

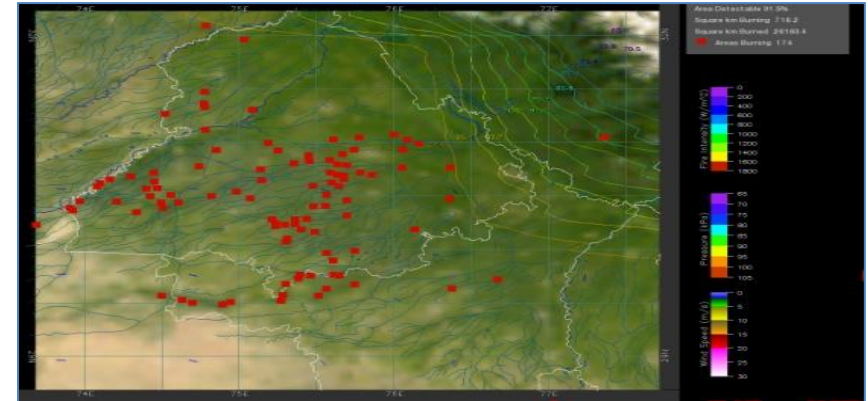
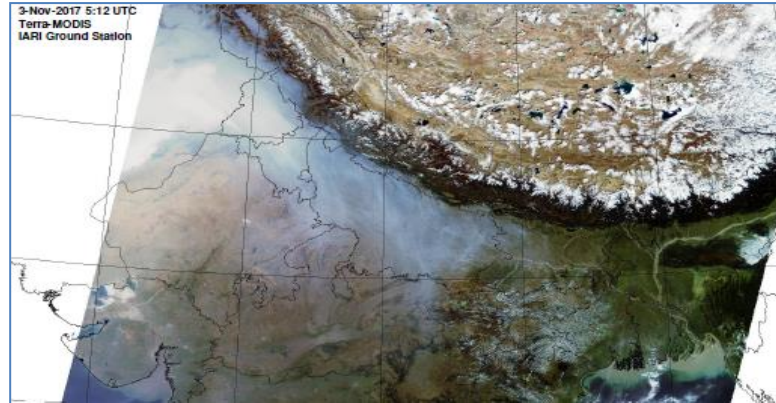


# MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin  
No. 17

Events Date:  
01-Oct-2024

Issued on:  
01-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

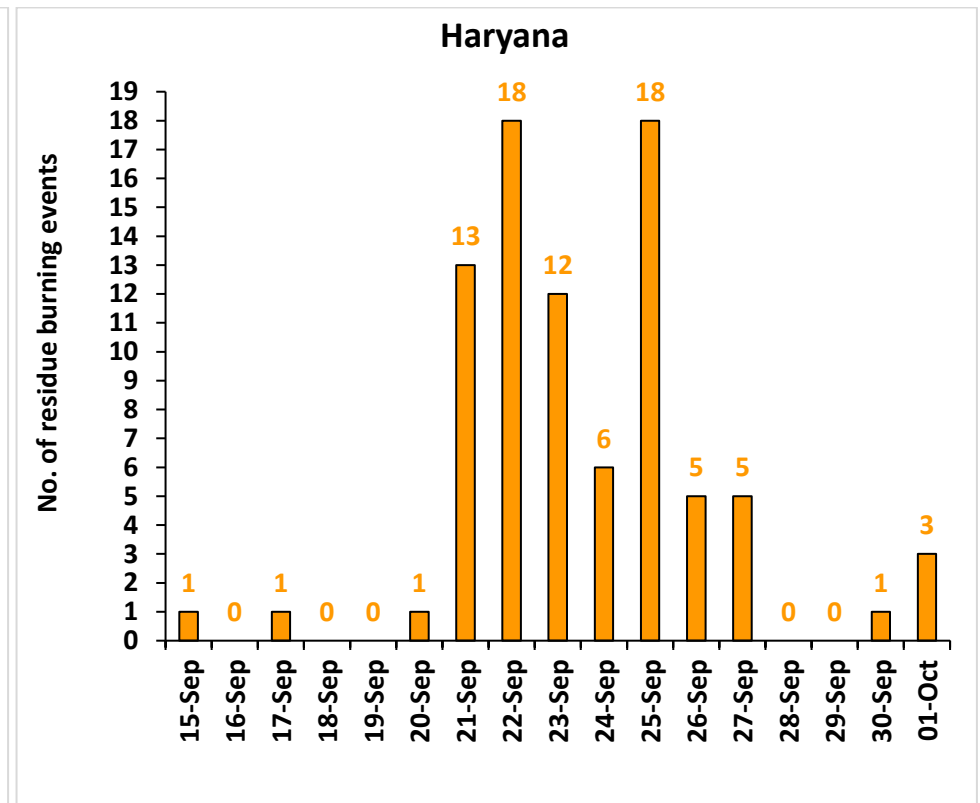
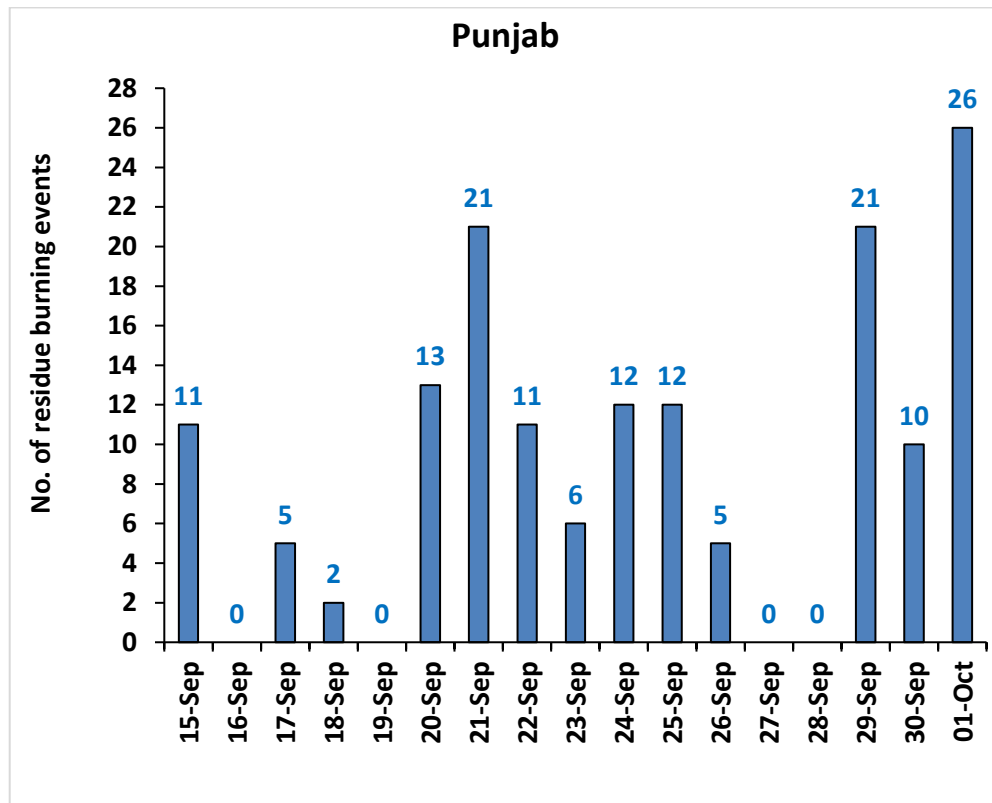
<https://creams.iari.res.in>



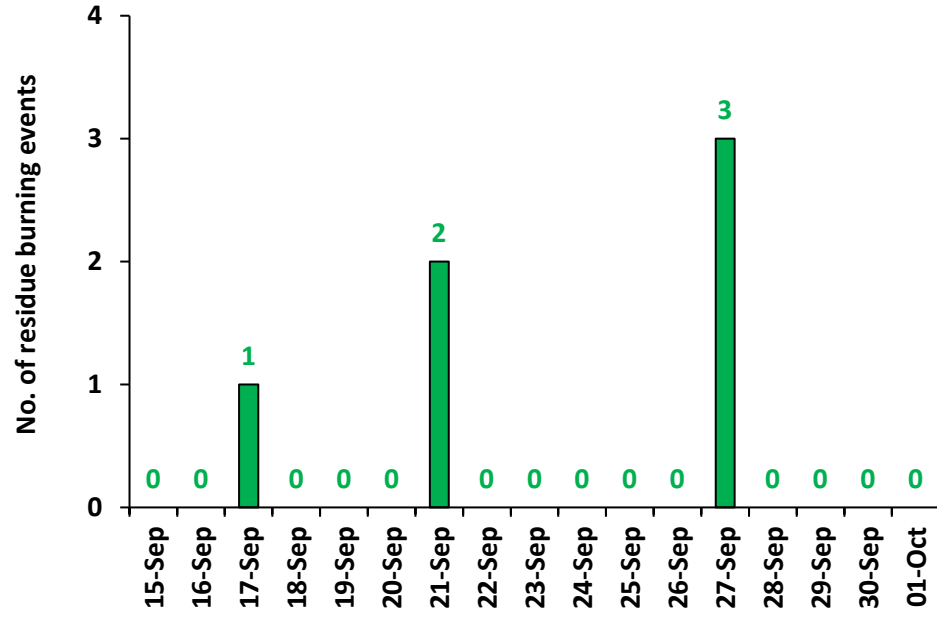
## Highlights for 01-Oct-2024

- 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 **33** residue burning events in the six study States on **01-Oct-2024**.
- The state wise events detected on **01-Oct-2024** were **26** in Punjab, **03** in Haryana, **00** in UP, **00** in Delhi, **01** in Rajasthan and **03** in MP.
- Total **262** burning events were detected in the six states between **15-Sept-2024** and **01-Oct-2024**, which are distributed as **155**, **84**, **06**, **00**, **06** and **11** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

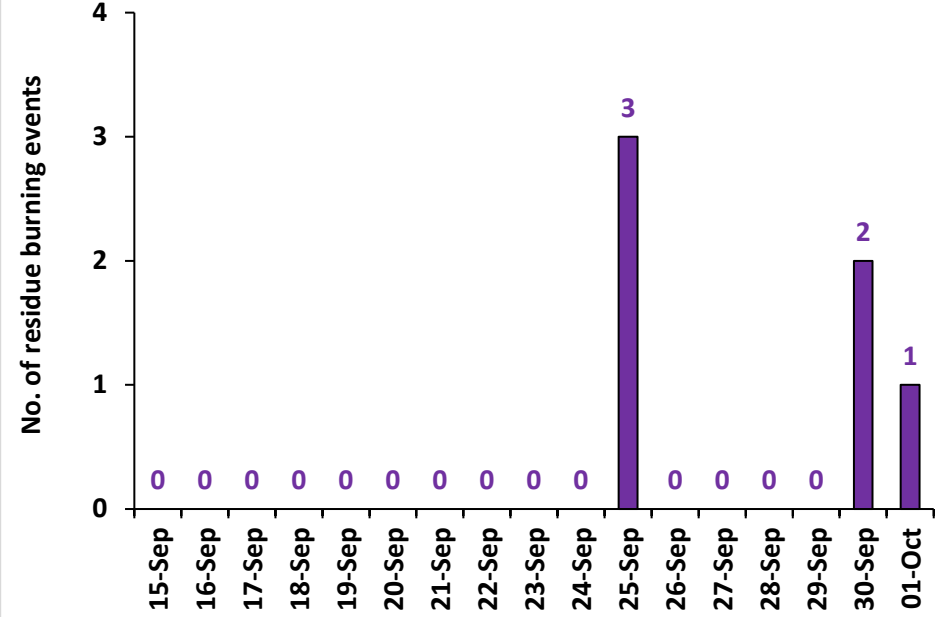
### Temporal distribution of rice residue burning events for the study States in 2024



