

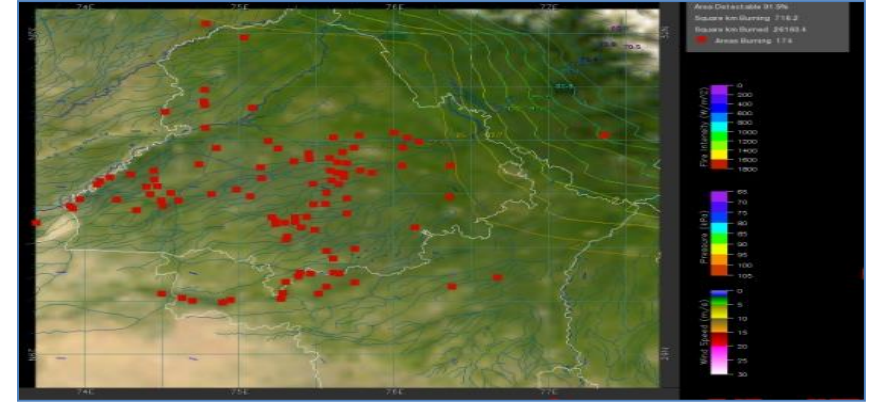
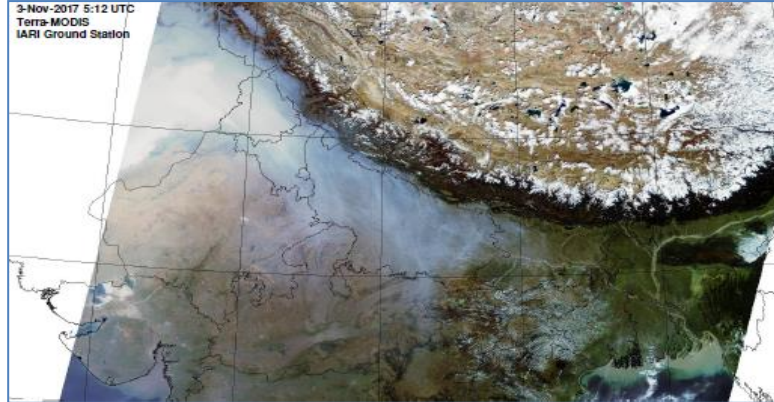


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2025

Bulletin
No. 35

Events Date:
19-Oct-2025

Issued on:
19-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

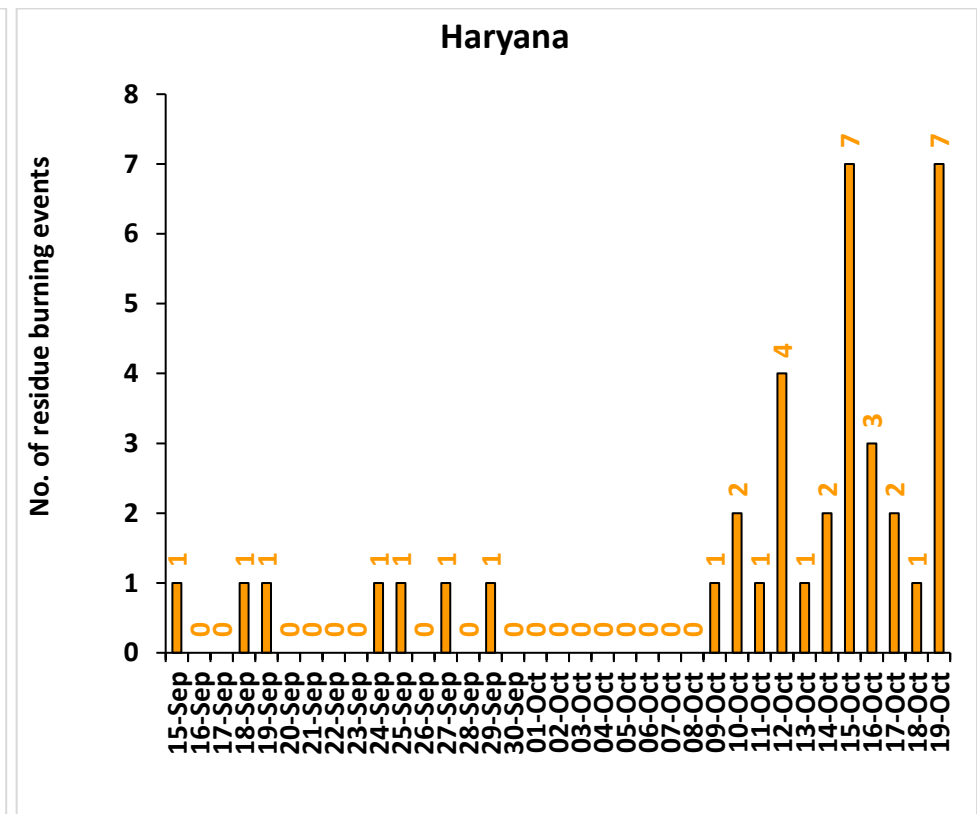
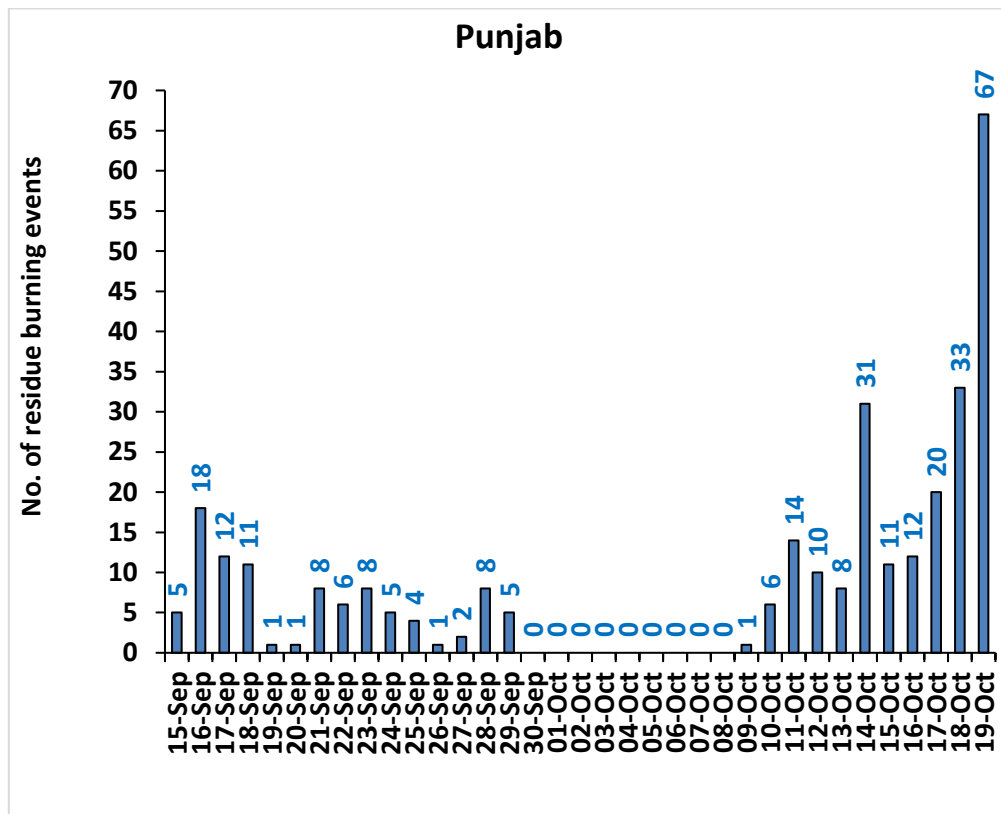
<https://creams.iari.res.in>



Highlights for 19-Oct-2025

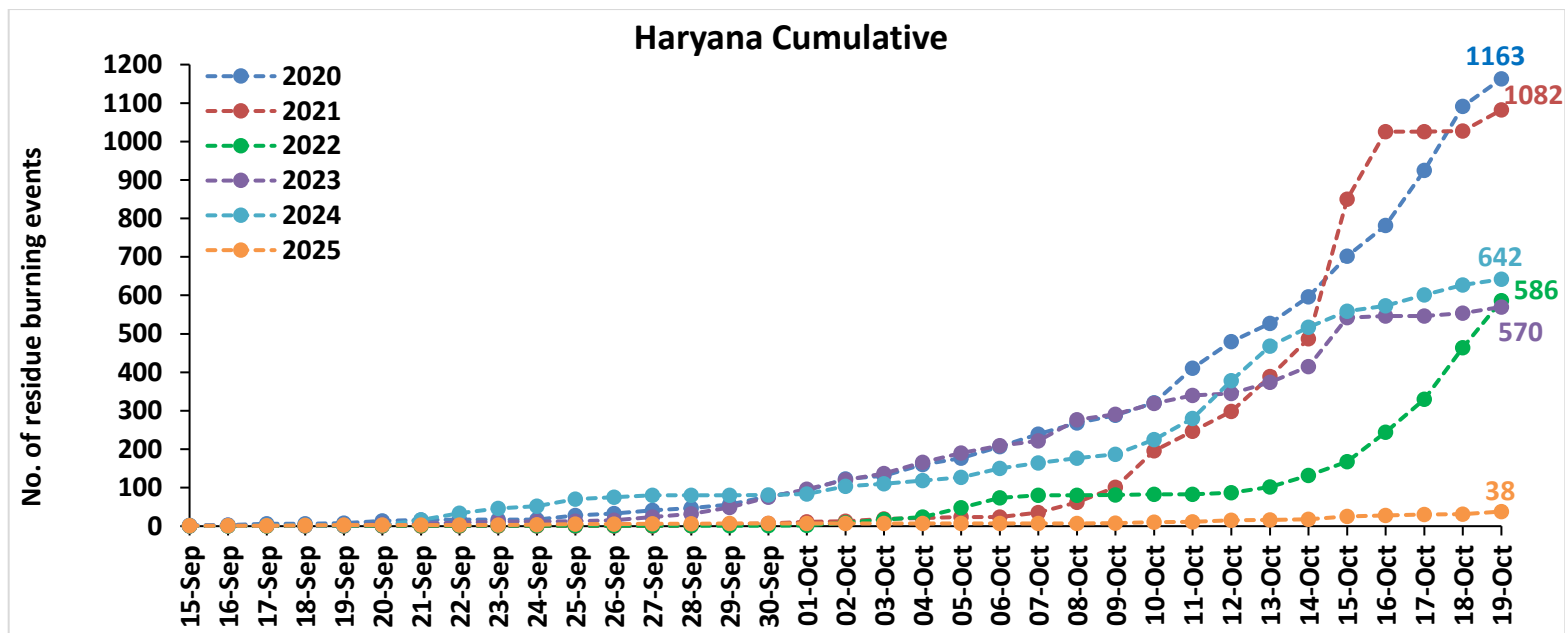
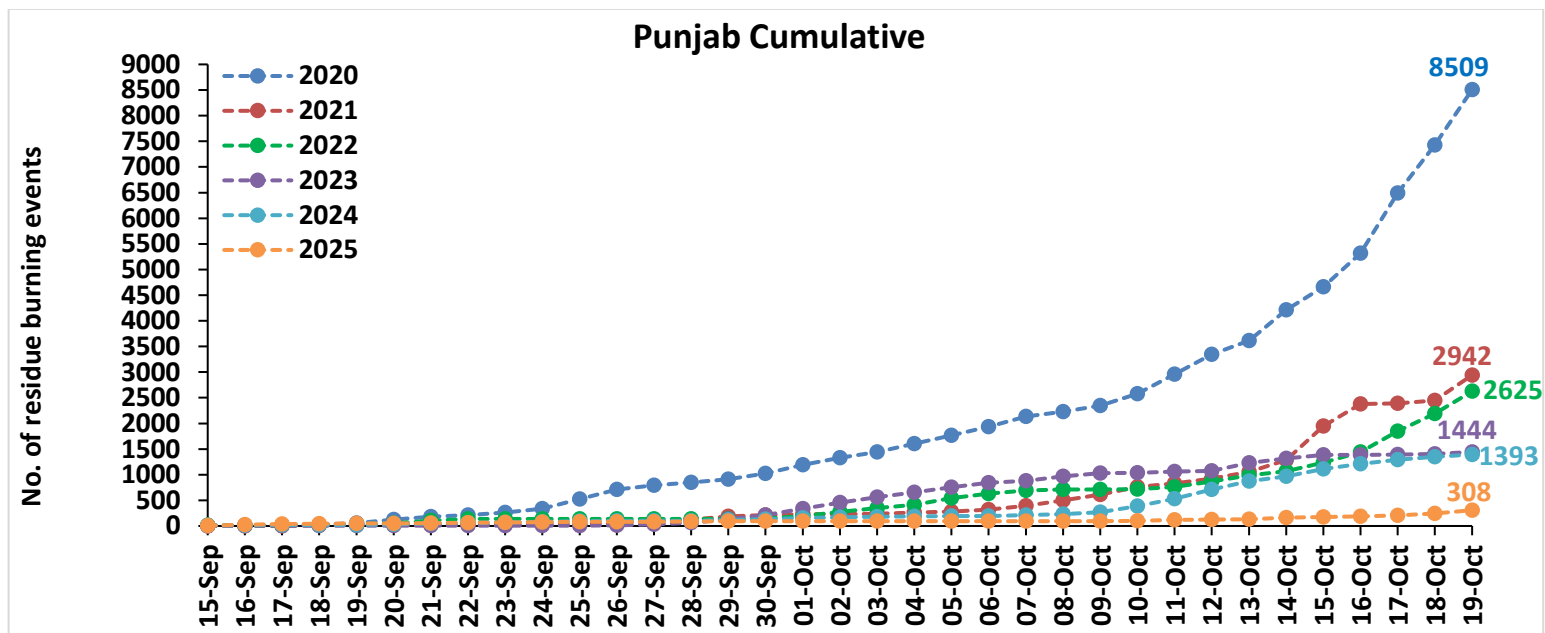
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **153** residue burning events in the six study States on **19-Oct-2025**.
- The state wise events detected on **19-Oct-2025** were **67** in Punjab, **07** in Haryana, **12** in UP, **00** in Delhi, **24** in Rajasthan and **43** in MP.
- Total **1244** burning events were detected in the six states between **15-Sept-2025** and **19-Oct-2025**, which are distributed as **308, 38, 480, 03, 174** and **241** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

