

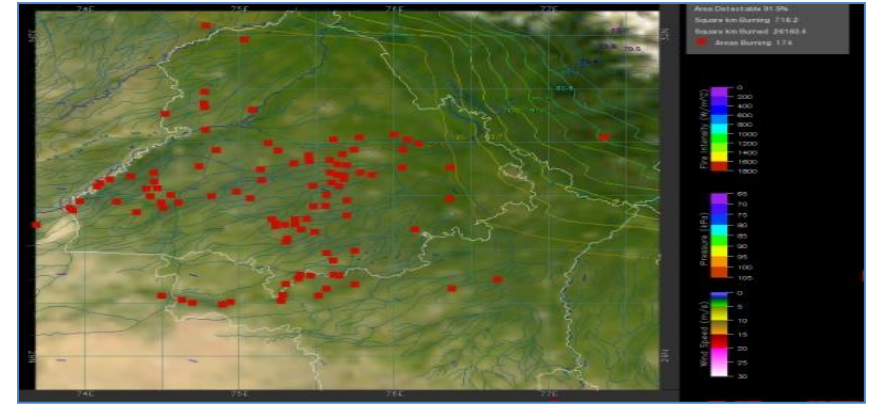
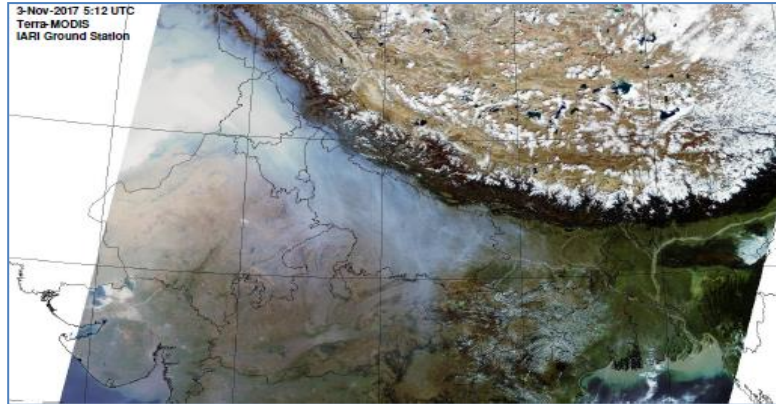


MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin
No. 22

Events Date:
06-Oct-2024

Issued on:
06-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

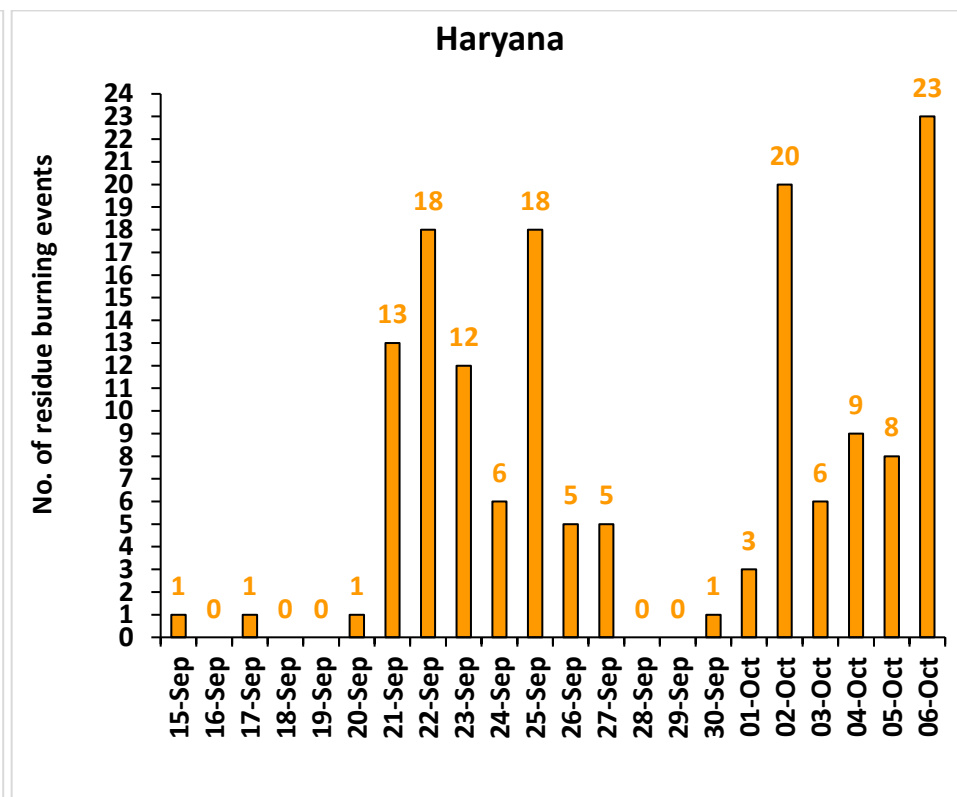
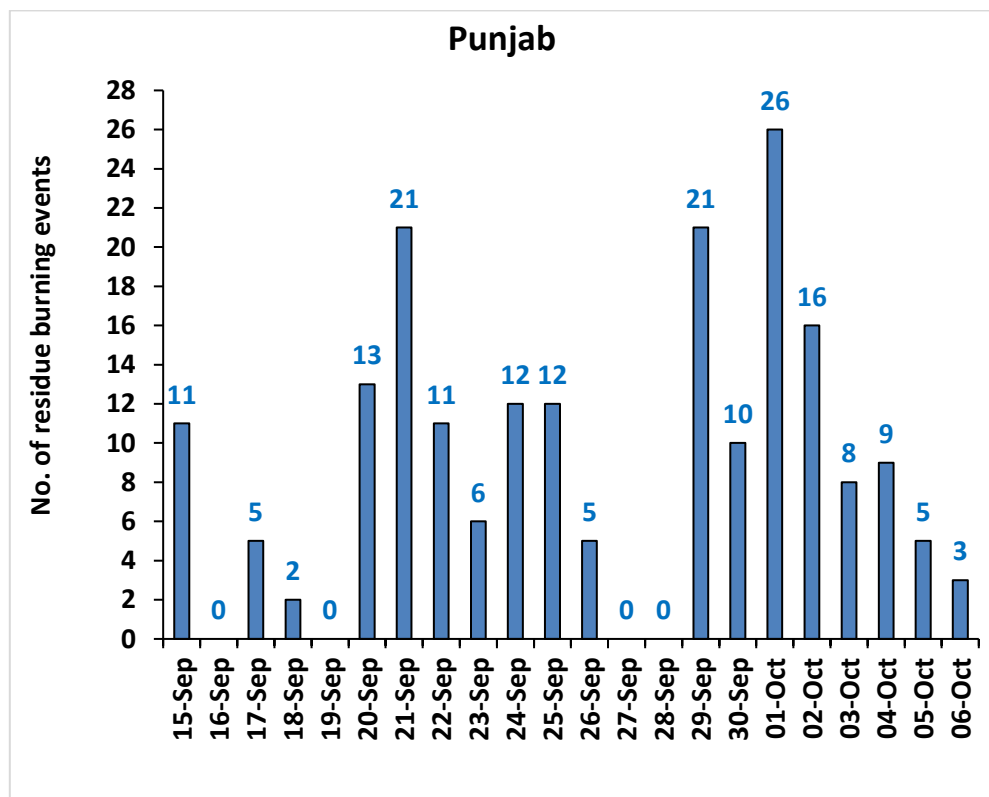
<https://creams.iari.res.in>



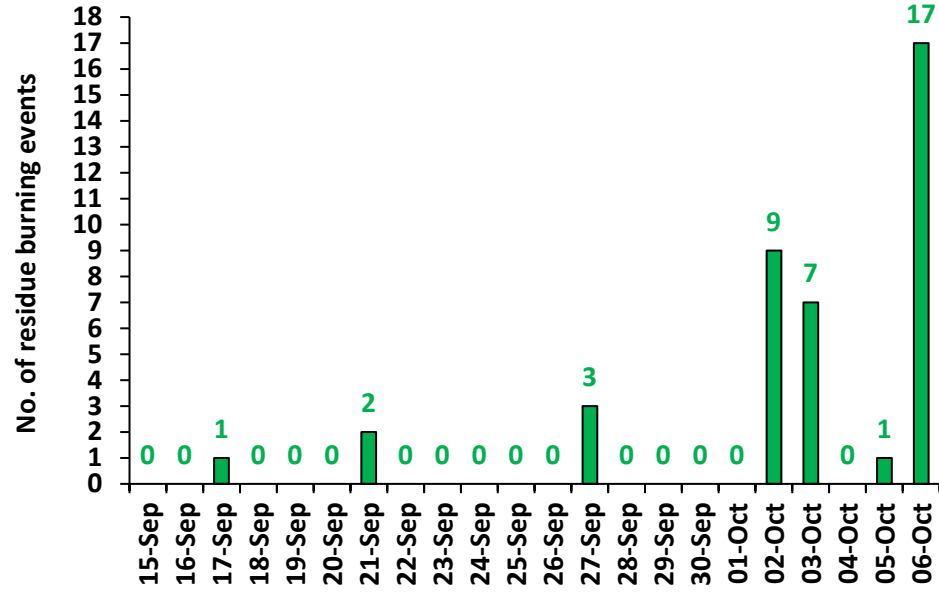
Highlights for 06-Oct-2024

- 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 **56** residue burning events in the six study States on **06-Oct-2024**.
- The state wise events detected on **06-Oct-2024** were **03** in Punjab, **23** in Haryana, **17** in UP, **00** in Delhi, **01** in Rajasthan and **12** in MP.
- Total **425** burning events were detected in the six states between **15-Sept-2024** and **06-Oct-2024**, which are distributed as **196**, **150**, **40**, **00**, **12** and **27** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

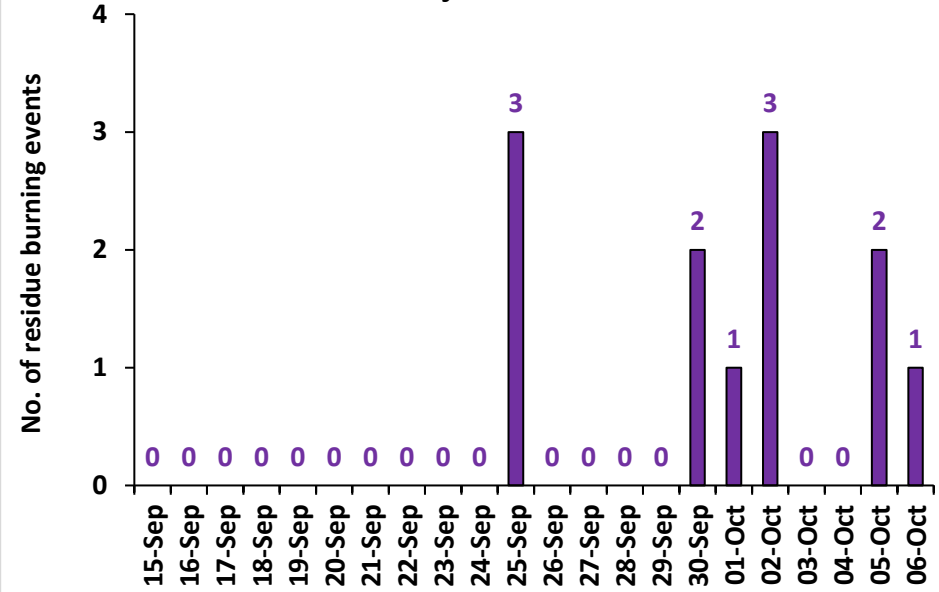
Temporal distribution of rice residue burning events for the study States in 2024