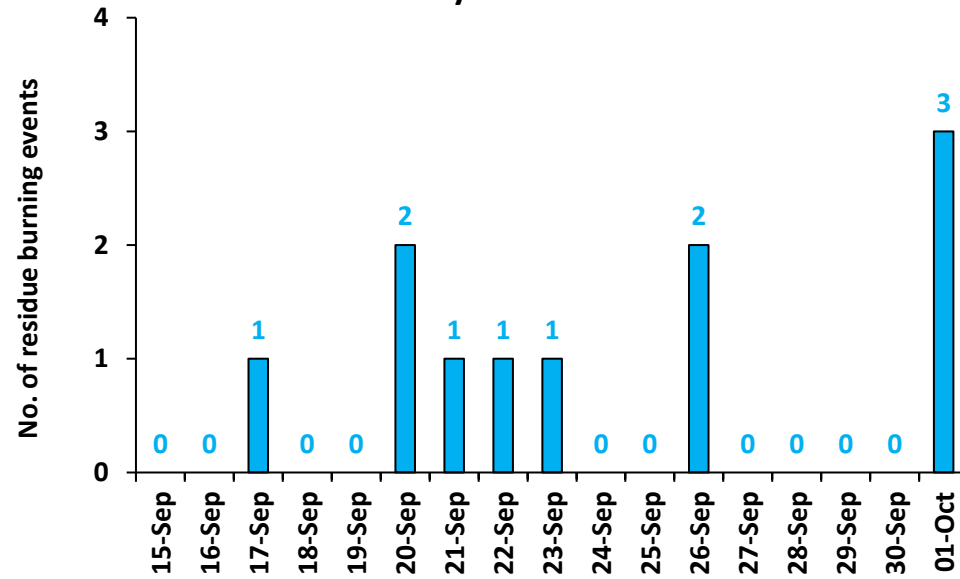
### Uttar Pradesh



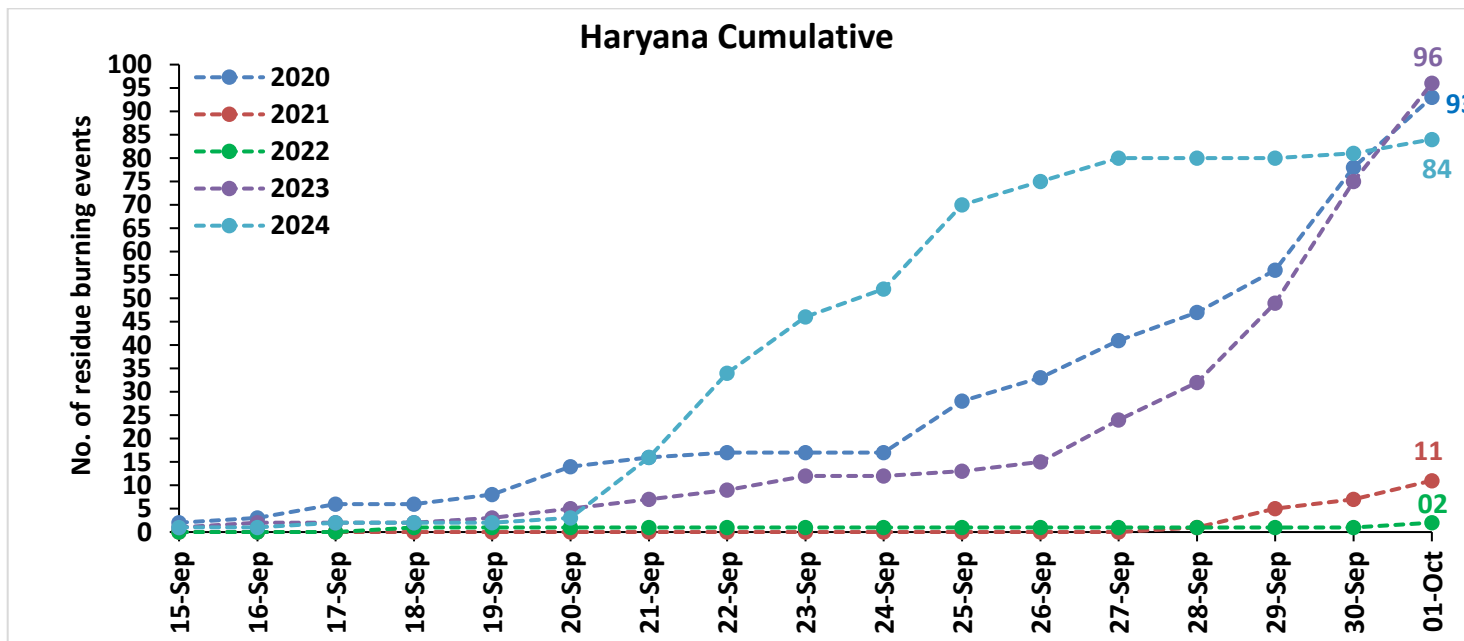
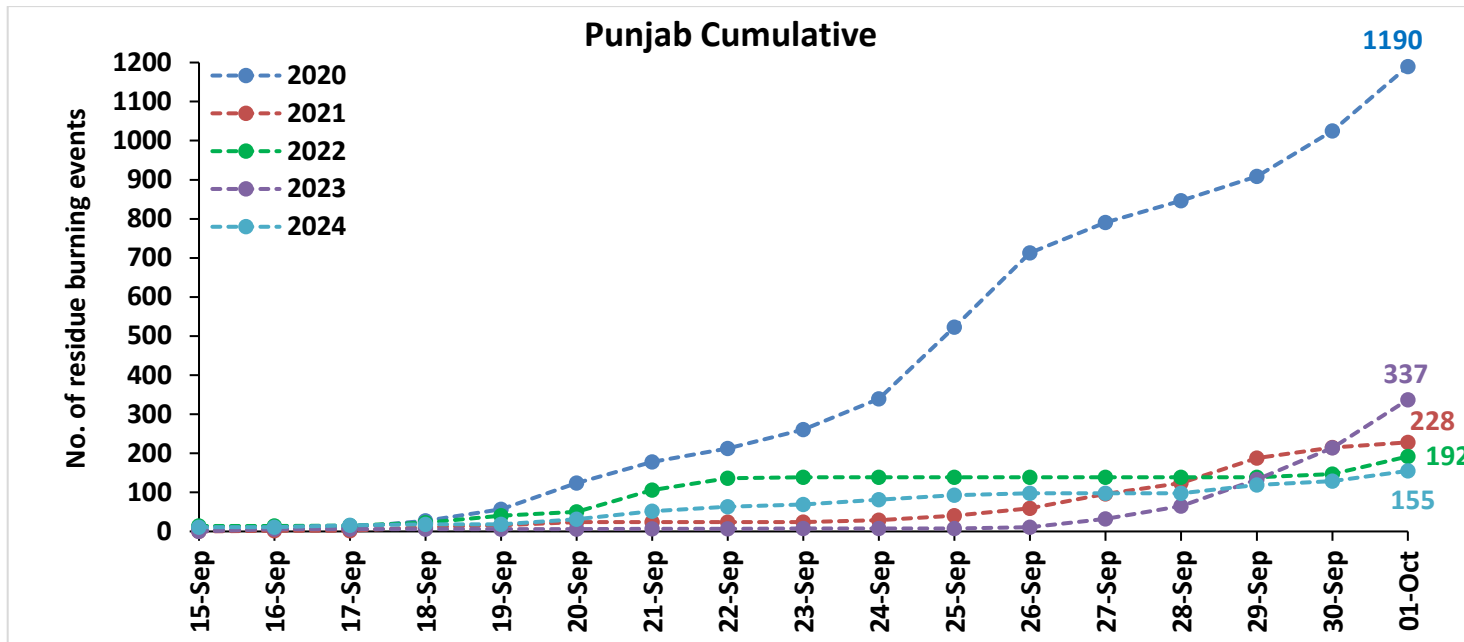
### Rajasthan

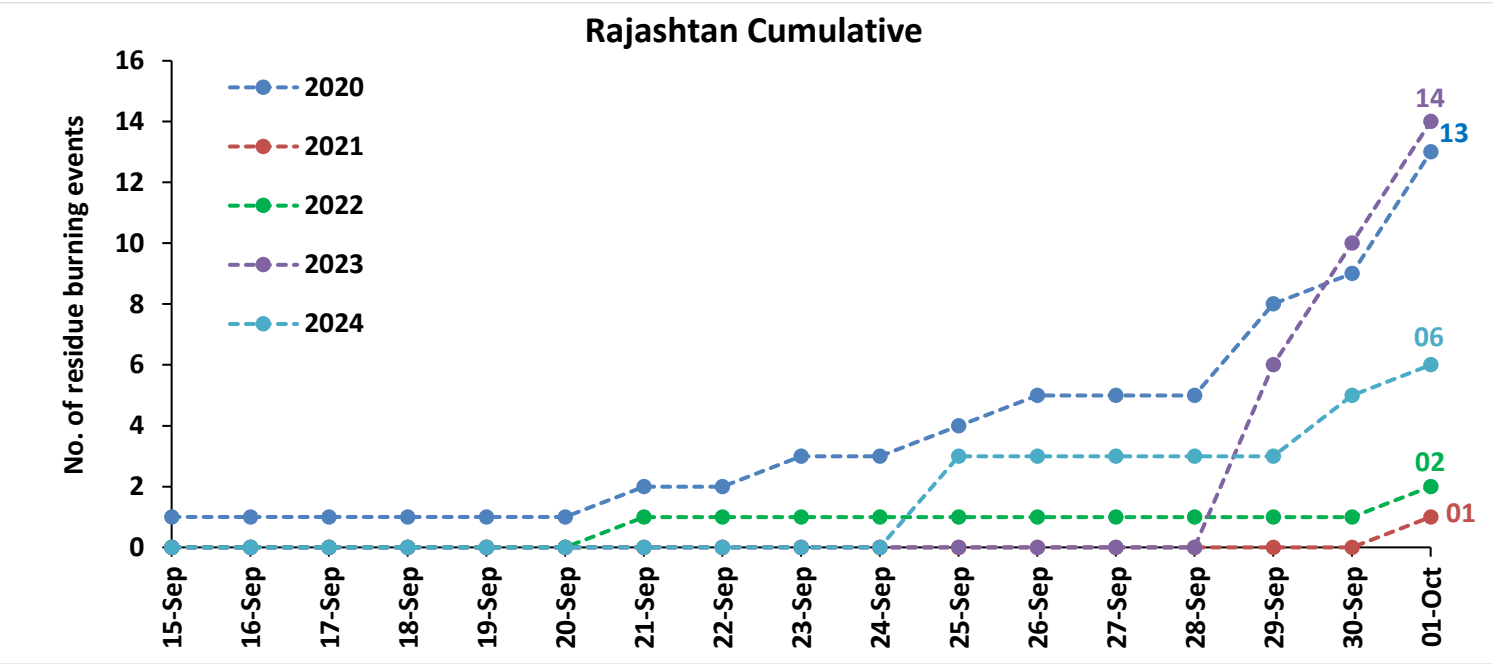
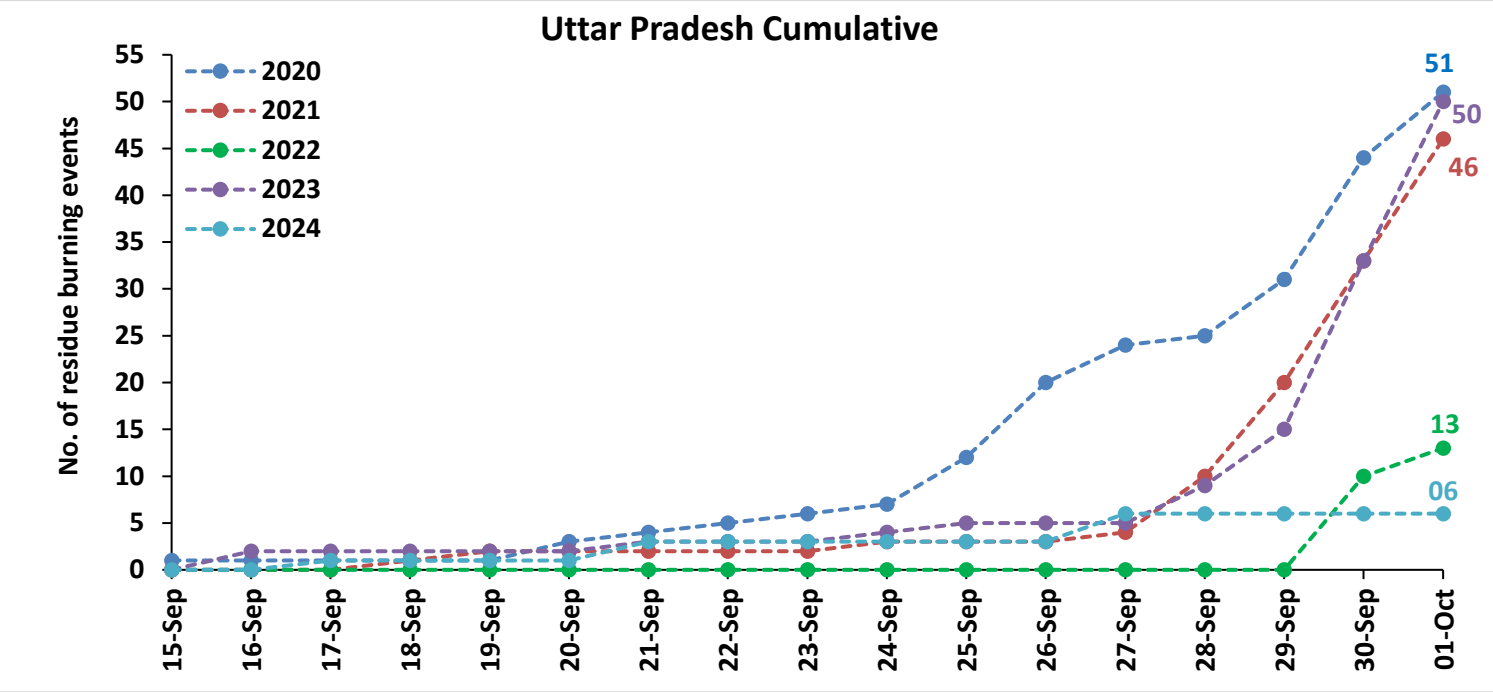


