

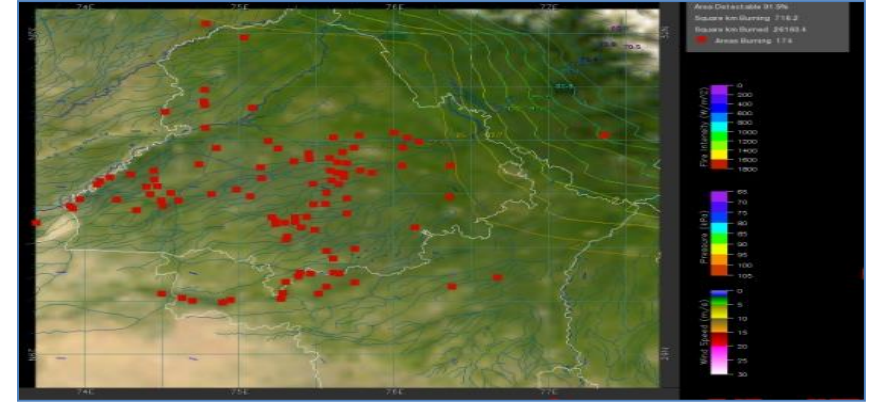
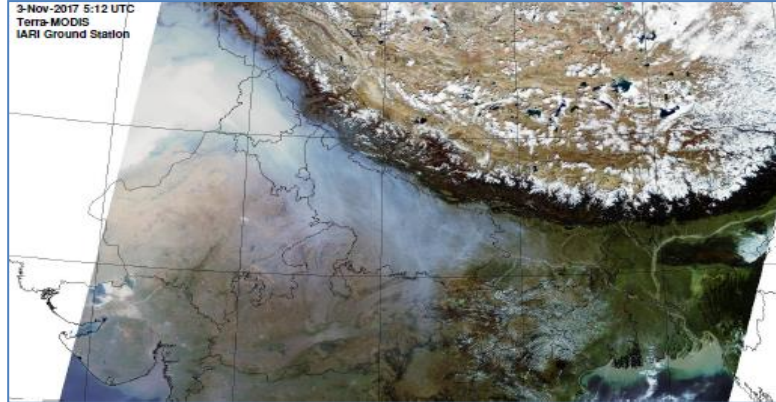


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2025

Bulletin
No. 28

Events Date:
12-Oct-2025

Issued on:
12-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

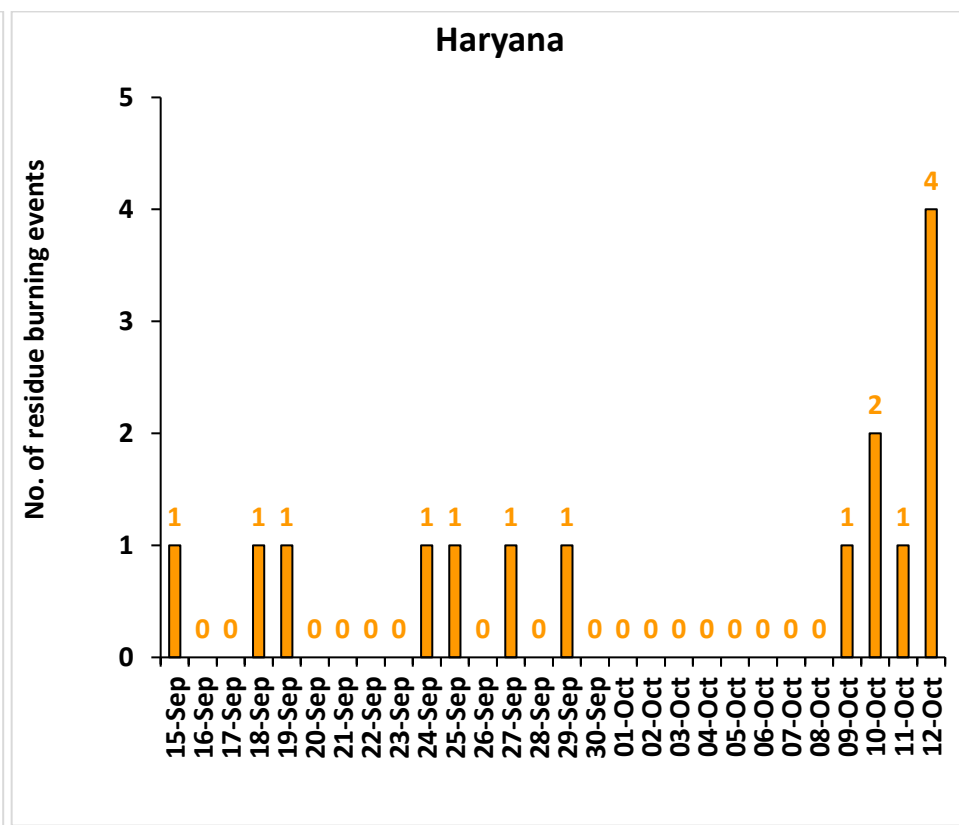
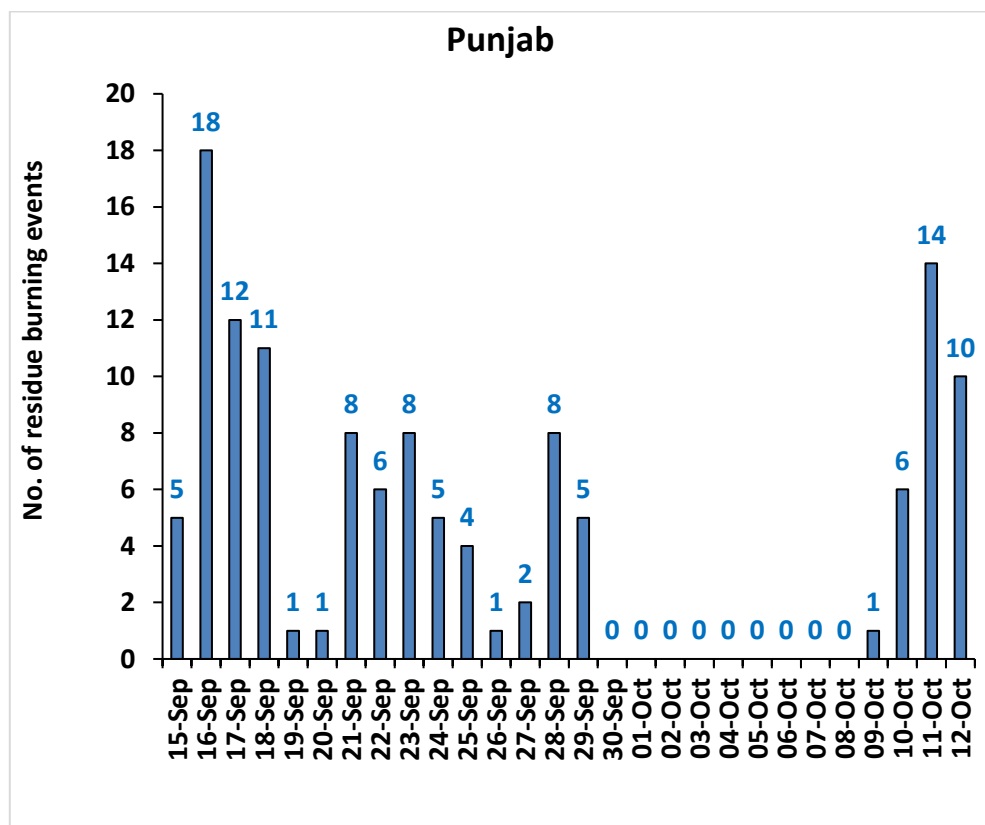
<https://creams.iari.res.in>



