

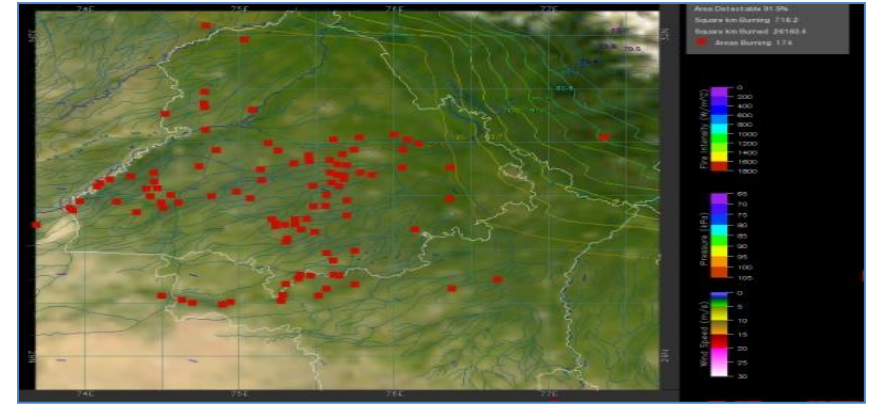
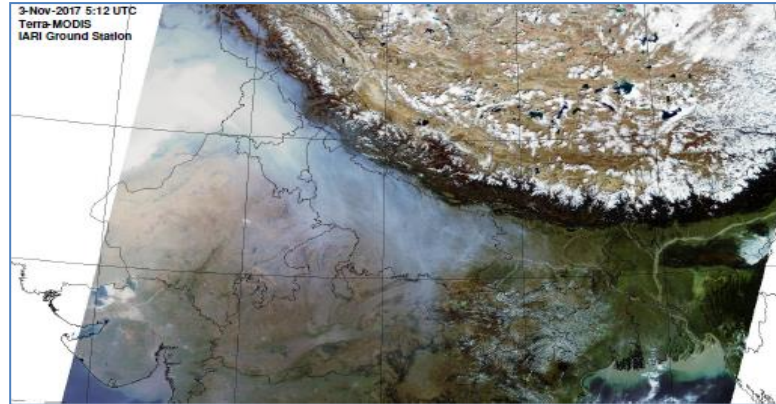


# MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2024

Bulletin  
No. 19

Events Date:  
03-Oct-2024

Issued on:  
03-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

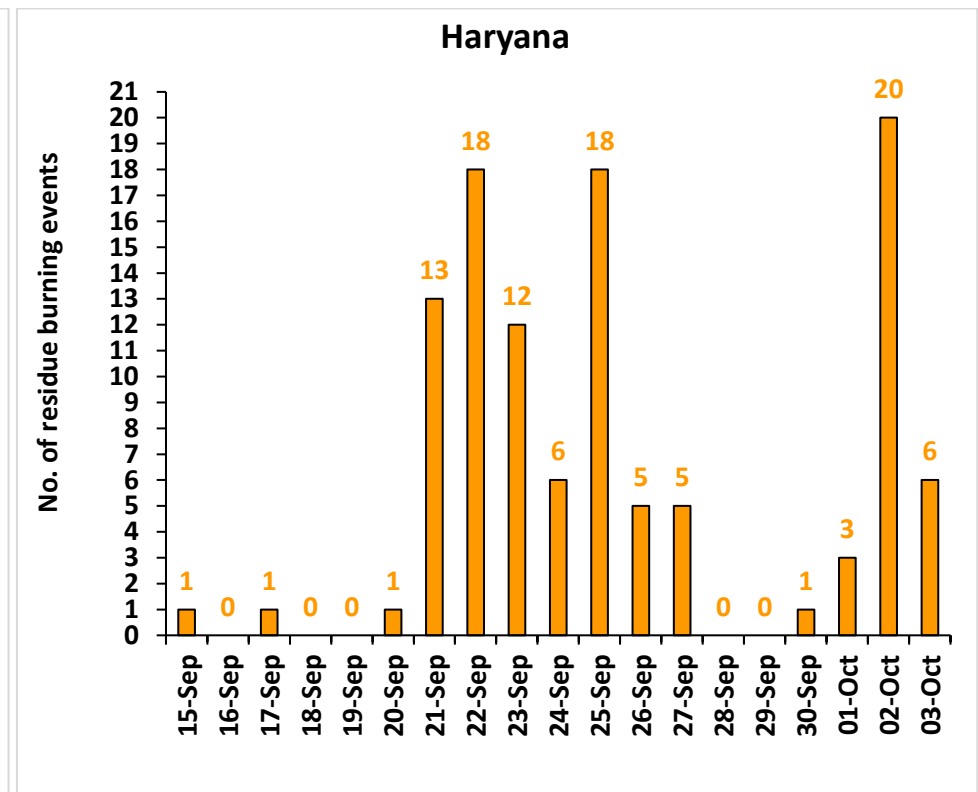
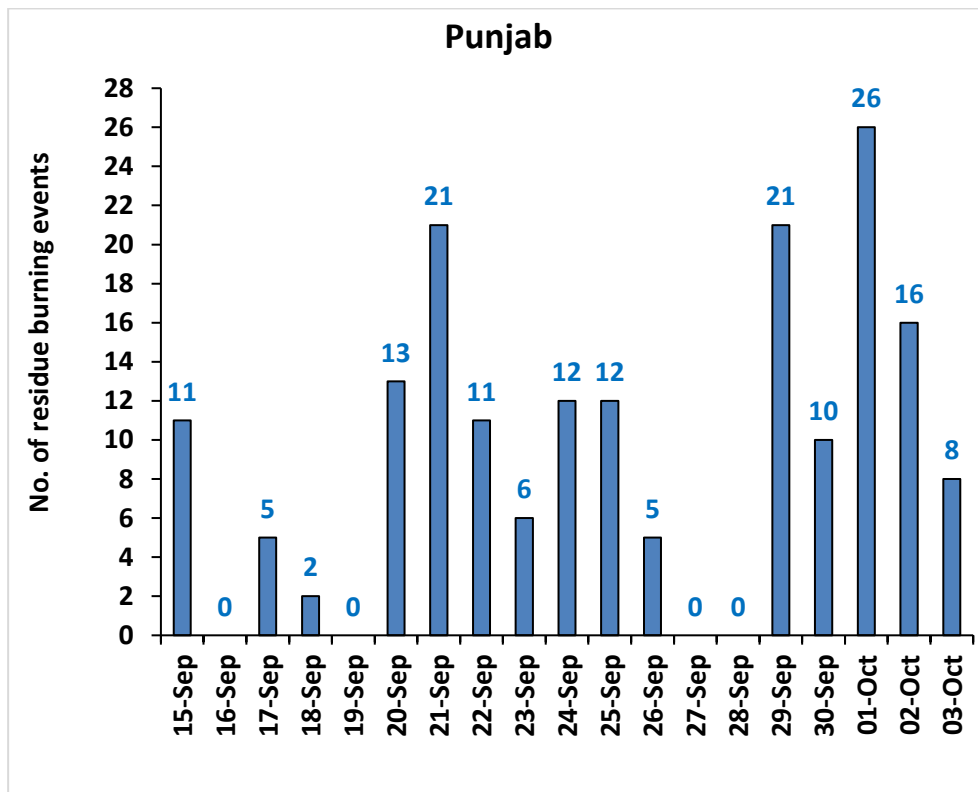
<https://creams.iari.res.in>