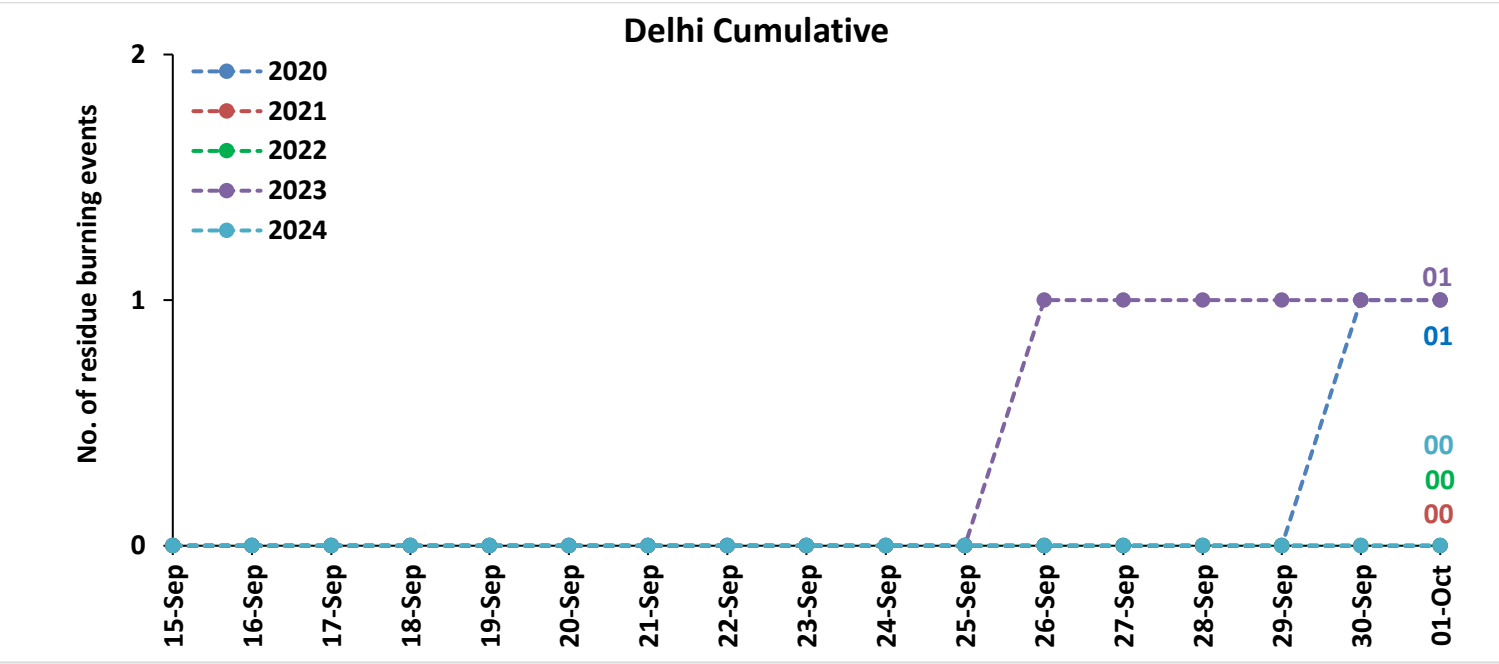
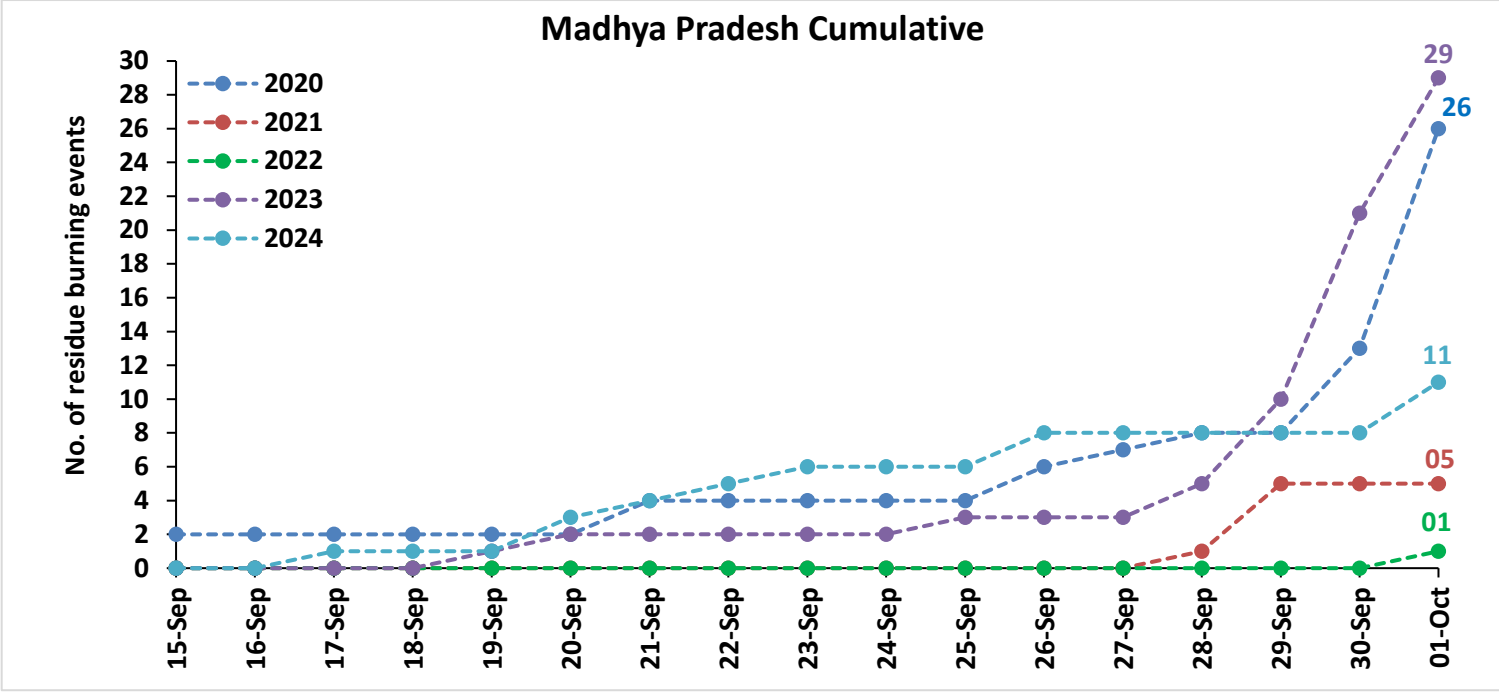
### Madhya Pradesh



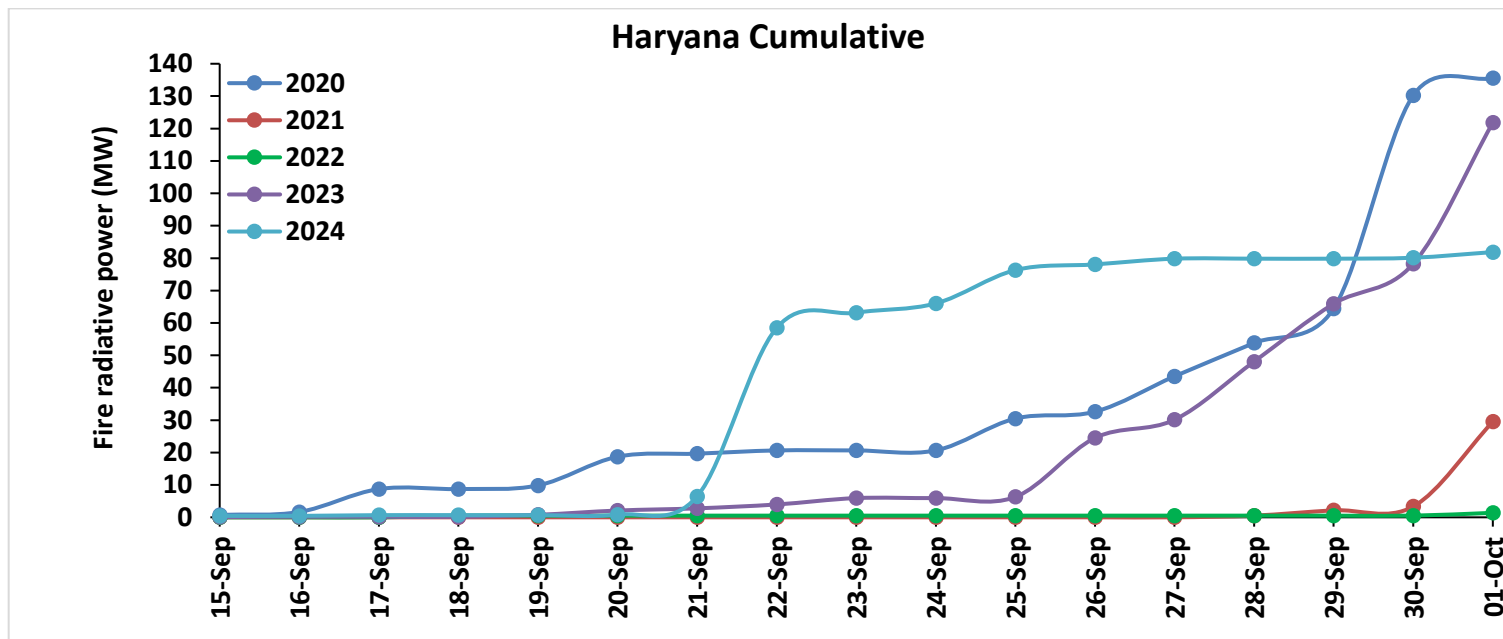
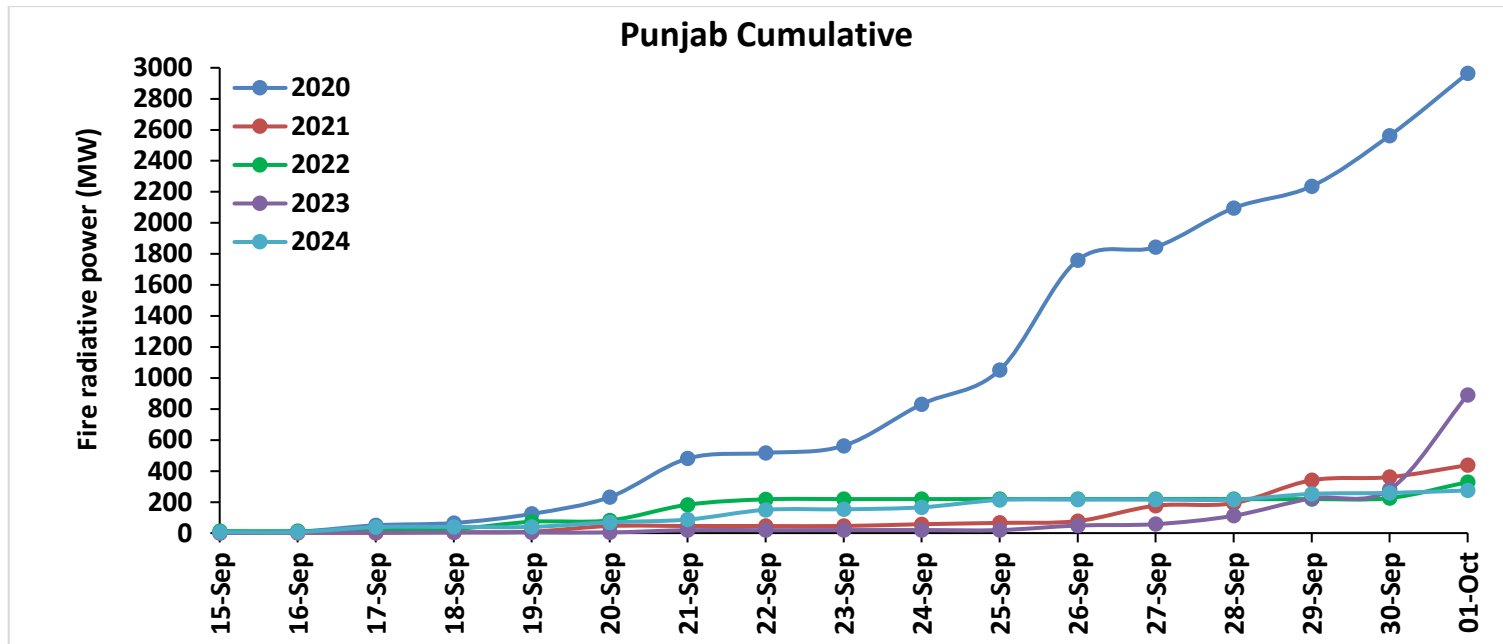
**Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States**