Highlights for 12-Oct-2025

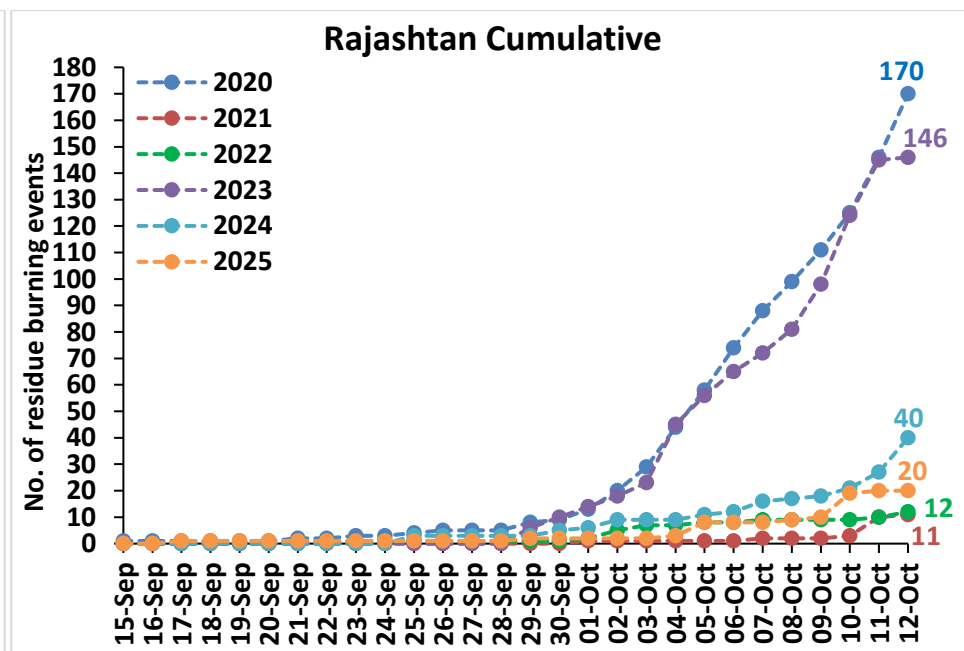
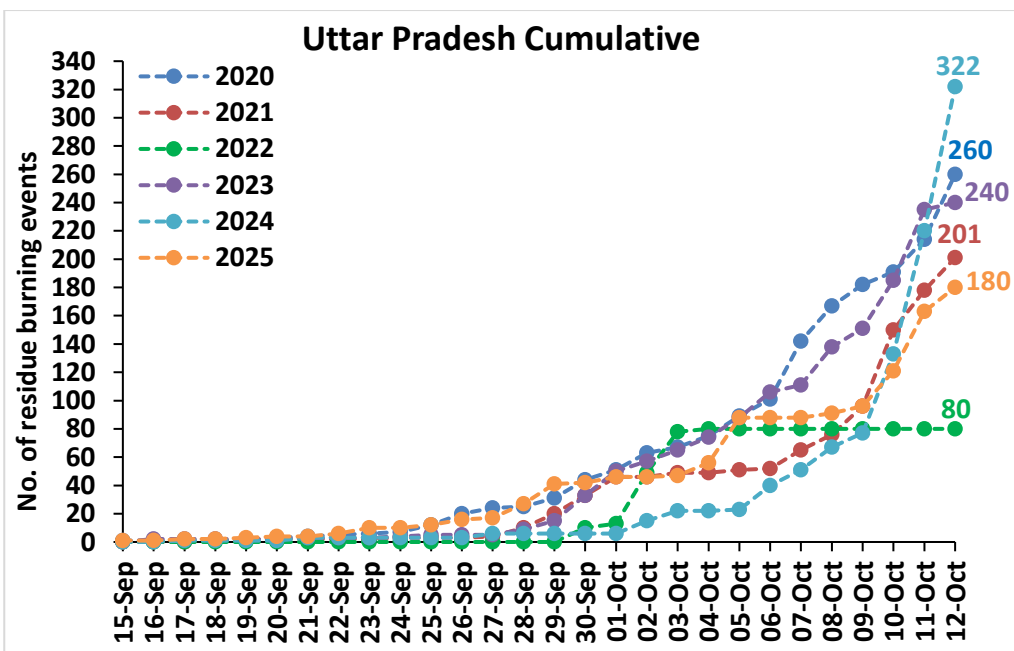
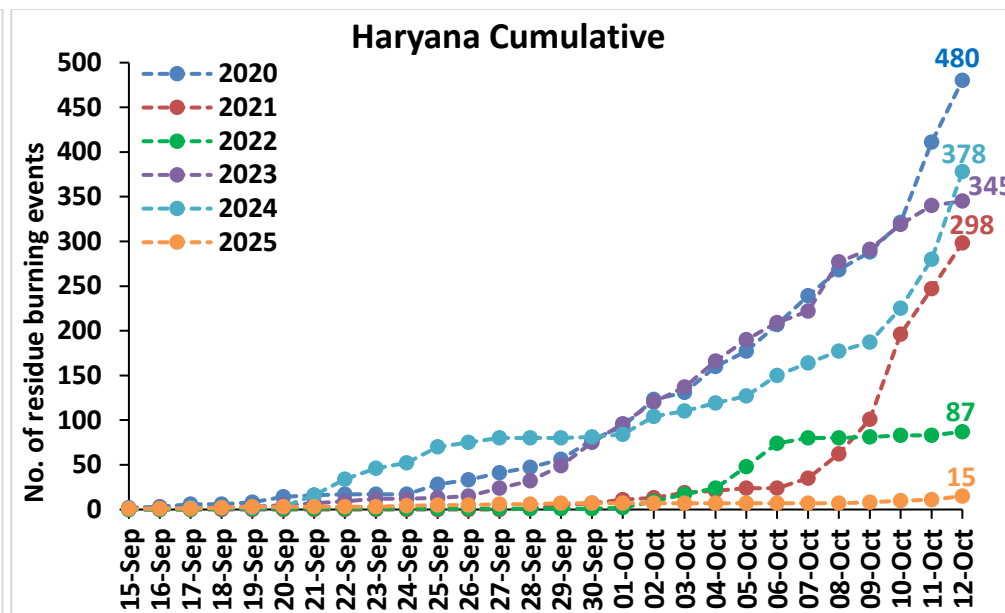
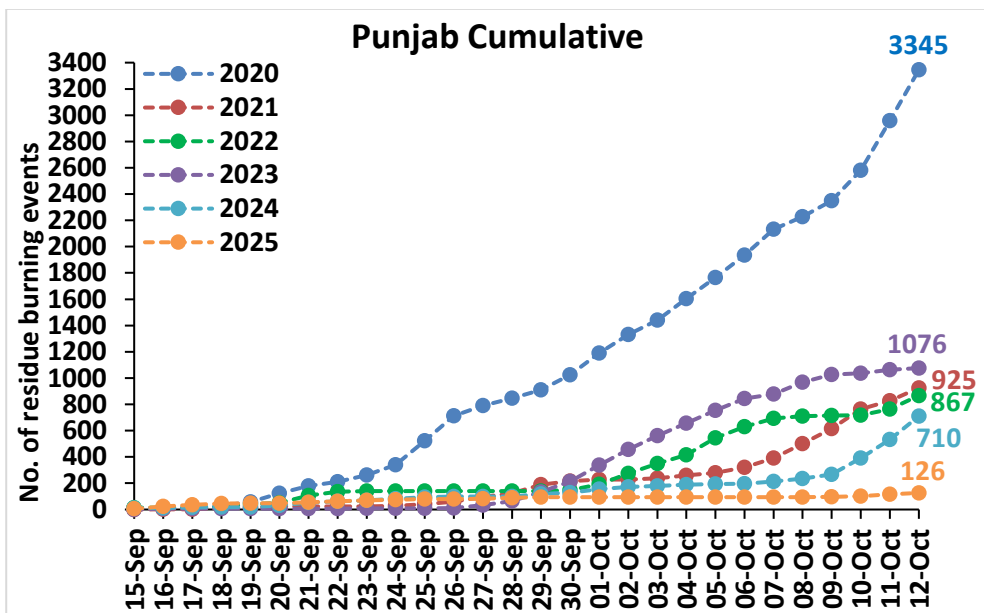
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **37** residue burning events in the six study States on **12-Oct-2025**.
- The state wise events detected on **12-Oct-2025** were **10** in Punjab, **04** in Haryana, **17** in UP, **00** in Delhi, **00** in Rajasthan and **06** in MP.
- Total **403** burning events were detected in the six states between **15-Sept-2025** and **12-Oct-2025**, which are distributed as **126, 15, 180, 01, 20** and **61** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

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

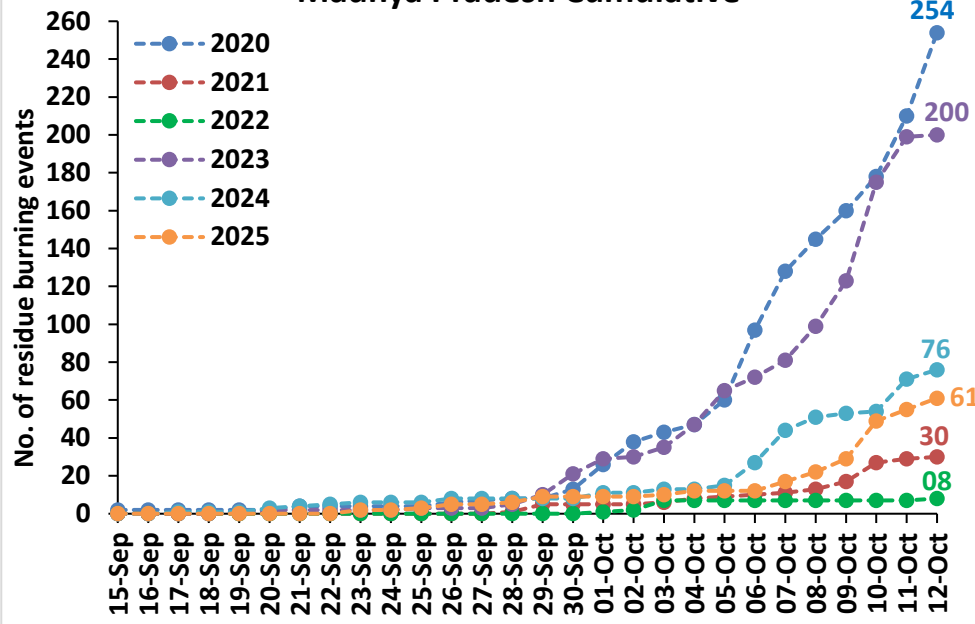


Comparison of residue burning fire power in current year (2025) with previous years (2020,2021,2022, 2023 and 2024) for the study