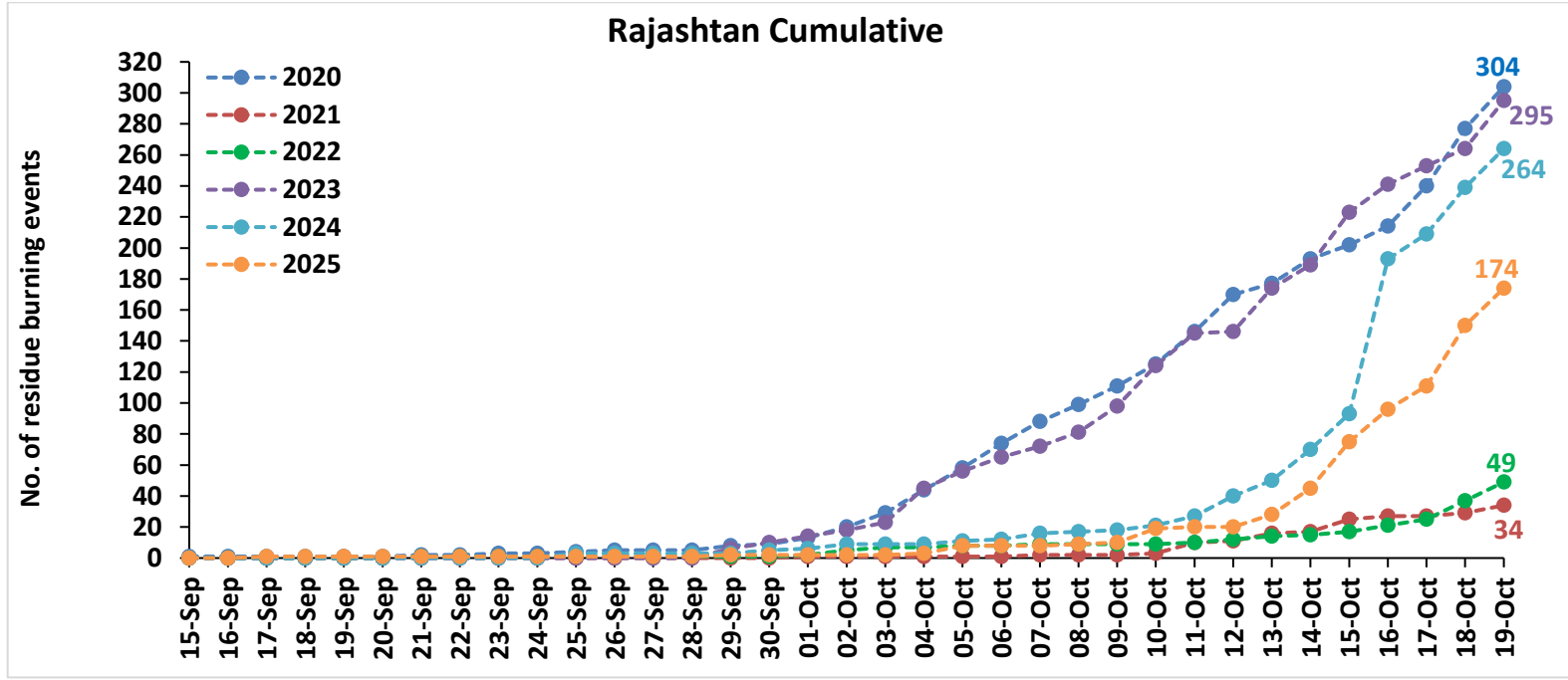
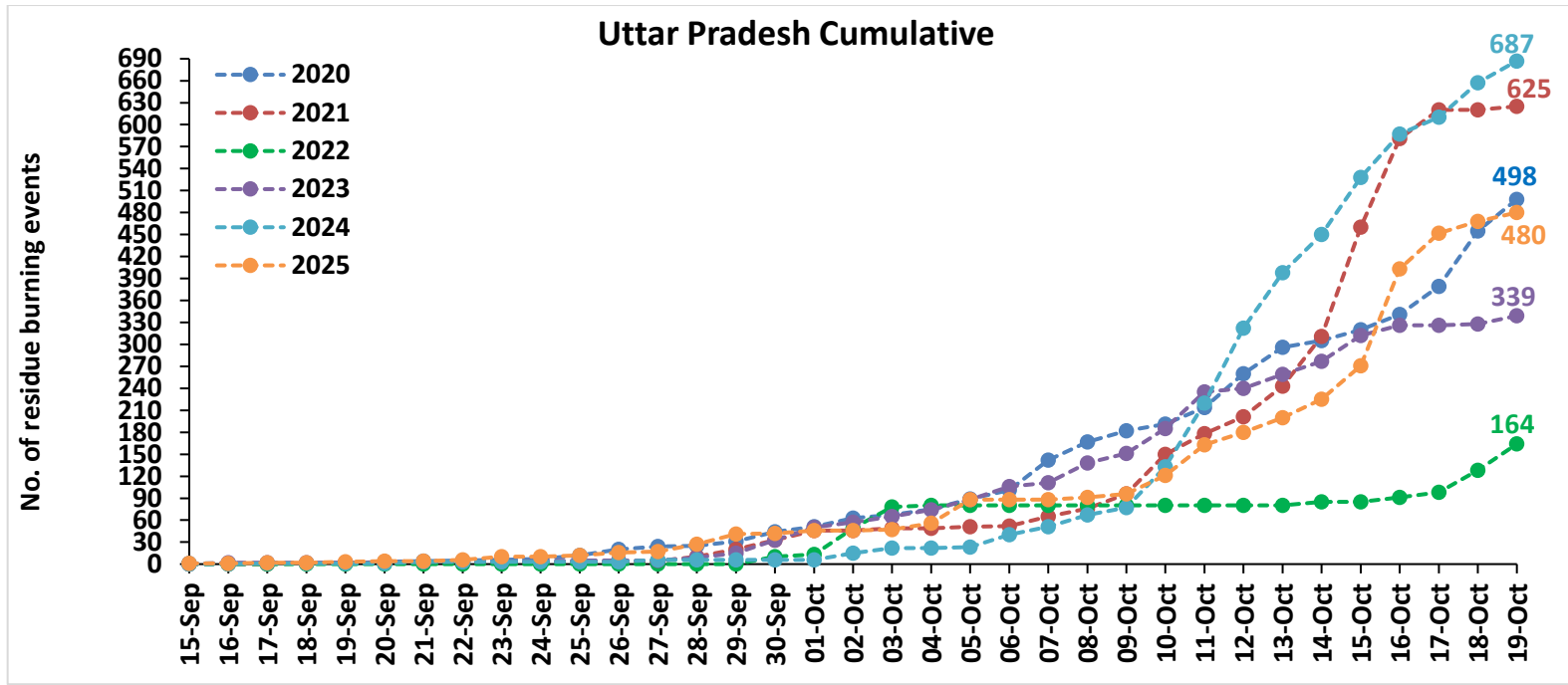
Temporal distribution of rice residue burning events for the study States in 2025



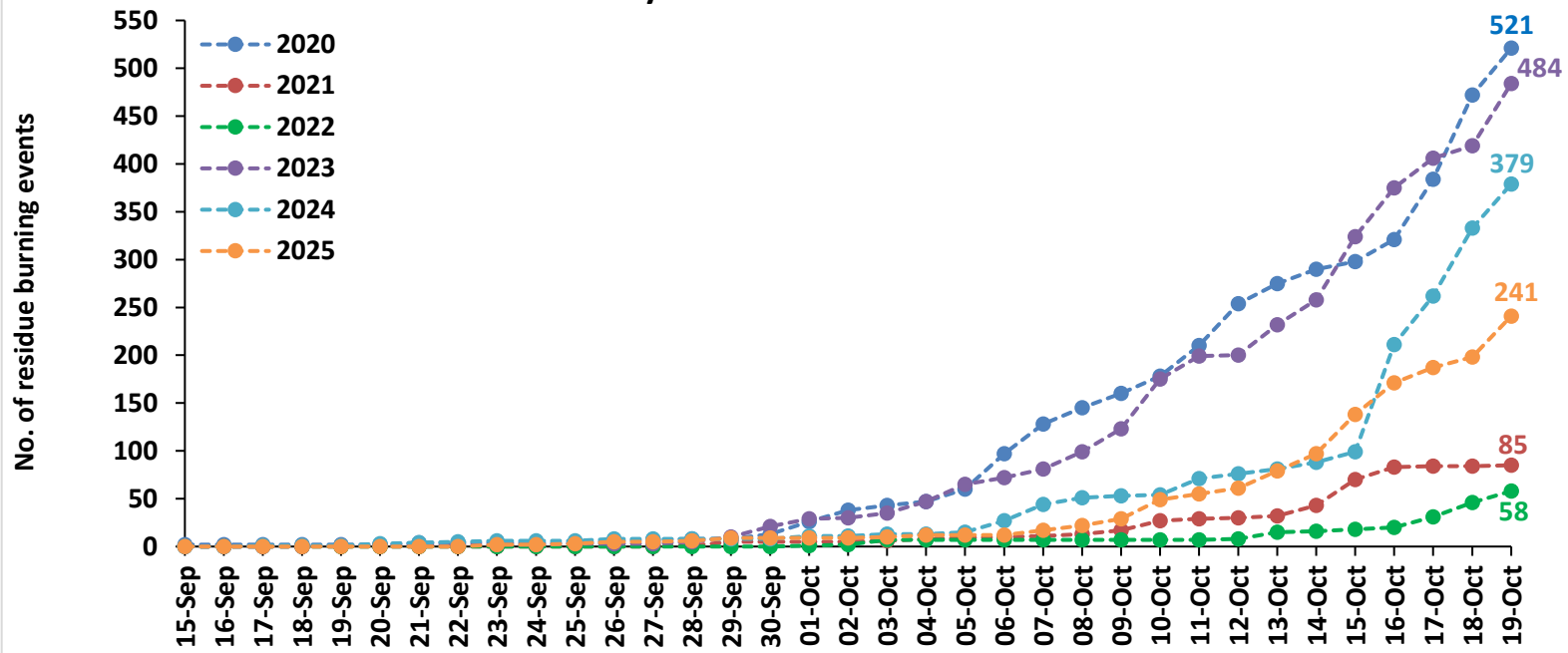
Comparison of residue burning fire power in current year (2025) with previous years (2020,2021,2022, 2023 and 2024) for the study