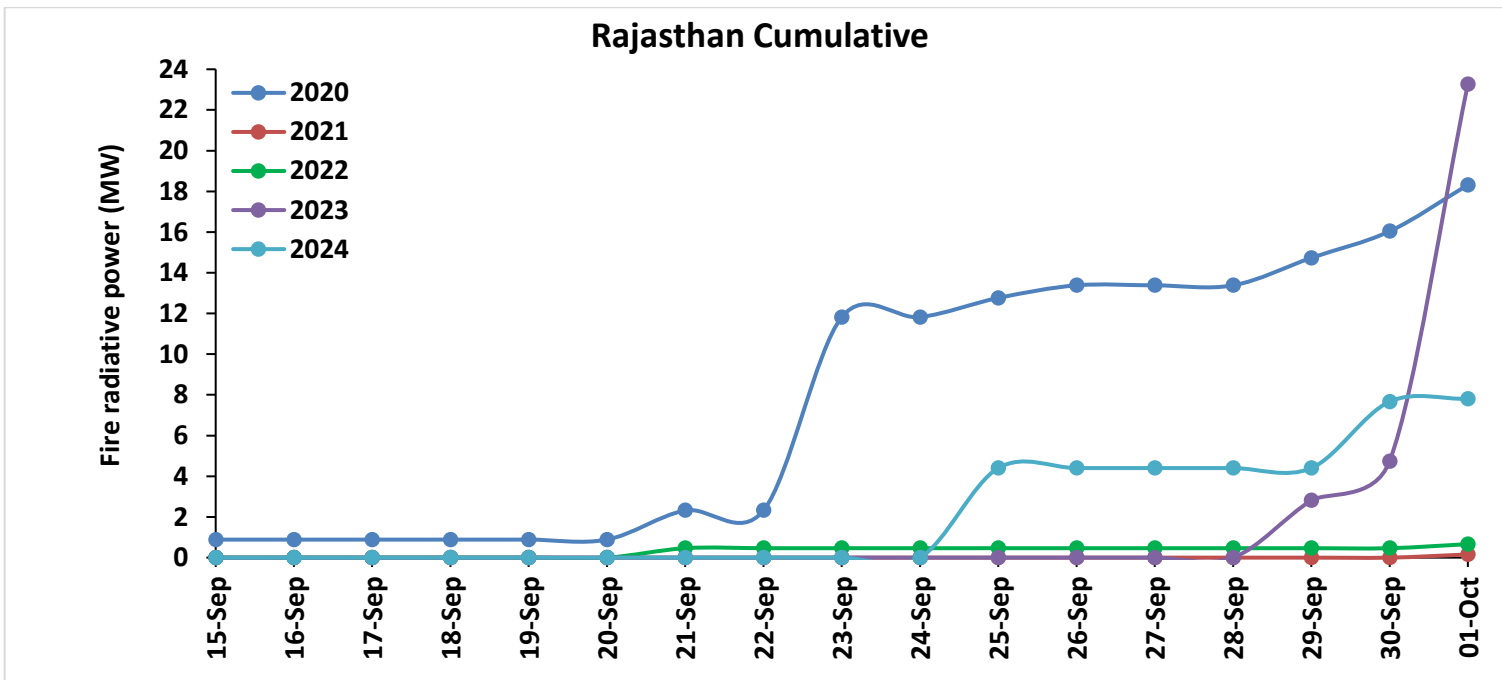
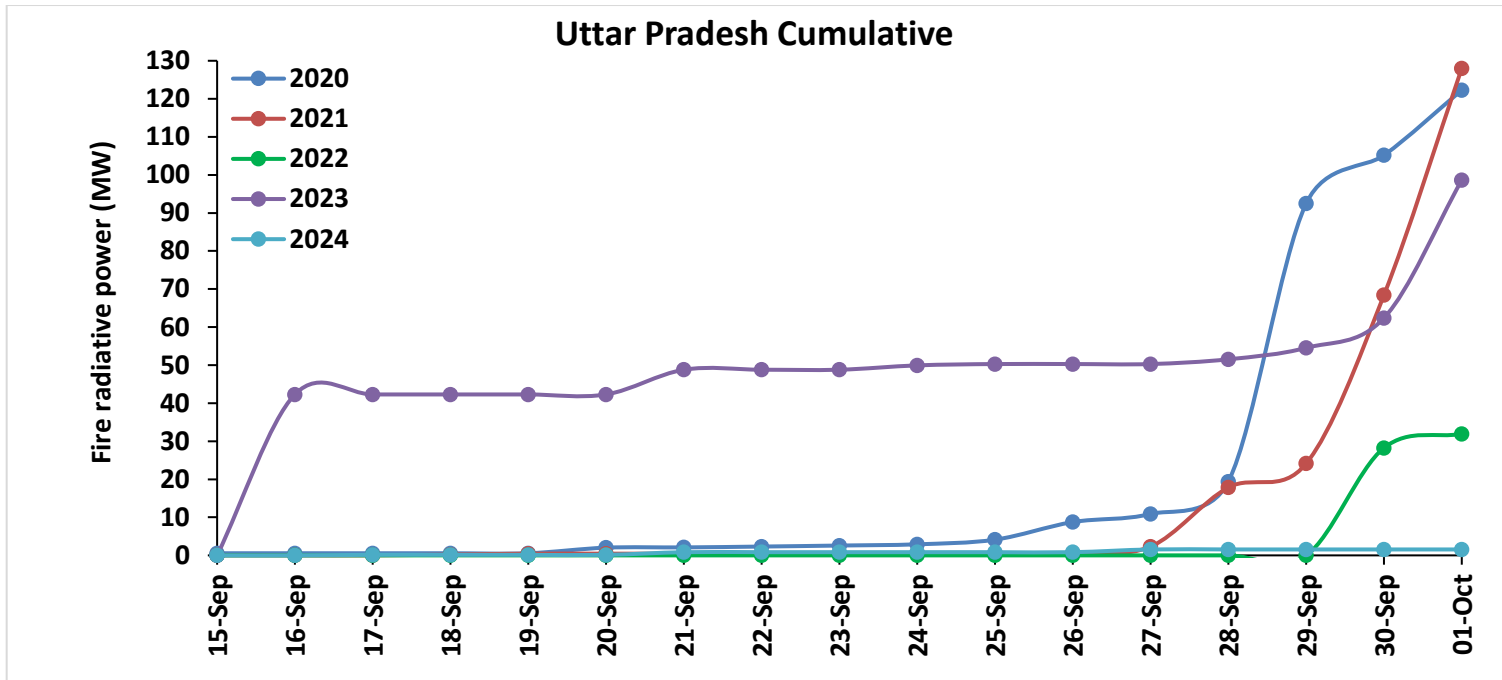




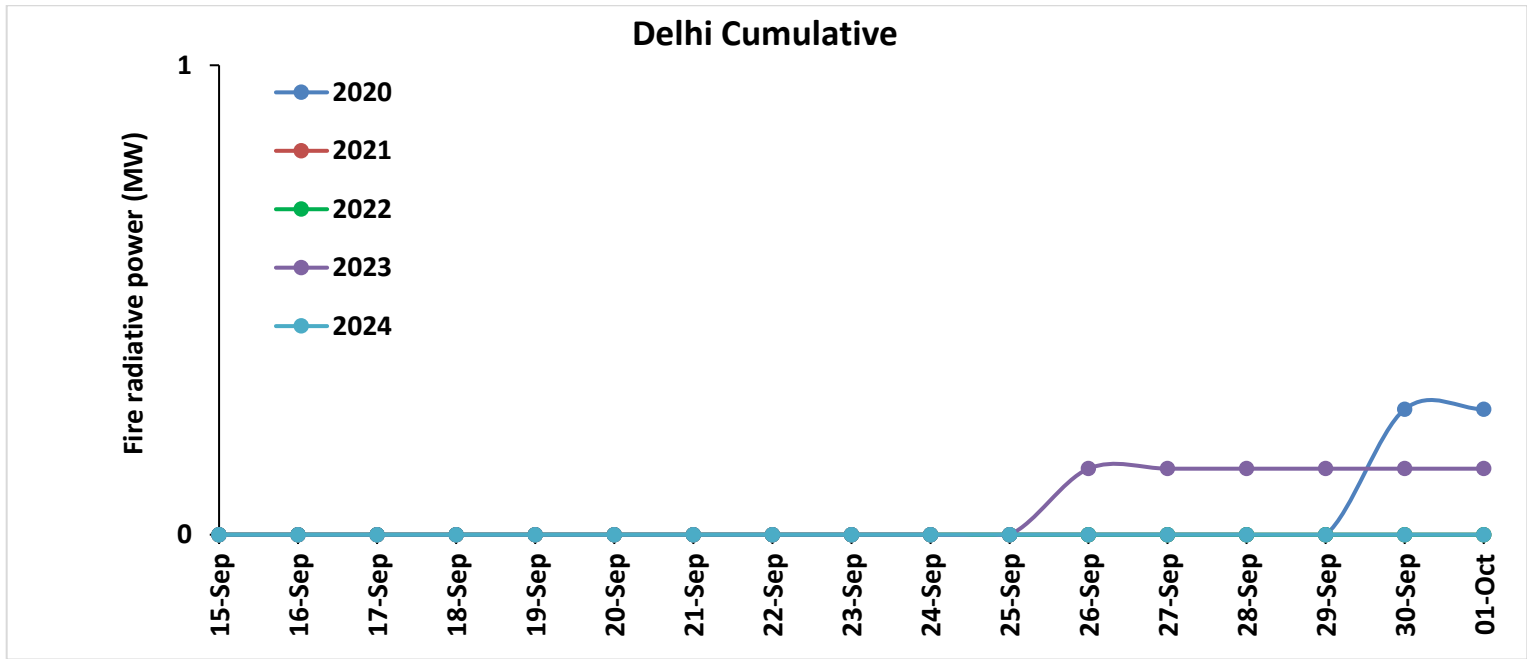
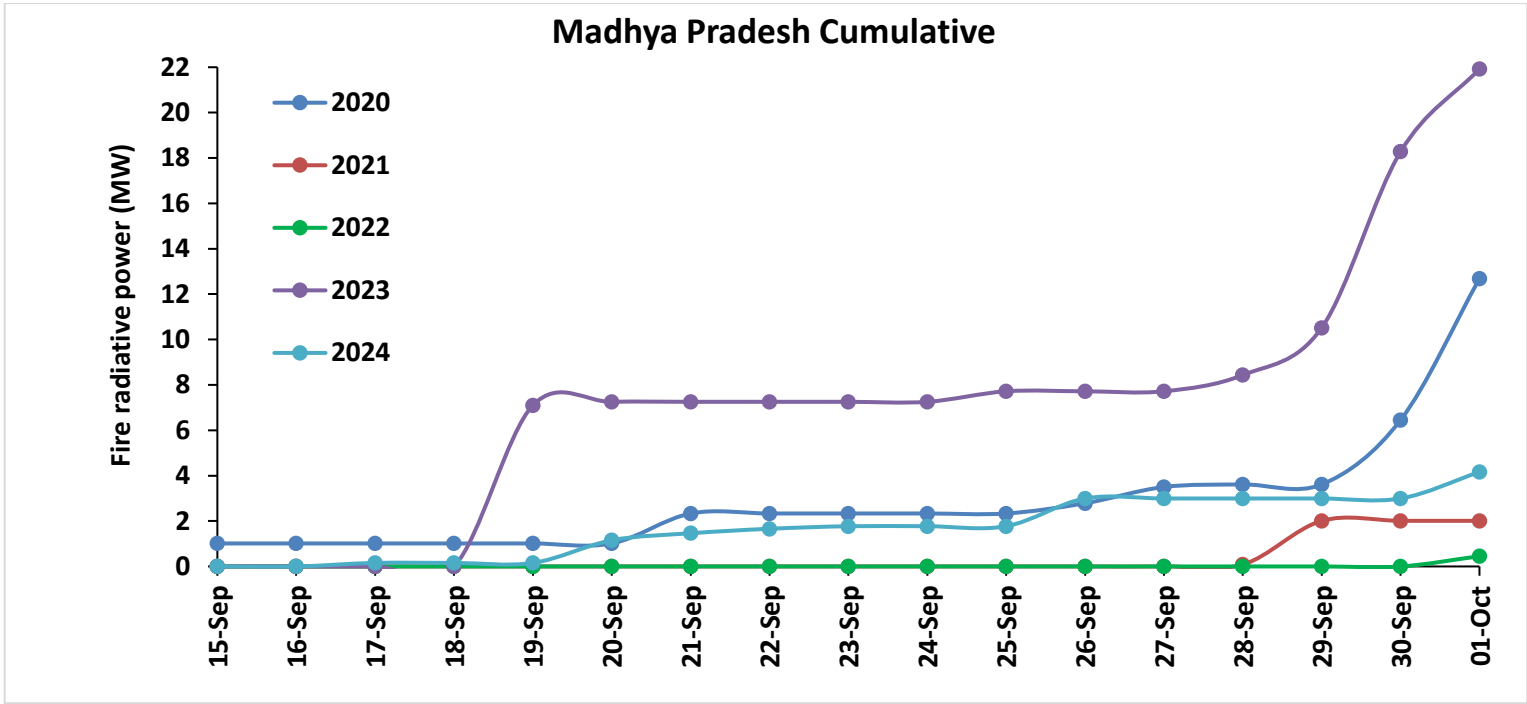


**Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States**



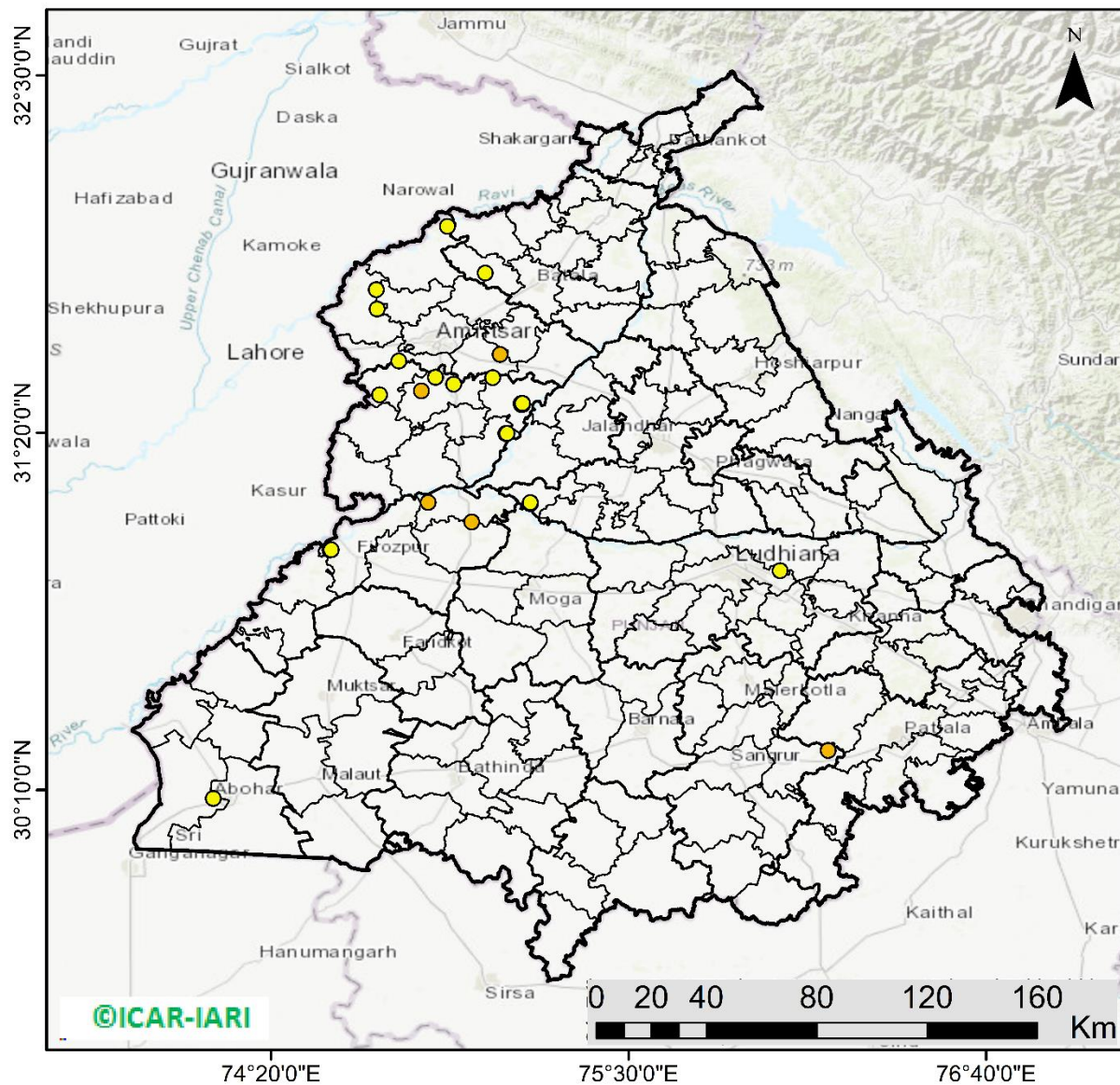






# Punjab

## RICE RESIDUE BURNING IN PUNJAB



**26** burning events detected in Punjab during (01st Oct 2024)

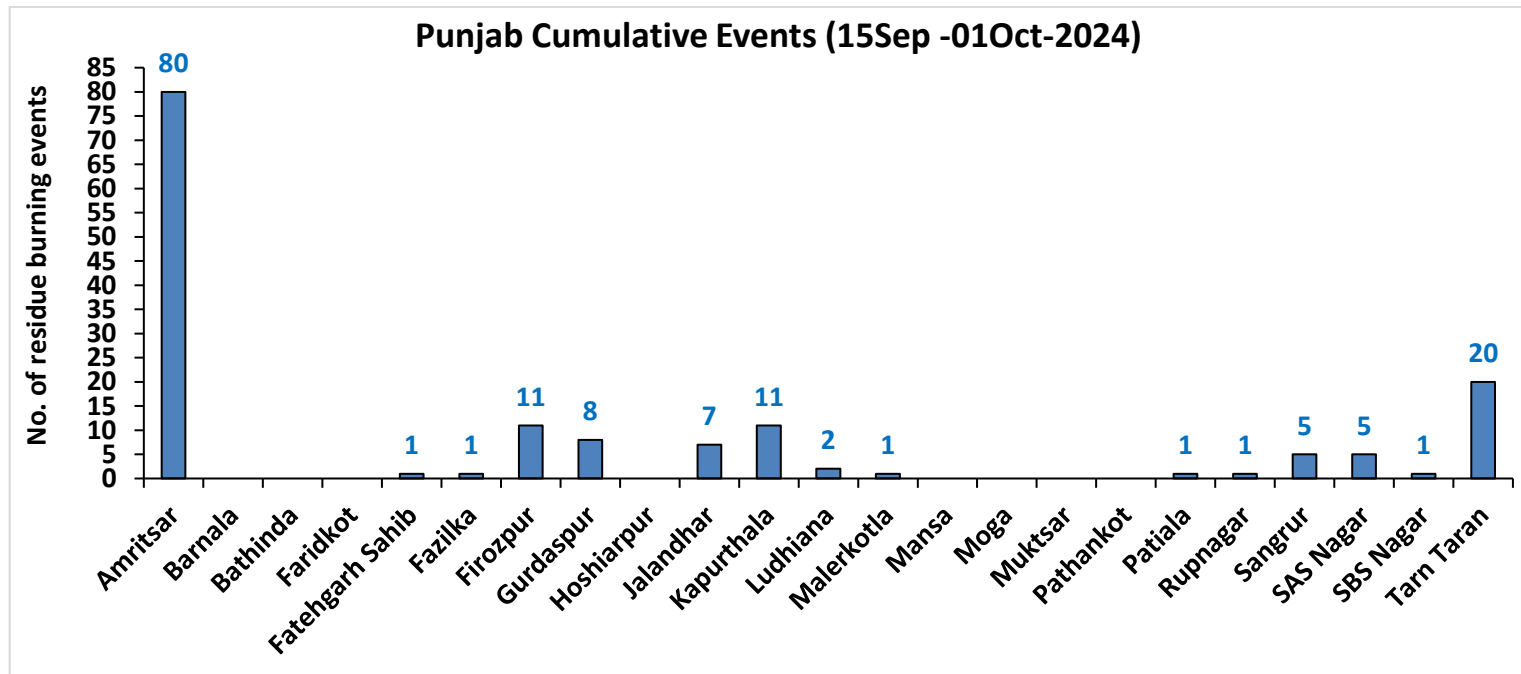
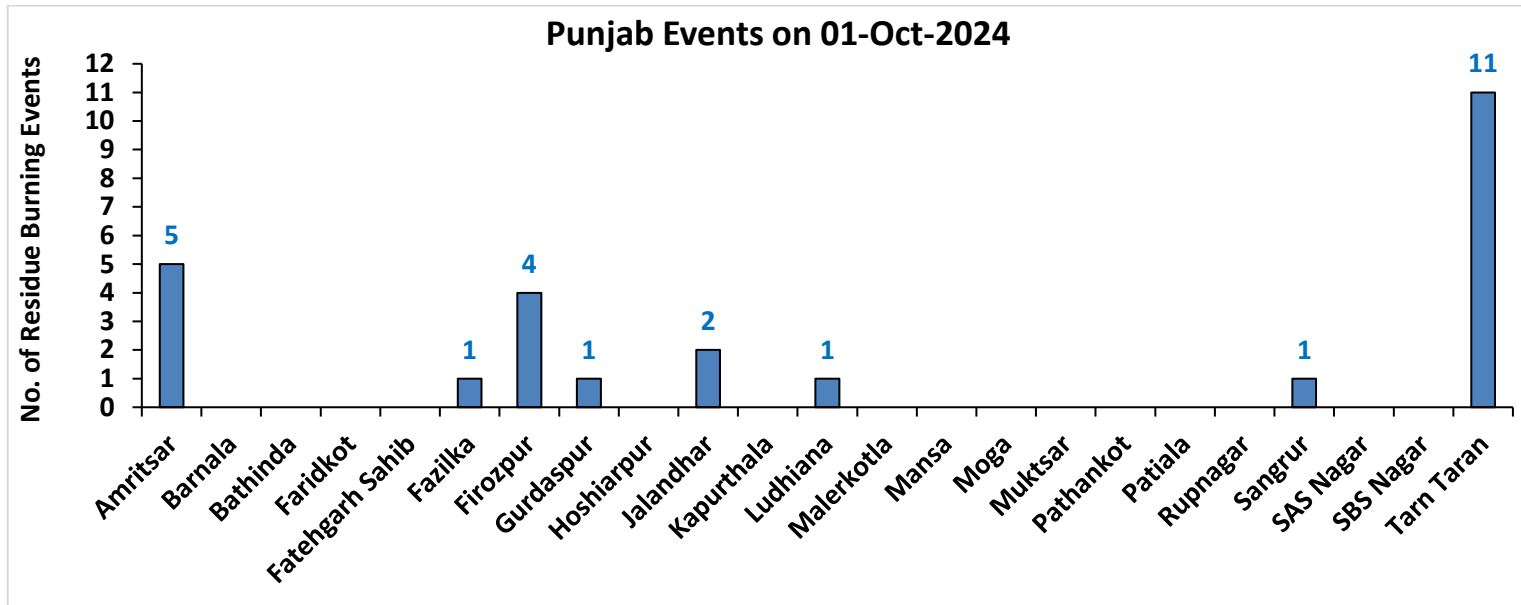
### Fire Intensity (W/m<sup>2</sup>)

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



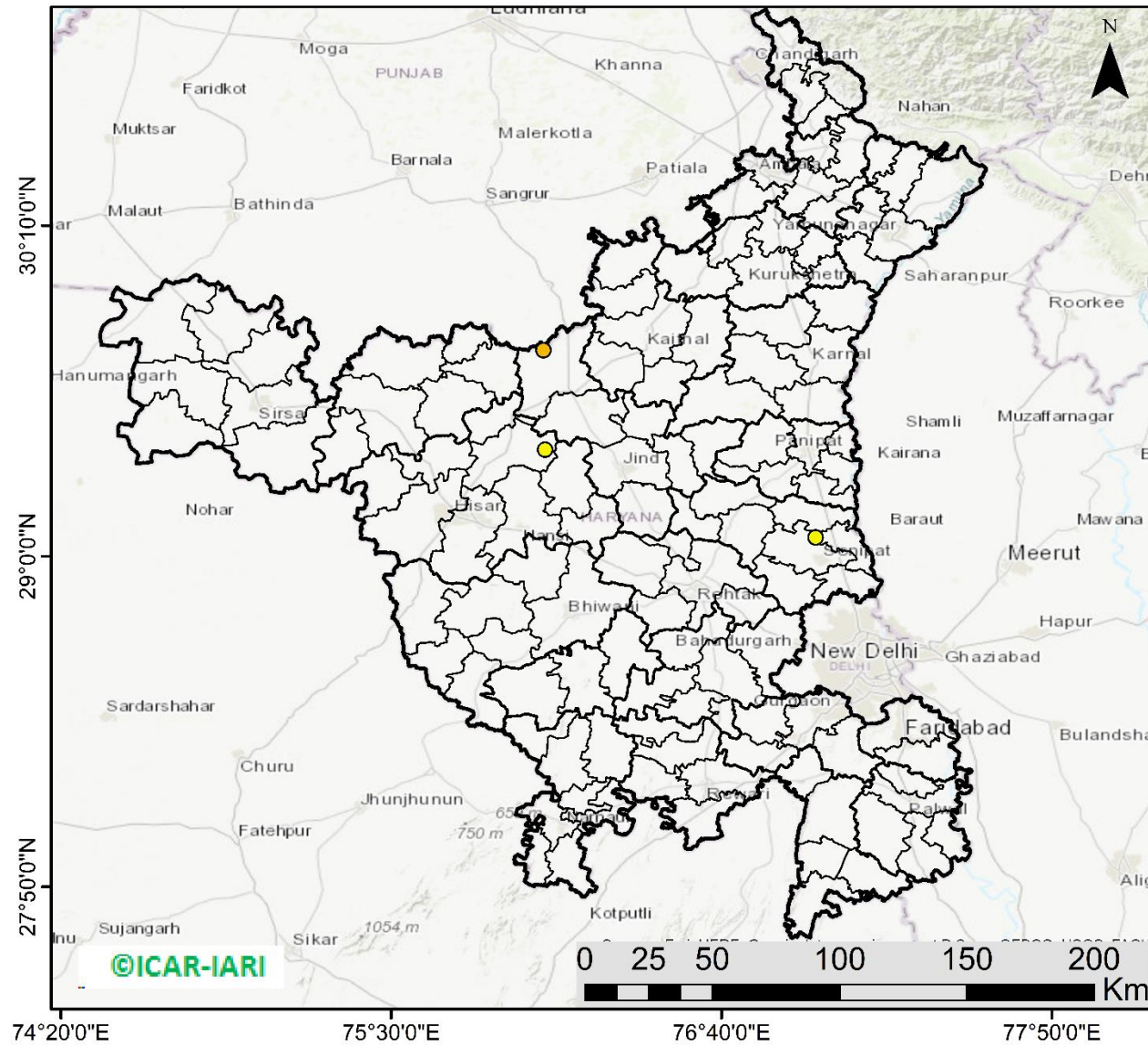
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Punjab (15Sep-01Oct-2024)