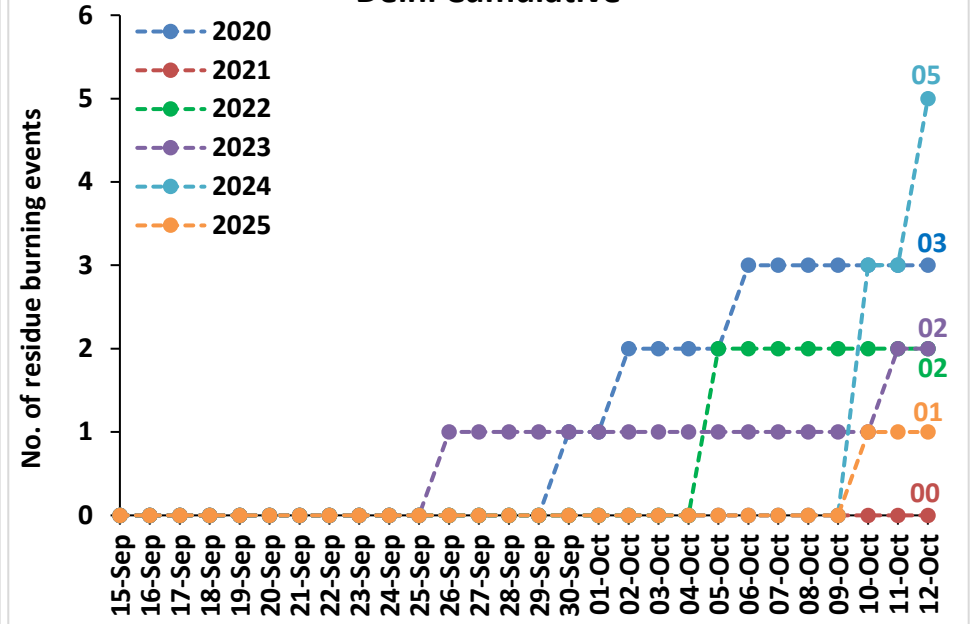
States



Madhya Pradesh Cumulative

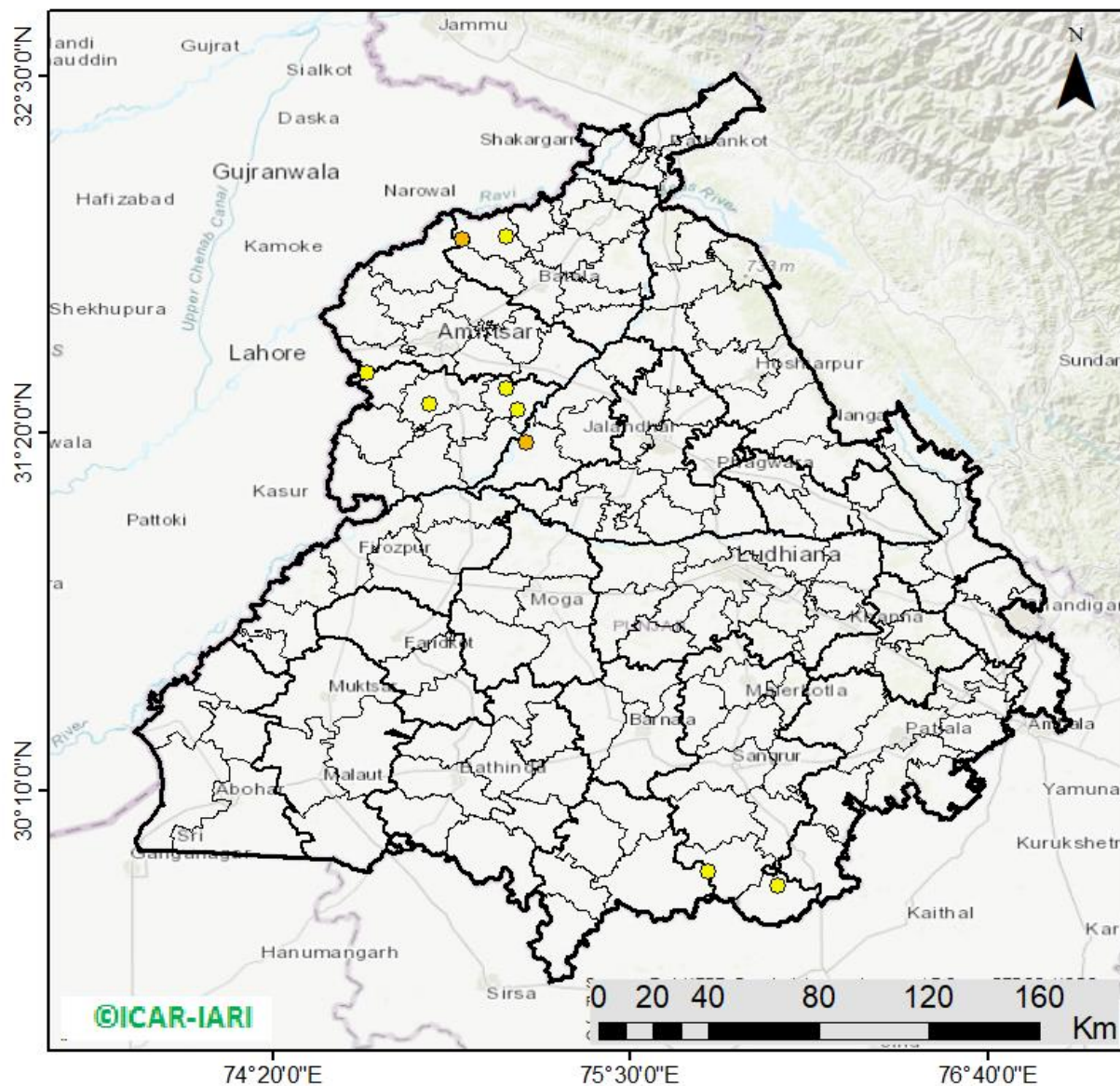


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



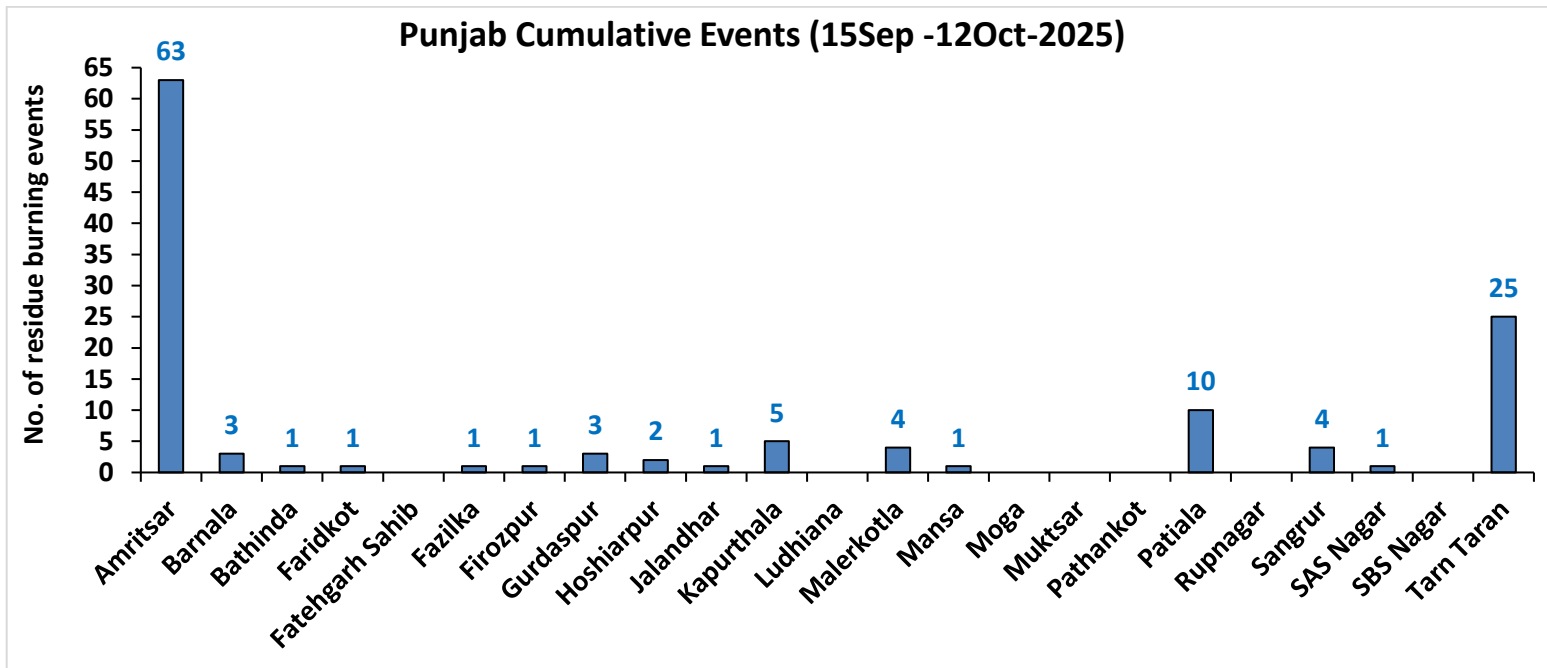
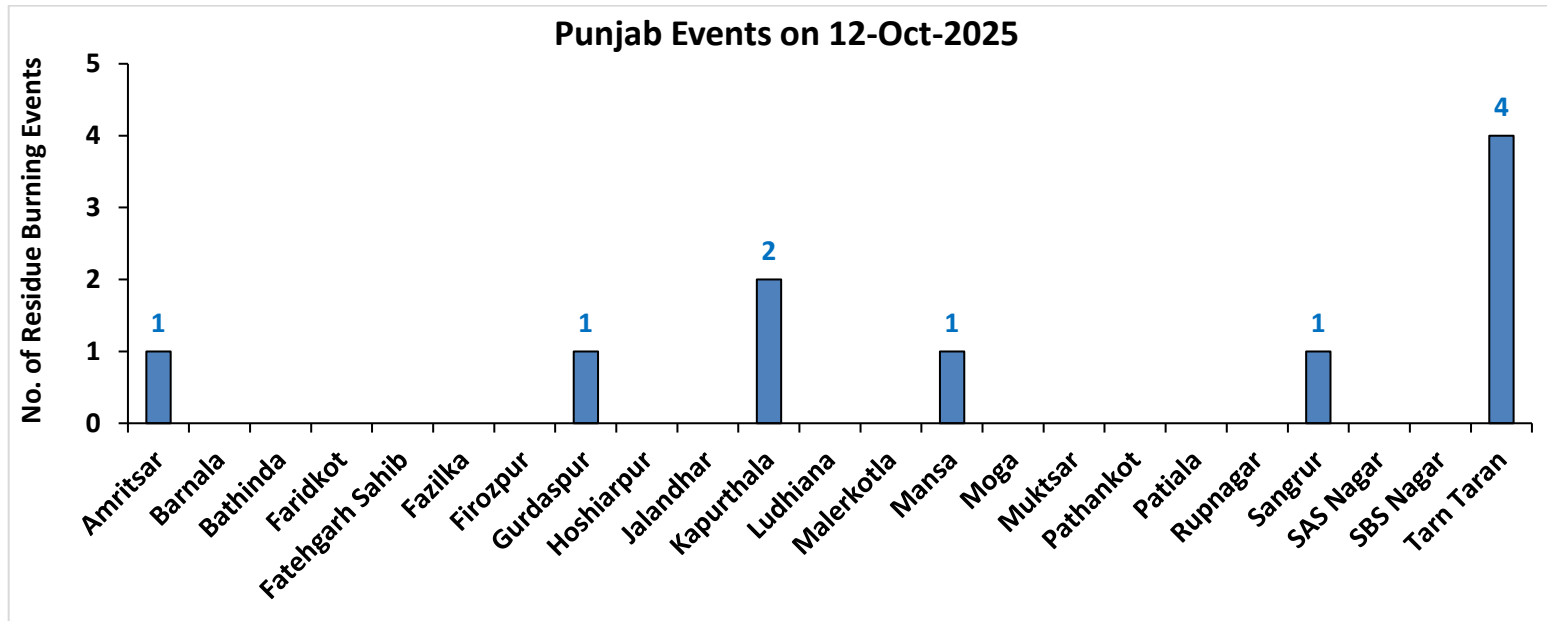