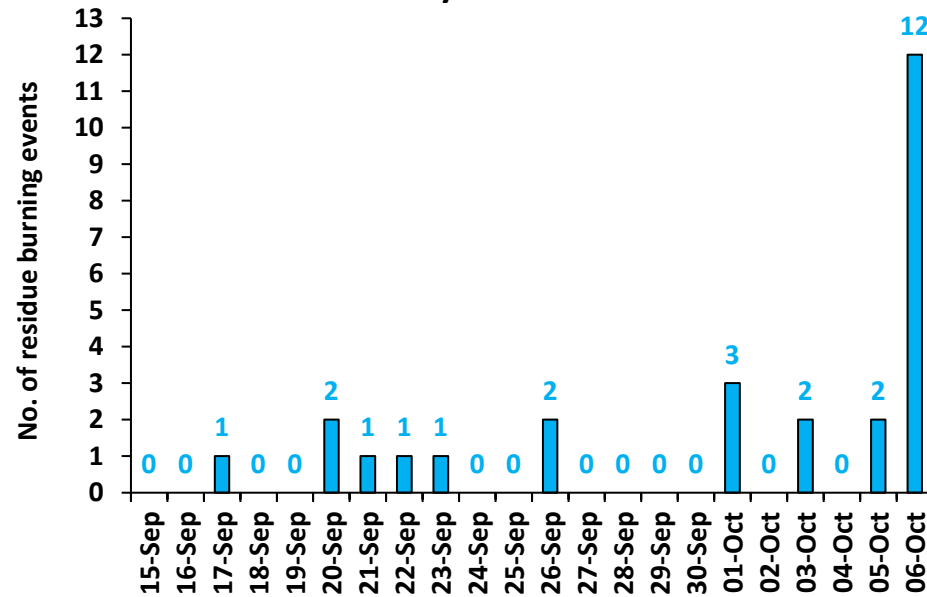
Uttar Pradesh



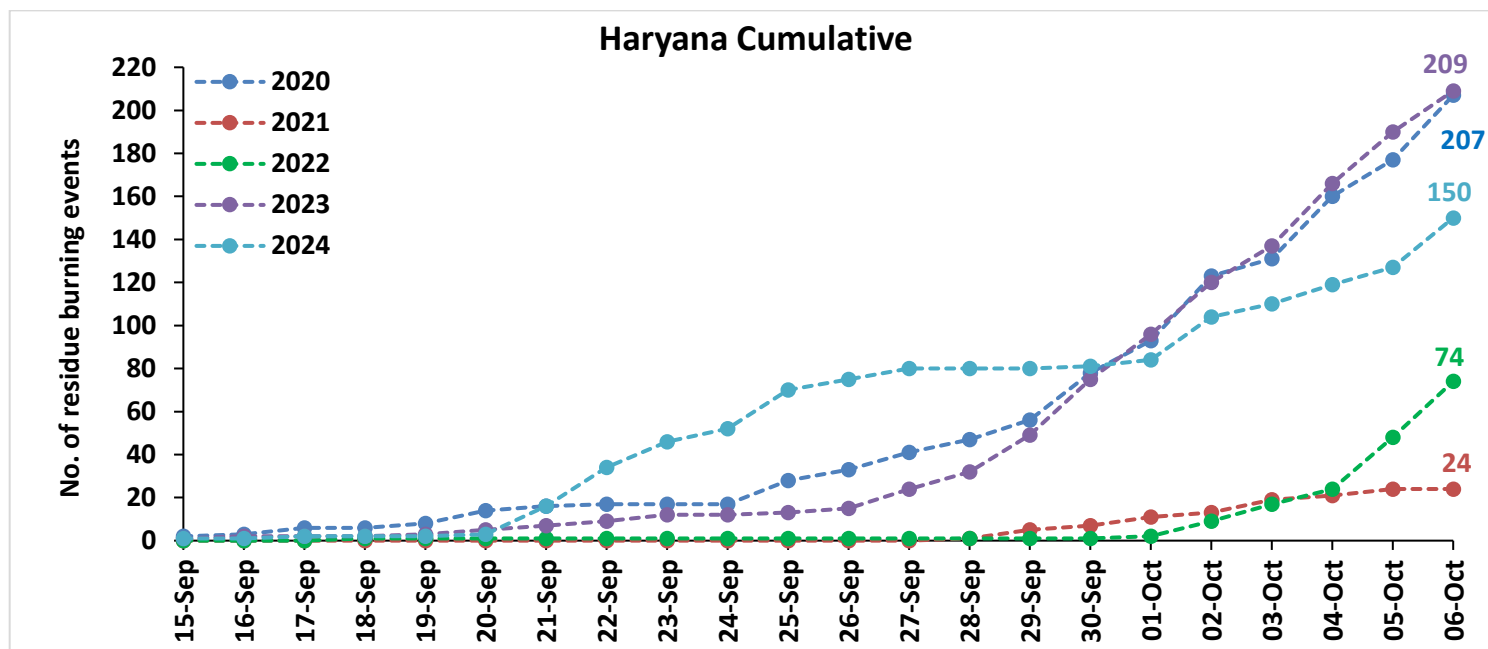
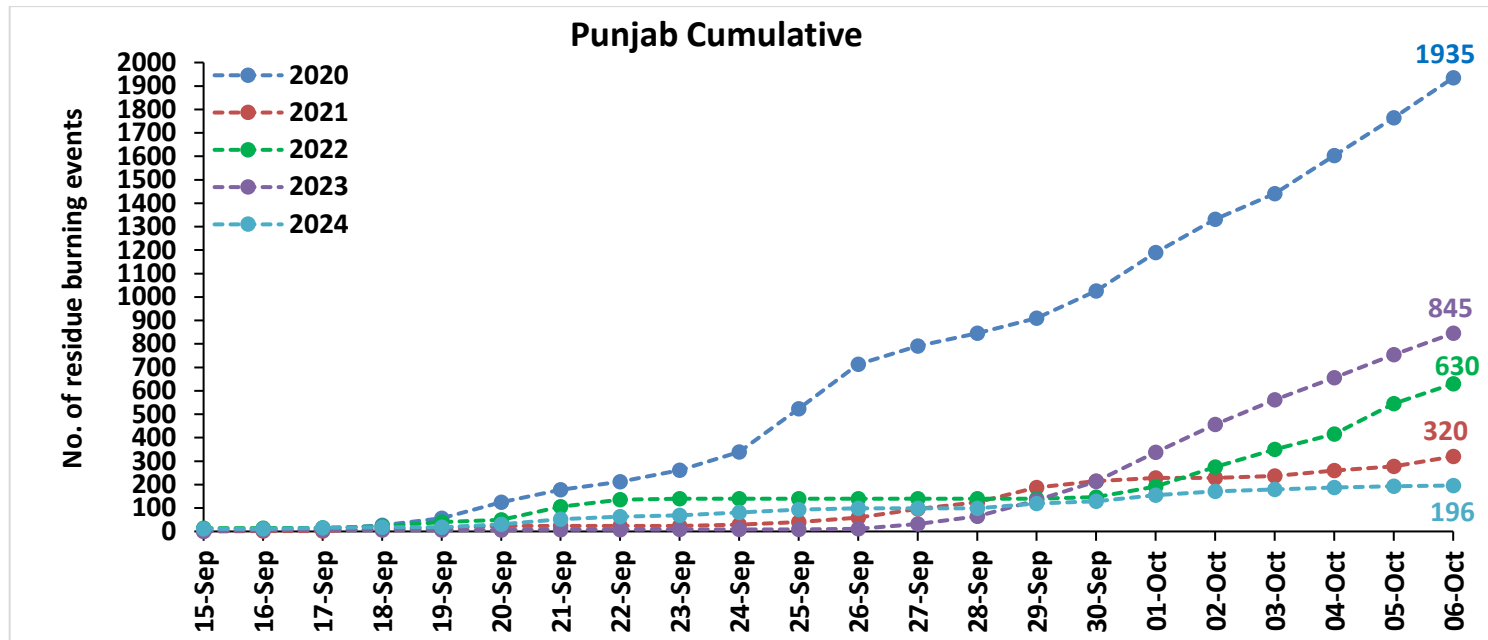
Rajasthan

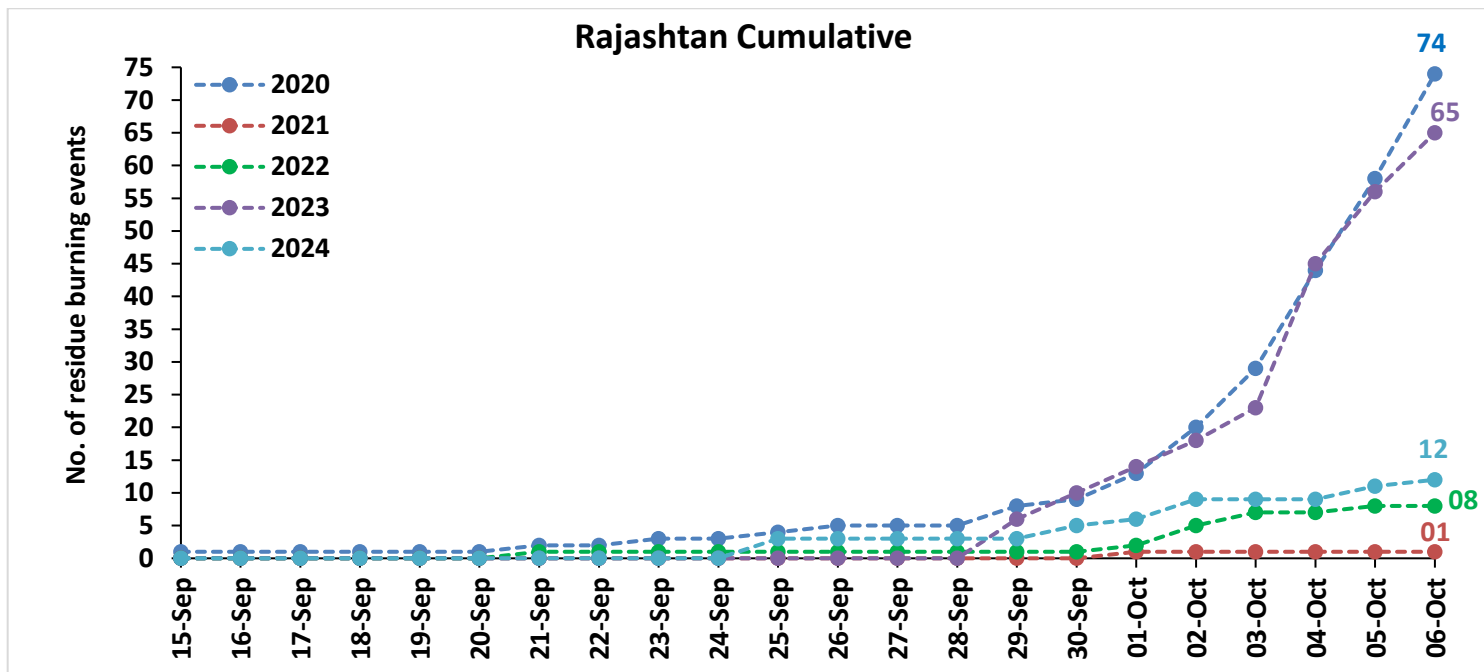
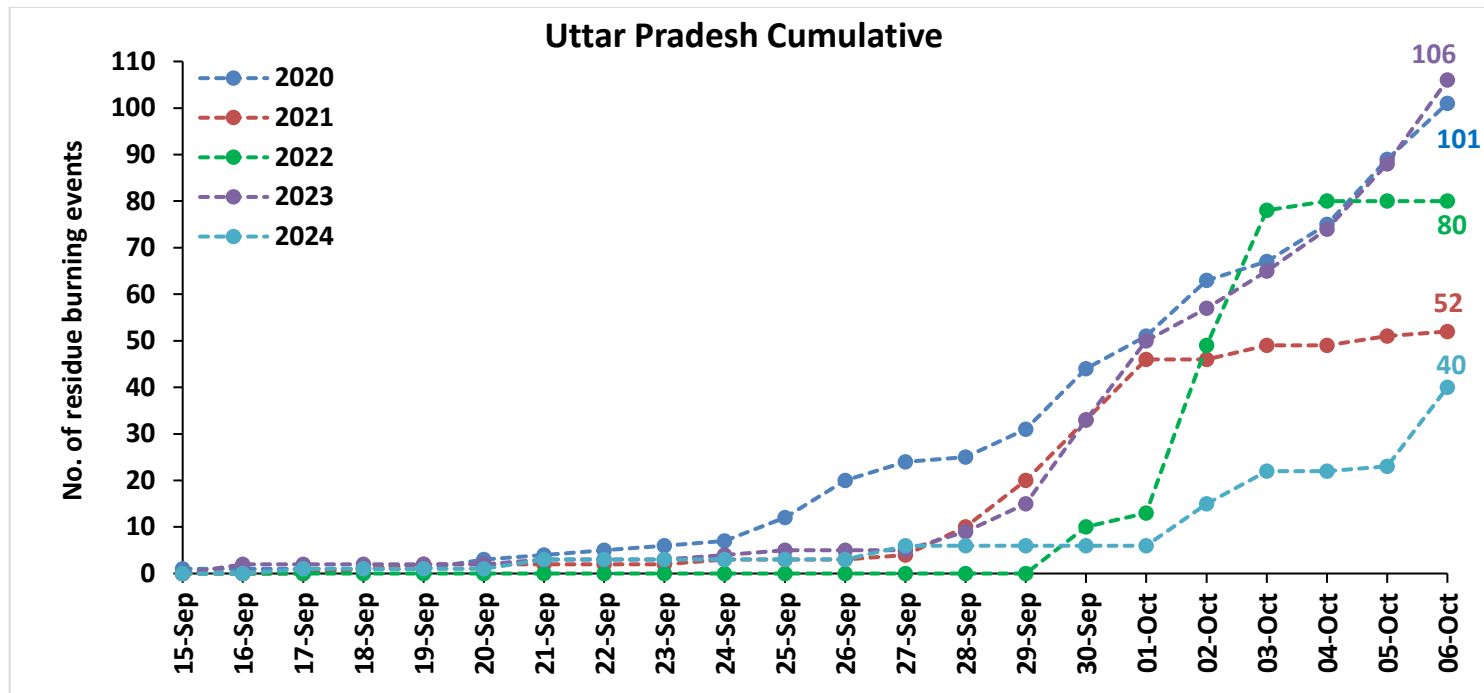