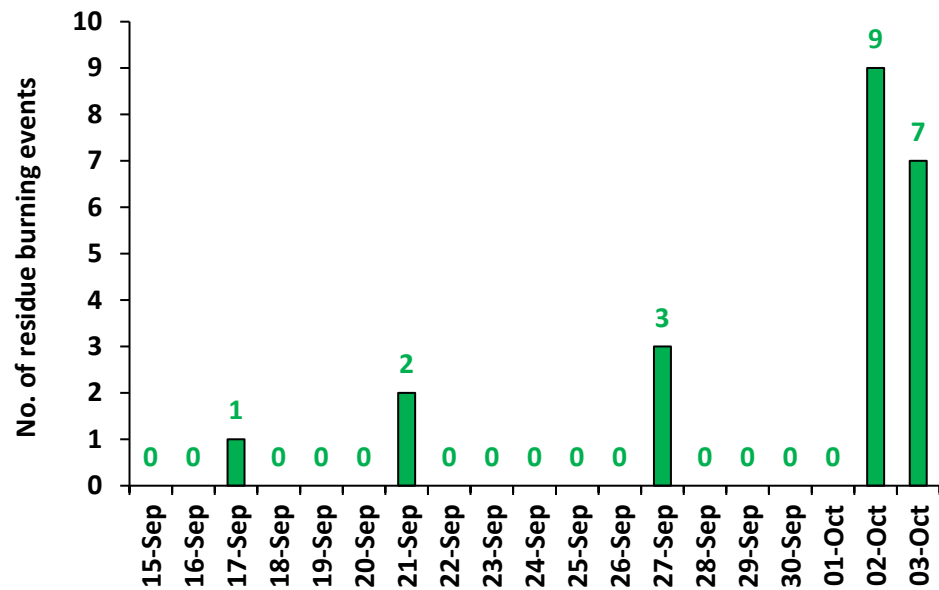
## Highlights for 03-Oct-2024

- 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 **23** residue burning events in the six study States on **03-Oct-2024**.
- The state wise events detected on **03-Oct-2024** were **08** in Punjab, **06** in Haryana, **07** in UP, **00** in Delhi, **00** in Rajasthan and **07** in MP.
- Total **333** burning events were detected in the six states between **15-Sept-2024** and **03-Oct-2024**, which are distributed as **179**, **110**, **22**, **00**, **09** and **13** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.

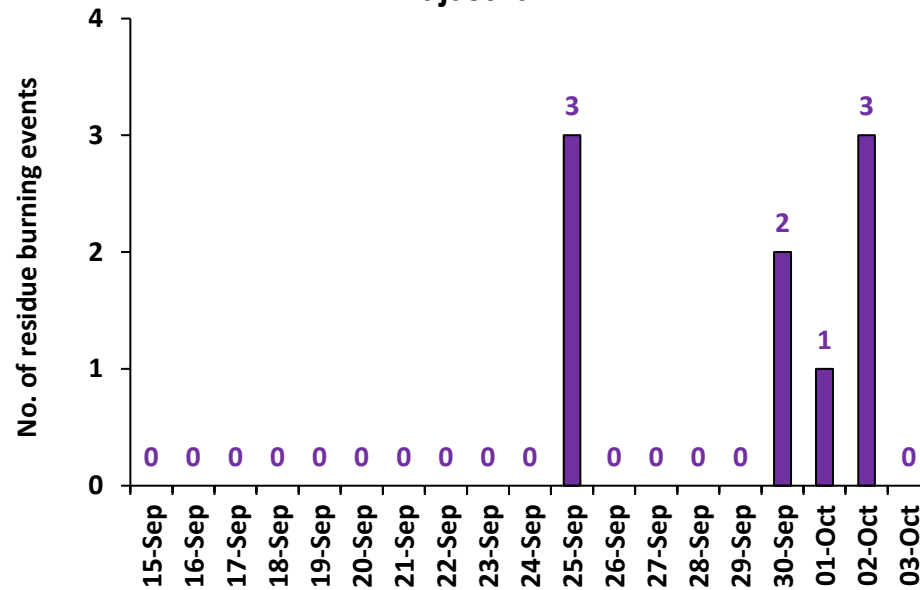
### Temporal distribution of rice residue burning events for the study States in 2024