10 burning events detected in Punjab during (12th Oct 2025)

Fire Intensity (W/m²)

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

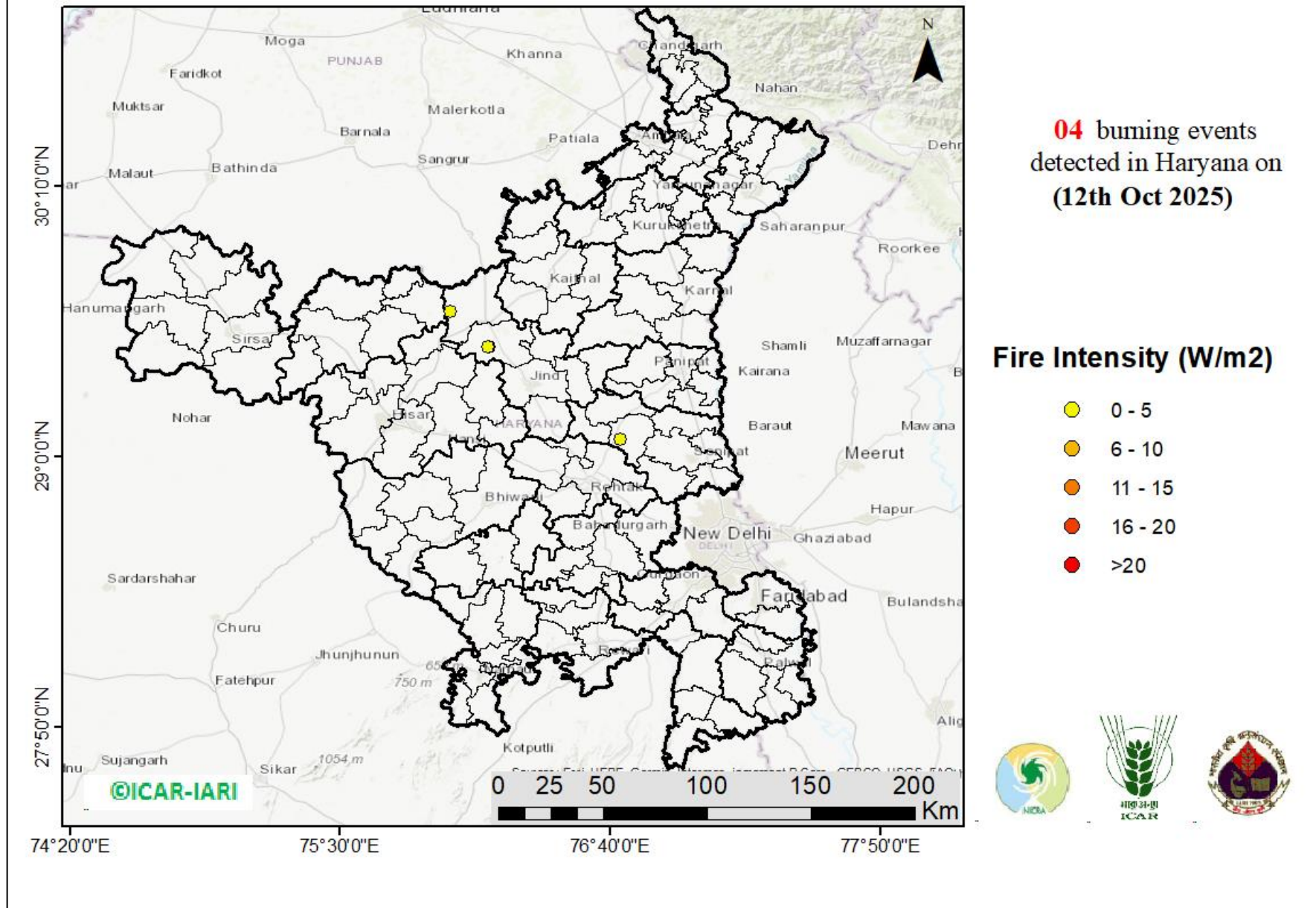


District-wise cumulative number of residues burning events in Punjab (15Sep-12Oct-2025)