States

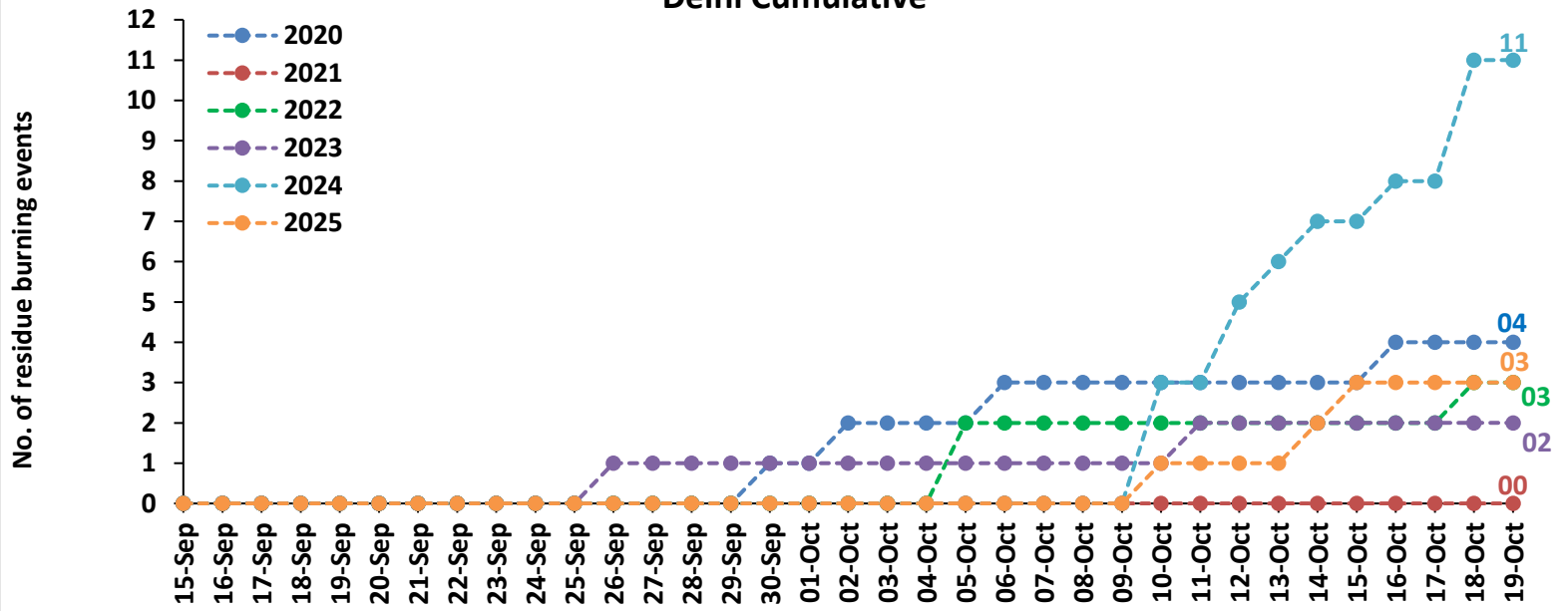




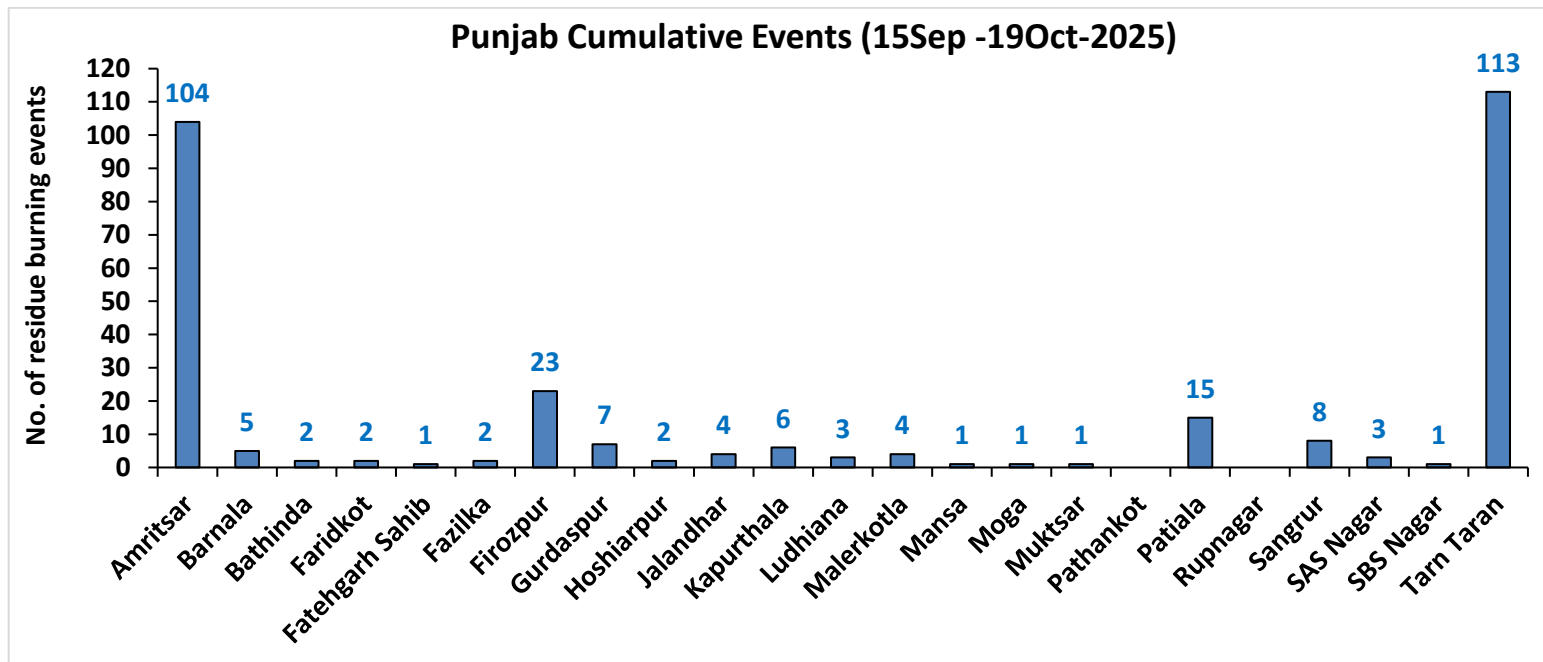
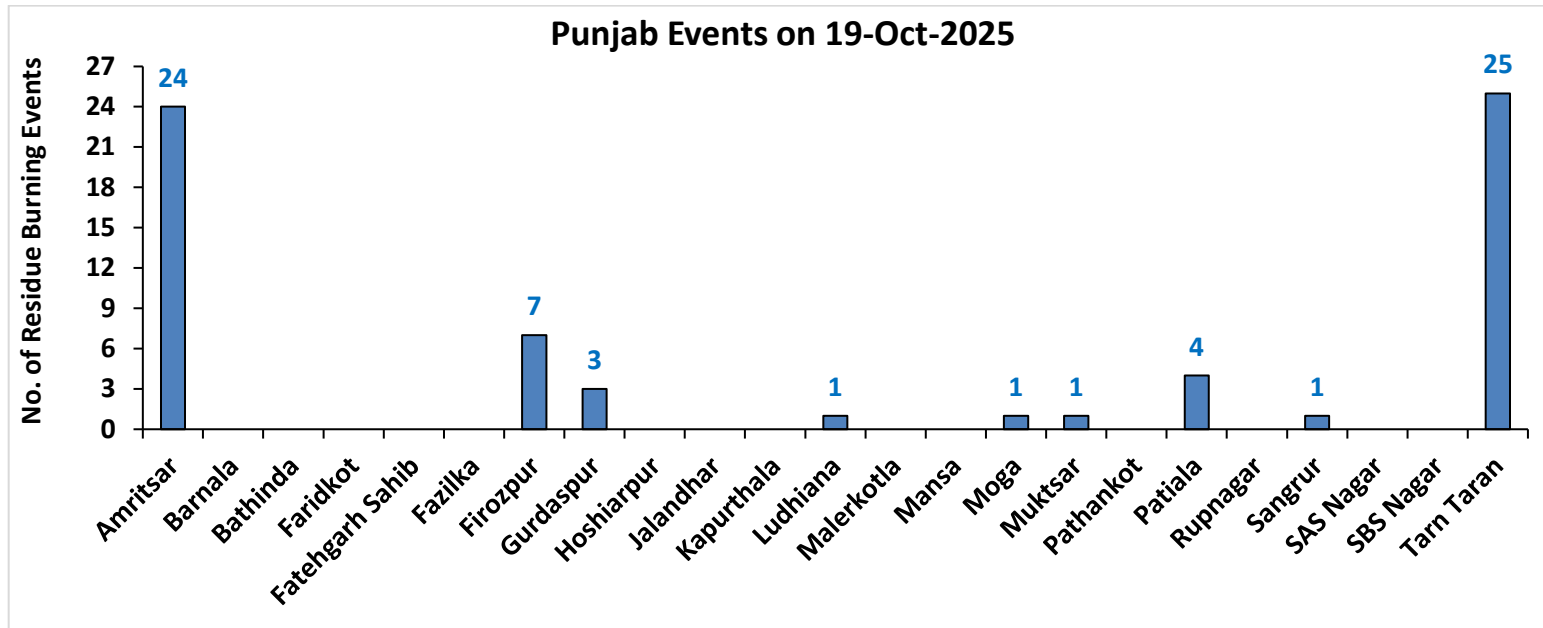
Madhya Pradesh Cumulative



Delhi Cumulative

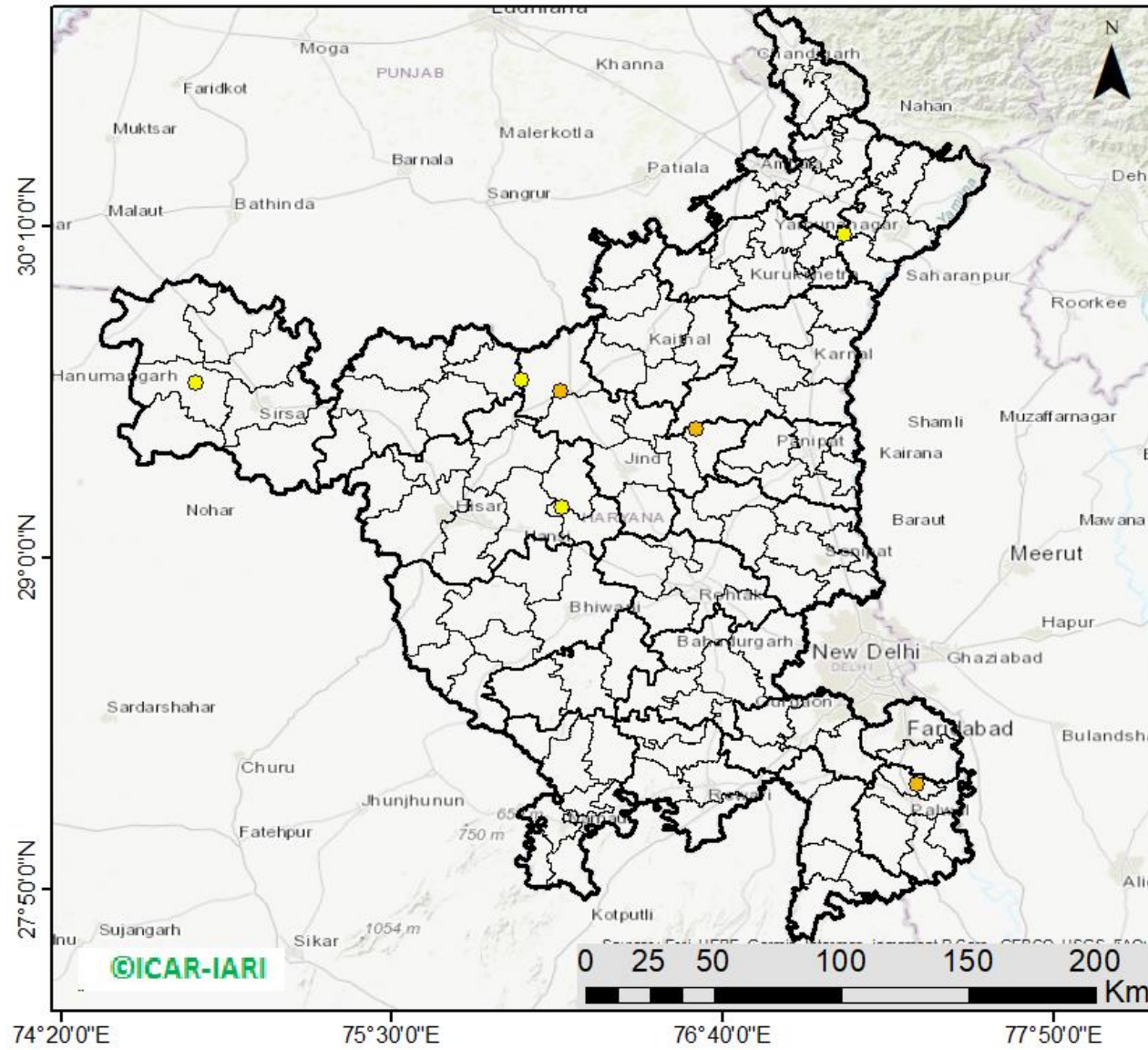


District-wise cumulative number of residues burning events in Punjab (15Sep-19Oct-2025)