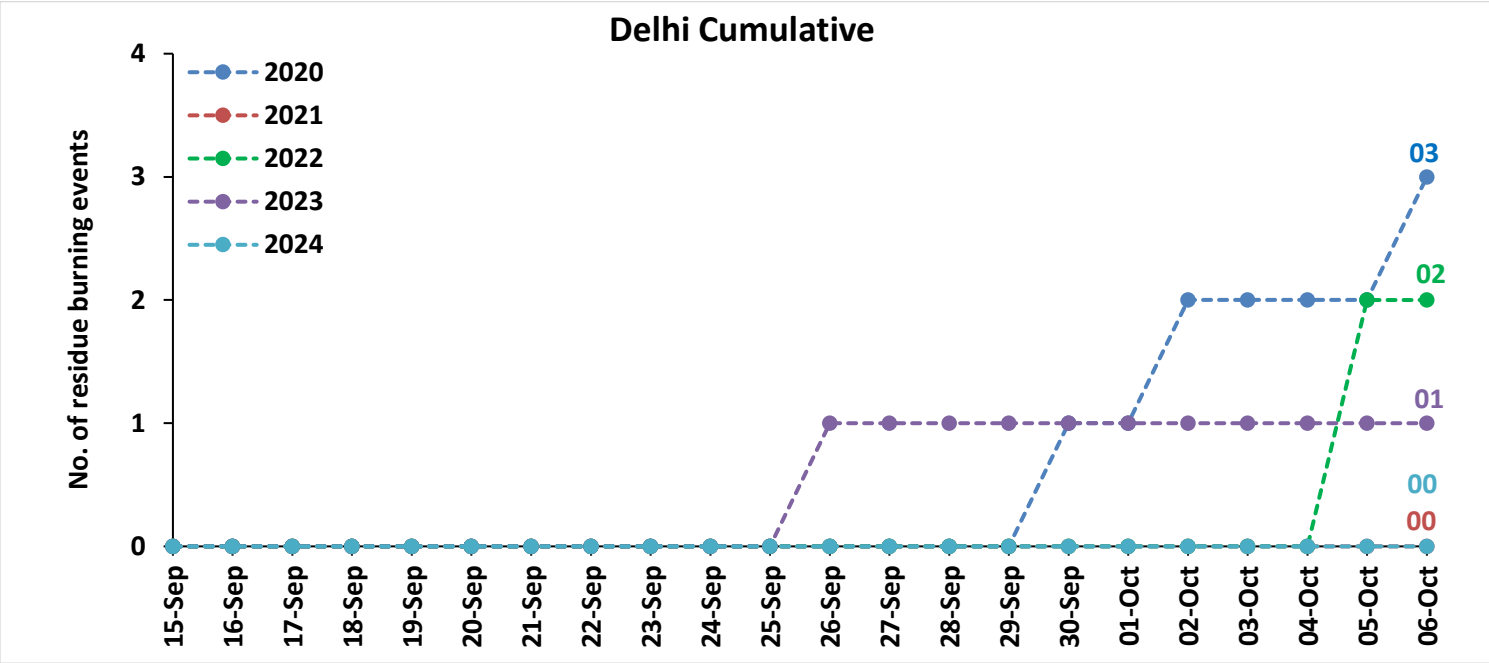
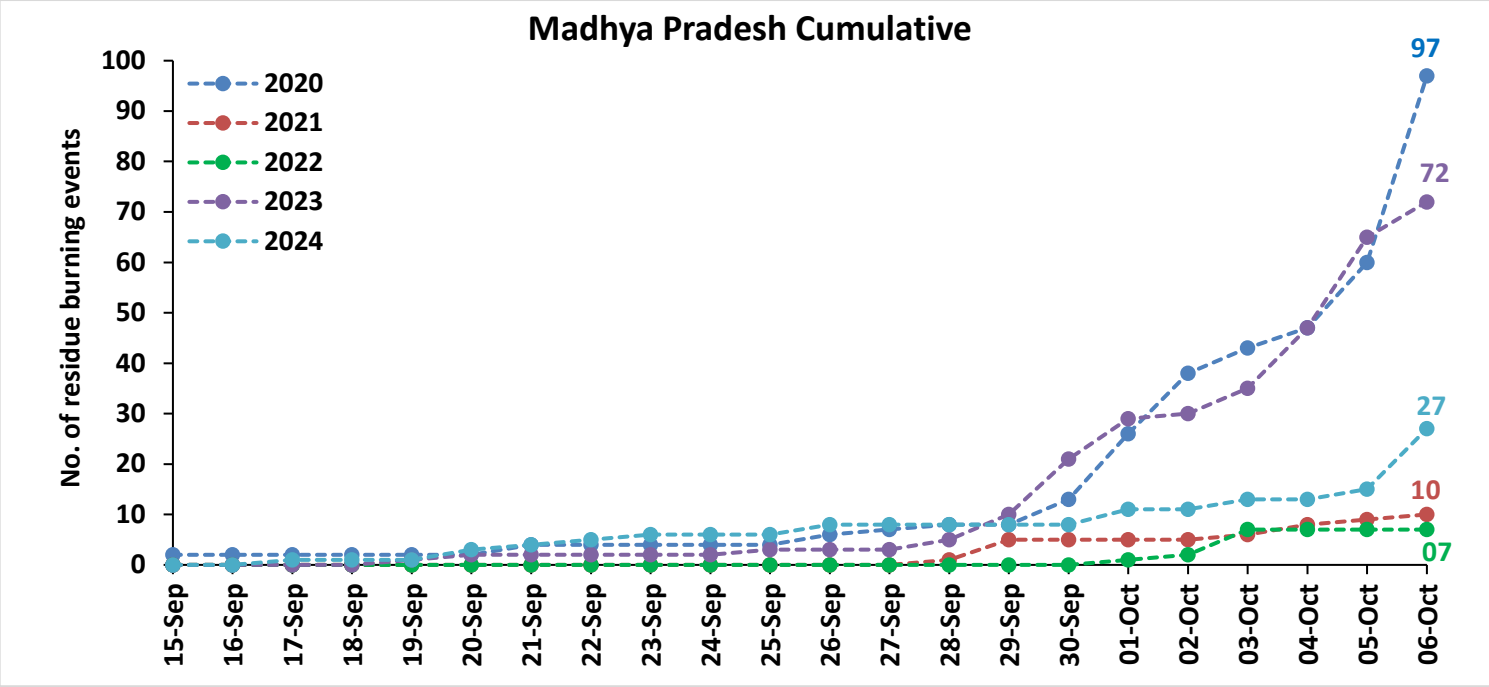
Madhya Pradesh



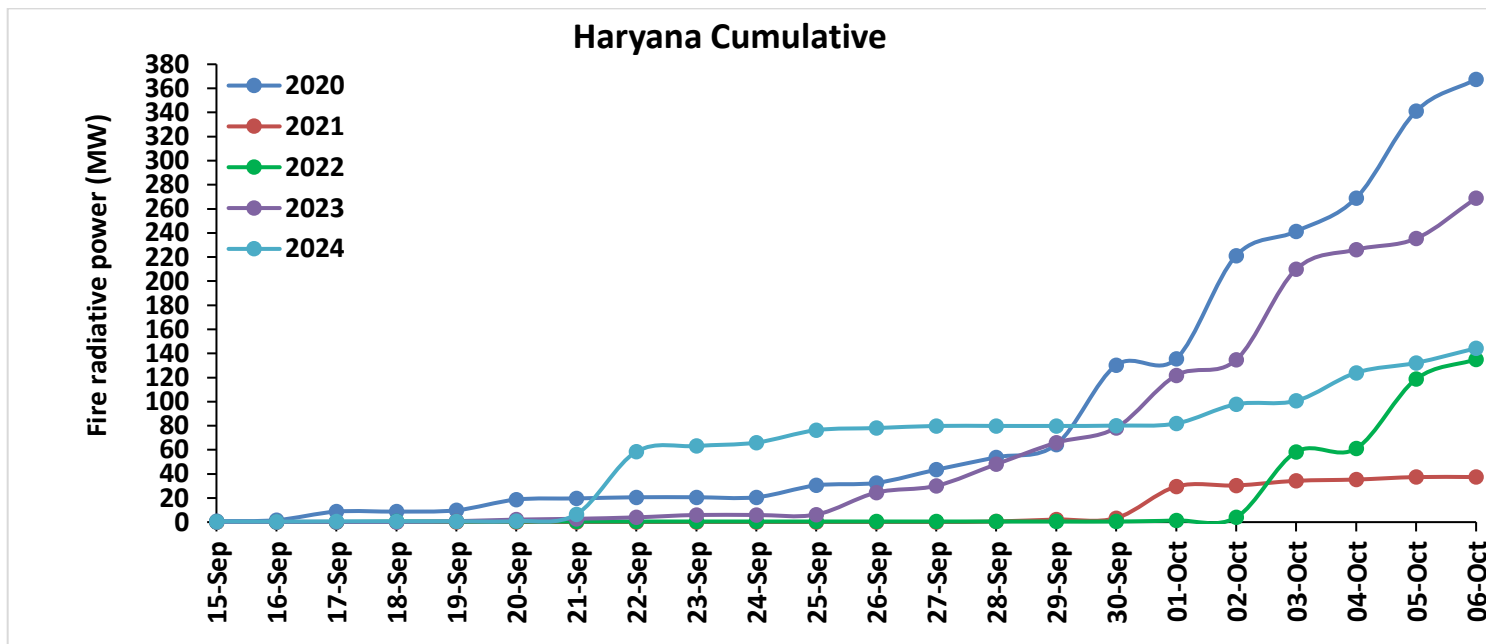
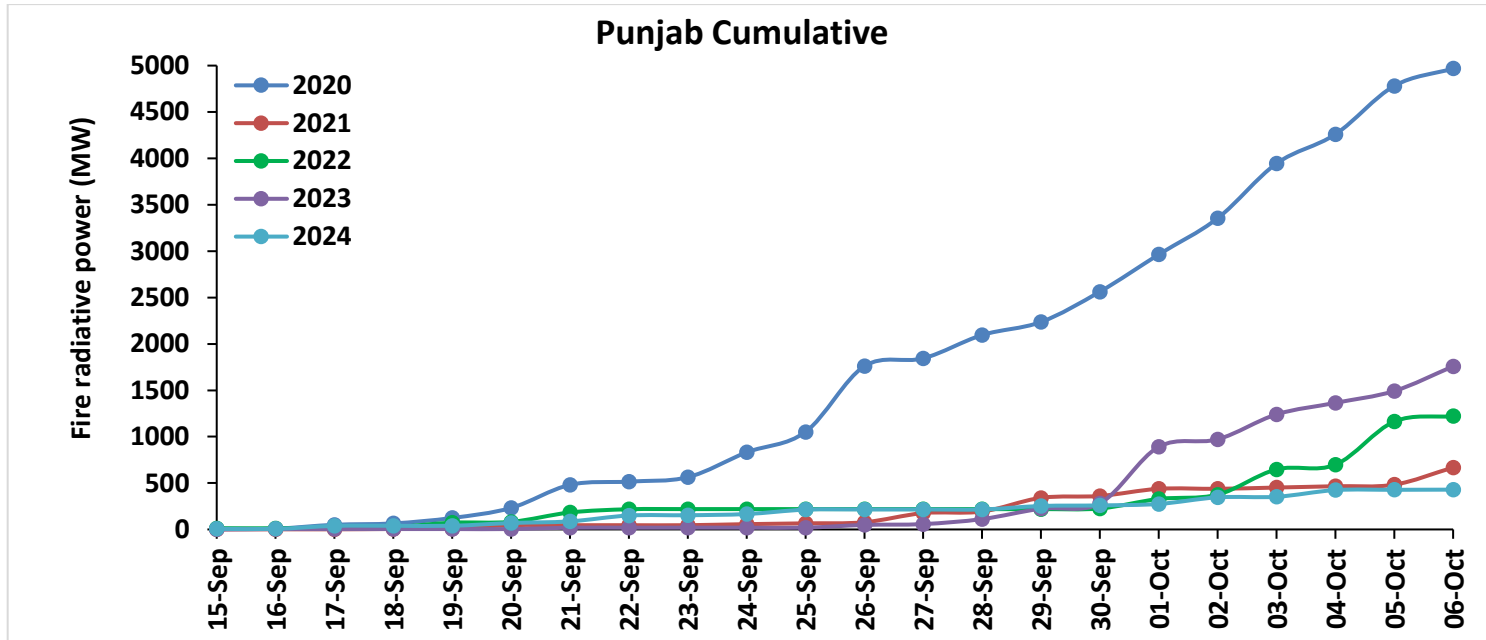
Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States

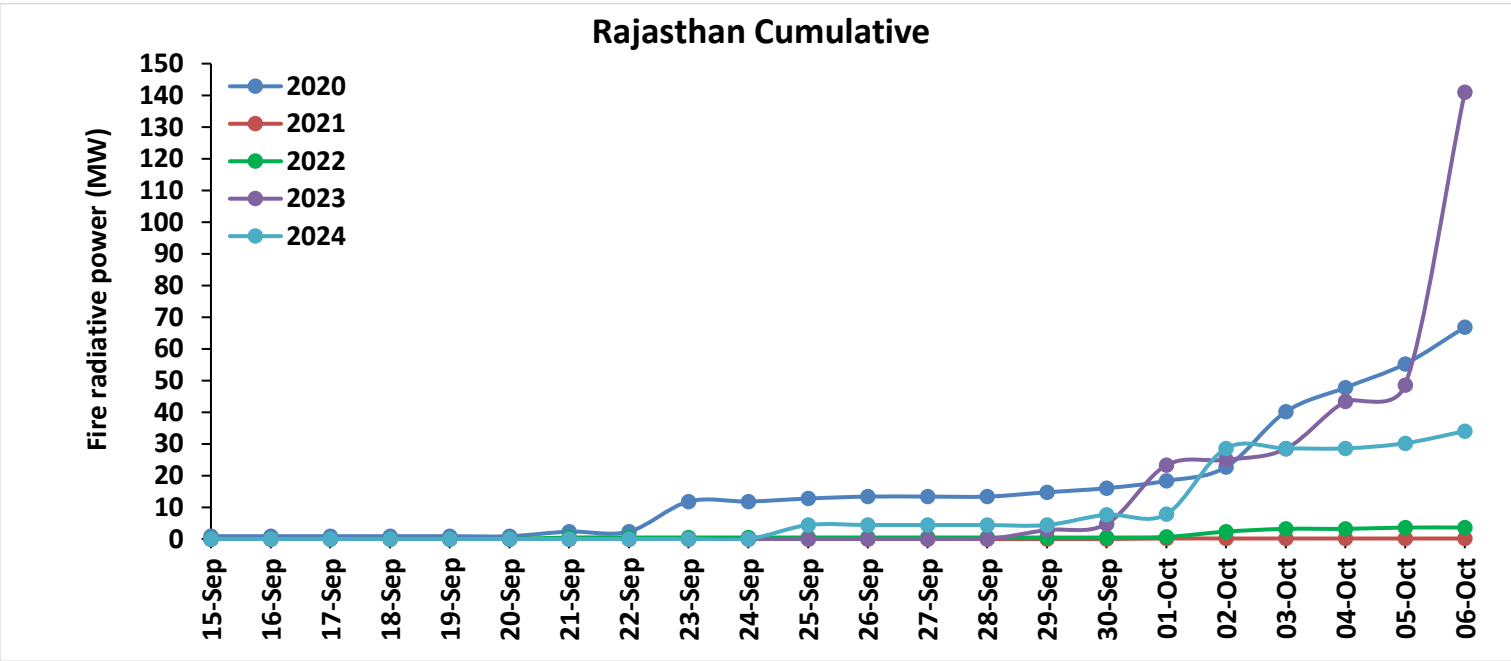
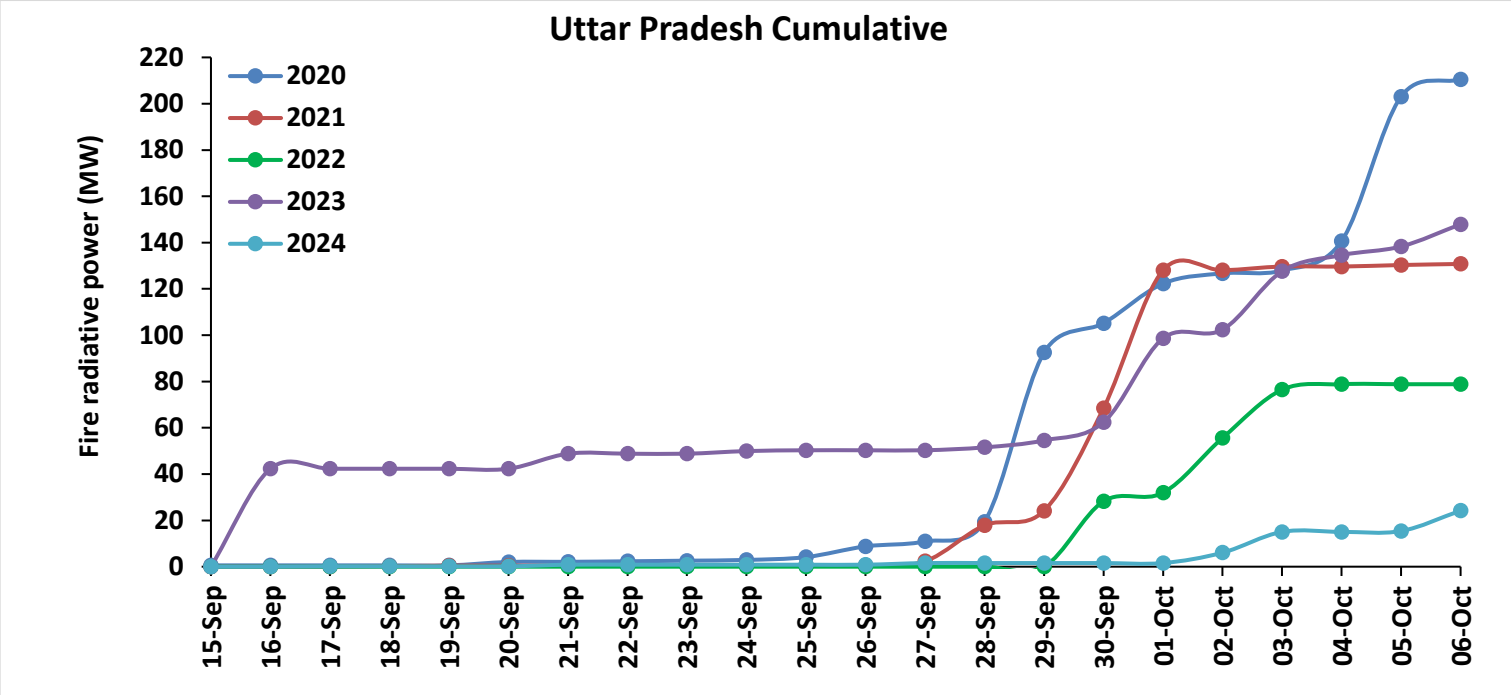