# Haryana

## RICE RESIDUE BURNING IN HARYANA



**03** burning events detected in Haryana on (01st Oct 2024)

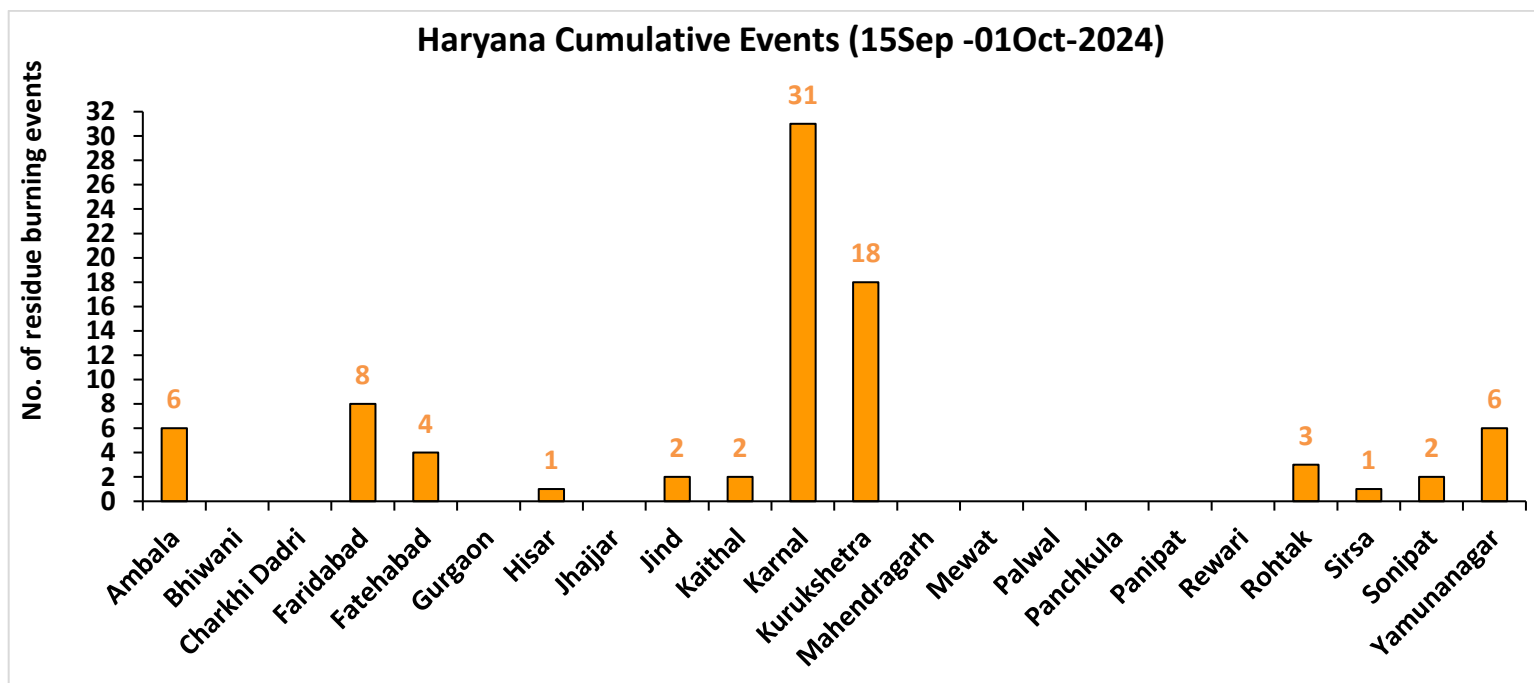
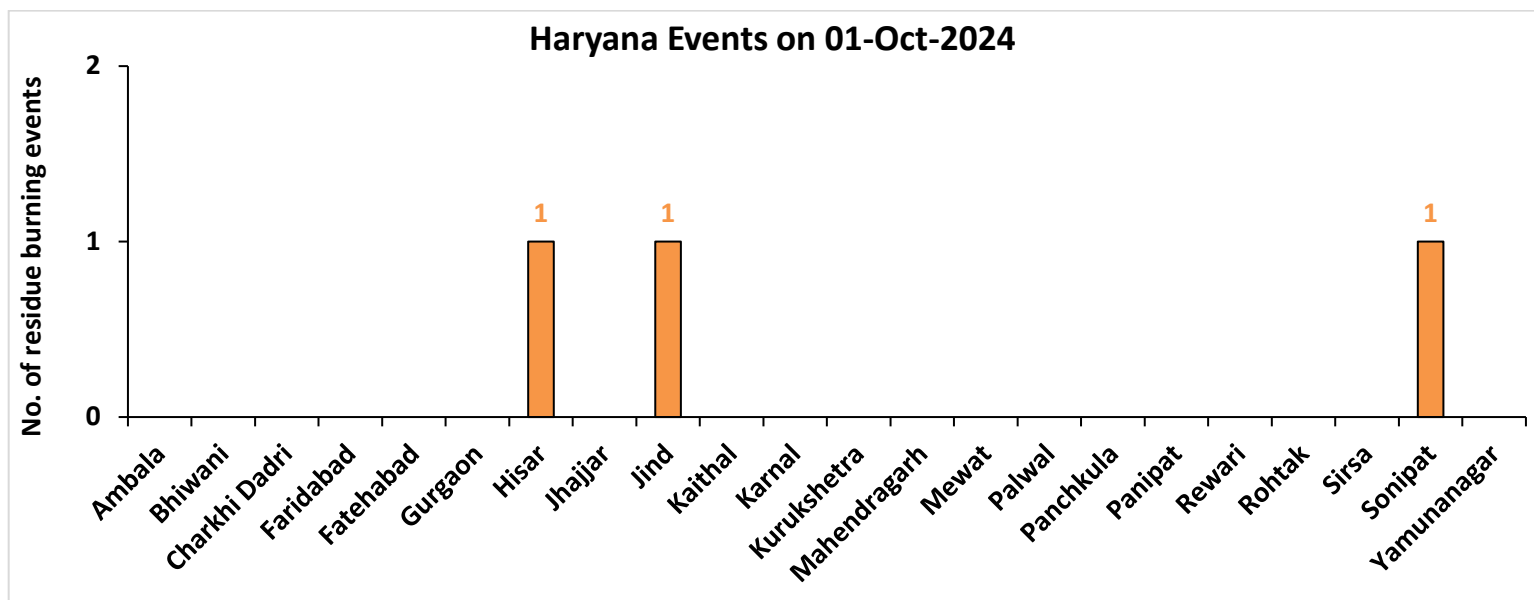
### Fire Intensity (W/m<sup>2</sup>)

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



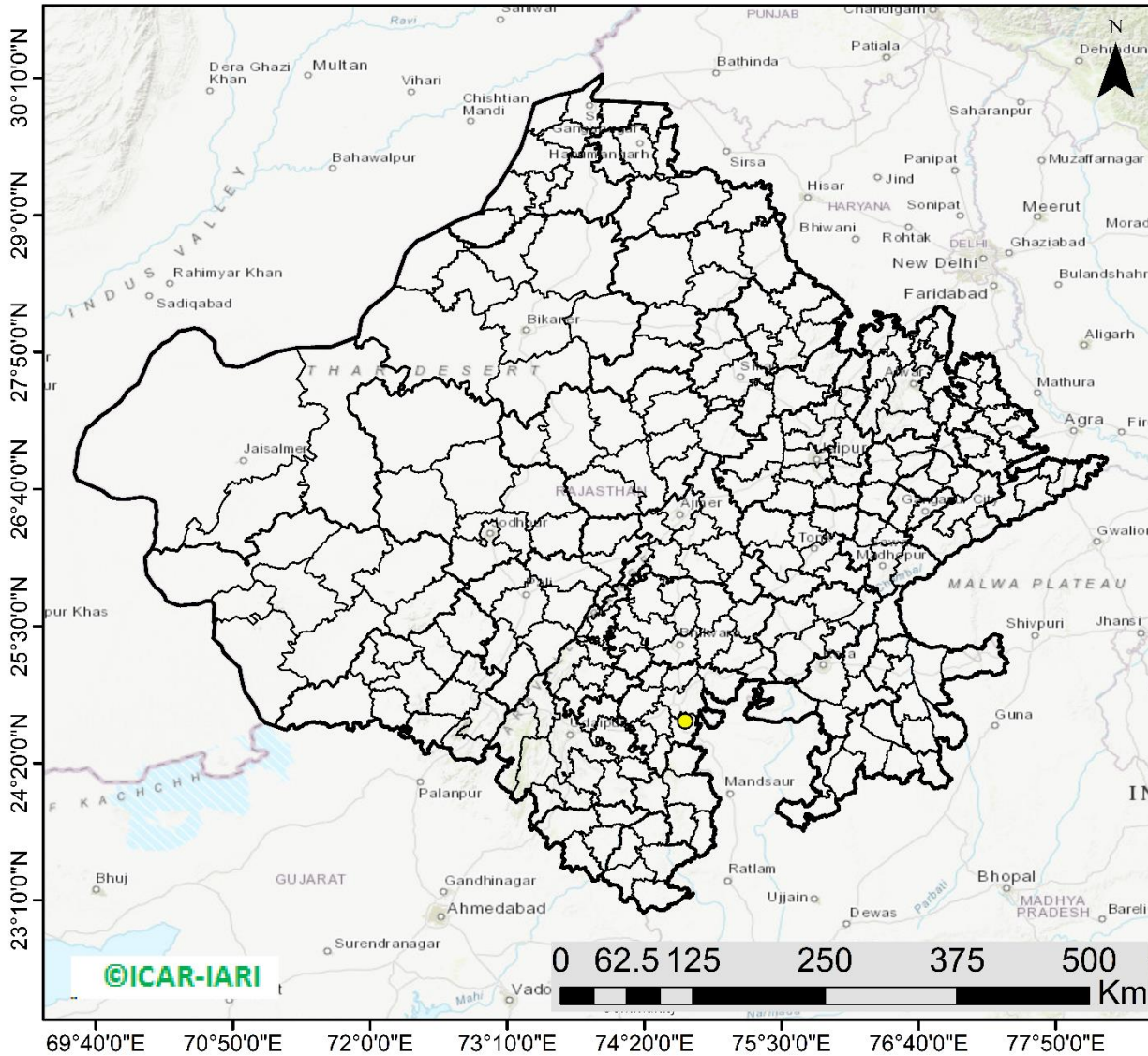
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Haryana (15Sep-01Oct-2024)