Haryana

RICE RESIDUE BURNING IN HARYANA



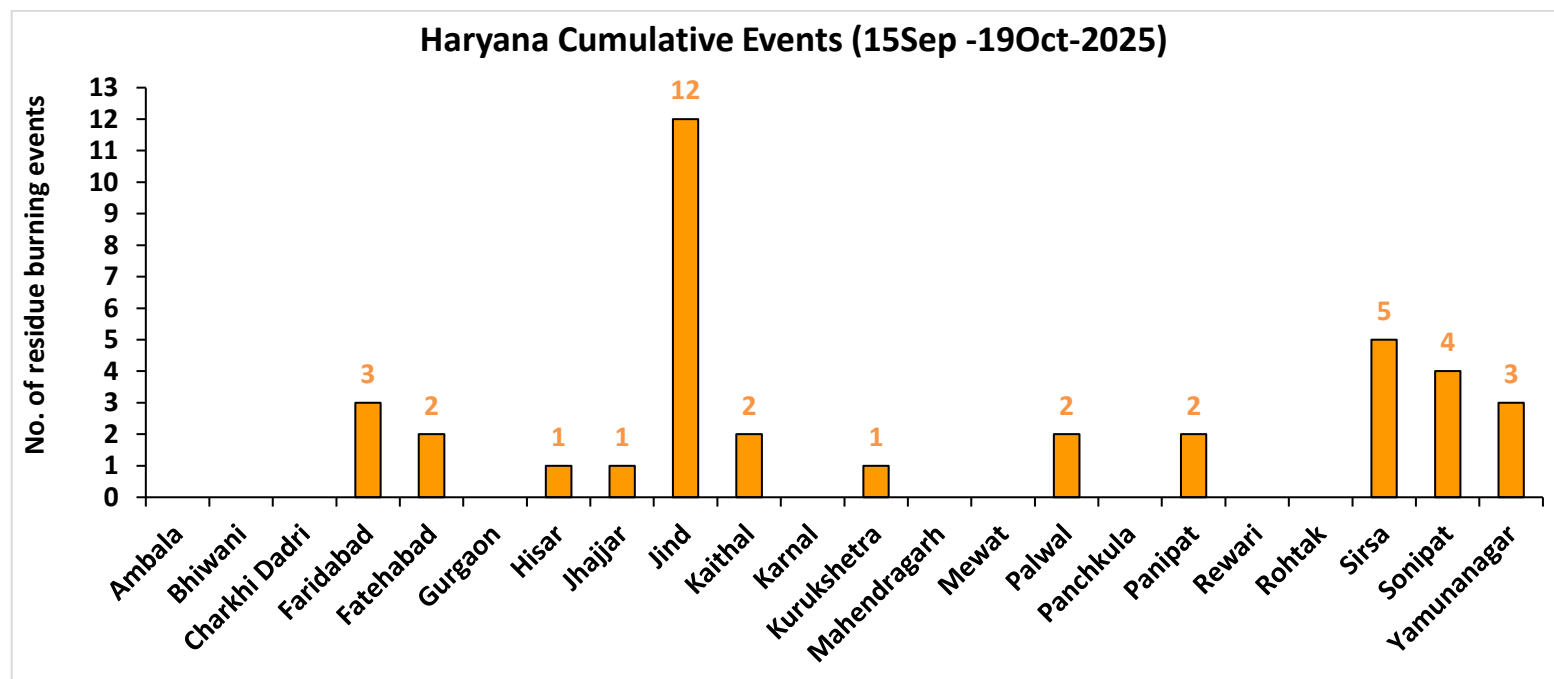
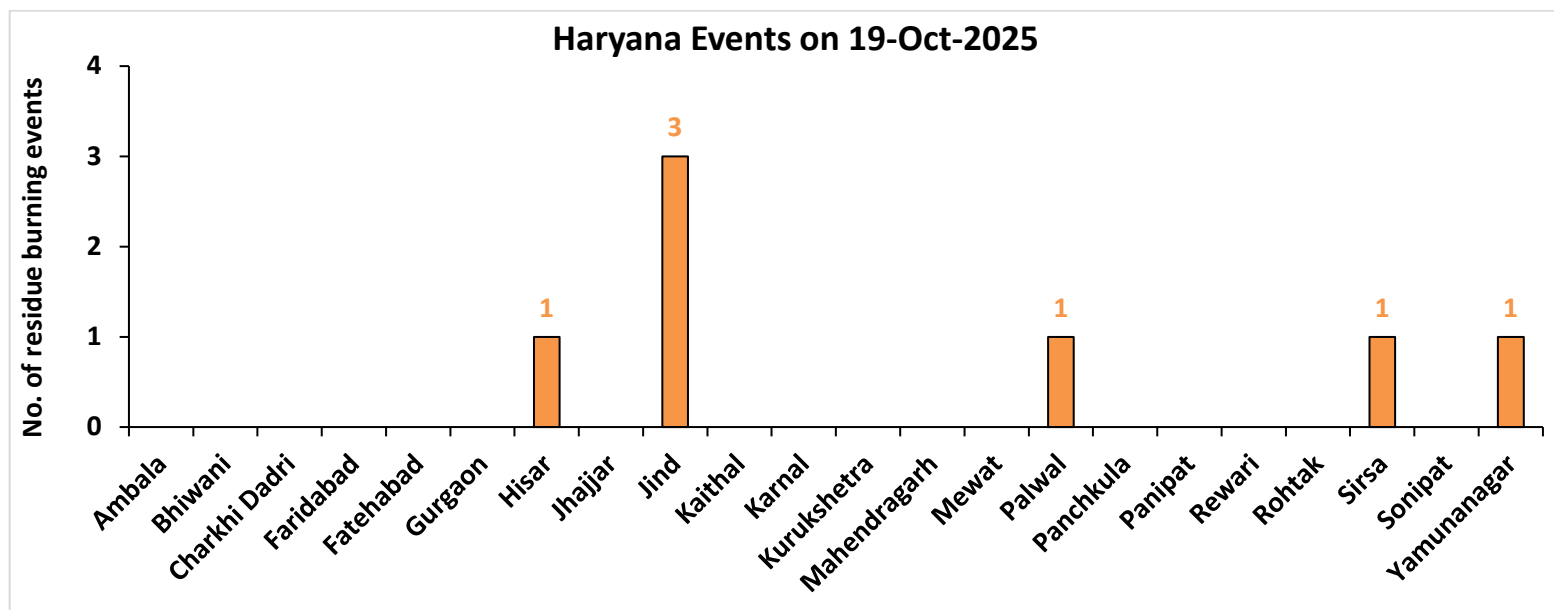
07 burning events detected in Haryana on (19th Oct 2025)

Fire Intensity (W/m²)

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

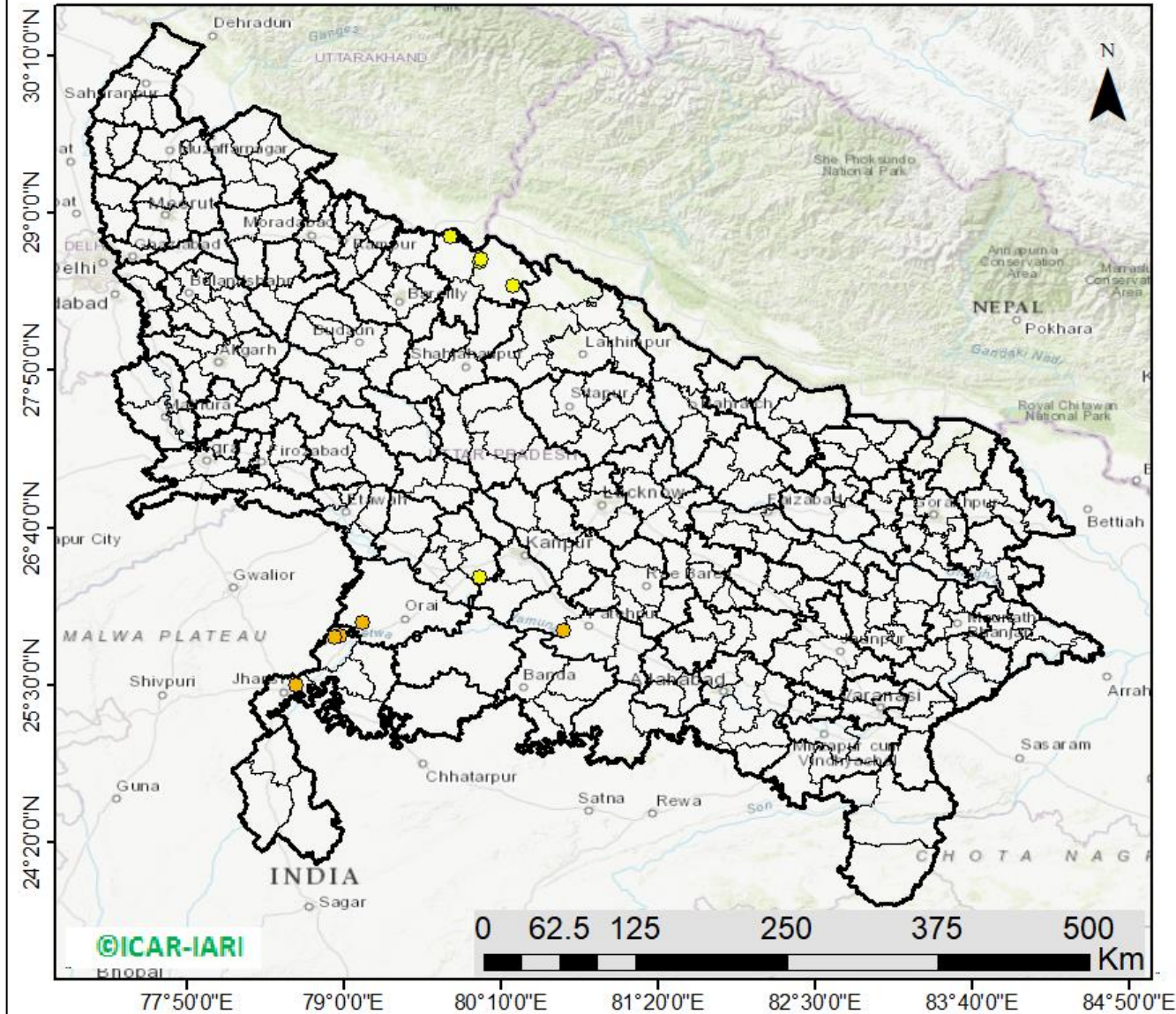


District-wise cumulative number of residues burning events in Haryana (15Sep-19Oct-2025)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



12 burning events detected in Uttar Pradesh on (19th Oct 2025)

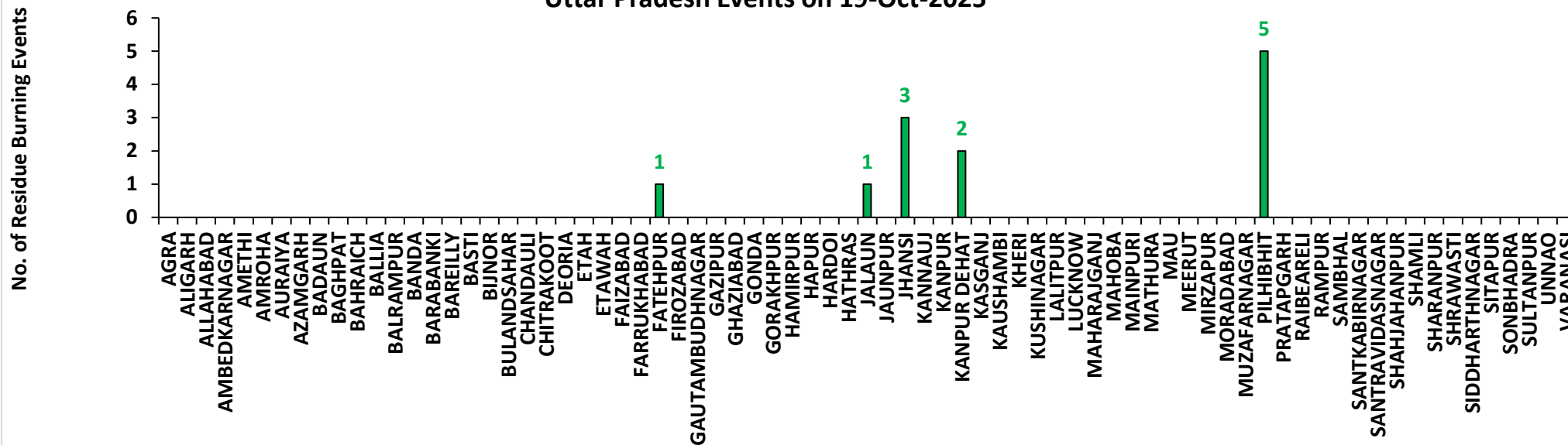
Fire Intensity (W/m²)