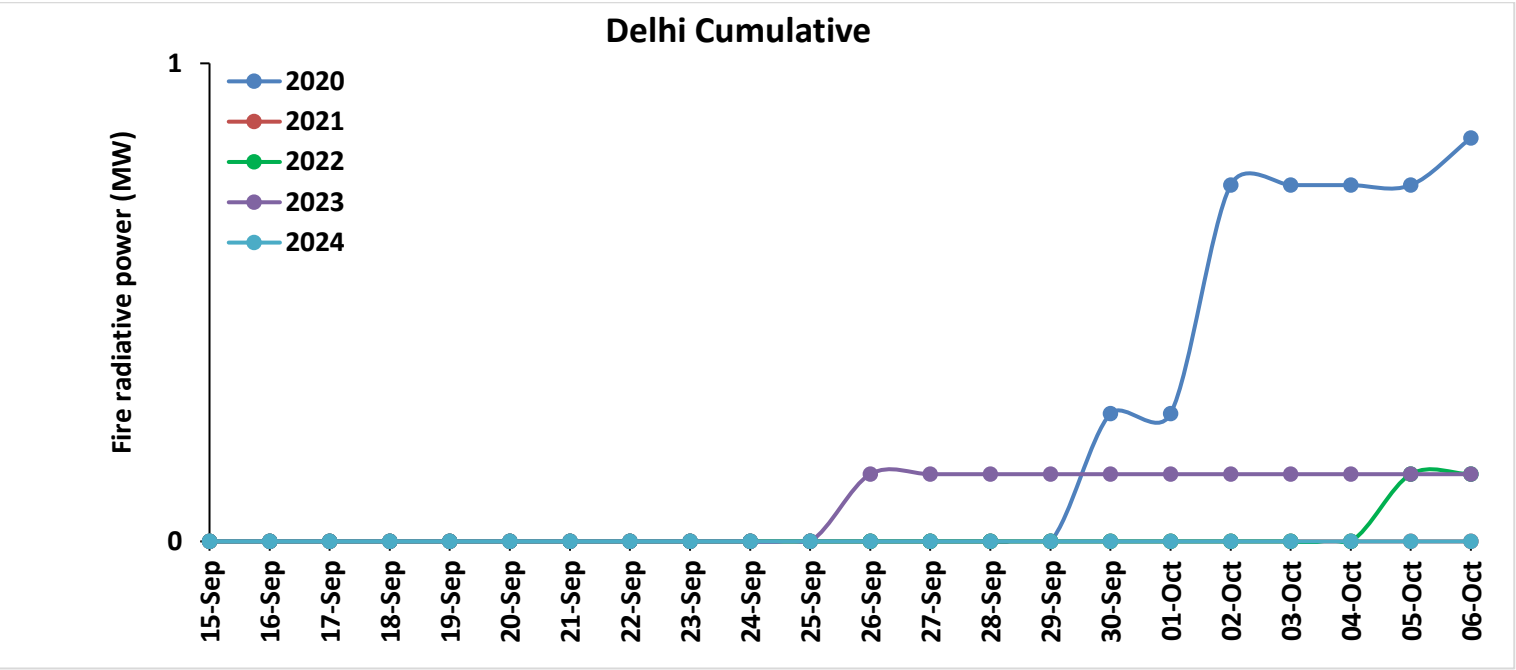
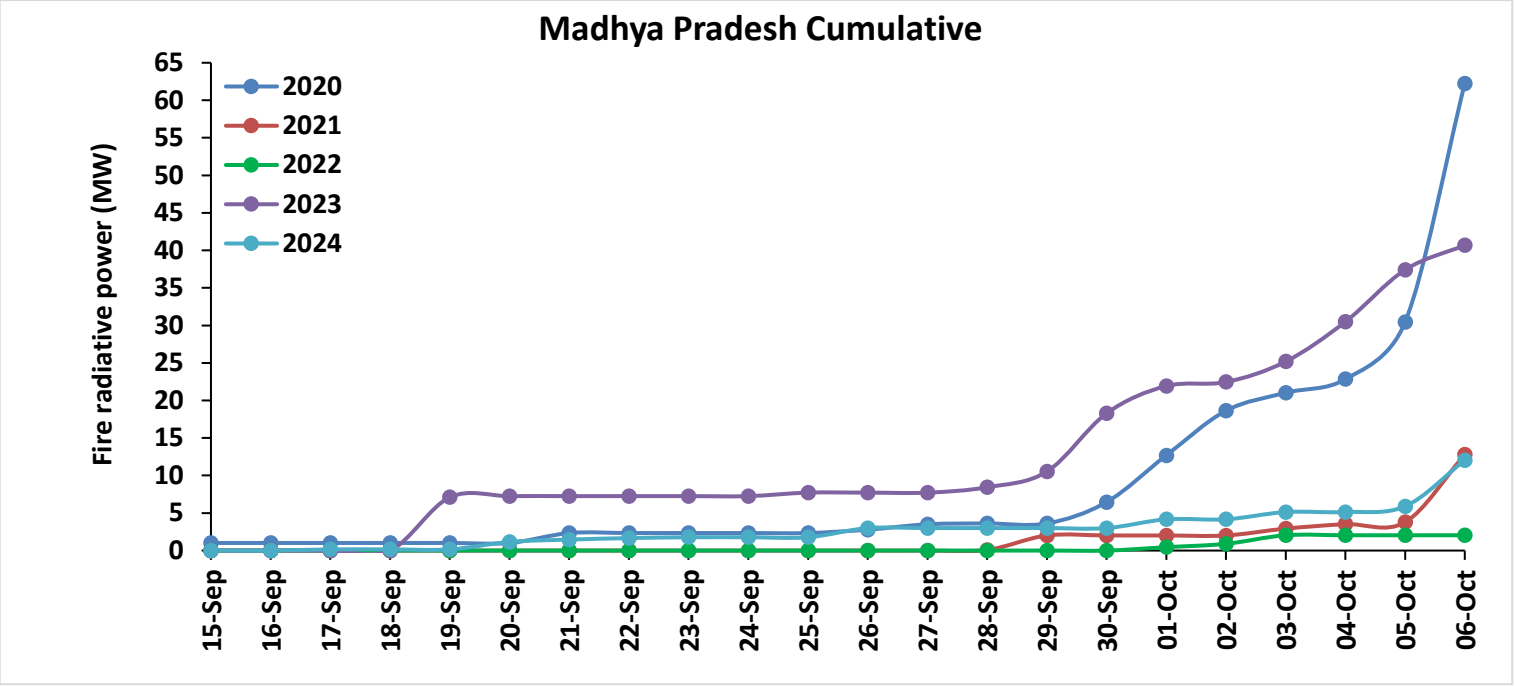




Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States

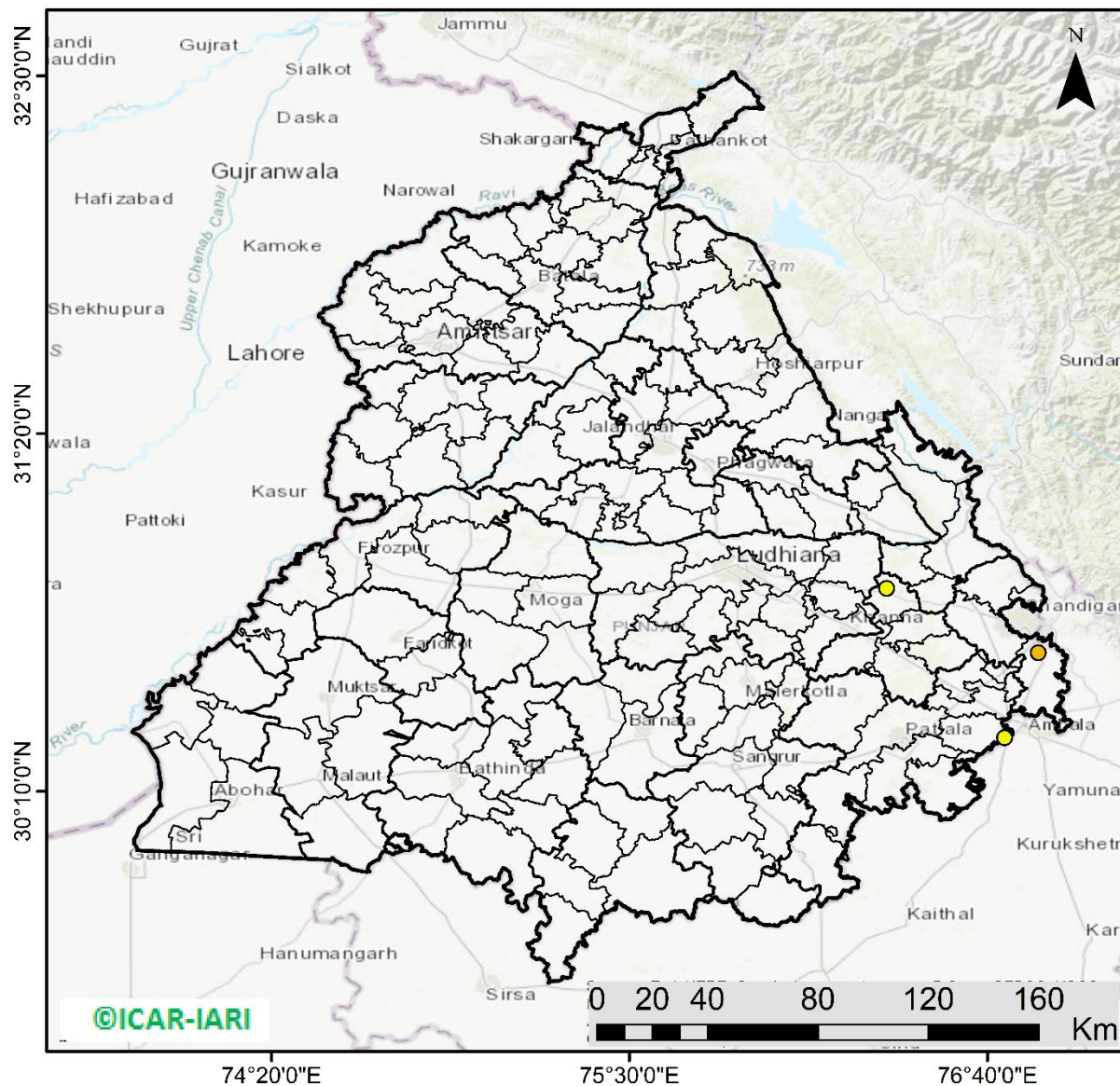






Punjab

RICE RESIDUE BURNING IN PUNJAB



03 burning events detected in Punjab during (06th Oct 2024)