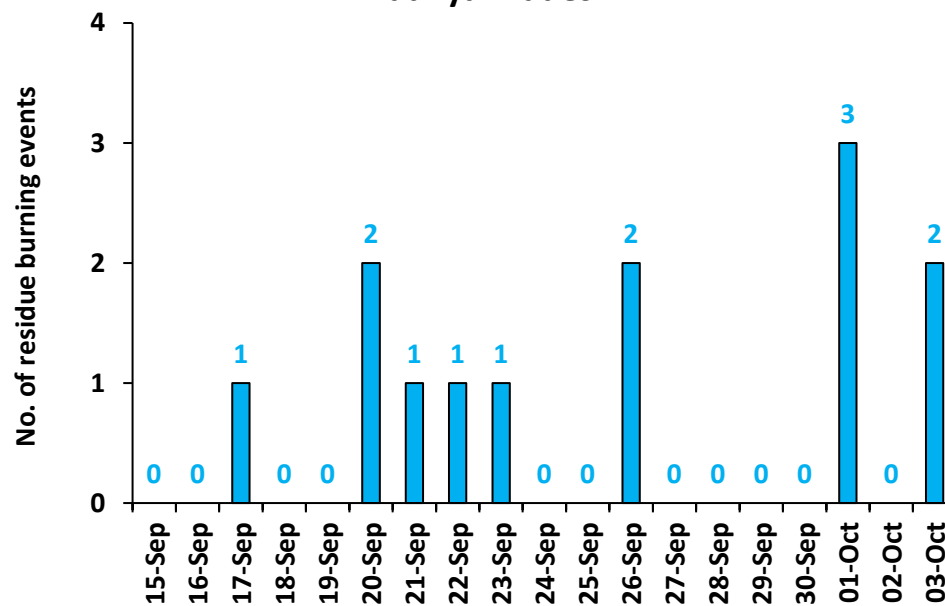
### Uttar Pradesh