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

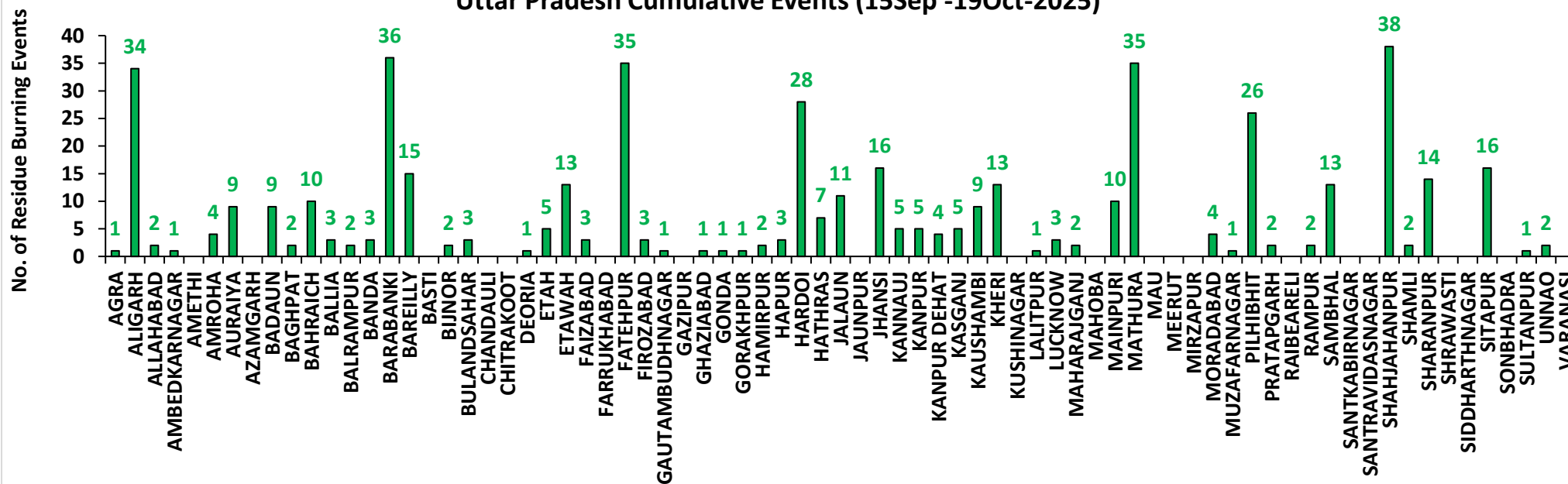


District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-19Oct-2025)

Uttar Pradesh Events on 19-Oct-2025

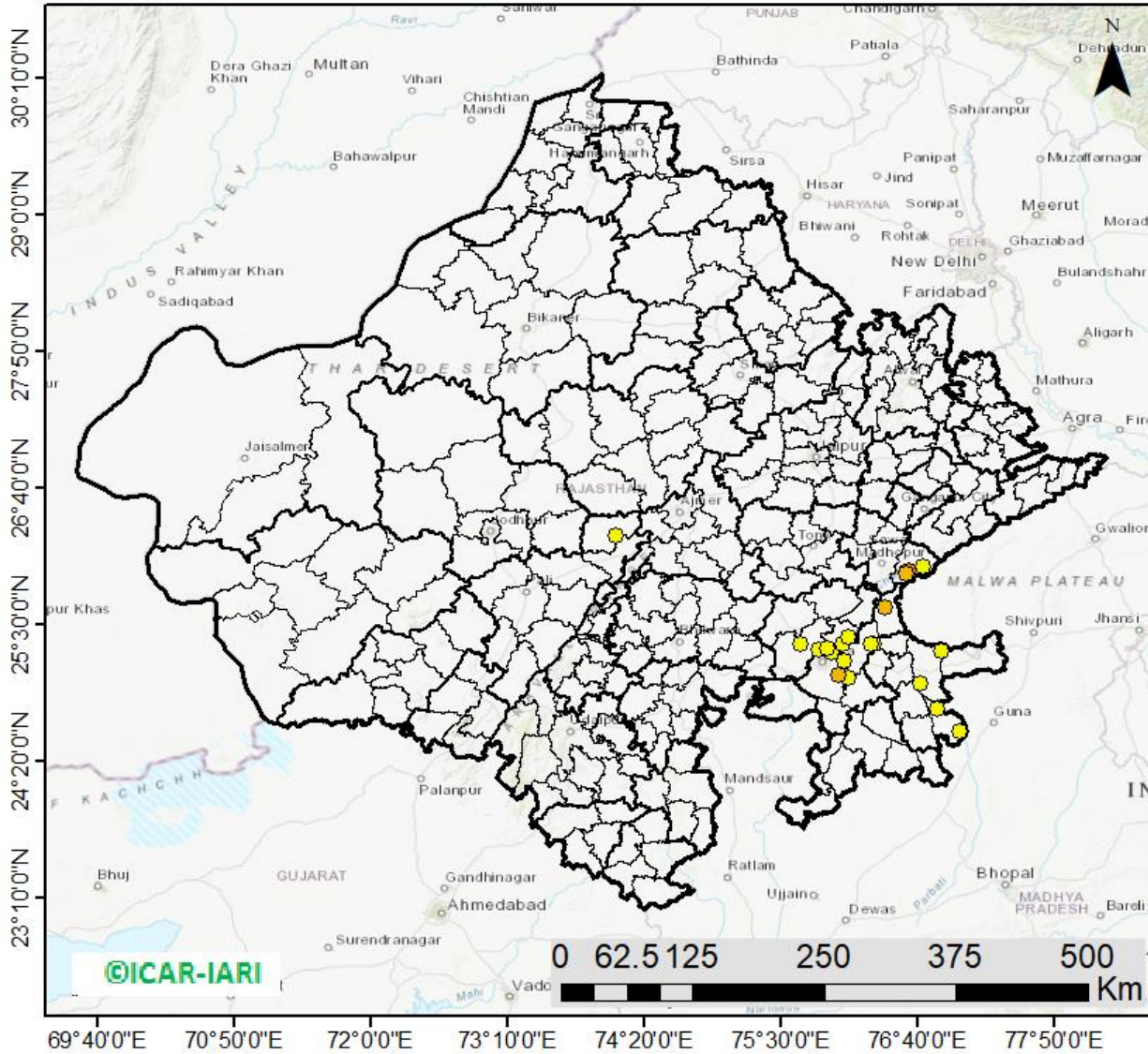


Uttar Pradesh Cumulative Events (15Sep -19Oct-2025)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



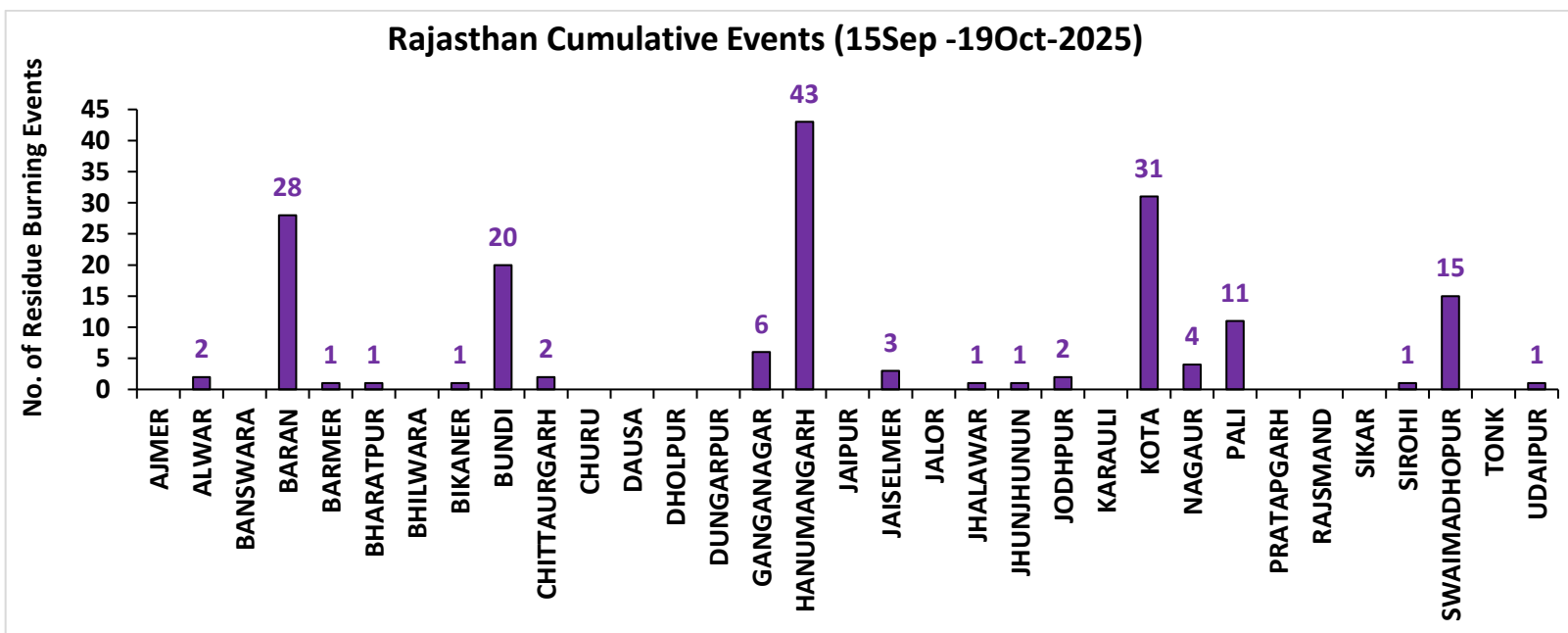
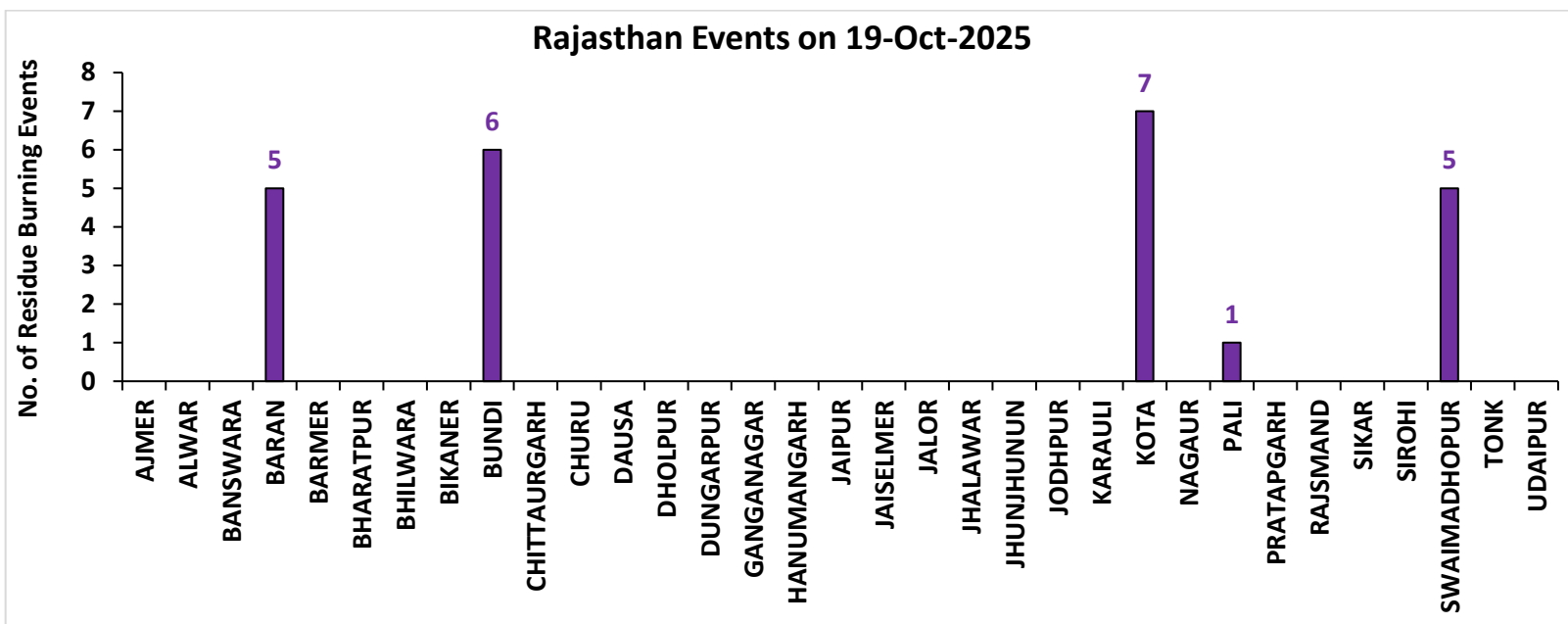
24 burning events
detected in Rajasthan on
(19th Oct 2025)

