.87570	14:05:00	D	3.21
48	SEONI	KEWLARI	S-NPP	22.29530	79.79745	14:05:00	D	2.36
49	SEONI	KURAI	S-NPP	21.89762	79.47504	14:05:00	D	5.93
50	SEONI	SEONI	AQUA	22.28839	79.72301	15:00:00	D	8.06
51	SEONI	SEONI	AQUA	22.32802	79.74654	15:00:00	D	4.92
52	WEST NIMAR	KHARGON	S-NPP	21.79819	75.75771	14:05:00	D	4.03

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

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

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

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**GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website <https://creams.iari.res.in/geokrishi/>
(Part of KRISHI Portal initiative)**