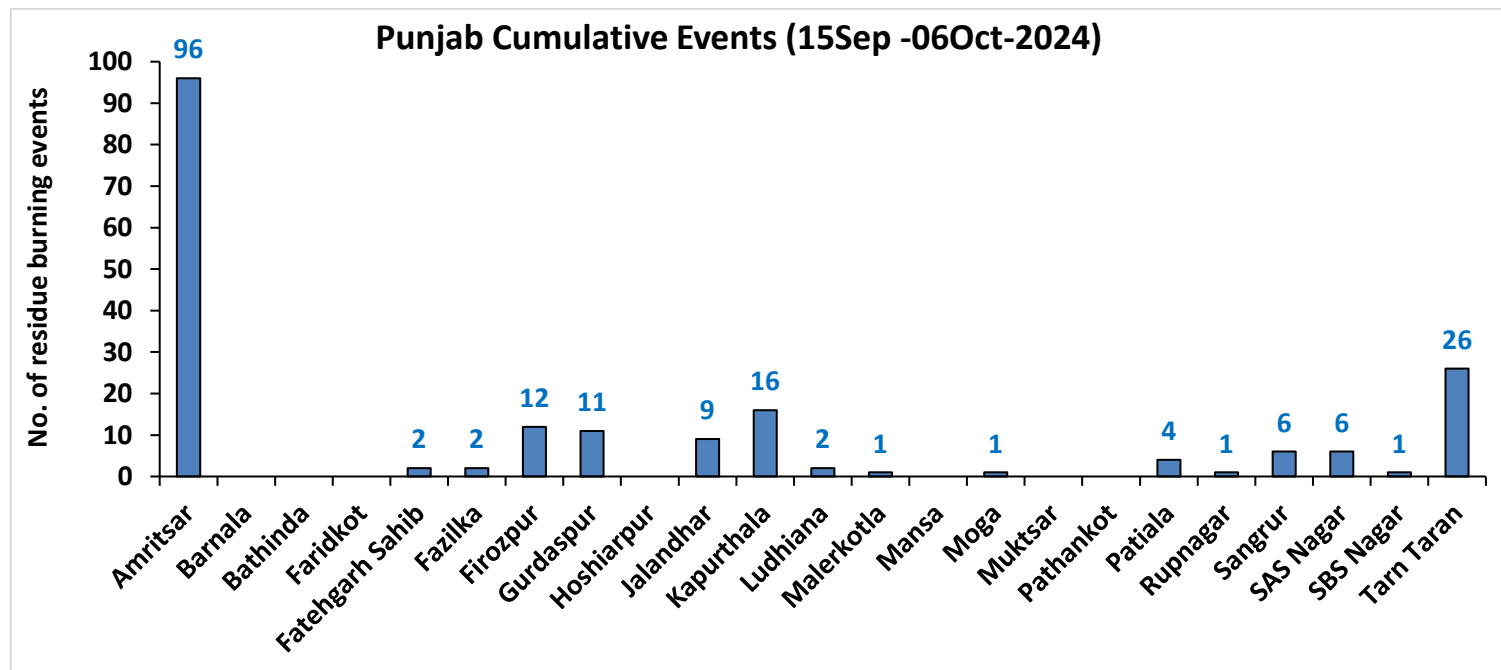
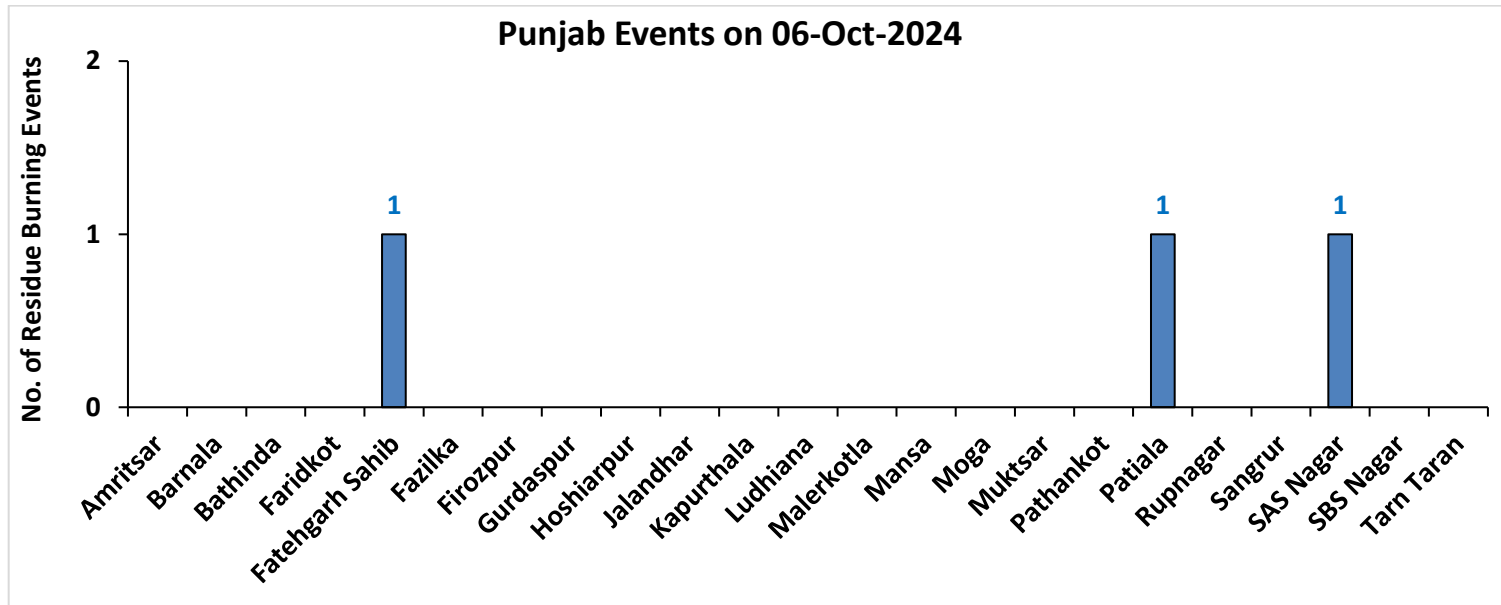
Fire Intensity (W/m²)

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



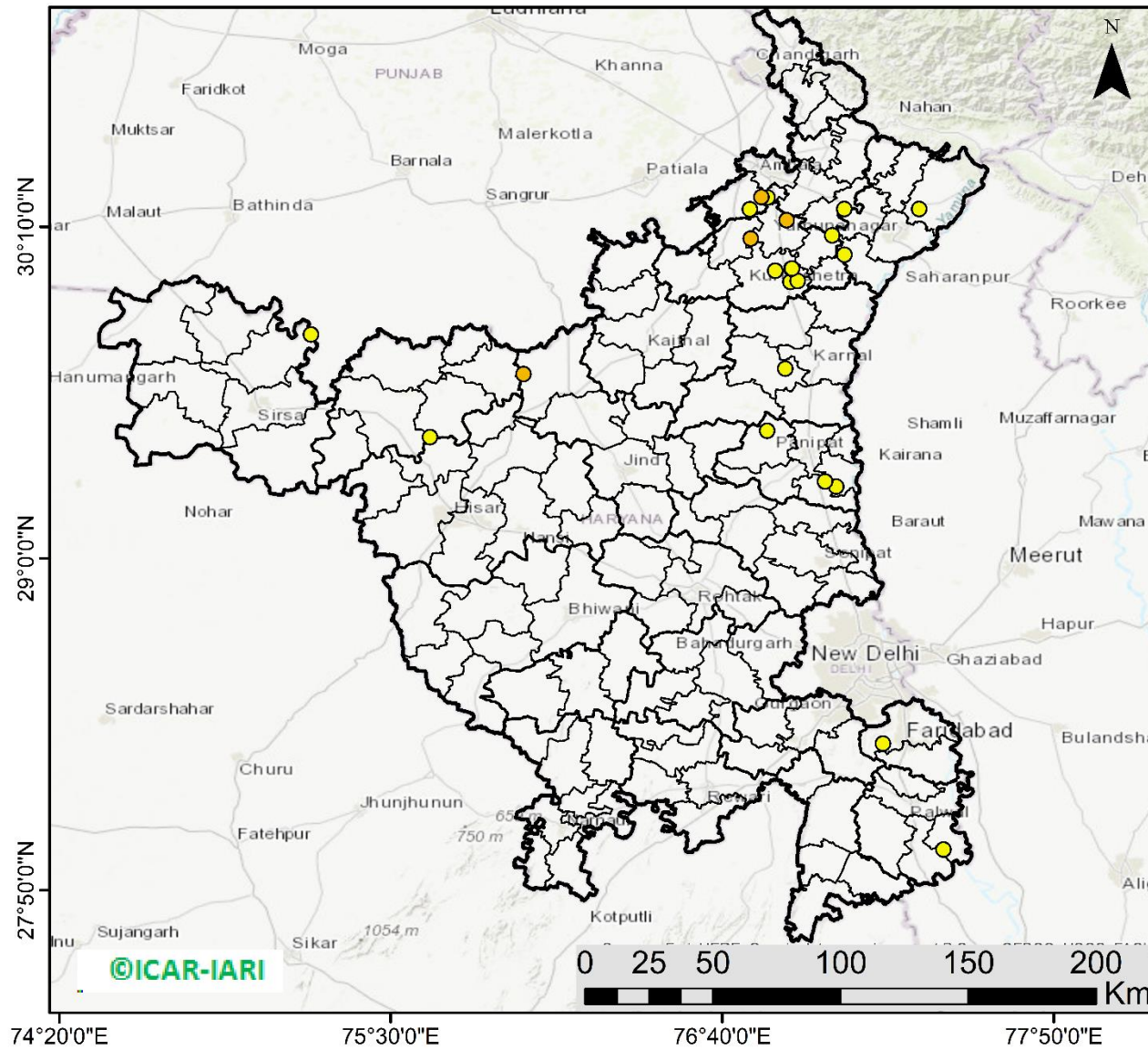
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15Sep-06Oct-2024)



Haryana

RICE RESIDUE BURNING IN HARYANA



23 burning events detected in Haryana on (06th Oct 2024)

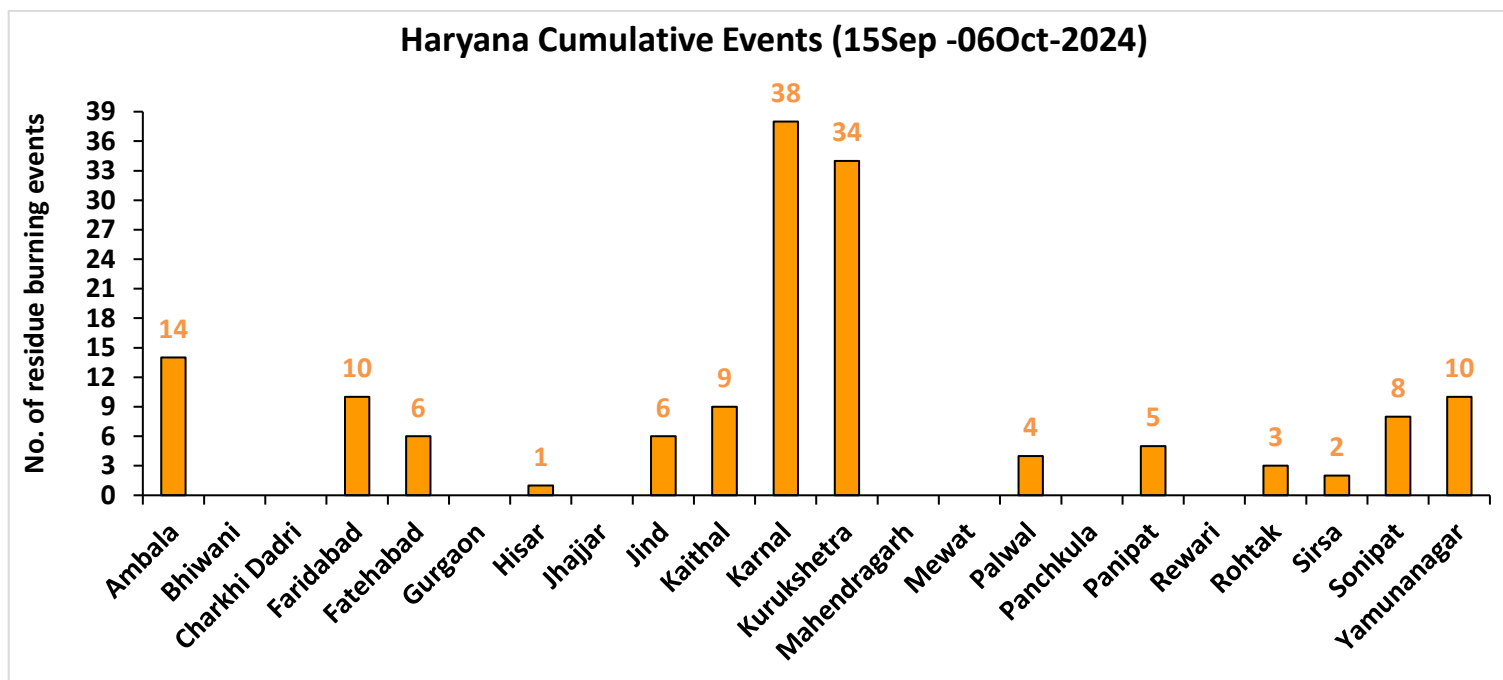
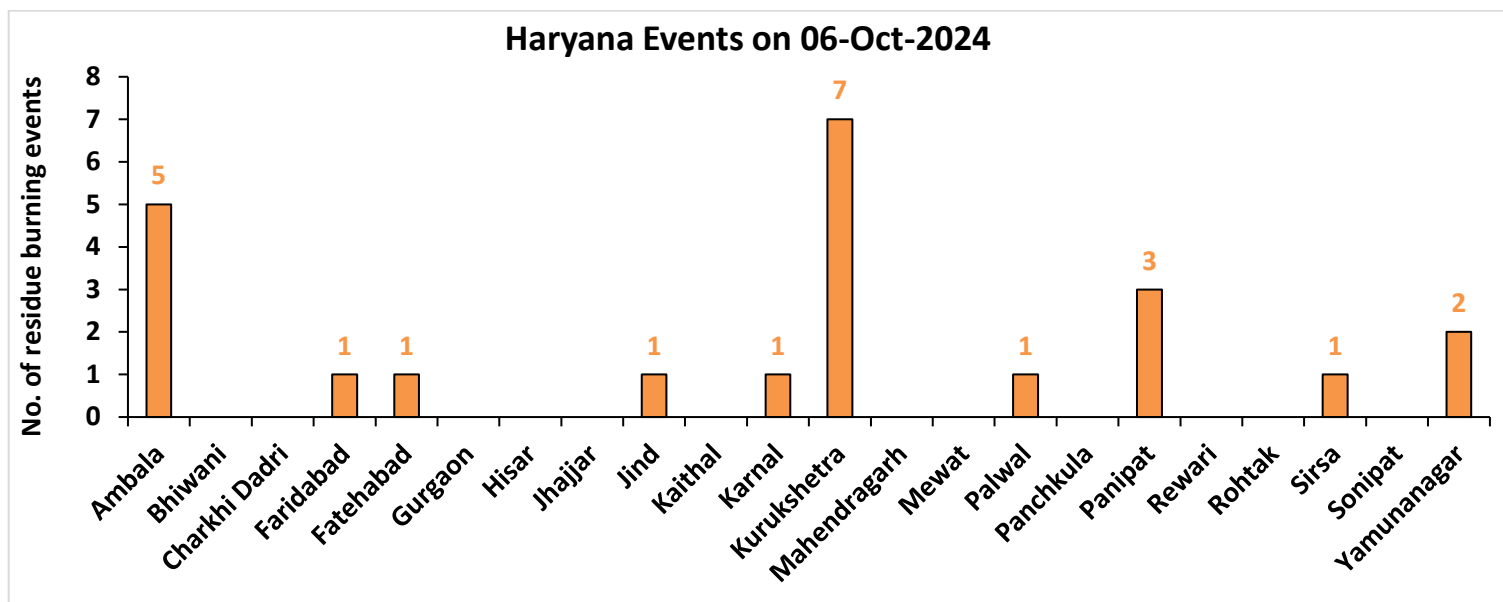
Fire Intensity (W/m²)