Fire Intensity (W/m²)

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

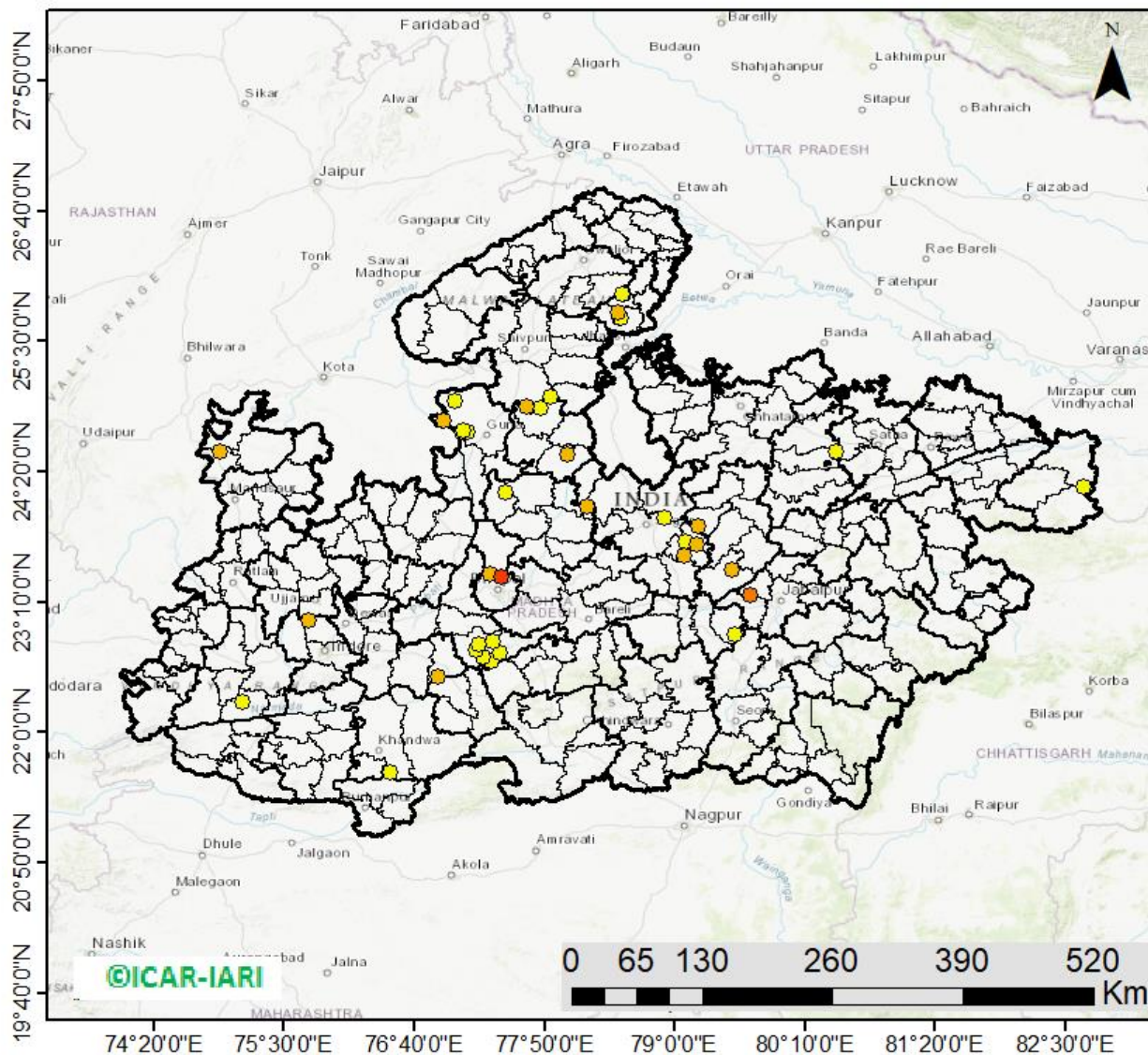


District-wise cumulative number of residues burning events in Rajasthan (15Sep-19Oct-2025)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



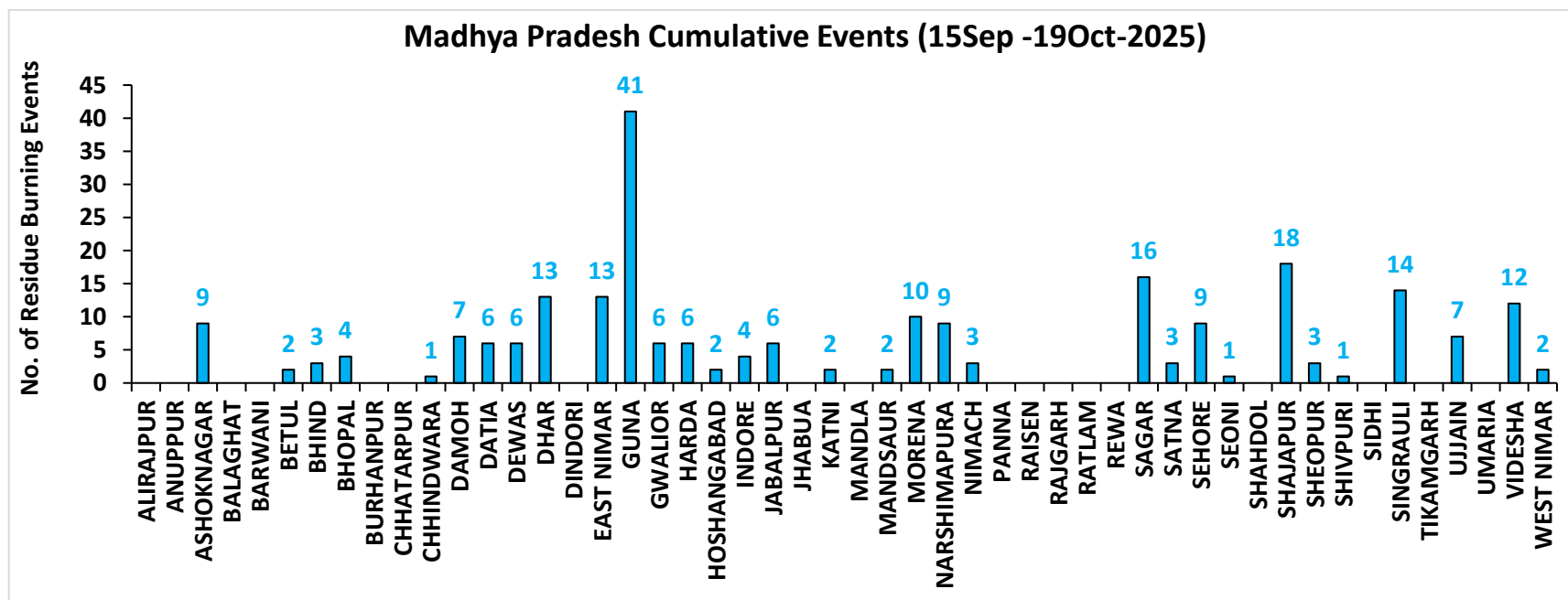
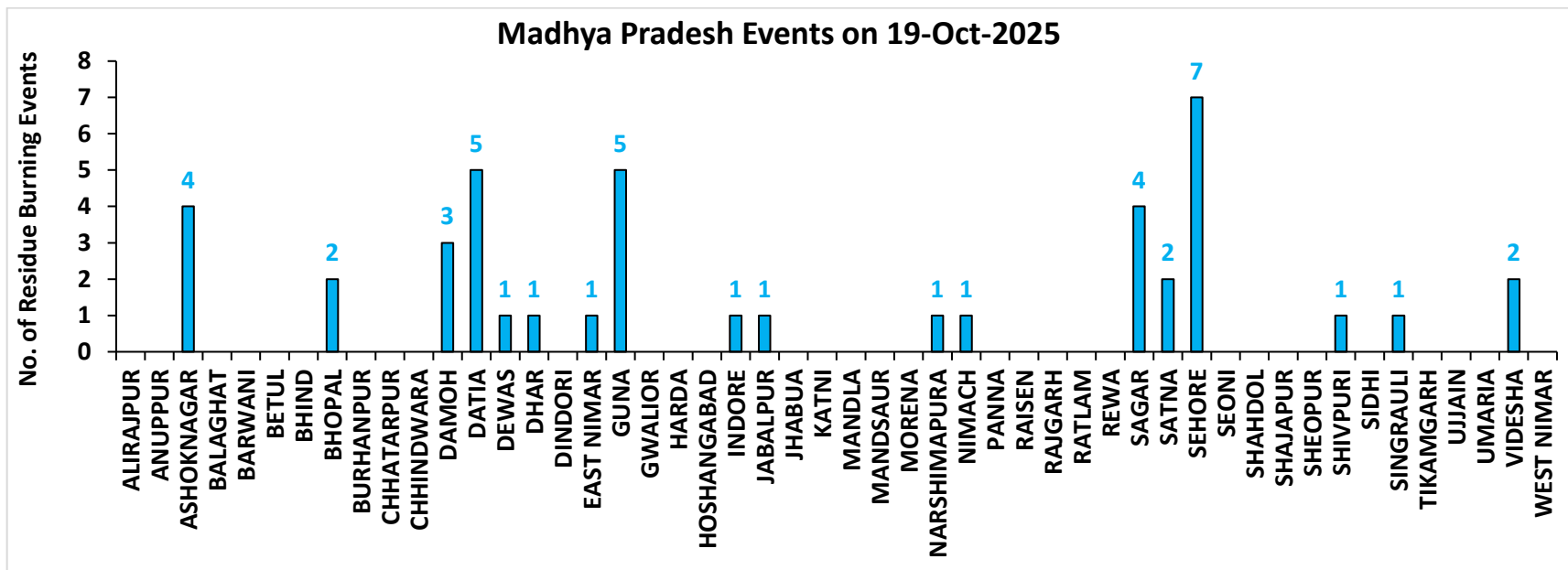
43 burning events
detected in MP on
(19th Oct 2025)

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-19Oct-2025)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023, 2024 and 2025
(Period: 15 September -19 October)

(a) Punjab

District	15 Sep- 19 Oct					
	2020	2021	2022	2023	2024	2025
Amritsar	2055	665	788	648	430	104
Barnala	27	24	13	8	7	5
Bathinda	107	18	8	2	6	2
Faridkot	397	106	14	9	2	2
Fatehgarh Sahib	217	113	47	25	25	1
Fazilka	95	45	20	7	9	2
Firozpur	843	142	120	65	87	23
Gurdaspur	588	158	228	11	47	7
Hoshiarpur	72	19	3	2	0	2
Jalandhar	154	102	103	20	15	4
Kapurthala	360	123	138	81	63	6
Ludhiana	197	186	57	26	27	3
Malerkotla	0	0	0	3	24	4
Mansa	71	8	14	37	25	1
Moga	109	62	51	13	10	1
Muktsar	70	39	5	1	3	1
Pathankot	3	0	0	0	0	0
Patiala	704	284	117	153	170	15
Rupnagar	46	21	6	1	2	0
Sangrur	179	57	73	78	126	8
SAS NAGAR (Mohali)	52	28	11	55	26	3
SBS Nagar	17	14	2	2	3	1
Tarn Taran	2146	728	807	197	286	113
Total	8509	2942	2625	1444	1393	308

(b) Haryana

District	15 Sep- 19 Oct					
	2020	2021	2022	2023	2024	2025
AMBALA	130	54	35	81	73	0
BHIWANI	0	0	0	2	0	0
CHARKHI DADRI	0	0	0	0	0	0
FARIDABAD	0	1	1	2	30	3
FATEHABAD	67	57	49	87	36	2
GURGAON	0	0	0	0	0	0
HISAR	9	1	8	33	18	1
JHAJJAR	1	0	0	3	1	1
JIND	33	33	50	66	49	12
KAITHAL	215	287	162	53	123	2
KARNAL	326	350	102	39	69	0
KURUKSHETRA	254	205	126	67	90	1
MAHENDRAGARH	0	0	0	0	0	0
MEWAT	0	0	0	0	0	0
PALWAL	19	25	0	27	26	2
PANCHKULA	0	0	0	1	14	0
PANIPAT	9	15	8	14	27	2
REWARI	0	0	0	0	0	0
ROHTAK	1	0	0	4	6	0
SIRSA	18	4	7	6	16	5
SONIPAT	11	5	6	43	40	4
YAMUNANAGAR	70	45	32	42	24	3
Total	1163	1082	586	570	642	38