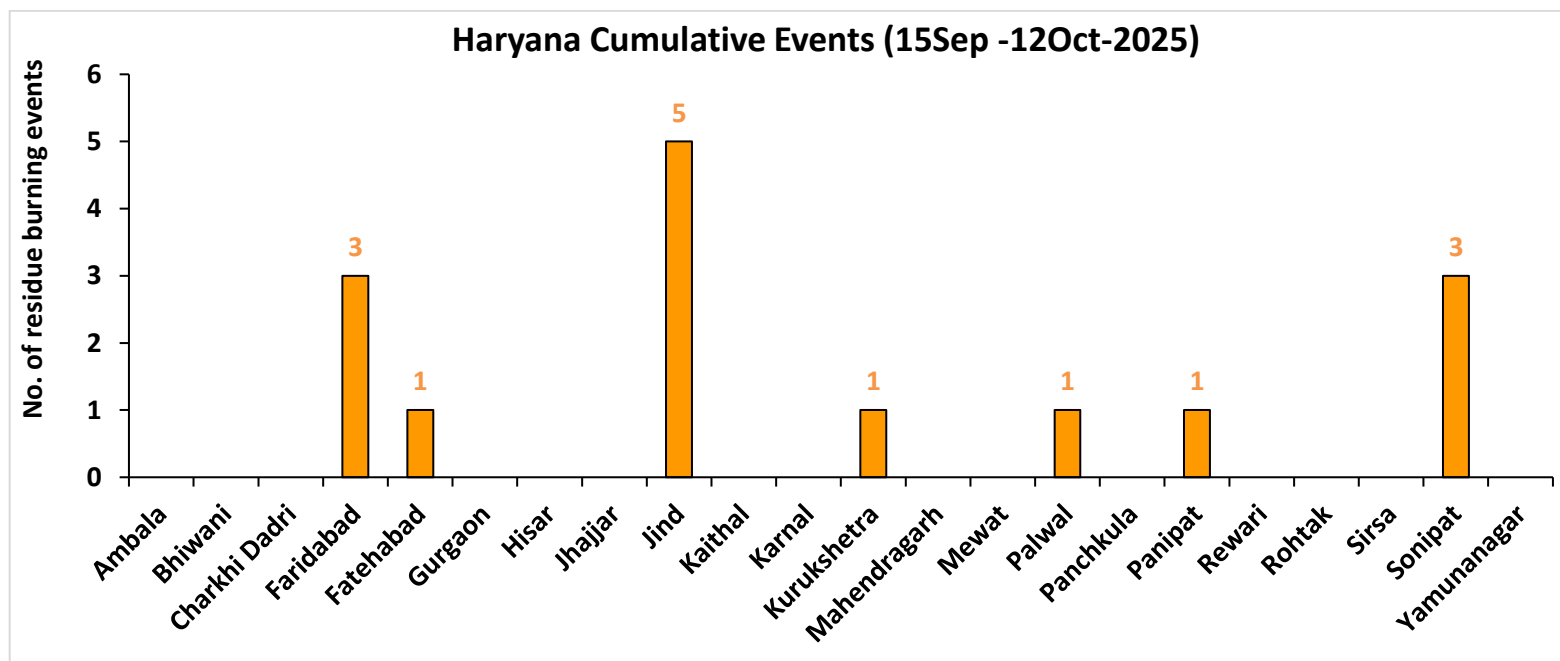
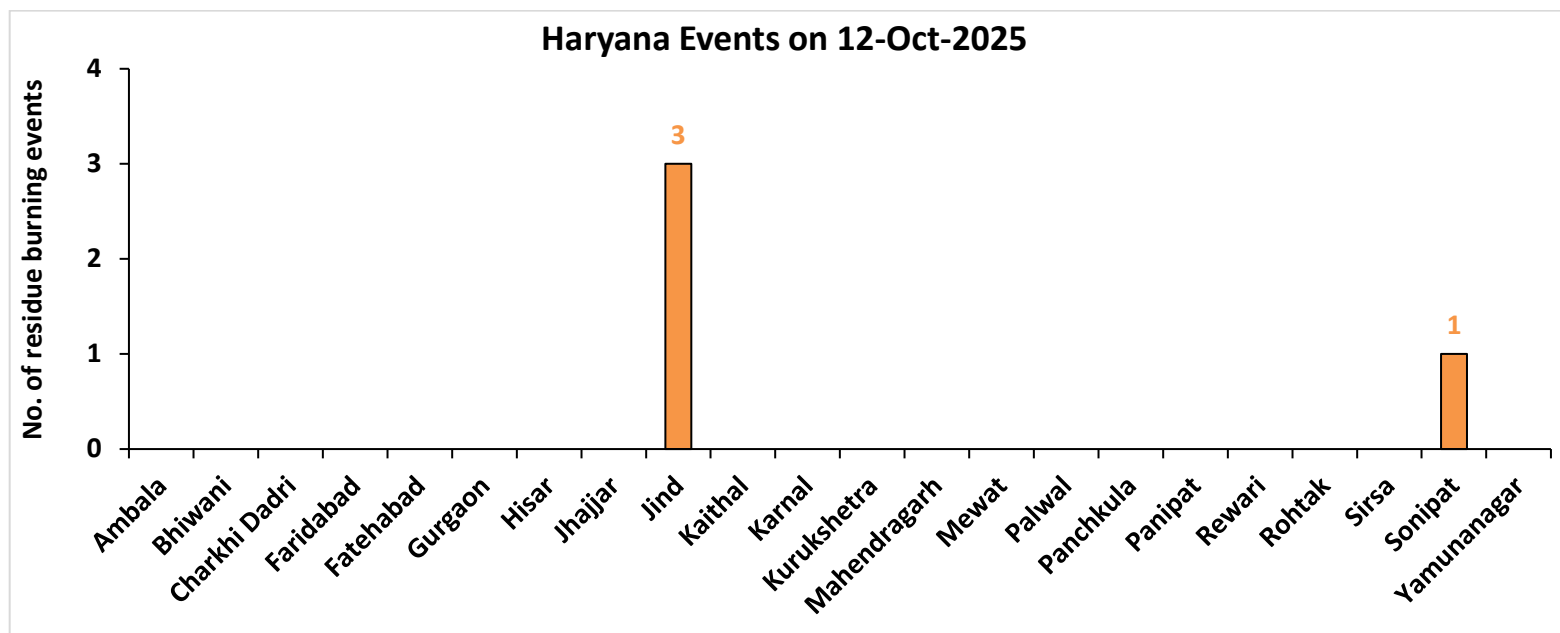


Haryana

RICE RESIDUE BURNING IN HARYANA

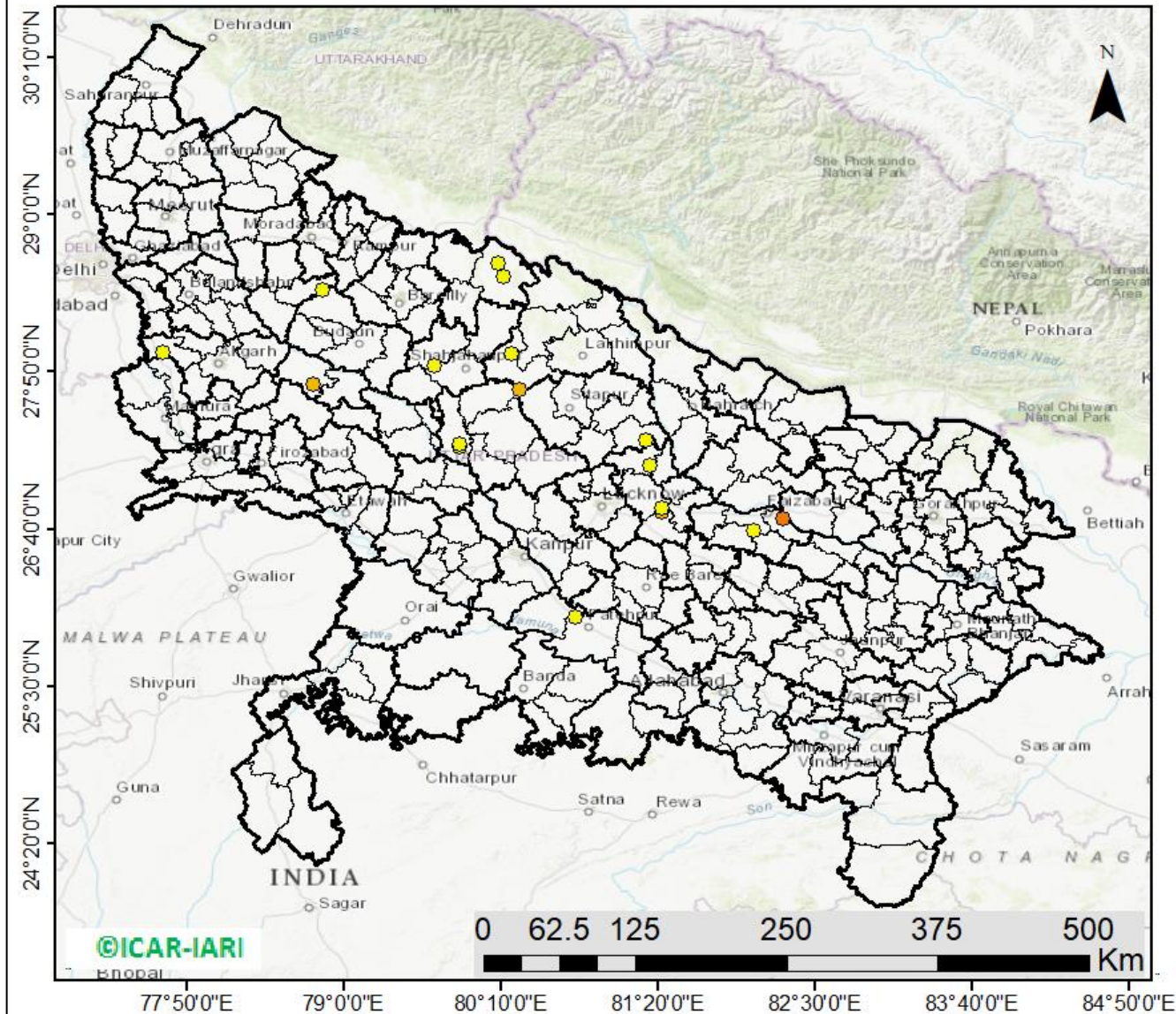


District-wise cumulative number of residues burning events in Haryana (15Sep-12Oct-2025)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