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



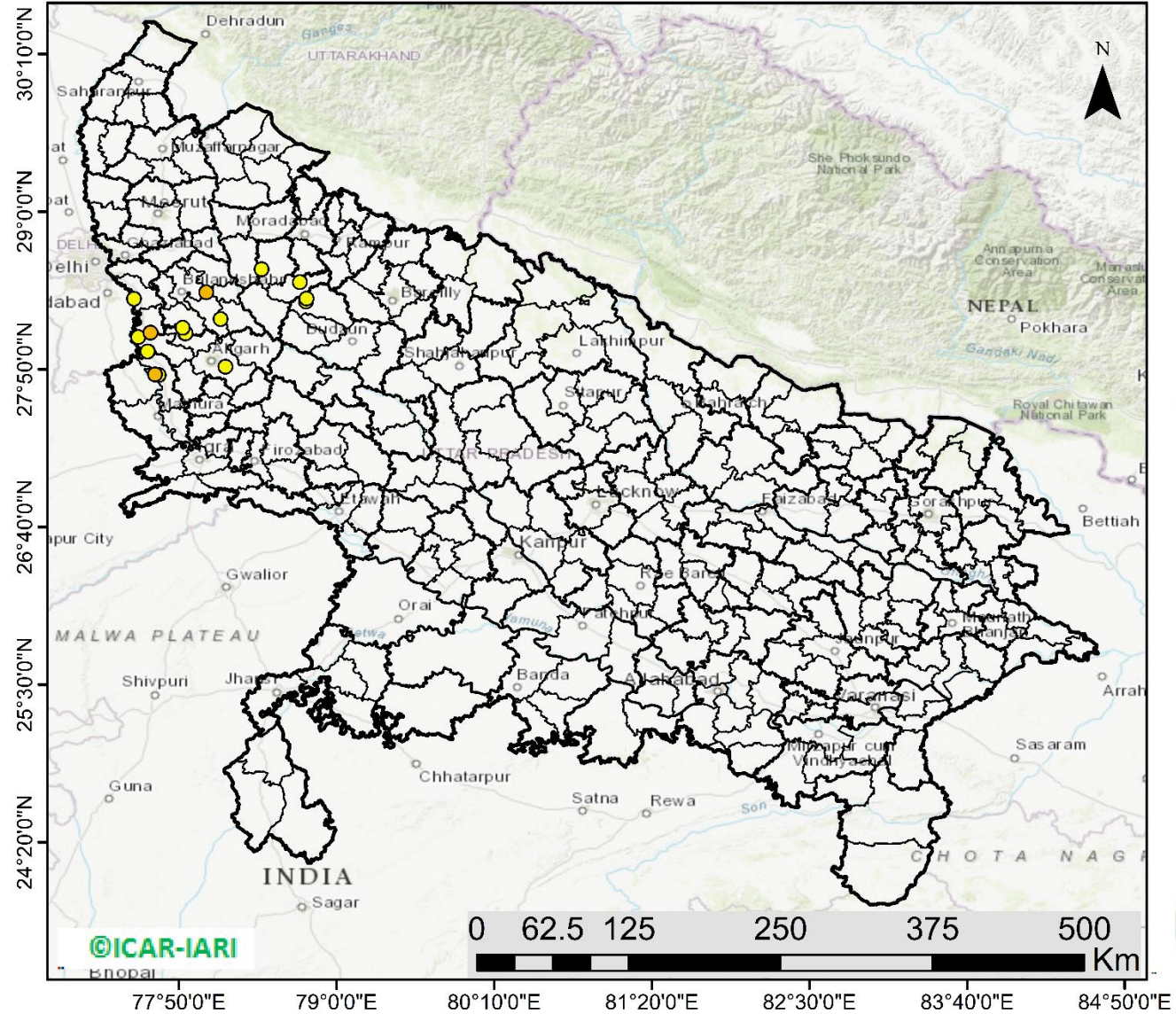
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15Sep-06Oct-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



17 burning events detected in Uttar Pradesh on (06th Oct 2024)

Fire Intensity (W/m²)

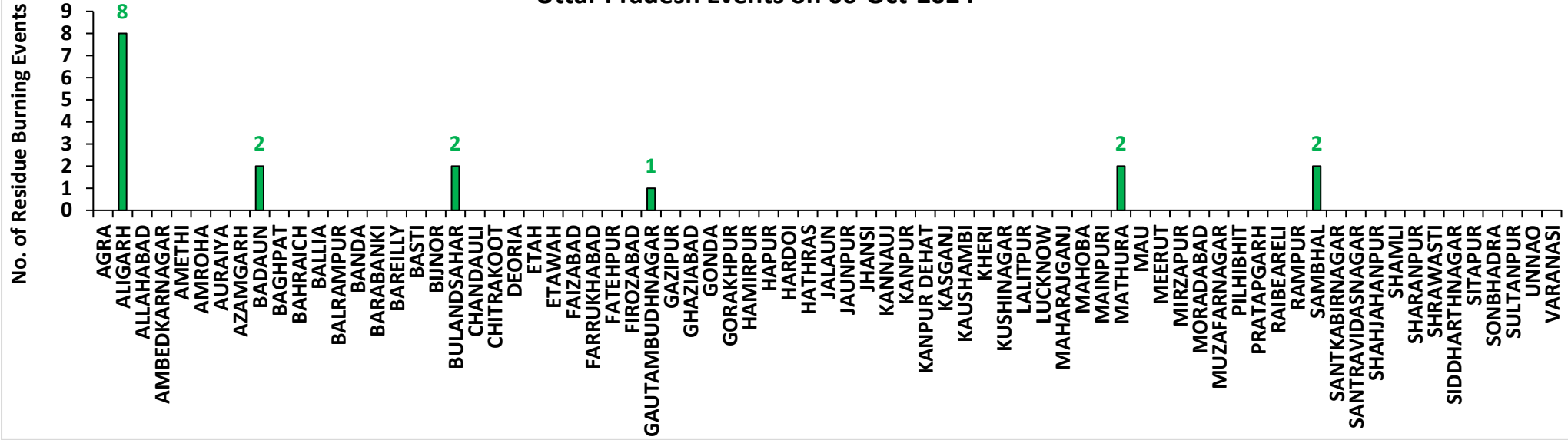
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



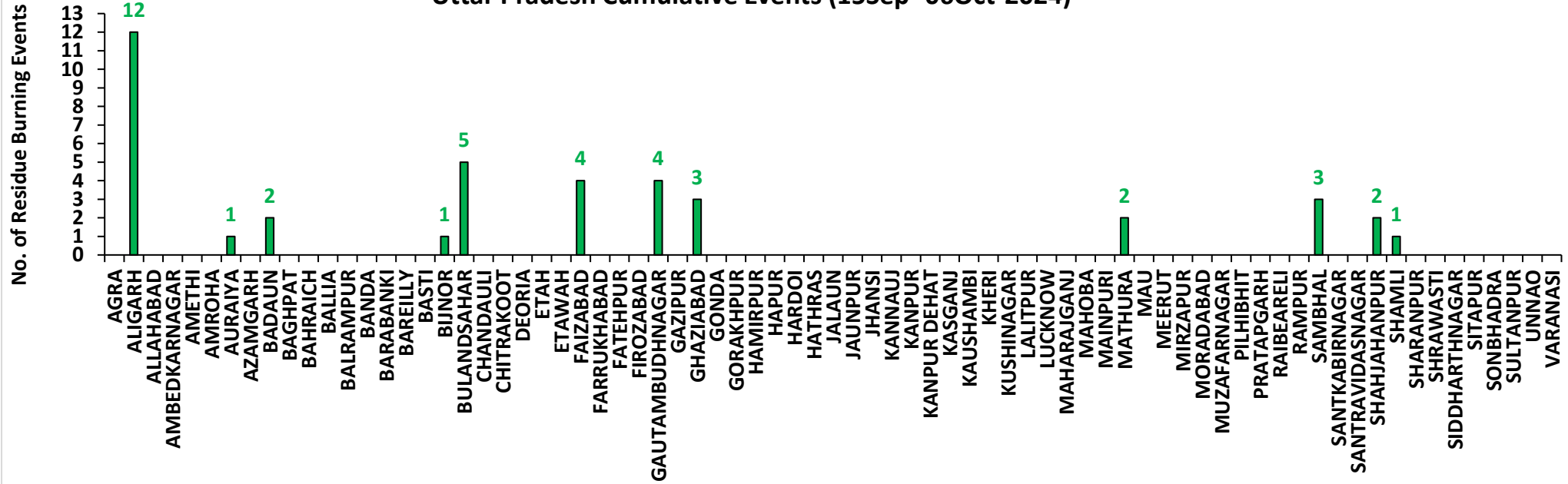
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-06Oct-2024)

Uttar Pradesh Events on 06-Oct-2024

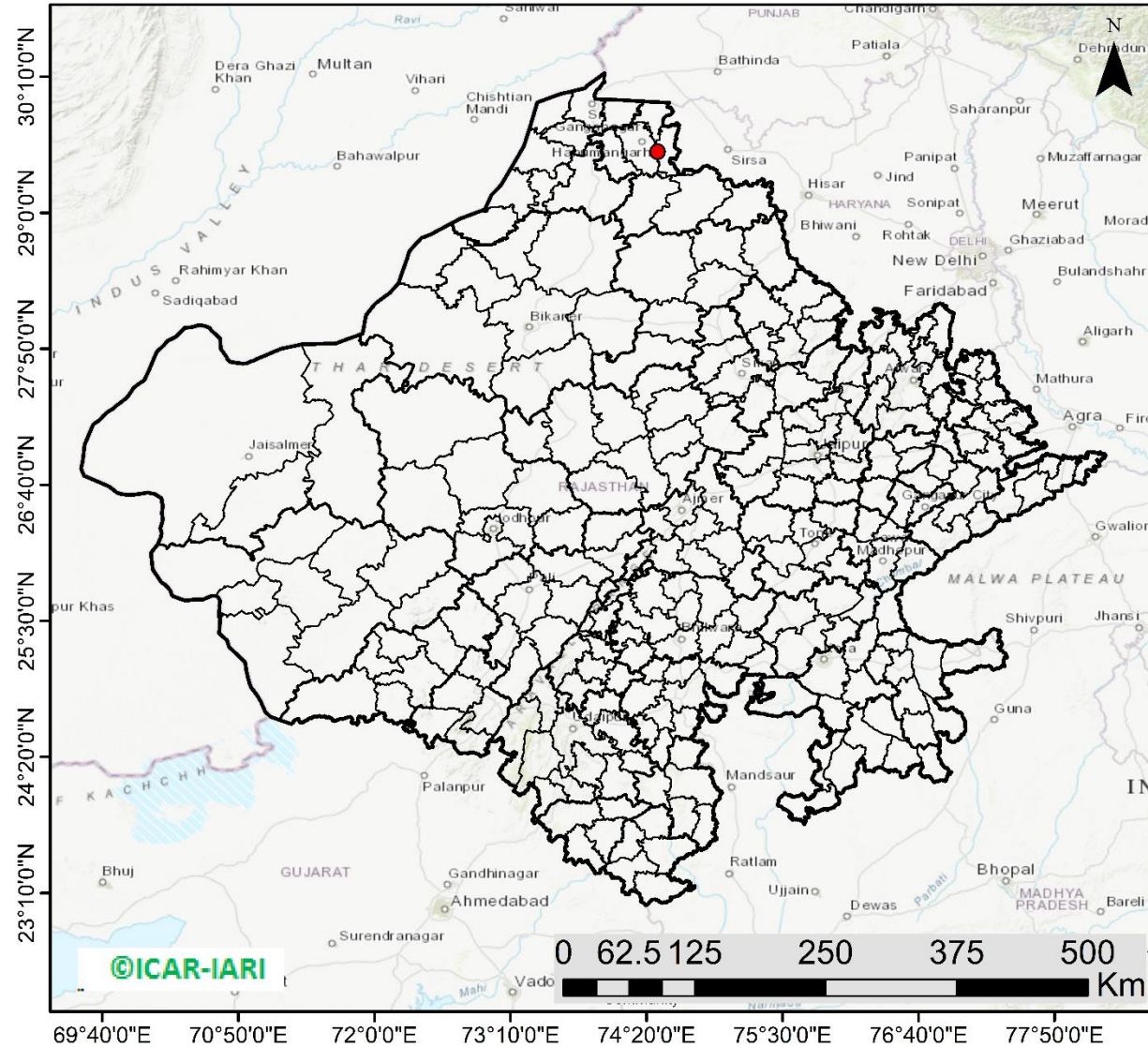


Uttar Pradesh Cumulative Events (15Sep -06Oct-2024)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



01 burning events
detected in Rajasthan on
(06th Oct 2024)