# Rajasthan

## RICE RESIDUE BURNING IN RAJASTHAN



**01** burning events detected in Rajasthan on (01st Oct 2024)

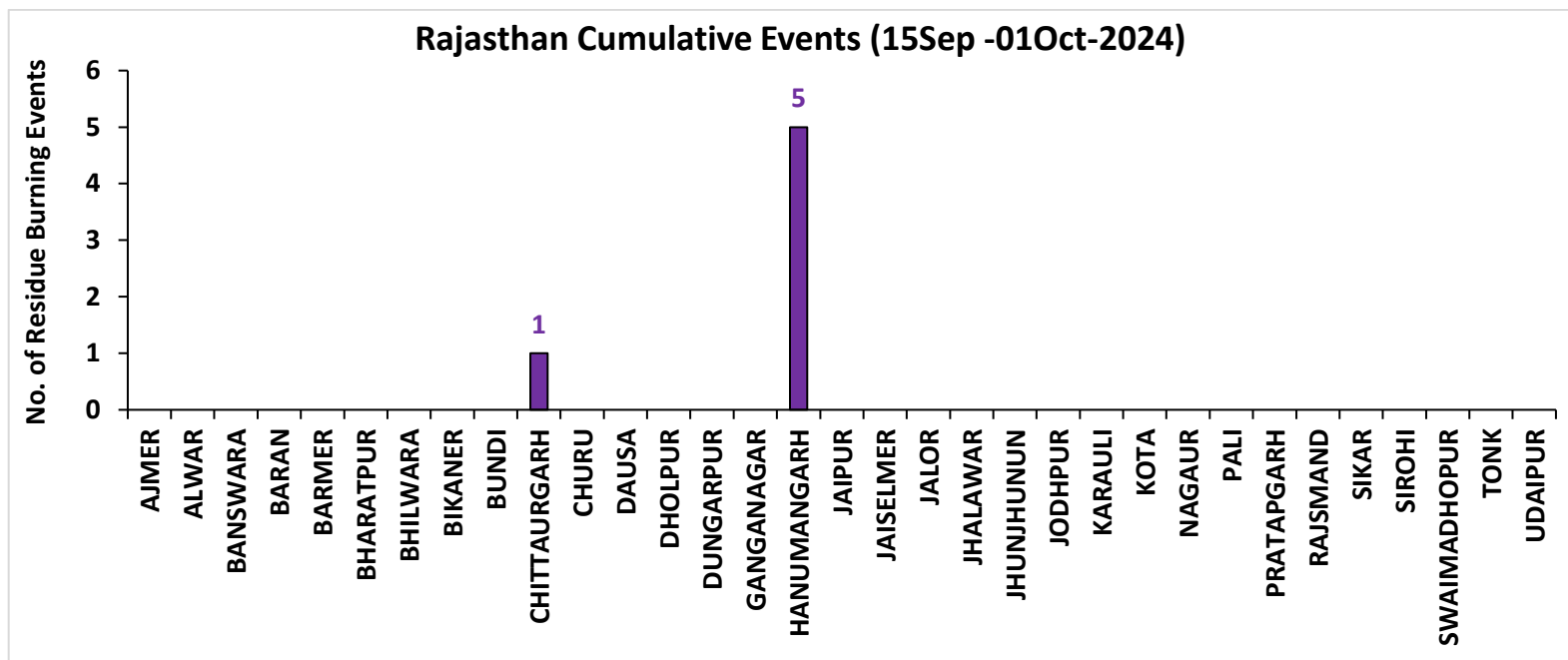
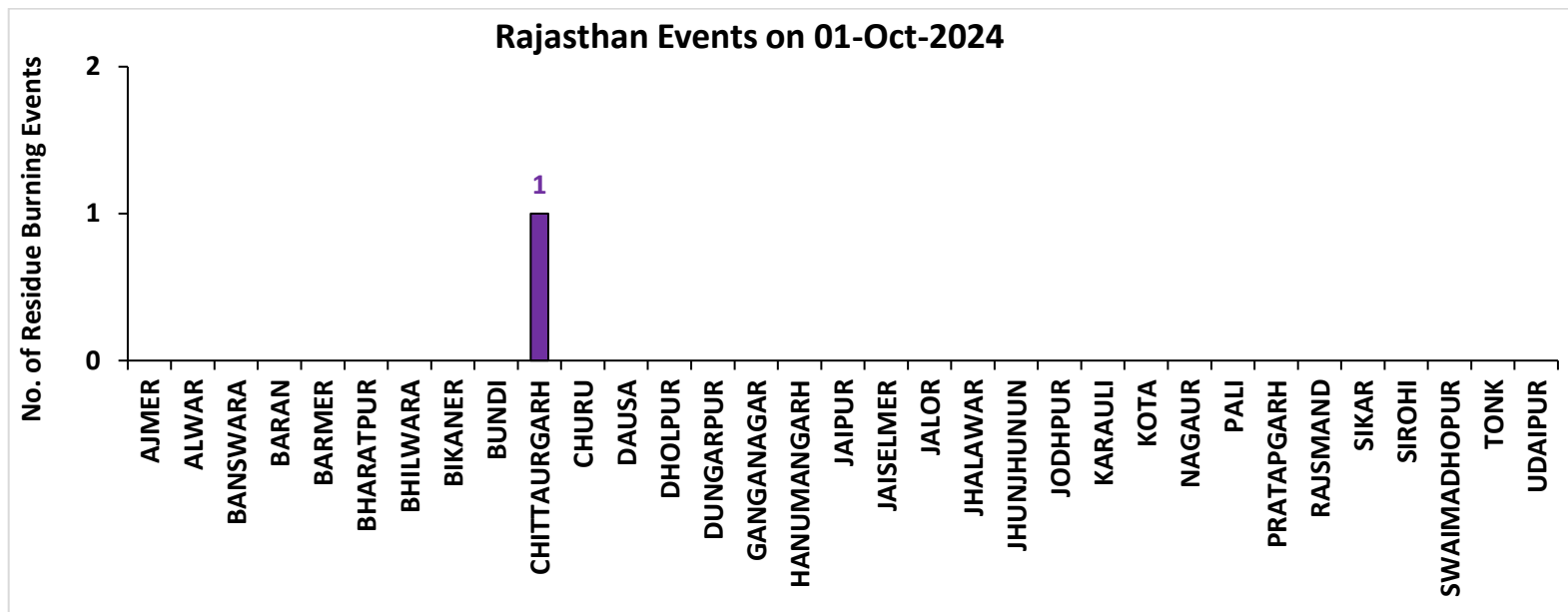
### Fire Intensity (W/m<sup>2</sup>)

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



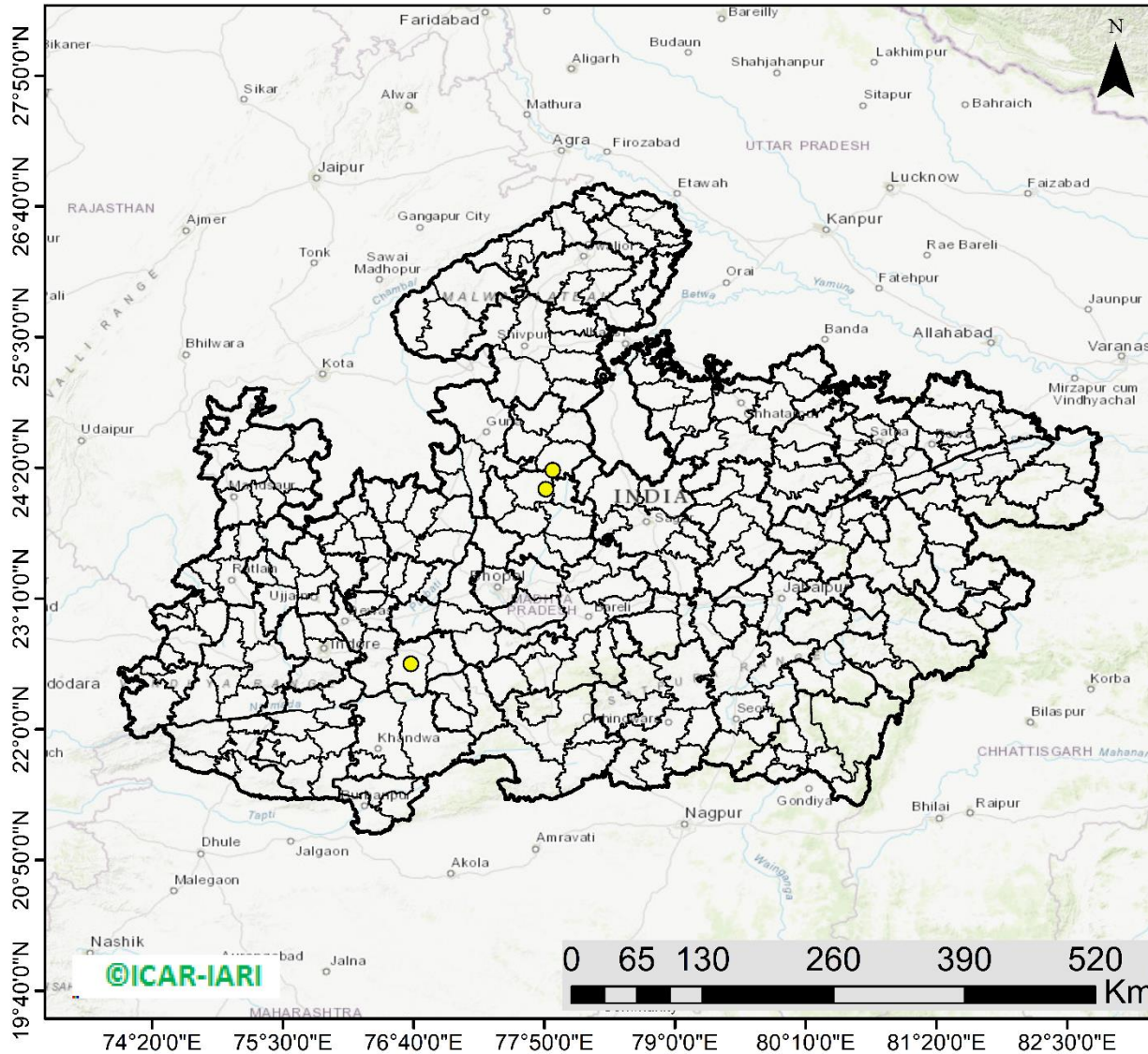
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Rajasthan (15Sep-01Oct-2024)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



**03** burning events detected in MP on (01st Oct 2024)

### Fire Intensity (W/m<sup>2</sup>)

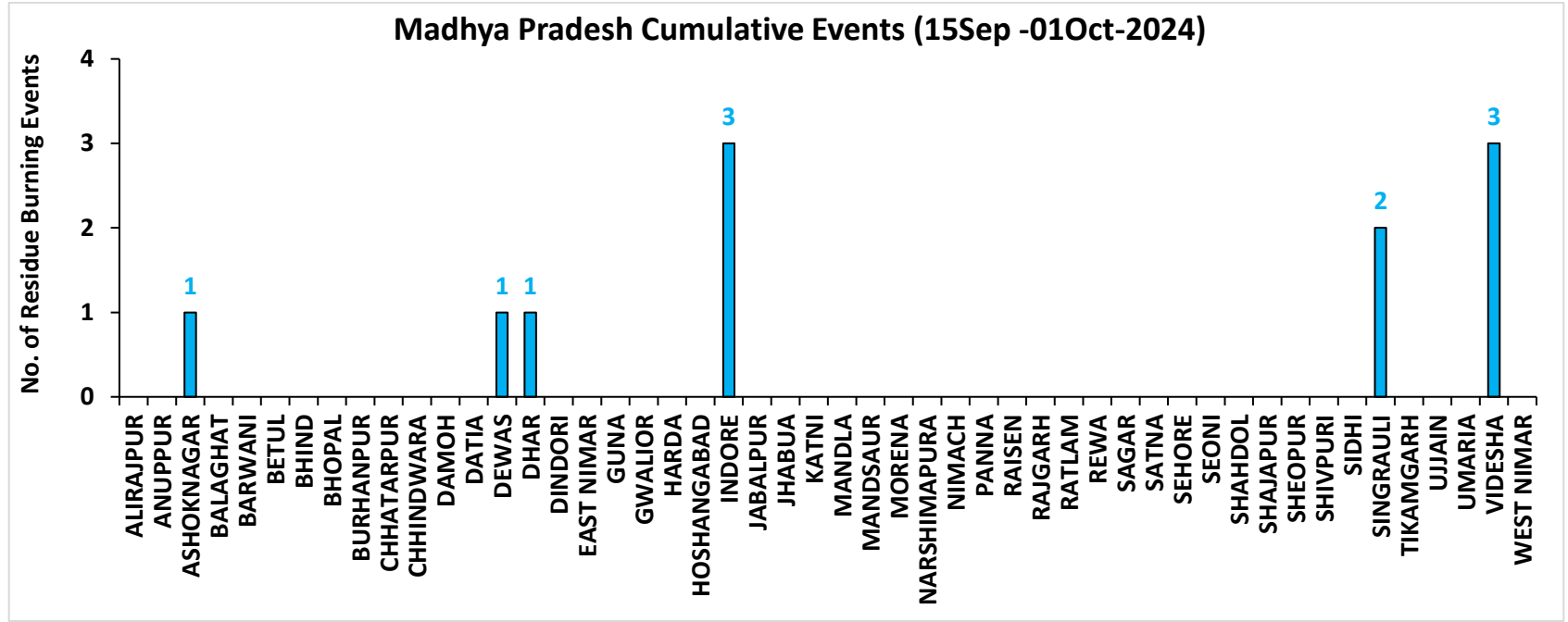
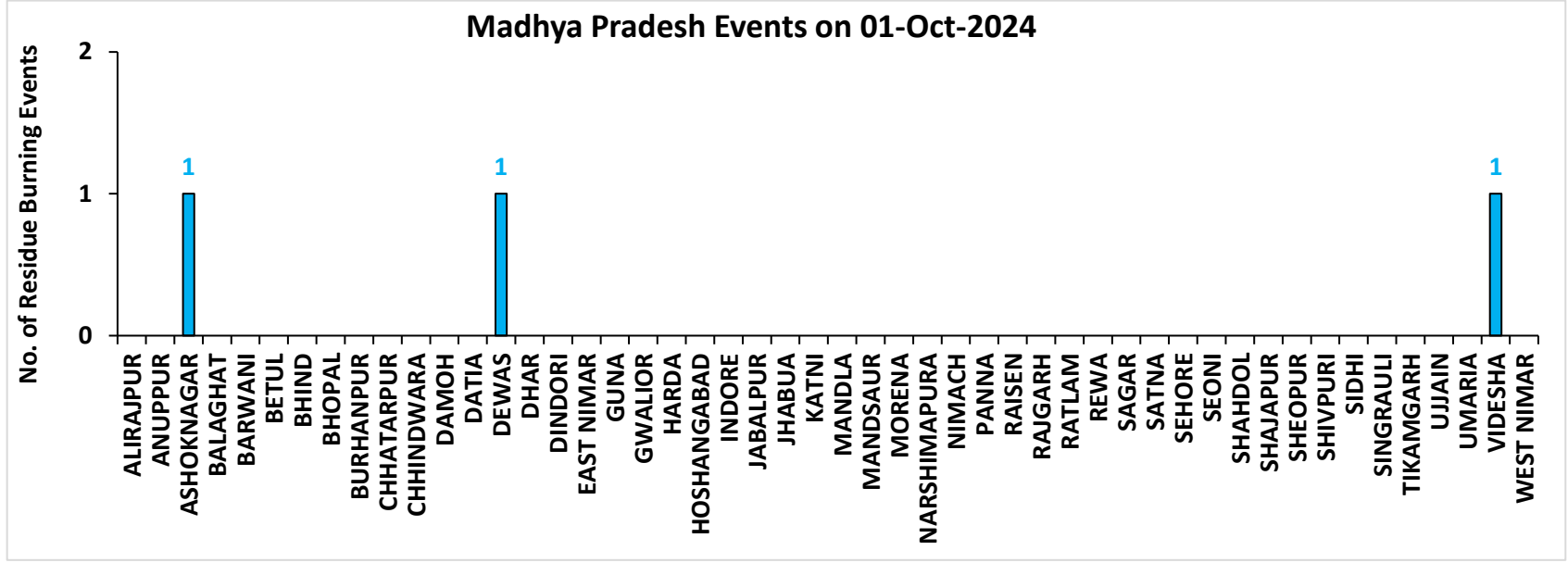
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