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

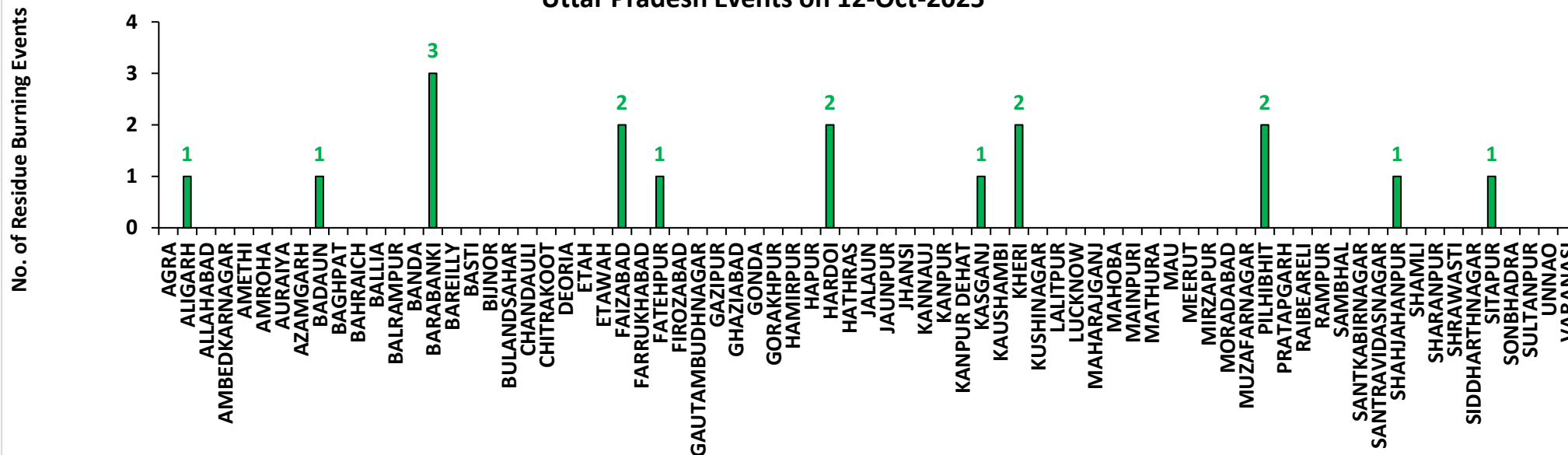
Fire Intensity (W/m²)

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

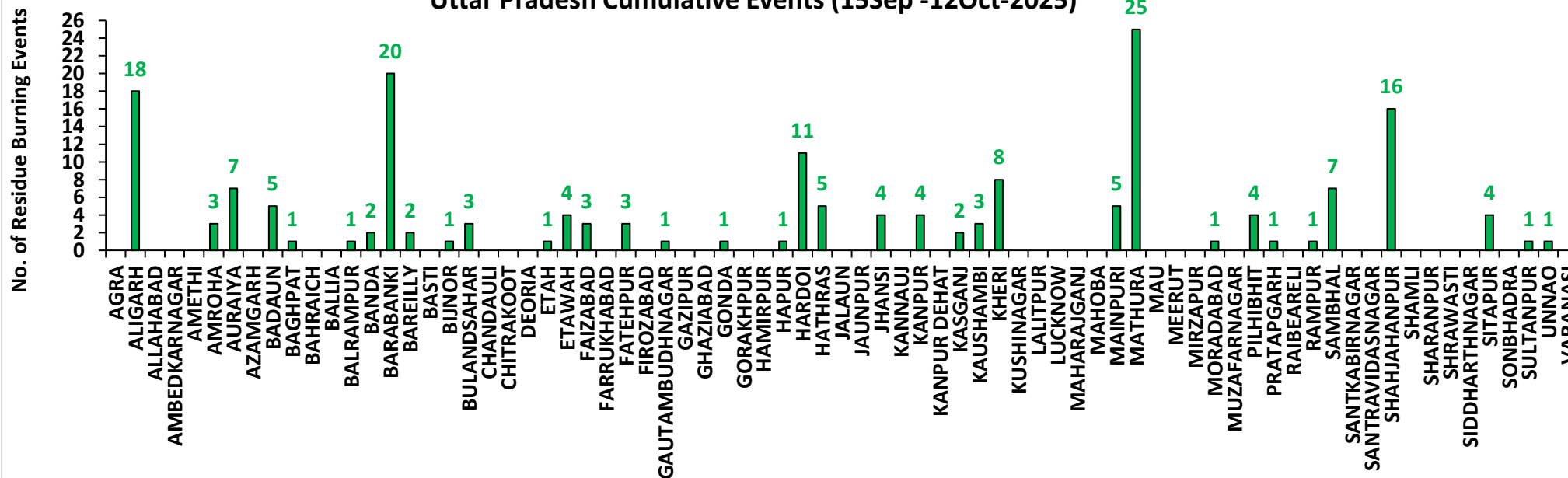


District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-12Oct-2025)

Uttar Pradesh Events on 12-Oct-2025

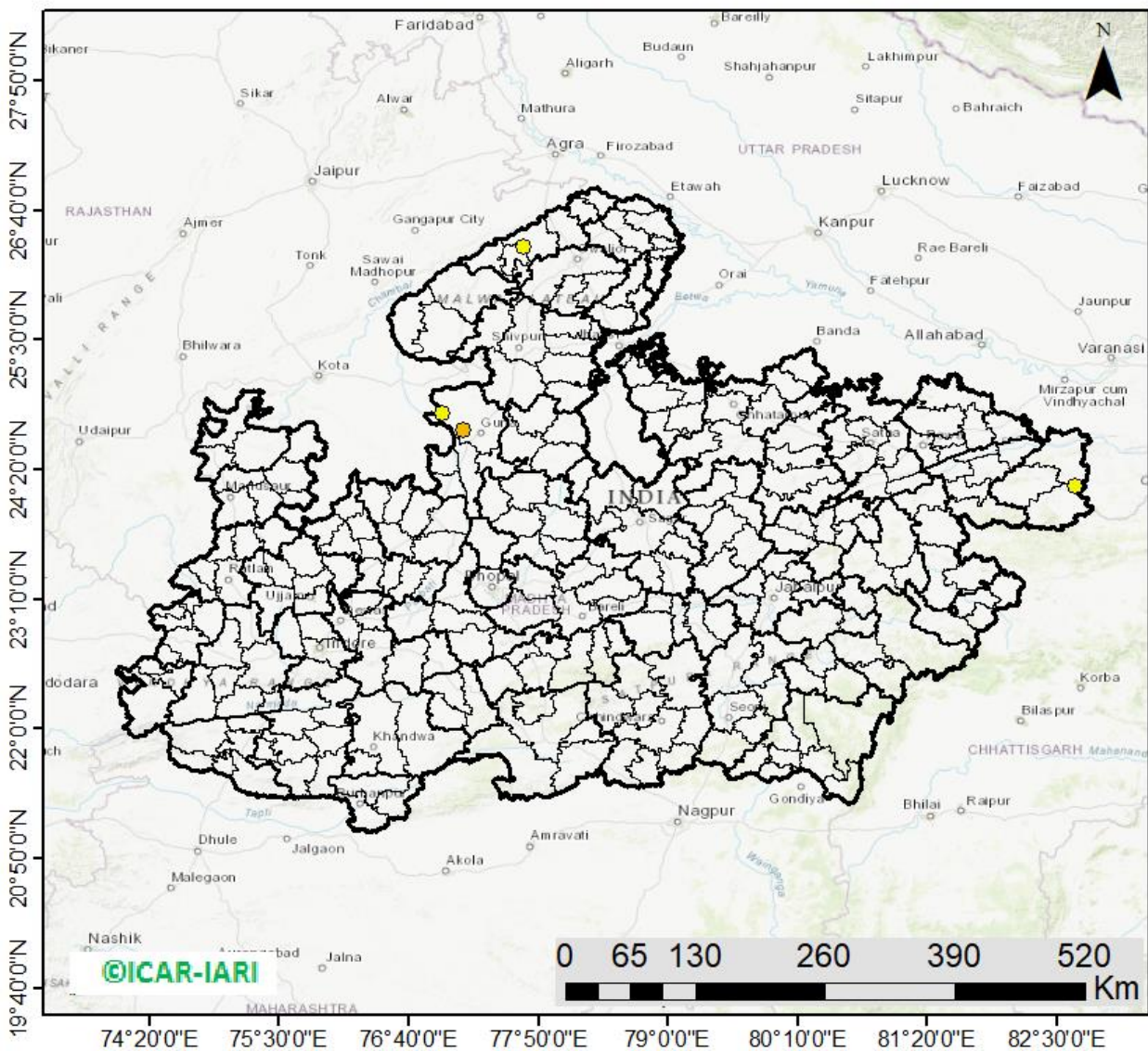


Uttar Pradesh Cumulative Events (15Sep -12Oct-2025)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