(c) Uttar Pradesh

District	15 Sep- 19 Oct																			
	2020	2021	2022	2023	2024	2025	GAUTAMBU DHNAGAR	2	7	2	6	21	1	MUZAFARNAGAR	3	2	1	0	5	1
AGRA	2	0	0	0	0	1	GAZIPUR	0	0	0	0	0	0	PILHIBHIT	8	108	16	37	20	26
ALIGARH	35	21	4	64	136	34	GHAZIABAD	3	2	1	6	8	1	PRATAPGARH	1	0	0	0	0	2
ALLAHABAD	0	1	0	0	1	2	GONDA	0	0	0	0	0	1	RAIBEARELI	1	0	0	0	1	0
AMBEDKARNA GAR	0	0	0	0	2	1	GORAKHPU R	1	0	0	0	0	1	RAMPUR	35	50	6	16	13	2
AMETHI	0	1	4	1	0	0	HAMIRPUR	1	0	0	0	0	2	SAMBHAL	7	7	4	8	83	13
AMROHA	1	0	0	2	4	4	HAPUR	3	1	0	0	8	3	SANTKABIRNAGAR	0	0	0	0	0	0
AURAIYA	17	6	4	4	1	9	HARDOI	12	6	2	4	12	28	SANTRAVIDASNAG AR	0	0	0	0	0	0
AZAMGARH	0	0	0	0	0	0	HATHRAS	0	0	0	2	9	7	SHAHJAHANPUR	44	181	74	21	39	38
BADAUN	1	6	0	2	18	9	JALAUN	0	0	0	0	0	11	SHAMLI	20	11	3	3	5	2
BAGHPAT	3	1	1	1	3	2	JAUNPUR	0	0	0	1	0	0	SHARANPUR	32	17	2	0	4	14
BAHRAICH	8	2	4	0	3	10	JHANSI	10	6	0	5	2	16	SHRAWASTI	7	0	0	0	0	0
BALLIA	0	0	0	0	1	3	KANNAUJ	3	1	0	1	4	5	SIDDHARTHANAGAR	0	0	0	0	0	0
BALRAMPUR	1	1	1	0	0	2	KANPUR	3	7	10	3	1	5	SITAPUR	14	9	0	2	42	16
BANDA	0	0	0	0	0	3	KANPUR DEHAT	11	1	0	3	1	4	SONBHADRA	0	0	0	0	0	0
BARABANKI	14	20	0	19	57	36	KASGANJ	1	2	0	1	1	5	SULTANPUR	0	0	0	0	0	1
BAREILLY	18	15	2	10	11	15	KAUSHAMBI	9	3	0	6	3	9	UNNAO	5	0	0	2	4	2
BASTI	3	1	0	0	1	0	KHERI	41	54	9	4	11	13	VARANASI	1	0	0	0	0	0
BIJNOR	6	3	1	5	4	2	KUSHINAGA R	0	0	0	0	0	0	Total	498	625	164	339	687	480
BULANDSAHAR	14	2	2	5	24	3	LALITPUR	0	1	2	0	0	1							
CHANDAULI	0	0	0	0	0	0	LUCKNOW	2	0	0	1	4	3							
CHITRAKOOT	0	0	1	0	0	0	MAHARAJG ANJ	0	0	0	0	1	2							
DEORIA	0	0	0	2	0	1	MAHOBA	3	0	0	0	0	0							
ETAH	6	6	0	8	8	5	MAINPURI	10	7	3	6	10	10							
ETAWAH	4	7	0	11	4	13	MATHURA	26	27	1	54	54	35							
FAIZABAD	1	0	0	0	4	3	MAU	0	0	0	0	0	0							
FARRUKHABAD	0	0	0	0	0	0	MEERUT	12	4	1	2	7	0							
FATEHPUR	18	6	1	7	12	35	MIRZAPUR	6	5	2	0	2	0							
FIROZABAD	4	4	0	2	0	3	MORADABA D	5	3	0	2	18	4							

(d) Delhi

District	15 Sep- 19 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	3	2	8	3
NORTH EAST	0	0	0	0	0	0
NORTH WEST DELHI	1	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	0	0	0	0	0	0
Total	4	0	3	2	11	3

(e) Rajasthan

District	15 Sep- 19 Oct					
	2020	2021	2022	2023	2024	2025
AJMER	0	0	0	0	0	0
ALWAR	1	0	0	0	0	2
BANSWARA	0	0	0	0	0	0
BARAN	88	0	7	124	78	28
BARMER	2	0	0	0	0	1
BHARATPUR	1	0	0	2	4	1
BHILWARA	2	0	0	0	0	0
BIKANER	1	0	0	0	0	1
BUNDI	10	0	18	23	29	20
CHITTAURGARH	0	2	2	7	1	2
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	3	0	1	9	17	6
HANUMANGARH	148	31	8	40	87	43
JAIPUR	1	0	0	0	0	0
JAISELMER	2	0	0	0	0	3
JALOR	0	0	0	0	0	0
JHALAWAR	1	0	1	7	1	1
JHUNJHUNUN	1	0	0	0	0	1
JODHPUR	1	0	0	0	0	2
KARALI	1	0	0	0	0	0
KOTA	27	1	9	62	35	31
NAGOUR	0	0	0	0	0	4
PALI	1	0	0	0	0	11
PRATAPGARH	4	0	0	0	0	0
RAJSMAND	0	0	0	0	0	0
SIKAR	0	0	0	0	0	0
SIROHI	1	0	0	0	0	1
SWAIMADHOPUR	7	0	3	21	12	15
TONK	1	0	0	0	0	0
UDAIPUR	0	0	0	0	0	1
Total	304	34	49	295	264	174

(f) Madhya Pradesh

District	15 Sep- 19 Oct													
	2020	2021	2022	2023	2024	2025	PANNA	3	0	0	0	0	0	
ALIRAJPUR	0	0	0	0	0	0	RAISEN	18	1	1	3	1	0	
ANUPPUR	0	0	0	0	0	0	RAJGARH	7	1	3	7	1	0	
ASHOKNAGAR	19	1	2	23	35	9	RATLAM	0	0	0	1	0	0	
BALAGHAT	0	0	0	0	0	0	REWA	4	0	1	0	0	0	
BARWANI	0	0	0	0	0	0	SAGAR	15	7	4	13	18	16	
BETUL	1	0	0	2	4	2	SATNA	11	6	0	2	2	3	
BHIND	9	1	0	12	11	3	SEHORE	9	3	7	11	7	9	
BHOPAL	6	5	2	7	1	4	SEONI	35	5	1	5	2	1	
BURHANPUR	0	0	0	0	0	0	SHAHDOL	0	0	0	0	0	0	
CHHATARPUR	4	0	0	3	1	0	SHAJAPUR	5	0	0	7	7	18	
CHHINDWARA	4	3	0	2	2	1	SHEOPUR	15	0	1	21	0	3	
DAMOH	20	4	5	11	11	7	SHIVPURI	9	0	7	11	18	1	
DATIA	76	8	0	52	10	6	SIDHI	0	0	0	0	0	0	
DEWAS	3	0	0	6	3	6	SINGRAULI	0	0	0	0	6	14	
DHAR	20	0	0	23	5	13	TIKAMGARH	1	0	0	2	0	0	
DINDORI	0	0	0	1	0	0	UJJAIN	5	0	0	14	5	7	
EAST NIMAR	2	1	3	1	1	13	UMARIA	0	0	0	0	0	0	
GUNA	16	1	4	120	117	41	VIDESHA	60	8	7	23	30	12	
GWALIOR	46	0	1	13	1	6	WEST NIMAR	6	0	0	5	2	2	
HARDA	8	9	0	14	3	6	Total	521	85	58	484	379	241	
HOSHANGABAD	38	8	2	19	1	2								
INDORE	2	0	0	12	11	4								
JABALPUR	12	4	3	12	20	6								
JHABUA	0	0	0	0	0	0								
KATNI	3	0	0	1	0	2								
MANDLA	1	0	0	0	0	0								
MANDSAUR	3	0	0	1	10	2								
MORENA	17	5	0	15	19	10								
NARSHIMAPURA	8	4	4	9	13	9								
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 -19 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
Total	8509	2942	2625	1444	1393	308	1163	1082	586	570	642	38	498	625	164	339	687	480

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
Total	4	0	3	2	11	3	304	34	49	295	264	174	521	85	58	484	379	241

Details of residue burning events in Punjab on 19-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	AQUA	31.98900	74.87700	15:02:27	D	9.00
2	AMRITSAR	CHOGAWAN	S-NPP	31.64611	74.64112	13:57:32	D	2.00
3	AMRITSAR	CHOGAWAN	S-NPP	31.68379	74.53496	13:57:32	D	5.30
4	AMRITSAR	CHOGAWAN	S-NPP	31.76552	74.60724	13:57:32	D	2.60
5	AMRITSAR	CHOGAWAN	S-NPP	31.80382	74.58124	13:57:32	D	8.10
6	AMRITSAR	CHOGAWAN	S-NPP	31.83378	74.70896	13:57:32	D	3.30
7	AMRITSAR	CHOGAWAN	AQUA	31.76500	74.62000	15:02:27	D	5.00
8	AMRITSAR	CHOGAWAN	AQUA	31.78800	74.59400	15:02:27	D	4.80
9	AMRITSAR	HARSHA CHHINA	S-NPP	31.74739	74.74631	13:57:32	D	2.40
10	AMRITSAR	HARSHA CHHINA	S-NPP	31.77370	74.91647	13:57:32	D	7.10
11	AMRITSAR	HARSHA CHHINA	S-NPP	31.79479	74.87838	13:57:32	D	3.30
12	AMRITSAR	JANDIALA GURU	S-NPP	31.58759	75.09580	13:57:32	D	1.30
13	AMRITSAR	JANDIALA GURU	AQUA	31.52500	75.05500	15:02:27	D	7.20
14	AMRITSAR	MAJITHA	S-NPP	31.74969	75.13370	13:57:32	D	2.50
15	AMRITSAR	MAJITHA	S-NPP	31.78467	75.02114	13:57:32	D	5.20
16	AMRITSAR	RAYYA	S-NPP	31.65327	75.23243	13:57:32	D	7.80
17	AMRITSAR	RAYYA	S-NPP	31.65748	75.23183	13:57:32	D	22.20
18	AMRITSAR	RAYYA	AQUA	31.52800	75.20100	15:02:27	D	18.50
19	AMRITSAR	RAYYA	AQUA	31.54900	75.28100	15:02:27	D	8.70
20	AMRITSAR	TARSIKKA	S-NPP	31.57363	75.16499	13:57:32	D	4.70
21	AMRITSAR	TARSIKKA	S-NPP	31.68608	75.13726	13:57:32	D	5.30
22	AMRITSAR	TARSIKKA	S-NPP	31.68749	75.11008	13:57:32	D	6.80
23	AMRITSAR	TARSIKKA	S-NPP	31.74136	75.13862	13:57:32	D	6.70
24	AMRITSAR	TARSIKKA	AQUA	31.64700	75.19200	15:02:27	D	6.70
25	FIROZPUR	FIROZPUR	S-NPP	30.94439	74.58616	13:57:32	D	23.10
26	FIROZPUR	FIROZPUR	S-NPP	30.94543	74.58432	13:57:32	D	19.60
27	FIROZPUR	FIROZPUR	AQUA	30.94400	74.58300	15:02:27	D	13.50
28	FIROZPUR	FIROZPUR	AQUA	30.96600	74.53000	15:02:27	D	10.70
29	FIROZPUR	GHALL KHURD	S-NPP	30.91407	74.71725	13:57:32	D	18.60
30	FIROZPUR	GURUHAR SAHAI	AQUA	30.74400	74.29300	15:02:27	D	6.70