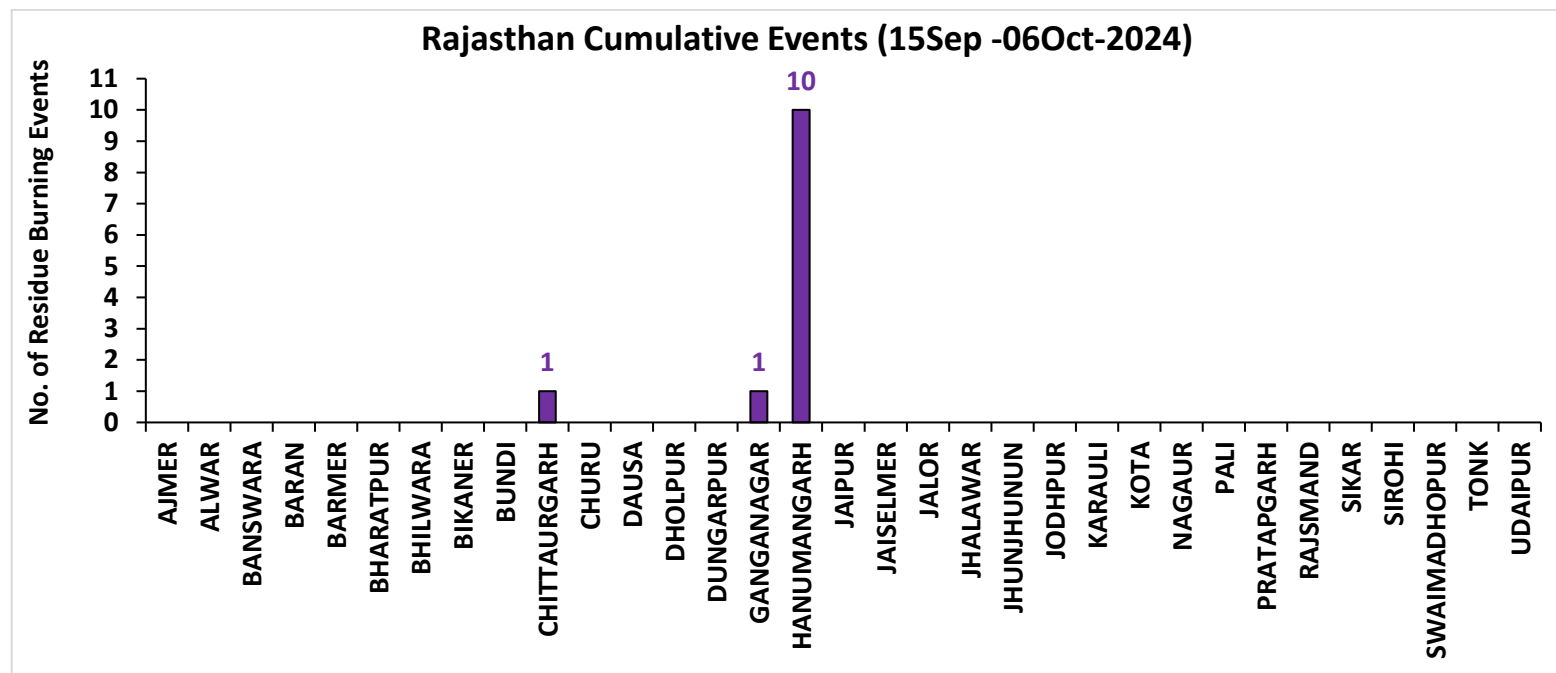
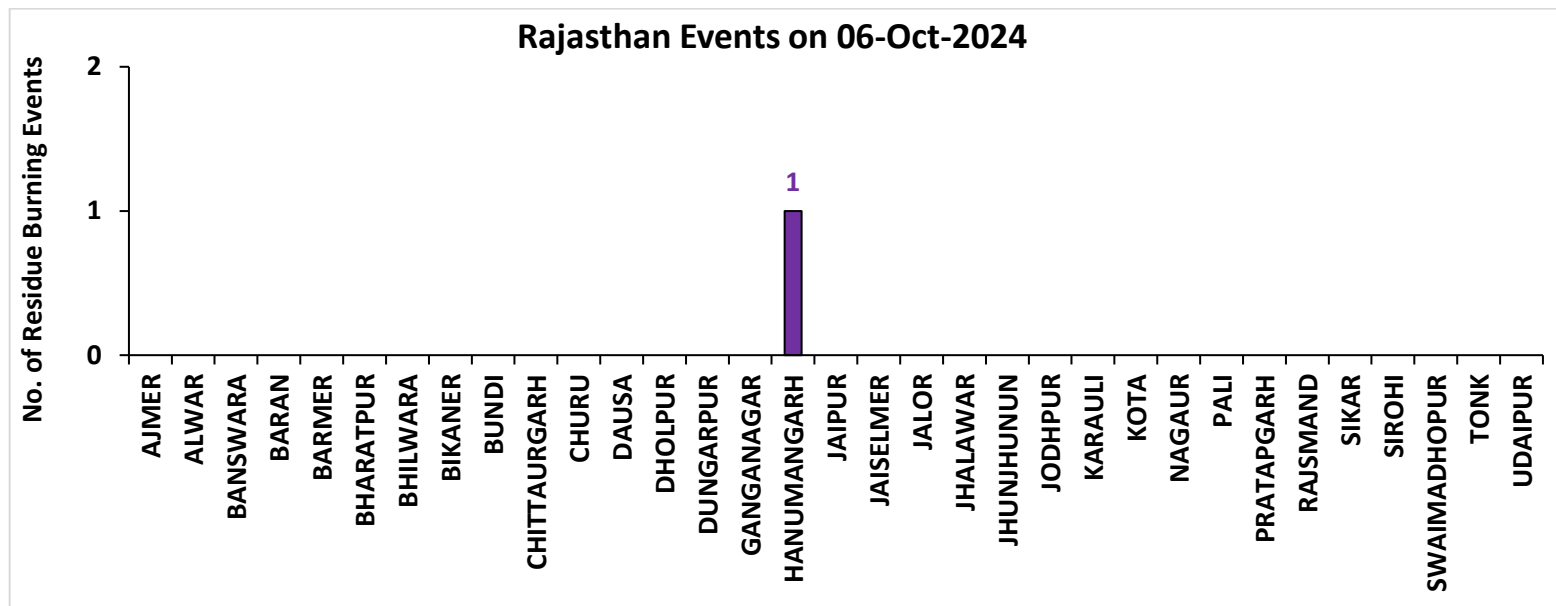
Fire Intensity (W/m²)

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



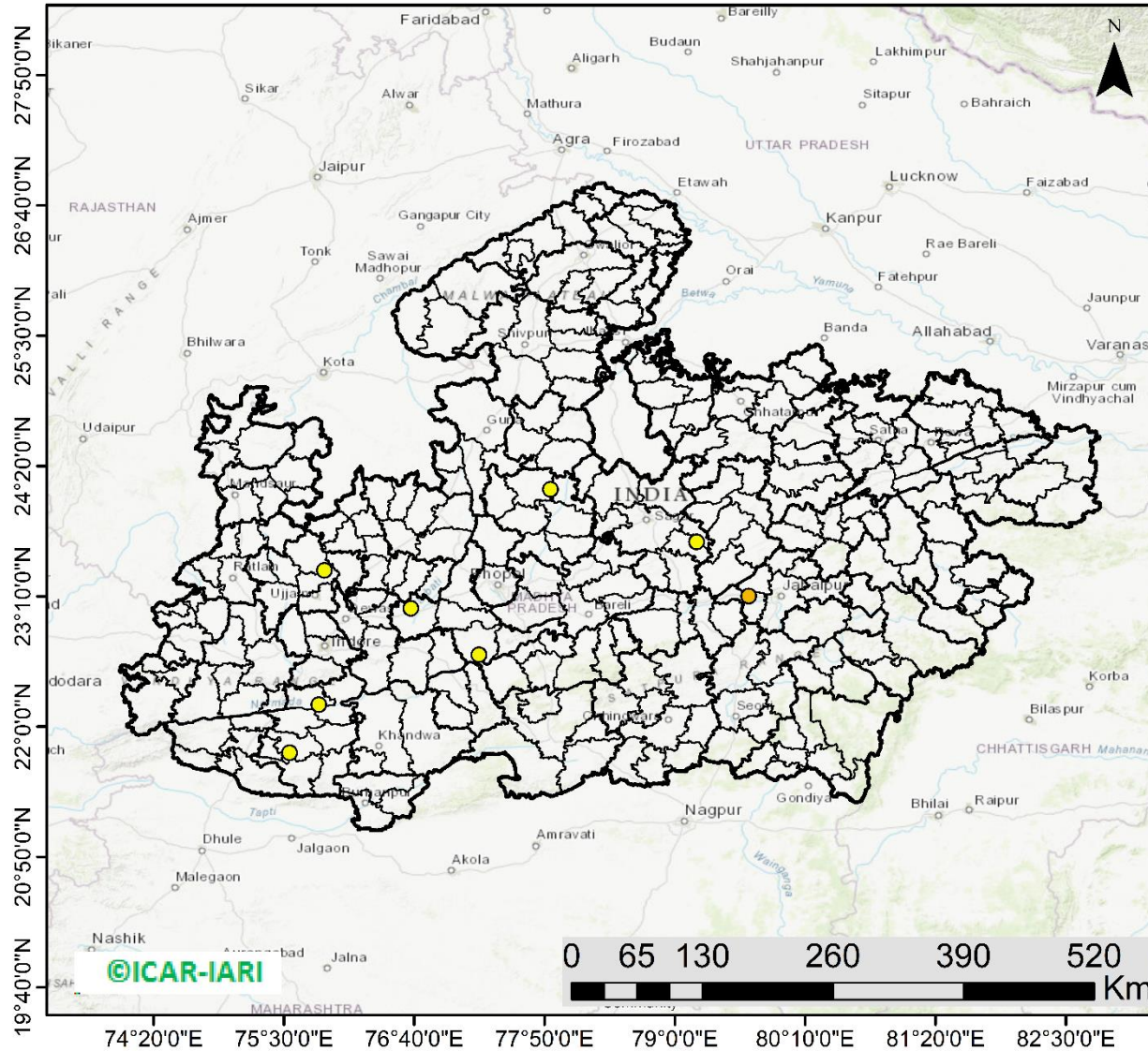
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15Sep-06Oct-2024)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



12 burning events detected in MP on (06th Oct 2024)

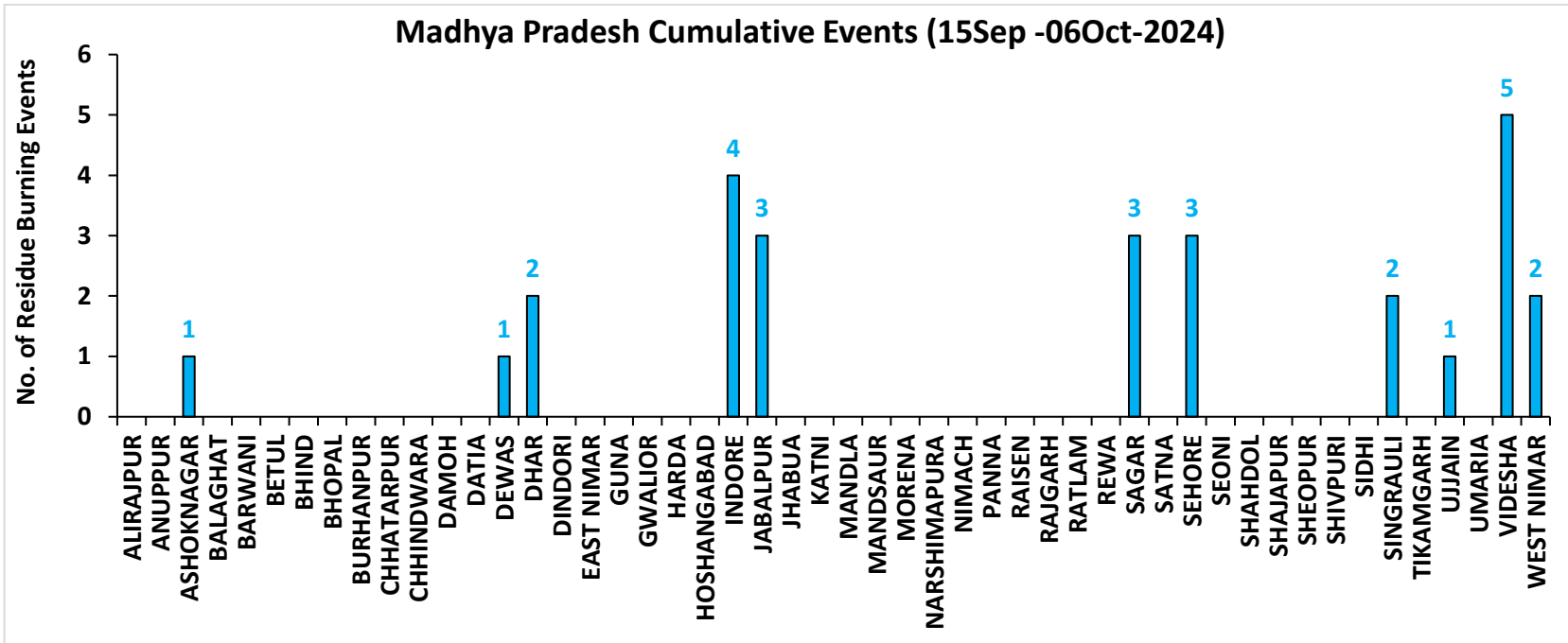
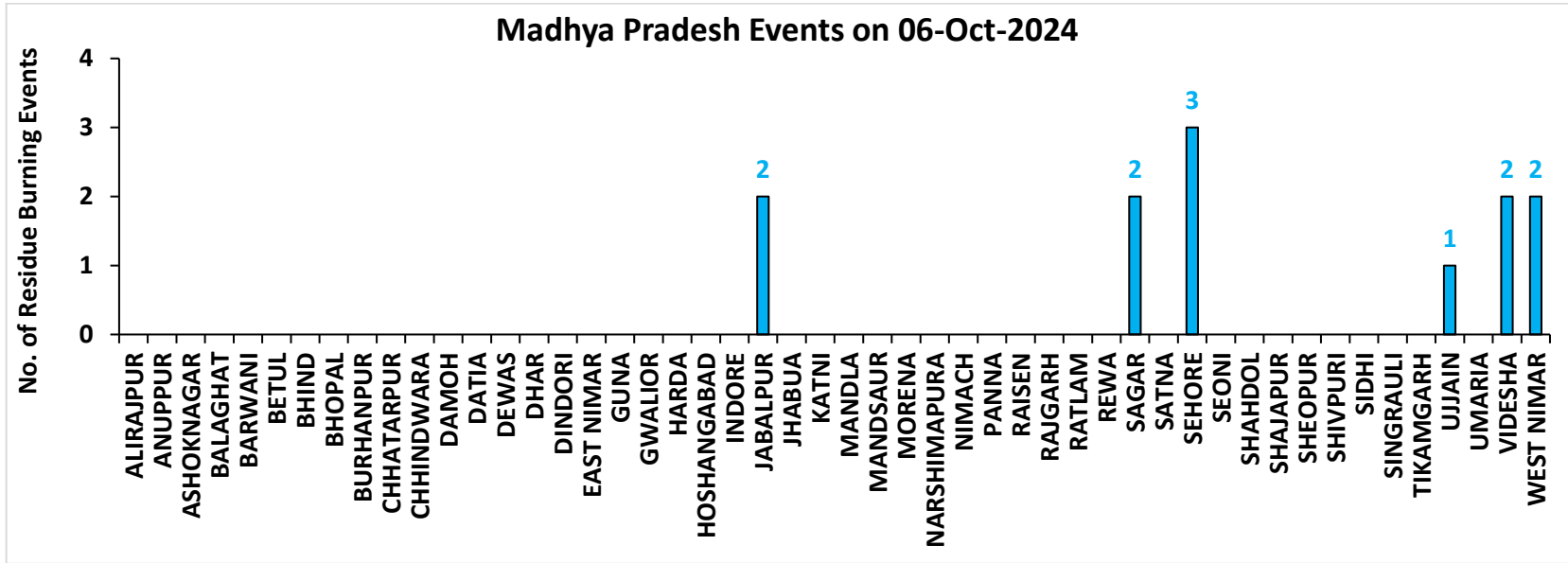
Fire Intensity (W/m²)

- 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-06Oct-2024)



District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024
(Period: 15 September-06 October)