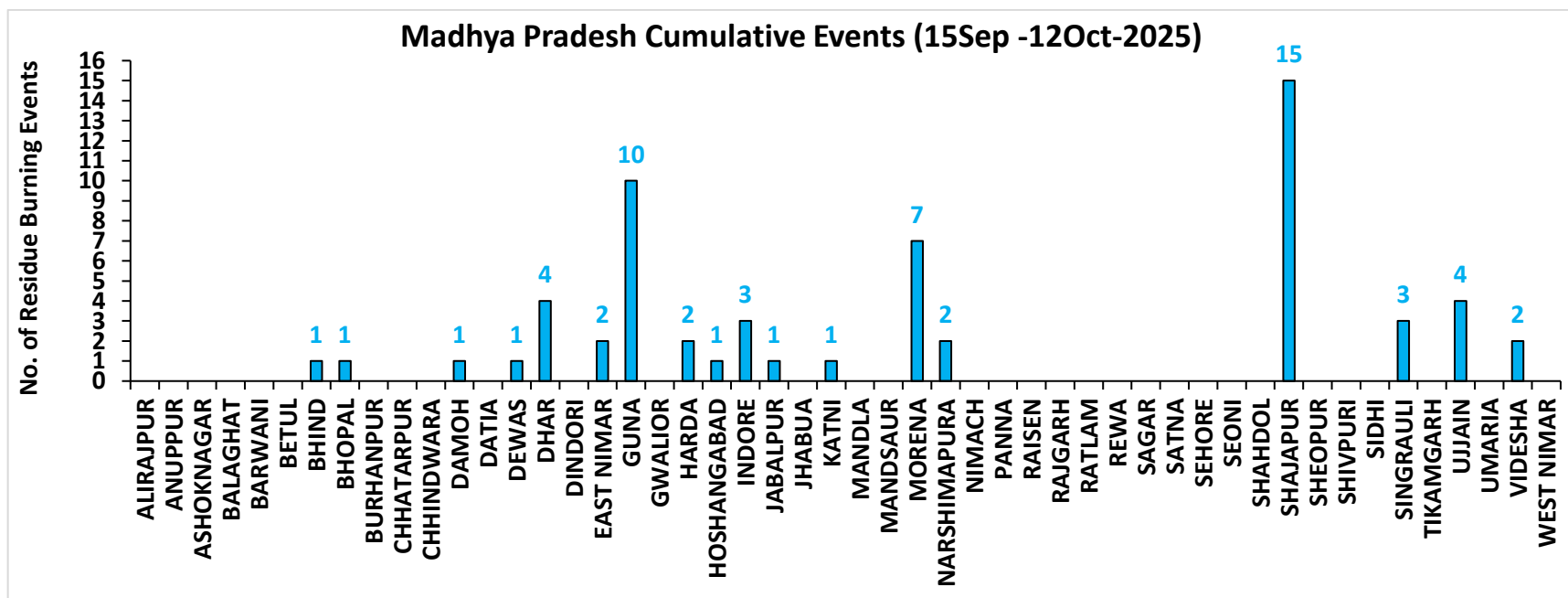
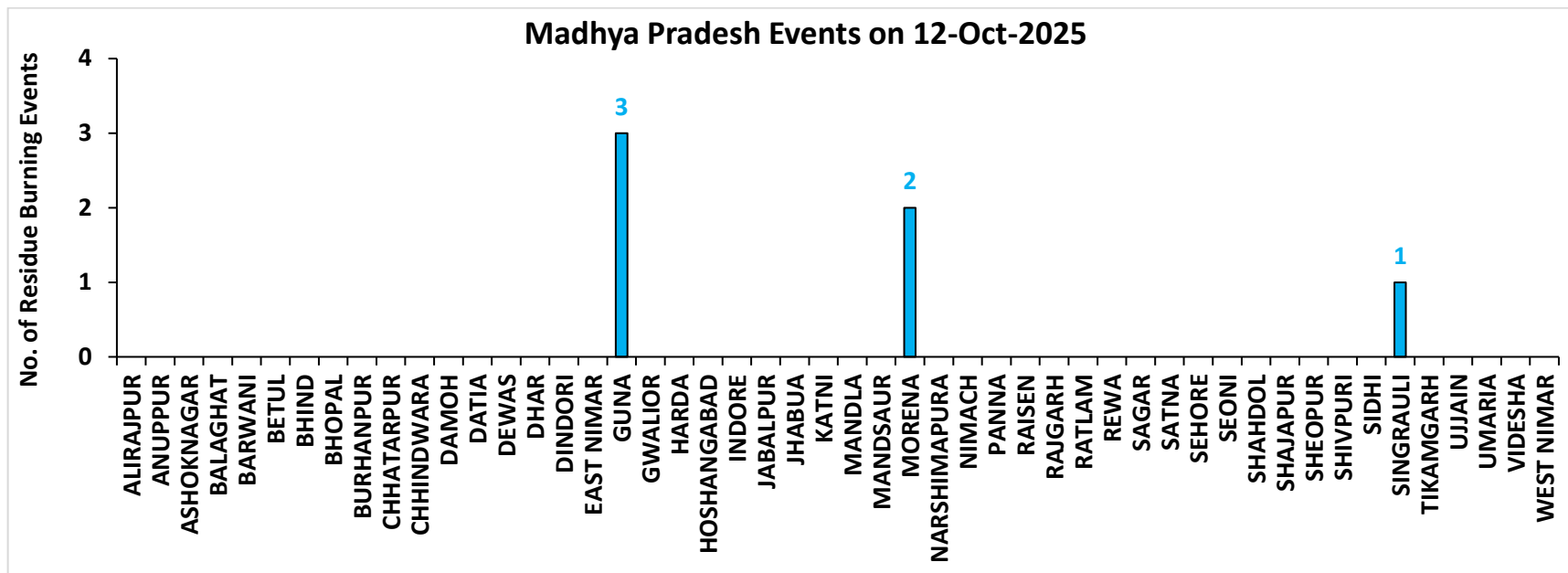
06 burning events
detected in MP on
(12th Oct 2025)

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-12Oct-2025)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023, 2024 and 2025
(Period: 15 September -12 October)

(a) Punjab

District	15 Sep- 12 Oct					
	2020	2021	2022	2023	2024	2025
Amritsar	1485	355	487	575	273	63
Barnala	9	6	6	6	2	3
Bathinda	15	0	0	0	2	1
Faridkot	44	22	6	8	2	1
Fatehgarh Sahib	51	31	4	12	10	0
Fazilka	10	7	1	4	3	1
Firozpur	132	27	27	31	35	1
Gurdaspur	173	33	28	10	22	3
Hoshiarpur	8	1	0	2	0	2
Jalandhar	46	24	20	16	11	1
Kapurthala	74	27	34	62	43	5
Ludhiana	93	69	12	10	12	0
Malerkotla	0	0	0	3	11	4
Mansa	16	1	1	8	12	1
Moga	25	8	12	2	4	0
Muktsar	6	2	1	0	1	0
Pathankot	0	0	0	0	0	0
Patiala	256	81	26	83	57	10
Rupnagar	10	4	0	1	2	0
Sangrur	85	13	12	40	54	4
SAS NAGAR (Mohali)	19	13	4	40	19	1
SBS Nagar	9	2	2	2	3	0
Tarn Taran	779	199	184	161	132	25
Total	3345	925	867	1076	710	126

(b) Haryana

District	15 Sep- 12 Oct					
	2020	2021	2022	2023	2024	2025
AMBALA	65	14	10	59	38	0
BHIWANI	0	0	0	1	0	0
CHARKHI DADRI	0	0	0	0	0	0
FARIDABAD	0	1	0	2	17	3
FATEHABAD	31	11	3	47	22	1
GURGAON	0	0	0	0	0	0
HISAR	6	0	1	15	8	0
JHAJJAR	1	0	0	2	0	0
JIND	14	9	8	37	34	5
KAITHAL	80	61	9	25	58	0
KARNAL	131	113	20	21	47	0
KURUKSHETRA	94	63	29	49	57	1
MAHENDRAGARH	0	0	0	0	0	0
MEWAT	0	0	0	0	0	0
PALWAL	5	7	0	10	19	1
PANCHKULA	0	0	0	0	5	0
PANIPAT	7	3	1	12	14	1
REWARI	0	0	0	0	0	0
ROHTAK	0	0	0	1	6	0
SIRSA	5	0	1	1	7	0
SONIPAT	8	1	2	34	28	3
YAMUNANAGAR	33	15	3	29	18	0
Total	480	298	87	345	378	15