31	FIROZPUR	MAMDOT	AQUA	30.93100	74.43800	15:02:27	D	4.70
32	GURDASPUR	DERA BABA NANAK	AQUA	31.96700	74.97600	15:02:27	D	4.10
33	GURDASPUR	QADIAN	AQUA	31.74700	75.31300	15:02:27	D	10.90
34	GURDASPUR	SRI HARGOBINDPUR	AQUA	31.73300	75.33700	15:02:27	D	14.00
35	LUDHIANA	LUDHIANA 2	S-NPP	30.95487	76.07637	13:57:32	D	1.80
36	MOGA	MOGA 1	S-NPP	30.84951	75.22240	13:57:32	D	2.60
37	MUKTSAR	MALOUT	S-NPP	30.20199	74.37773	13:57:32	D	6.40
38	PATIALA	PATRAM	AQUA	29.86600	76.18900	15:02:27	D	6.10
39	PATIALA	PATRAM	AQUA	29.88000	76.22800	15:02:27	D	8.70
40	PATIALA	RAJPURA	AQUA	30.47800	76.54200	15:02:27	D	5.60
41	PATIALA	RAJPURA	AQUA	30.54300	76.53400	15:02:27	D	7.70
42	SANGRUR	ANDANA	S-NPP	29.84547	75.90320	13:57:32	D	3.10
43	TARN TARAN	BHIKHIWIND	S-NPP	31.34305	74.57771	13:57:32	D	3.70
44	TARN TARAN	BHIKHIWIND	S-NPP	31.34622	74.60635	13:57:32	D	1.80
45	TARN TARAN	GANDIWIND TATLA	AQUA	31.43000	74.67200	15:02:27	D	13.90
46	TARN TARAN	GANDIWIND TATLA	AQUA	31.43100	74.68200	15:02:27	D	5.20
47	TARN TARAN	KHADUR SAHIB	S-NPP	31.41671	75.09893	13:57:32	D	5.90
48	TARN TARAN	KHADUR SAHIB	S-NPP	31.41784	75.09549	13:57:32	D	7.60
49	TARN TARAN	KHADUR SAHIB	S-NPP	31.43121	75.10251	13:57:32	D	3.10
50	TARN TARAN	KHADUR SAHIB	S-NPP	31.43537	75.10192	13:57:32	D	3.10
51	TARN TARAN	KHADUR SAHIB	S-NPP	31.45019	75.08206	13:57:32	D	2.70
52	TARN TARAN	KHADUR SAHIB	S-NPP	31.46817	75.09287	13:57:32	D	4.20
53	TARN TARAN	KHADUR SAHIB	S-NPP	31.47919	75.19872	13:57:32	D	2.60
54	TARN TARAN	KHADUR SAHIB	AQUA	31.39500	75.06200	15:02:27	D	4.80
55	TARN TARAN	KHADUR SAHIB	AQUA	31.42300	75.05000	15:02:27	D	4.00
56	TARN TARAN	KHADUR SAHIB	AQUA	31.43200	75.04800	15:02:27	D	6.00
57	TARN TARAN	KHADUR SAHIB	AQUA	31.49400	75.04600	15:02:27	D	4.80
58	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.38732	74.86711	13:57:32	D	4.60
59	TARN TARAN	TARN TARAN	S-NPP	31.36225	74.82777	13:57:32	D	1.30
60	TARN TARAN	TARN TARAN	S-NPP	31.40285	74.78859	13:57:32	D	16.50
61	TARN TARAN	TARN TARAN	S-NPP	31.41421	74.77842	13:57:32	D	3.00
62	TARN TARAN	TARN TARAN	S-NPP	31.42963	74.76770	13:57:32	D	1.60
63	TARN TARAN	TARN TARAN	AQUA	31.39700	74.81500	15:02:27	D	4.90
64	TARN TARAN	TARN TARAN	AQUA	31.43600	75.01600	15:02:27	D	4.80

65	TARN TARAN	TARN TARAN	AQUA	31.45900	74.86500	15:02:27	D	7.50
66	TARN TARAN	TARN TARAN	AQUA	31.46000	74.87500	15:02:27	D	20.30
67	TARN TARAN	VALTOHA	AQUA	31.17600	74.69400	15:02:27	D	17.50

Details of residue burning events in Haryana on 19-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	HISAR	NARNAUND	S-NPP	29.17374	76.09911	13:57:32	D	3.40
2	JIND	NARWANA	S-NPP	29.62484	75.95682	13:57:32	D	1.90
3	JIND	NARWANA	AQUA	29.58500	76.09400	15:02:27	D	6.80
4	JIND	SAFIDON	AQUA	29.44900	76.56800	15:02:27	D	8.50
5	PALWAL	PRITHLA	AQUA	28.19900	77.34700	15:02:27	D	8.10
6	SIRSA	RANIA	S-NPP	29.61214	74.80593	13:57:32	D	4.80
7	YAMUNANAGAR	MUSTAFABAD	S-NPP	30.13803	77.09042	13:57:32	D	3.90

Details of residue burning events in Uttar Pradesh on 19-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	FATEHPUR	FATEHPUR	AQUA	25.89976	80.63056	15:04:00	D	9.00
2	JALAUN	KONCH	AQUA	25.95895	79.13672	15:04:00	D	7.11
3	JHANSI	JHANSI	AQUA	25.49743	78.64452	15:04:00	D	6.41
4	JHANSI	MOTH	S-NPP	25.86584	78.97405	14:00:00	D	6.07
5	JHANSI	MOTH	AQUA	25.84903	78.93339	15:04:00	D	8.30
6	KANPUR DEHAT	AKBARPUR	S-NPP	26.29116	80.01197	14:00:00	D	2.82
7	KANPUR DEHAT	AKBARPUR	S-NPP	26.29645	80.01143	14:00:00	D	2.82
8	PILHIBHIT	PILHIBHIT	S-NPP	28.82899	79.78899	02:44:00	N	0.90
9	PILHIBHIT	PURANPUR	S-NPP	28.46544	80.25651	12:20:00	D	4.17
10	PILHIBHIT	PURANPUR	S-NPP	28.63732	80.00751	01:04:00	N	0.50
11	PILHIBHIT	PURANPUR	S-NPP	28.63828	80.00864	01:04:00	N	0.59
12	PILHIBHIT	PURANPUR	S-NPP	28.65568	80.01855	02:44:00	N	1.06

Details of residue burning events in Rajasthan on 19-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARAN	CHHABRA	S-NPP	24.57908	77.03082	14:00:00	D	5.46
2	BARAN	CHHABRA	S-NPP	24.58050	77.02966	14:00:00	D	3.28
3	BARAN	CHHABRA	S-NPP	24.76642	76.82893	14:00:00	D	4.47
4	BARAN	KISHANGUNJ	S-NPP	24.99035	76.68811	14:00:00	D	2.98
5	BARAN	KISHANGUNJ	S-NPP	25.26232	76.86455	14:00:00	D	3.09
6	BUNDI	BUNDI	S-NPP	25.28206	75.81945	14:00:00	D	2.74
7	BUNDI	BUNDI	S-NPP	25.32989	75.66081	14:00:00	D	3.33
8	BUNDI	KESHORAIPATAN	S-NPP	25.28328	75.89824	14:00:00	D	2.05
9	BUNDI	KESHORAIPATAN	S-NPP	25.32321	76.02760	14:00:00	D	1.37
10	BUNDI	KESHORAIPATAN	S-NPP	25.32332	76.02731	14:00:00	D	1.37
11	BUNDI	KESHORAIPATAN	S-NPP	25.39013	76.07049	14:00:00	D	2.63
12	KOTA	DIGOD	S-NPP	25.18070	76.03909	14:00:00	D	4.56
13	KOTA	DIGOD	S-NPP	25.32475	76.28694	14:00:00	D	2.82
14	KOTA	DIGOD	AQUA	25.32878	76.26449	15:04:00	D	4.77
15	KOTA	LADPURA	S-NPP	25.06280	75.98407	14:00:00	D	5.57
16	KOTA	LADPURA	S-NPP	25.25779	75.92533	14:00:00	D	3.07
17	KOTA	PIPALDA	S-NPP	25.63590	76.38550	14:00:00	D	8.13
18	KOTA	SANGOD	S-NPP	25.03633	76.07481	14:00:00	D	3.84
19	PALI	JAITARAN	S-NPP	26.25663	74.09448	02:46:00	N	0.62
20	SWAIMADHOPUR	KHANDAR	S-NPP	25.94225	76.56551	14:00:00	D	2.06
21	SWAIMADHOPUR	KHANDAR	S-NPP	25.94508	76.59151	14:00:00	D	8.32
22	SWAIMADHOPUR	KHANDAR	S-NPP	25.94932	76.59094	14:00:00	D	12.19
23	SWAIMADHOPUR	KHANDAR	S-NPP	25.98447	76.71517	14:00:00	D	3.09
24	SWAIMADHOPUR	KHANDAR	AQUA	25.92941	76.57286	15:04:00	D	7.86

Details of residue burning events in Madhya Pradesh on 19-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ASHOKNAGAR	ISAGARH	S-NPP	24.89548	77.79572	14:00:00	D	1.92
2	ASHOKNAGAR	ISAGARH	S-NPP	24.99724	77.88963	14:00:00	D	3.74
3	ASHOKNAGAR	ISAGARH	S-NPP	24.99776	77.89123	14:00:00	D	4.93
4	ASHOKNAGAR	MUNGAOLI	AQUA	24.48399	78.03941	15:04:00	D	6.48
5	BHOPAL	HUZUR	S-NPP	23.41583	77.34731	13:58:00	D	5.21
6	BHOPAL	HUZUR	AQUA	23.38355	77.44571	15:04:00	D	15.40
7	DAMOH	PATHARIA	TERRA	23.84186	79.21034	09:27:00	D	6.64
8	DAMOH	TENDUKHERA	S-NPP	23.44744	79.51041	13:58:00	D	14.32
9	DAMOH	TENDUKHERA	S-NPP	23.44789	79.50803	13:58:00	D	6.85
10	DATIA	DATIA	S-NPP	25.70081	78.50689	14:00:00	D	3.54
11	DATIA	DATIA	S-NPP	25.70142	78.50946	14:00:00	D	3.37
12	DATIA	DATIA	S-NPP	25.74803	78.49585	14:00:00	D	5.19
13	DATIA	SEONDHA	S-NPP	25.92069	78.53588	14:00:00	D	3.75
14	DATIA	SEONDHA	S-NPP	25.92116	78.53282	14:00:00	D	4.93
15	DEWAS	KHATEGOAN	AQUA	22.49583	76.88131	15:04:00	D	7.06
16	DHAR	MANAWAR	S-NPP	22.26496	75.13333	02:46:00	N	2.14
17	EAST NIMAR	KHANDWA	S-NPP	21.63680	76.44364	13:58:00	D	3.09
18	GUNA	GUNA	S-NPP	24.68665	77.09742	14:00:00	D	3.40
19	GUNA	GUNA	S-NPP	24.68739	77.14243	14:00:00	D	3.59
20	GUNA	GUNA	S-NPP	24.68855	77.09902	14:00:00	D	1.97
21	GUNA	GUNA	S-NPP	24.77763	76.93256	14:00:00	D	5.05
22	GUNA	GUNA	S-NPP	24.95947	77.02489	14:00:00	D	1.84
23	INDORE	SANWER	S-NPP	22.99758	75.71580	13:58:00	D	6.57
24	JABALPUR	PATAN	AQUA	23.21885	79.67072	15:04:00	D	10.09
25	NARSHIMAPURA	GOTECAON	S-NPP	22.86409	79.53696	13:58:00	D	3.89
26	NIMACH	NIMACH	S-NPP	24.50900	74.92875	14:00:00	D	6.42
27	SAGAR	GARHAKOTA	TERRA	23.66967	79.19773	09:27:00	D	6.12
28	SAGAR	REHLI	S-NPP	23.69793	79.09026	13:58:00	D	3.41
29	SAGAR	REHLI	AQUA	23.57353	79.08361	15:04:00	D	8.50
30	SAGAR	SAGAR	S-NPP	23.91073	78.90473	14:00:00	D	2.42
31	SATNA	NAGOD	S-NPP	24.50664	80.44358	14:00:00	D	2.11
32	SATNA	NAGOD	S-NPP	24.50854	80.44581	14:00:00	D	3.63
33	SEHORE	BUDHNI	S-NPP	22.71061	77.43389	13:58:00	D	1.56

34	SEHORE	NASRULLAHGANJ	S-NPP	22.62999	77.36078	13:58:00	D	2.80
35	SEHORE	NASRULLAHGANJ	S-NPP	22.66361	77.27865	13:58:00	D	3.42
36	SEHORE	NASRULLAHGANJ	S-NPP	22.72943	77.21903	13:58:00	D	2.21
37	SEHORE	NASRULLAHGANJ	S-NPP	22.78342	77.24743	13:58:00	D	4.24
38	SEHORE	NASRULLAHGANJ	S-NPP	22.78417	77.24595	13:58:00	D	3.91
39	SEHORE	NASRULLAHGANJ	S-NPP	22.80735	77.36850	13:58:00	D	2.19
40	SHIVPURI	KOLARAS	AQUA	24.90343	77.67695	15:04:00	D	7.85
41	SINGRAULI	SINGRAULI	S-NPP	24.18542	82.65954	01:04:00	N	1.04
42	VIDESHA	KORWAI	S-NPP	24.01760	78.21333	14:00:00	D	6.50
43	VIDESHA	LETERI	S-NPP	24.13442	77.48586	14:00:00	D	2.20

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)**