(a) Punjab

District	15 Sep-06 Oct				
	2020	2021	2022	2023	2024
Amritsar	1141	190	419	519	96
Barnala	5	0	2	6	0
Bathinda	0	0	0	0	0
Faridkot	5	9	2	5	0
Fatehgarh Sahib	19	3	3	6	2
Fazilka	0	1	0	1	2
Firozpur	40	5	15	16	12
Gurdaspur	84	5	7	10	11
Hoshiarpur	3	0	0	2	0
Jalandhar	21	7	12	13	9
Kapurthala	28	4	19	46	16
Ludhiana	46	23	6	7	2
Malerkotla	0	0	0	2	1
Mansa	2	0	1	4	0
Moga	12	2	2	2	1
Muktsar	1	1	1	0	0
Pathankot	0	0	0	0	0
Patiala	89	12	22	46	4
Rupnagar	4	1	0	1	1
Sangrur	32	4	7	17	6
SAS NAGAR (Mohali)	10	2	4	24	6
SBS Nagar	2	1	2	2	1
Tarn Taran	391	50	106	116	26
Total	1935	320	630	845	196

(b) Haryana

District	15 Sep-06 Oct				
	2020	2021	2022	2023	2024
AMBALA	27	1	9	46	14
BHIWANI	0	0	0	0	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	0	0	0	10
FATEHABAD	17	1	3	15	6
GURGAON	0	0	0	0	0
HISAR	3	0	0	4	1
JHAJJAR	0	0	0	2	0
JIND	2	0	5	15	6
KAITHAL	29	2	8	10	9
KARNAL	55	5	19	16	38
KURUKSHETRA	43	13	26	41	34
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	2	0	0	6	4
PANCHKULA	0	0	0	0	0
PANIPAT	6	0	1	8	5
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	3
SIRSA	2	0	0	0	2
SONIPAT	5	1	2	22	8
YAMUNANAGAR	16	1	1	23	10
Total	207	24	74	209	150

(c) Uttar Pradesh

District	15 Sep-06 Oct																	
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	0	0	3	4	MUZAFARNAGAR	2	0	0	0	0	
AGRA	0	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	3	1	2	7	0	
ALIGARH	7	0	1	34	12	GHAZIABAD	1	0	1	4	3	PRATAPGARH	0	0	0	0	0	
ALLAHABAD	0	0	0	0	0	GONDA	0	0	0	0	0	RAIBEARELI	1	0	0	0	0	
AMBEDKARNAGAR	0	0	0	0	0	GORAKHPUR	0	0	0	0	0	RAMPUR	2	5	0	1	0	
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	5	0	4	5	3	
AMROHA	0	0	0	2	0	HAPUR	2	0	0	0	0	SANTKABIRNAGAR	0	0	0	0	0	
AURAIYA	11	0	4	3	1	HARDOI	0	0	0	1	0	SANTRAVIDASNAGAR	0	0	0	0	0	
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	2	0	SHAHJAHANPUR	6	37	53	16	2	
BADAUN	0	0	0	0	2	JALAUN	0	0	0	0	0	SHAMLI	10	2	2	2	1	
BAGHPAT	1	0	0	0	0	JAUNPUR	0	0	0	0	0	SHARANPUR	4	0	0	0	0	
BAHRAICH	1	0	0	0	0	JHANSI	4	0	0	0	0	SHRAWASTI	0	0	0	0	0	
BALLIA	0	0	0	0	0	KANNAUJ	2	0	0	0	0	SIDDHARTHANAGAR	0	0	0	0	0	
BALRAMPUR	0	0	0	0	0	KANPUR	0	1	0	0	0	SITAPUR	3	0	0	0	0	
BANDA	0	0	0	0	0	KANPUR DEHAT	1	0	0	0	0	SONBHADRA	0	0	0	0	0	
BARABANKI	1	0	0	2	0	KASGANJ	1	0	0	0	0	SULTANPUR	0	0	0	0	0	
BAREILLY	4	0	0	2	0	KAUSHAMBI	1	0	0	1	0	UNNAO	2	0	0	0	0	
BASTI	0	0	0	0	0	KHERI	4	3	8	1	0	VARANASI	0	0	0	0	0	
BIJNOR	3	0	1	0	1	KUSHINAGAR	0	0	0	0	0	Total	101	52	80	106	40	
BULANDSAHAR	1	0	2	2	5	LALITPUR	0	1	2	0	0							
CHANDAULI	0	0	0	0	0	LUCKNOW	0	0	0	0	0							
CHITRAKOOT	0	0	0	0	0	MAHARAJGANJ	0	0	0	0	0							
DEORIA	0	0	0	2	0	MAHOBA	0	0	0	0	0							
ETAH	3	0	0	0	0	MAINPURI	0	1	0	1	0							
ETAWAH	0	0	0	0	0	MATHURA	2	1	0	11	2							
FAIZABAD	0	0	0	0	4	MAU	0	0	0	0	0							
FARRUKHABAD	0	0	0	0	0	MEERUT	8	0	0	2	0							
FATEHPUR	2	0	0	0	0	MIRZAPUR	0	0	0	0	0							
FIROZABAD	1	0	0	0	0	MORADABAD	1	0	0	2	0							

(d) Delhi

District	15 Sep-06 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	1	0
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	1	0

(e) Rajasthan

District	15 Sep-06 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	39	0	3	27	0
BARMER	2	0	0	0	0
BHARATPUR	0	0	0	1	0
BHILWARA	1	0	0	0	0
BIKANER	0	0	0	0	0
BUNDI	1	0	3	2	0
CHITTAURGARH	0	1	0	1	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	1	0	0	4	1
HANUMANGARH	11	0	1	9	10
JAIPUR	0	0	0	0	0
JAISELMER	2	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	0	0	0	3	0
JHUNJHUNUN	1	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	1	0	0	0	0
KOTA	11	0	1	17	0
NAGAU	0	0	0	0	0
PALI	1	0	0	0	0
PRATAPGARH	0	0	0	0	0
RAJSMAND	0	0	0	0	0
SIKAR	0	0	0	0	0
SIROHI	0	0	0	0	0
SWAIMADHOPUR	0	0	0	1	0
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
Total	74	1	8	65	12

(f) Madhya Pradesh

District	15 Sep-06 Oct										
	2020	2021	2022	2023	2024	PANNA	0	0	0	0	0
ALIRAJPUR	0	0	0	0	0	RAISEN	2	0	0	0	0
ANUPPUR	0	0	0	0	0	RAJGARH	1	0	2	2	0
ASHOKNAGAR	6	0	0	3	1	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	1	0	0	0	0
BARWANI	0	0	0	0	0	SAGAR	3	2	1	3	3
BETUL	0	0	0	0	0	SATNA	3	0	0	0	0
BHIND	0	0	0	2	0	SEHORE	4	0	1	4	3
BHOPAL	2	0	0	3	0	SEONI	0	0	0	0	0
BURHANPUR	0	0	0	0	0	SHAHDOL	0	0	0	0	0
CHHATARPUR	1	0	0	1	0	SHAJAPUR	4	0	0	2	0
CHHINDWARA	0	0	0	0	0	SHEOPUR	0	0	0	1	0
DAMOH	6	0	0	4	0	SHIVPURI	0	0	0	0	0
DATIA	2	0	0	2	0	SIDHI	0	0	0	0	0
DEWAS	2	0	0	1	1	SINGRAULI	0	0	0	0	2
DHAR	10	0	0	6	2	TIKAMGARH	0	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	5	0	0	3	1
EAST NIMAR	0	0	0	0	0	UMARIA	0	0	0	0	0
GUNA	6	1	1	11	0	VIDESHA	15	1	1	9	5
GWALIOR	6	0	1	2	0	WEST NIMAR	0	0	0	0	2
HARDA	7	6	0	3	0	Total	97	10	7	72	27
HOSHANGABAD	3	0	0	1	0						
INDORE	1	0	0	4	4						
JABALPUR	4	0	0	0	3						
JHABUA	0	0	0	0	0						
KATNI	0	0	0	0	0						
MANDLA	0	0	0	0	0						
MANDSAUR	0	0	0	0	0						
MORENA	3	0	0	4	0						
NARSHIMAPURA	0	0	0	0	0						
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-06 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
Total	1935	320	630	845	196	207	24	74	209	150	101	52	80	106	40

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
Total	3	0	2	1	0	74	1	8	65	12	97	10	7	72	27

Details of residue burning events in Punjab on 06-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	FATEHGARH SAHIB	KHAMANON	S-NPP	30.82823	76.33817	13:40:50	D	2.40
2	PATIALA	GHANAUR	S-NPP	30.34120	76.72253	13:40:50	D	3.60
3	SAS NAGAR	DERABASSI	S-NPP	30.61835	76.83263	13:40:50	D	5.40

Details of residue burning events in Haryana on 06-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA-II	S-NPP	30.22770	76.76424	13:40:50	D	2.40
2	AMBALA	AMBALA-II	S-NPP	30.26926	76.82587	13:40:50	D	2.80
3	AMBALA	AMBALA-II	S-NPP	30.27054	76.80463	13:40:50	D	5.60
4	AMBALA	BARARA	S-NPP	30.13567	77.05416	13:40:50	D	4.10
5	AMBALA	BARARA	S-NPP	30.22852	77.09630	13:40:50	D	5.00
6	FARIDABAD	FARIDABAD	S-NPP	28.34832	77.23255	02:30:07	N	0.90
7	FATEHABAD	BHUNA	S-NPP	29.42610	75.63839	13:40:50	D	3.00
8	JIND	NARWANA	S-NPP	29.64813	75.96733	13:40:50	D	6.40
9	KARNAL	CHIRAO	S-NPP	29.66721	76.88887	13:40:50	D	3.80
10	KURUKSHETRA	SHAHBAD	S-NPP	30.12441	76.76745	13:40:50	D	7.30
11	KURUKSHETRA	SHAHBAD	S-NPP	30.18897	76.89376	13:40:50	D	8.70
12	KURUKSHETRA	THANESAR	S-NPP	29.97210	76.90680	13:40:50	D	2.60
13	KURUKSHETRA	THANESAR	S-NPP	29.97520	76.93264	13:40:50	D	3.70
14	KURUKSHETRA	THANESAR	S-NPP	30.01137	76.85346	13:40:50	D	2.90
15	KURUKSHETRA	THANESAR	S-NPP	30.01832	76.91013	13:40:50	D	2.30
16	KURUKSHETRA	THANESAR	S-NPP	30.01919	76.91268	13:40:50	D	3.00
17	PALWAL	HASSANPUR	S-NPP	27.97559	77.44574	13:40:50	D	4.90
18	PANIPAT	MADLAUDA	S-NPP	29.44837	76.82498	13:40:50	D	3.80
19	PANIPAT	SAMALKHA	S-NPP	29.25196	77.06799	13:40:50	D	3.30
20	PANIPAT	SAMALKHA	S-NPP	29.27004	77.02873	13:40:50	D	2.20

21	SIRSA	BARAGUNDA	S-NPP	29.78703	75.21939	13:40:50	D	2.40
22	YAMUNANAGAR	CHHACHHRAULI	S-NPP	30.22833	77.36012	13:40:50	D	2.40
23	YAMUNANAGAR	RADAUR	S-NPP	30.06753	77.09699	13:40:50	D	2.60

Details of residue burning events in Uttar Pradesh on 06-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	GABHANA	S-NPP	28.09789	77.88153	13:40:50	D	3.00
2	ALIGARH	GABHANA	S-NPP	28.09911	77.88431	13:40:50	D	2.20
3	ALIGARH	GABHANA	S-NPP	28.13965	77.86181	13:40:50	D	2.80
4	ALIGARH	KHAIR	S-NPP	27.96376	77.60506	13:40:50	D	3.90
5	ALIGARH	KHAIR	S-NPP	27.96404	77.60223	13:40:50	D	3.90
6	ALIGARH	KHAIR	S-NPP	28.06993	77.53346	13:40:50	D	3.30
7	ALIGARH	KHAIR	S-NPP	28.10379	77.62375	13:40:50	D	5.30
8	ALIGARH	KOL	S-NPP	27.85145	78.17856	13:40:50	D	4.60
9	BADAUN	BISAU LI	S-NPP	28.33403	78.77414	13:40:50	D	1.80
10	BADAUN	BISAU LI	S-NPP	28.35529	78.77942	13:40:50	D	2.00
11	BULANSAHAR	ANUP SHAHR	S-NPP	28.40191	78.03658	13:40:50	D	8.10
12	BULANSAHAR	SHIKARPUR	S-NPP	28.20418	78.14276	13:40:50	D	4.40
13	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	S-NPP	28.35382	77.50195	13:40:50	D	1.60
14	MATHURA	CHHATA	S-NPP	27.78959	77.68447	13:40:50	D	3.20
15	MATHURA	CHHATA	S-NPP	27.79407	77.65724	13:40:50	D	6.70
16	SAMBHAL	CHANDAUSI	S-NPP	28.47703	78.72948	13:40:50	D	2.70
17	SAMBHAL	SAMBHAL	S-NPP	28.57264	78.44600	13:40:50	D	3.00

Details of residue burning events in Rajasthan on 06-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	HANUMANGARH	TIBI	S-NPP	29.52263	74.42911	13:40:50	D	27.10

Details of residue burning events in Madhya Pradesh on 06-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	JABALPUR	SAHPURA	S-NPP	23.16739	79.66145	13:40:50	D	2.80
2	JABALPUR	SAHPURA	S-NPP	23.16814	79.66161	13:40:50	D	5.20
3	SAGAR	GARHAKOTA	S-NPP	23.65304	79.19396	13:40:50	D	4.40
4	SAGAR	GARHAKOTA	S-NPP	23.65388	79.19619	13:40:50	D	4.50
5	SEHORE	AASHTA	S-NPP	23.05783	76.63718	13:40:50	D	2.00
6	SEHORE	NASRULLAHGANJ	S-NPP	22.64186	77.24762	13:40:50	D	3.90
7	SEHORE	NASRULLAHGANJ	S-NPP	22.64196	77.24697	13:40:50	D	4.00
8	UJJAIN	GHATIYA	S-NPP	23.39801	75.86249	13:40:50	D	3.10
9	VIDESHA	SIRANJ	S-NPP	24.12279	77.88775	13:40:50	D	5.90
10	VIDESHA	SIRANJ	S-NPP	24.12356	77.88577	13:40:50	D	4.00
11	WEST NIMAR	KHARGON	S-NPP	21.76505	75.55254	13:40:50	D	1.50
12	WEST NIMAR	MAHESHWAR	S-NPP	22.19576	75.81297	13:40:50	D	2.40

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 / 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: <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](#)