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



**District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-01Oct-2024)**



**District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024**  
**(Period: 15 September-01 October)**

**(a) Punjab**

District	15 Sep-01 Oct				
	2020	2021	2022	2023	2024
Amritsar	827	157	166	260	80
Barnala	2	0	0	0	0
Bathinda	0	0	0	0	0
Faridkot	3	9	0	1	0
Fatehgarh Sahib	8	0	1	1	1
Fazilka	0	1	0	0	1
Firozpur	12	3	2	3	11
Gurdaspur	40	4	1	4	8
Hoshiarpur	1	0	0	1	0
Jalandhar	6	1	1	2	7
Kapurthala	10	2	0	10	11
Ludhiana	21	7	0	3	2
Malerkotla	0	0	0	0	1
Mansa	1	0	0	1	0
Moga	6	0	0	0	0
Muktsar	1	0	1	0	0
Pathankot	0	0	0	0	0
Patiala	34	10	1	8	1
Rupnagar	1	0	0	0	1
Sangrur	9	3	0	2	5
SAS NAGAR (Mohali)	7	0	1	7	5
SBS Nagar	1	0	1	1	1
Tarn Taran	200	31	17	33	20
<b>Total</b>	<b>1190</b>	<b>228</b>	<b>192</b>	<b>337</b>	<b>155</b>

**(b) Haryana**

District	15 Sep-01 Oct				
	2020	2021	2022	2023	2024
AMBALA	13	0	0	12	6
BHIWANI	0	0	0	0	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	0	0	0	8
FATEHABAD	10	0	0	5	4
GURGAON	0	0	0	0	0
HISAR	2	0	0	0	1
JHAJJAR	0	0	0	0	0
JIND	0	0	1	4	2
KAITHAL	11	1	0	3	2
KARNAL	28	2	1	14	31
KURUKSHETRA	16	7	0	23	18
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	1	0	0	3	0
PANCHKULA	0	0	0	0	0
PANIPAT	4	0	0	4	0
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	3
SIRSA	1	0	0	0	1
SONIPAT	1	0	0	15	2
YAMUNANAGAR	6	1	0	12	6
<b>Total</b>	<b>93</b>	<b>11</b>	<b>2</b>	<b>96</b>	<b>84</b>

(c) Uttar Pradesh

District	15 Sep-01 Oct																
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	0	0	0	2	1	MUZAFARNAGAR	0	0	0	0	0
AGRA	0	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	1	1	0	5	0
ALIGARH	3	0	0	17	1	GHAZIABAD	1	0	1	3	2	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	1	3	0	0	0
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	4	0	0	3	0
AMROHA	0	0	0	1	0	HAPUR	1	0	0	0	0	SANTKABIRNAGAR	0	0	0	0	0
AURAIYA	10	0	4	2	0	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	3	36	5	8	1
BADAUN	0	0	0	0	0	JALAUN	0	0	0	0	0	SHAMLI	6	0	0	0	0
BAGHPAT	1	0	0	0	0	JAUNPUR	0	0	0	0	0	SHARANPUR	3	0	0	0	0
BAHRAICH	0	0	0	0	0	JHANSI	2	0	0	0	0	SHRAWASTI	0	0	0	0	0
BALLIA	0	0	0	0	0	KANNAUJ	1	0	0	0	0	SIDDHARTHNAGAR	0	0	0	0	0
BALRAMPUR	0	0	0	0	0	KANPUR	0	1	0	0	0	SITAPUR	1	0	0	0	0
BANDA	0	0	0	0	0	KANPUR DEHAT	0	0	0	0	0	SONBHADRA	0	0	0	0	0
BARABANKI	0	0	0	0	0	KASGANJ	0	0	0	0	0	SULTANPUR	0	0	0	0	0
BAREILLY	0	0	0	0	0	KAUSHAMBI	1	0	0	1	0	UNNAO	2	0	0	0	0
BASTI	0	0	0	0	0	KHERI	0	3	1	0	0	VARANASI	0	0	0	0	0
BIJNOR	1	0	1	0	1	KUSHINAGAR	0	0	0	0	0	<b>Total</b>	<b>51</b>	<b>46</b>	<b>13</b>	<b>50</b>	<b>6</b>
BULANDSAHAR	0	0	1	1	0	LALITPUR	0	1	0	0	0						
CHANDAUJI	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	1	0	0	0	0	MAINPURI	0	0	0	0	0						
ETAWAH	0	0	0	0	0	MATHURA	1	1	0	2	0						
FAIZABAD	0	0	0	0	0	MAU	0	0	0	0	0						
FARRUKHABAD	0	0	0	0	0	MEERUT	6	0	0	0	0						
FATEHPUR	0	0	0	0	0	MIRZAPUR	0	0	0	0	0						
FIROZABAD	0	0	0	0	0	MORADABAD	0	0	0	0	0						

**(d) Delhi**

District	15 Sep-01 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	0	0	0	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
<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>

**(e) Rajasthan**

District	15 Sep-01 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	4	0	0	5	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	1	0	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	2	0
HANUMANGARH	1	0	1	1	5
JAIPUR	0	0	0	0	0
JAISELMER	1	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	0	0	0	0	0
JHUNJHUNUN	0	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	0	0	0	0	0
KOTA	0	0	0	4	0
NAGOUR	0	0	0	0	0
PALI	0	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	0	0
TONK	0	0	0	0	0
UDAIPUR	0	0	0	0	0
<b>Total</b>	<b>13</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>6</b>

(f) Madhya Pradesh

District	15 Sep-01 Oct										
	2020	2021	2022	2023	2024	PANNA	0	0	0	0	0
ALIRAJPUR	0	0	0	0	0	RAISEN	0	0	0	0	0
ANUPPUR	0	0	0	0	0	RAJGARH	1	0	1	1	0
ASHOKNAGAR	3	0	0	1	1	RATLAM	0	0	0	1	0
BALAGHAT	0	0	0	0	0	REWA	0	0	0	0	0
BARWANI	0	0	0	0	0	SAGAR	2	2	0	2	0
BETUL	0	0	0	0	0	SATNA	0	0	0	0	0
BHIND	0	0	0	0	0	SEHORE	1	0	0	1	0
BHOPAL	1	0	0	0	0	SEONI	0	0	0	0	0
BURHANPUR	0	0	0	0	0	SHAHDOL	0	0	0	0	0
CHHATARPUR	0	0	0	1	0	SHAJAPUR	1	0	0	1	0
CHHINDWARA	0	0	0	0	0	SHEOPUR	0	0	0	0	0
DAMOH	0	0	0	2	0	SHIVPURI	0	0	0	0	0
DATIA	0	0	0	0	0	SIDHI	0	0	0	0	0
DEWAS	0	0	0	1	1	SINGRAULI	0	0	0	0	2
DHAR	0	0	0	0	1	TIKAMGARH	0	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	3	0	0	1	0
EAST NIMAR	0	0	0	0	0	UMARIA	0	0	0	0	0
GUNA	4	1	0	5	0	VIDESHA	3	1	0	5	3
GWALIOR	3	0	0	0	0	WEST NIMAR	0	0	0	0	0
HARDA	2	1	0	1	0	<b>Total</b>	<b>26</b>	<b>5</b>	<b>1</b>	<b>29</b>	<b>11</b>
HOSHANGABAD	0	0	0	1	0						
INDORE	1	0	0	2	3						
JABALPUR	1	0	0	0	0						
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	0	0	0	3	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-01 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
<b>Total</b>	<b>1190</b>	<b>228</b>	<b>192</b>	<b>337</b>	<b>155</b>	<b>93</b>	<b>11</b>	<b>2</b>	<b>96</b>	<b>84</b>	<b>51</b>	<b>46</b>	<b>13</b>	<b>50</b>	<b>6</b>

## 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
<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>13</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>6</b>	<b>26</b>	<b>5</b>	<b>1</b>	<b>29</b>	<b>11</b>

### Details of residue burning events in Punjab on 01-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	S-NPP	32.00660	74.90945	13:34:27	D	4.60
2	AMRITSAR	ATTARI	S-NPP	31.56724	74.75083	13:34:27	D	2.90
3	AMRITSAR	CHOGAWAN	S-NPP	31.73685	74.67996	13:34:27	D	3.30
4	AMRITSAR	HARSHA CHHINA	S-NPP	31.80028	74.67727	13:34:27	D	3.70
5	AMRITSAR	JANDIALA GURU	S-NPP	31.58838	75.08124	13:34:27	D	6.60
6	FAZILKA	ABOHAR	S-NPP	30.13862	74.14558	13:34:27	D	1.70
7	FIROZPUR	FIROZPUR	S-NPP	30.95029	74.52632	13:34:27	D	3.40
8	FIROZPUR	FIROZPUR	S-NPP	30.95088	74.53035	13:34:27	D	3.40
9	FIROZPUR	MAKHU	S-NPP	31.10503	74.84641	13:34:27	D	10.00
10	FIROZPUR	ZIRA	S-NPP	31.04150	74.98854	13:34:27	D	6.80
11	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.85422	75.03263	13:34:27	D	2.60
12	JALANDHAR	LOHIAN	S-NPP	31.10121	75.18016	13:34:27	D	4.20
13	JALANDHAR	LOHIAN	S-NPP	31.10456	75.17952	13:34:27	D	4.20
14	LUDHIANA	LUDHIANA 1	S-NPP	30.88231	75.99493	02:24:27	N	0.80
15	SANGRUR	BHAWANIGARH	S-NPP	30.29556	76.15156	13:34:27	D	9.50
16	TARN TARAN	CHOHLA SAHIB	S-NPP	31.33007	75.10004	13:34:27	D	2.60
17	TARN TARAN	CHOHLA SAHIB	S-NPP	31.33066	75.10417	13:34:27	D	2.60
18	TARN TARAN	GANDIWIND TATLA	S-NPP	31.45667	74.68781	13:34:27	D	4.40
19	TARN TARAN	KHADUR SAHIB	S-NPP	31.42482	75.15064	13:34:27	D	4.70
20	TARN TARAN	KHADUR SAHIB	S-NPP	31.42540	75.15481	13:34:27	D	4.70
21	TARN TARAN	KHADUR SAHIB	S-NPP	31.42817	75.15000	13:34:27	D	5.00
22	TARN TARAN	KHADUR SAHIB	S-NPP	31.42875	75.15416	13:34:27	D	5.00
23	TARN TARAN	KHADUR SAHIB	S-NPP	31.51274	75.05742	13:34:27	D	1.20
24	TARN TARAN	TARN TARAN	S-NPP	31.46938	74.82425	13:34:27	D	7.20
25	TARN TARAN	TARN TARAN	S-NPP	31.49128	74.92991	13:34:27	D	4.60
26	TARN TARAN	TARN TARAN	S-NPP	31.51370	74.87053	13:34:27	D	2.60



### Details of residue burning events in Haryana on 01-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	HISAR	BARWALA	S-NPP	29.37575	76.04352	13:34:27	D	4.50
2	JIND	NARWANA	S-NPP	29.72643	76.03790	13:34:27	D	5.80
3	SONIPAT	SONIPAT	S-NPP	29.06594	76.99918	13:34:27	D	2.10

### Details of residue burning events in Rajasthan on 01-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	CHITTAURGARH	NIMBAHERA	S-NPP	24.69053	74.68127	02:24:27	N	1.00

### Details of residue burning events in Madhya Pradesh on 01-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m <sup>2</sup> )
1	ASHOKNAGAR	MUNGAOLI	S-NPP	24.31156	77.90867	13:34:27	D	3.50
2	DEWAS	KANNOD	S-NPP	22.58338	76.64318	13:34:27	D	3.30
3	VIDESHA	SIRANJ	S-NPP	24.14229	77.84753	13:34:27	D	1.50

**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](#)

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