(c) Uttar Pradesh

District	15 Sep- 12 Oct																			
	2020	2021	2022	2023	2024	2025	GAUTAMBU DHNAGAR	1	5	0	4	14	1	MUZAFARNAGAR	2	0	0	0	1	0
AGRA	1	0	0	0	0	0	GAZIPUR	0	0	0	0	0	0	PILHIBHIT	4	8	2	25	4	4
ALIGARH	20	4	1	48	80	18	GHAZIABAD	1	2	1	6	6	0	PRATAPGARH	0	0	0	0	0	1
ALLAHABAD	0	0	0	0	0	0	GONDA	0	0	0	0	0	1	RAIBEARELI	1	0	0	0	0	0
AMBEDKARNA GAR	0	0	0	0	0	0	GORAKHPU R	0	0	0	0	0	0	RAMPUR	13	16	0	11	6	1
AMETHI	0	1	0	1	0	0	HAMIRPUR	0	0	0	0	0	0	SAMBHAL	6	2	4	8	45	7
AMROHA	1	0	0	2	2	3	HAPUR	3	0	0	0	4	1	SANTKABIRNAGAR	0	0	0	0	0	0
AURAIYA	14	1	4	3	1	7	HARDOI	2	5	0	4	6	11	SANTRAVIDASNAG AR	0	0	0	0	0	0
AZAMGARH	0	0	0	0	0	0	HATHRAS	0	0	0	2	8	5	SHAHJAHANPUR	20	94	53	20	16	16
BADAUN	0	0	0	1	7	5	JALAUN	0	0	0	0	0	0	SHAMLI	18	8	2	2	3	0
BAGHPAT	1	0	0	1	2	1	JAUNPUR	0	0	0	0	0	0	SHARANPUR	18	1	0	0	3	0
BAHRAICH	2	2	0	0	0	0	JHANSI	6	0	0	2	0	4	SHRAWASTI	0	0	0	0	0	0
BALLIA	0	0	0	0	1	0	KANNAUJ	2	0	0	0	1	0	SIDDHARTHANAGAR	0	0	0	0	0	0
BALRAMPUR	0	0	0	0	0	1	KANPUR	0	1	0	2	0	4	SITAPUR	8	1	0	1	12	4
BANDA	0	0	0	0	0	2	KANPUR DEHAT	2	0	0	1	0	0	SONBHADRA	0	0	0	0	0	0
BARABANKI	10	0	0	13	12	20	KASGANJ	1	0	0	1	1	2	SULTANPUR	0	0	0	0	0	1
BAREILLY	8	4	0	7	1	2	KAUSHAMBI	7	1	0	4	1	3	UNNAO	2	0	0	2	1	1
BASTI	2	0	0	0	0	0	KHERI	23	20	8	3	4	8	VARANASI	0	0	0	0	0	0
BIJNOR	3	1	1	5	1	1	KUSHINAGA R	0	0	0	0	0	0	Total	260	201	80	240	322	180
BULANDSAHAR	6	1	2	4	22	3	LALITPUR	0	1	2	0	0	0							
CHANDAULI	0	0	0	0	0	0	LUCKNOW	2	0	0	1	0	0							
CHITRAKOOT	0	0	0	0	0	0	MAHARAJG ANJ	0	0	0	0	0	0							
DEORIA	0	0	0	2	0	0	MAHOBA	1	0	0	0	0	0							
ETAH	4	4	0	8	3	1	MAINPURI	3	2	0	4	6	5							
ETAWAH	2	3	0	8	0	4	MATHURA	6	7	0	27	35	25							
FAIZABAD	0	0	0	0	4	3	MAU	0	0	0	0	0	0							
FARRUKHABAD	0	0	0	0	0	0	MEERUT	9	0	0	2	2	0							
FATEHPUR	14	0	0	2	0	3	MIRZAPUR	5	5	0	0	0	0							
FIROZABAD	4	0	0	1	0	0	MORADABA D	2	1	0	2	7	1							

(d) Delhi

District	15 Sep- 12 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	2	2	5	1
NORTH EAST	0	0	0	0	0	0
NORTH WEST DELHI	0	0	0	0	0	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	3	0	2	2	5	1

(e) Rajasthan

District	15 Sep- 12 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	76	0	3	60	2	4
BARMER	2	0	0	0	0	0
BHARATPUR	0	0	0	2	3	1
BHILWARA	2	0	0	0	0	0
BIKANER	0	0	0	0	0	0
BUNDI	3	0	3	7	1	1
CHITTAURGARH	0	1	1	4	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	2	0	1	7	4	0
HANUMANGARH	53	10	3	23	28	4
JAIPUR	0	0	0	0	0	0
JAISELMER	2	0	0	0	0	0
JALOR	0	0	0	0	0	0
JHALAWAR	0	0	0	4	0	0
JHUNJHUNUN	1	0	0	0	0	0
JODHPUR	1	0	0	0	0	0
KARALI	1	0	0	0	0	0
KOTA	21	0	1	36	0	0
NAGPUR	0	0	0	0	0	0
PALI	1	0	0	0	0	4
PRATAPGARH	0	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	0
SWAIMADHOPUR	2	0	0	3	1	1
TONK	1	0	0	0	0	0
UDAIPUR	0	0	0	0	0	1
Total	170	11	12	146	40	20

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

(Period: 15 September -12 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
Total	3345	925	867	1076	710	126	480	298	87	345	378	15	260	201	80	240	322	180

Number of Paddy Residue Burning Events Detected

Delhi							Rajasthan						Madhya Pradesh					
Date	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
Total	3	0	2	2	5	1	170	11	12	146	40	20	254	30	8	200	76	61

Details of residue burning events in Punjab on 12-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	S-NPP	31.96921	74.95362	14:28:16	D	7.20
2	GURDASPUR	DERA BABA NANAK	S-NPP	31.97556	75.09534	12:48:42	D	2.50
3	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.30237	75.15943	14:28:16	D	6.40
4	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.30470	75.16068	14:28:16	D	7.30
5	MANSA	BUDHLADA	S-NPP	29.90346	75.75323	12:48:42	D	3.10
6	SANGRUR	ANDANA	S-NPP	29.85427	75.98373	12:48:42	D	2.80
7	TARN TARAN	GANDIWIND TATLA	S-NPP	31.53189	74.64190	12:48:42	D	4.00
8	TARN TARAN	KHADUR SAHIB	S-NPP	31.40951	75.13111	12:48:42	D	3.20
9	TARN TARAN	KHADUR SAHIB	S-NPP	31.48269	75.09728	14:28:16	D	4.60
10	TARN TARAN	TARN TARAN	S-NPP	31.43172	74.84457	12:48:42	D	3.80

Details of wheat residue burning events in Haryana on 12-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	JIND	NARWANA	S-NPP	29.62599	75.97236	12:48:42	D	2.80
2	JIND	UCHANA	S-NPP	29.47128	76.13966	14:28:16	D	4.70
3	JIND	UCHANA	S-NPP	29.47146	76.13919	14:28:16	D	2.70
4	SONIPAT	GOHANA	S-NPP	29.07027	76.70869	12:48:42	D	3.20

Details of residue burning events in Uttar Pradesh on 12-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	KHAIR	S-NPP	27.98096	77.65504	12:52:00	D	2.03
2	BADAUN	BISAU LI	S-NPP	28.44553	78.84099	12:52:00	D	3.28
3	BARABANKI	FATEHPUR	S-NPP	27.13774	81.27715	12:50:00	D	3.20
4	BARABANKI	H AIDARGARH	S-NPP	26.79610	81.36681	12:50:00	D	6.81
5	BARABANKI	H AIDARGARH	S-NPP	26.81874	81.36619	12:50:00	D	2.89
6	FAIZABAD	FAIZABAD	TERRA	26.74610	82.26112	09:44:00	D	11.83
7	FAIZABAD	MILKIPUR	S-NPP	26.65176	82.04922	12:50:00	D	2.97
8	FATEHPUR	BINKI	S-NPP	26.00940	80.71896	01:36:00	N	0.51
9	HARDOI	SIWAIJPUR	S-NPP	27.27318	79.86108	12:50:00	D	2.87
10	HARDOI	SIWAIJPUR	S-NPP	27.29646	79.86027	12:50:00	D	1.47
11	KASGANJ	KASGANJ	S-NPP	27.73511	78.77785	12:52:00	D	7.08
12	KHERI	MOHMADI	S-NPP	27.70364	80.30241	12:50:00	D	5.68
13	KHERI	MOHMADI	S-NPP	27.96988	80.24729	12:50:00	D	4.38
14	PILHIBHIT	PURANPUR	S-NPP	28.53583	80.18522	12:52:00	D	3.44
15	PILHIBHIT	PURANPUR	S-NPP	28.64342	80.14518	12:52:00	D	4.71
16	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.87672	79.67495	12:52:00	D	3.29
17	SITAPUR	MAHMUDABAD	S-NPP	27.32909	81.24815	12:50:00	D	3.66

Details of residue burning events in Madhya Pradesh on 12-Oct-2025

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	GUNA	GUNA	S-NPP	24.68284	77.15498	12:50:00	D	5.40
2	GUNA	GUNA	S-NPP	24.68393	77.15284	12:50:00	D	6.74
3	GUNA	GUNA	S-NPP	24.83452	76.96071	12:50:00	D	3.38
4	MORENA	KAILARAS	S-NPP	26.33617	77.69193	12:50:00	D	3.07
5	MORENA	KAILARAS	S-NPP	26.33678	77.69272	12:50:00	D	2.75
6	SINGRAULI	SINGRAULI	S-NPP	24.18224	82.66386	01:36:00	N	1.06

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)**