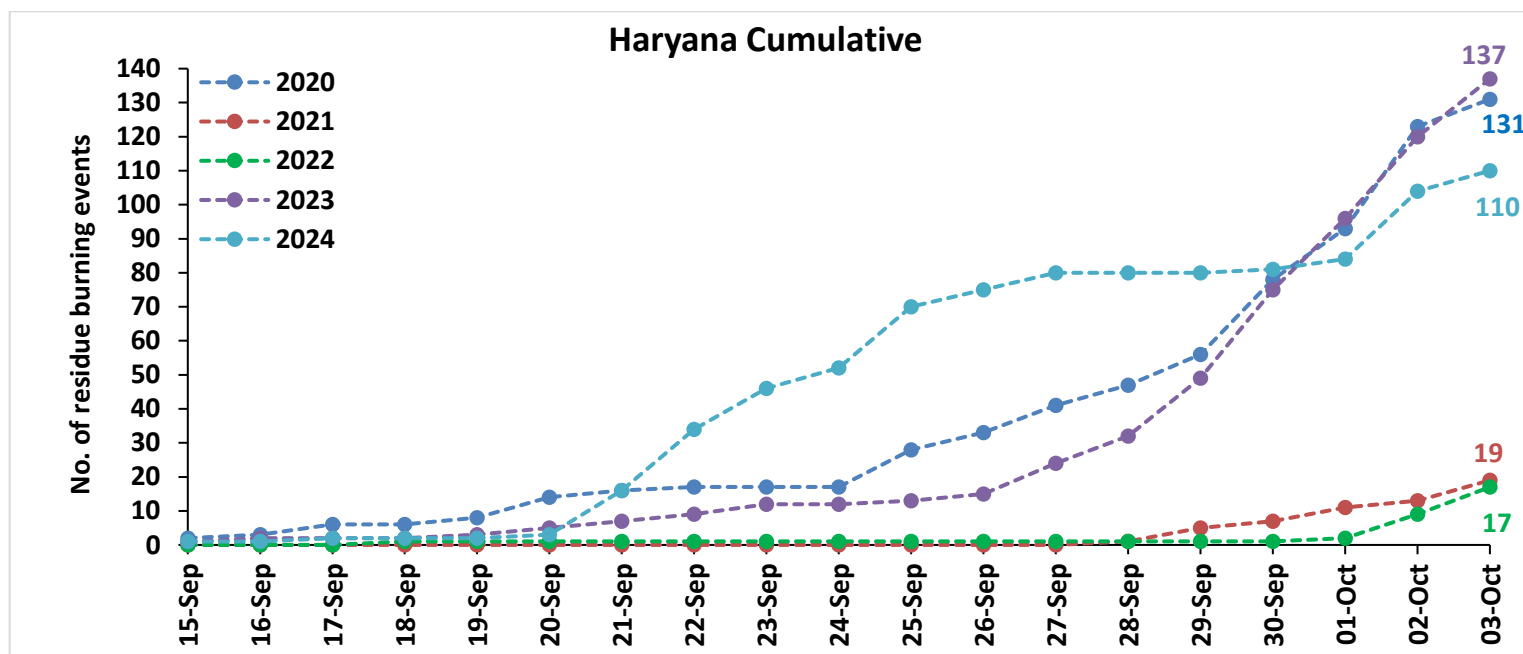
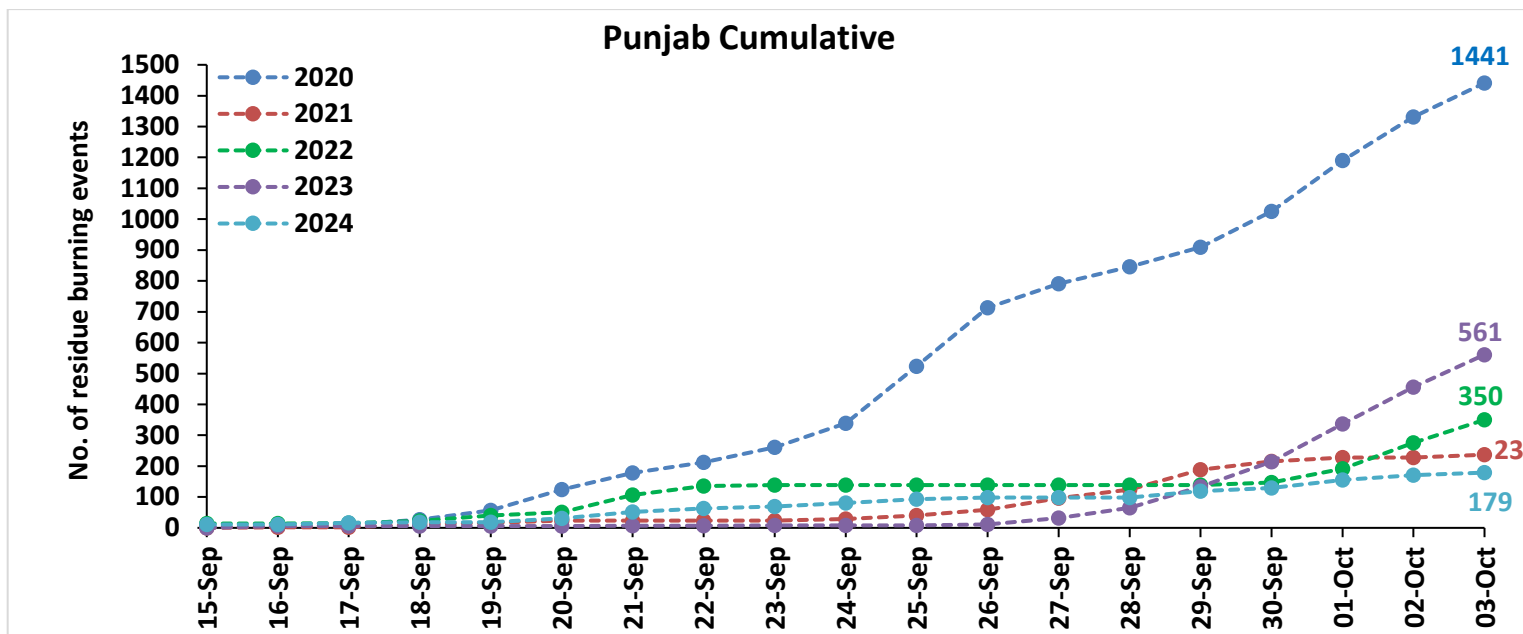
### Rajasthan

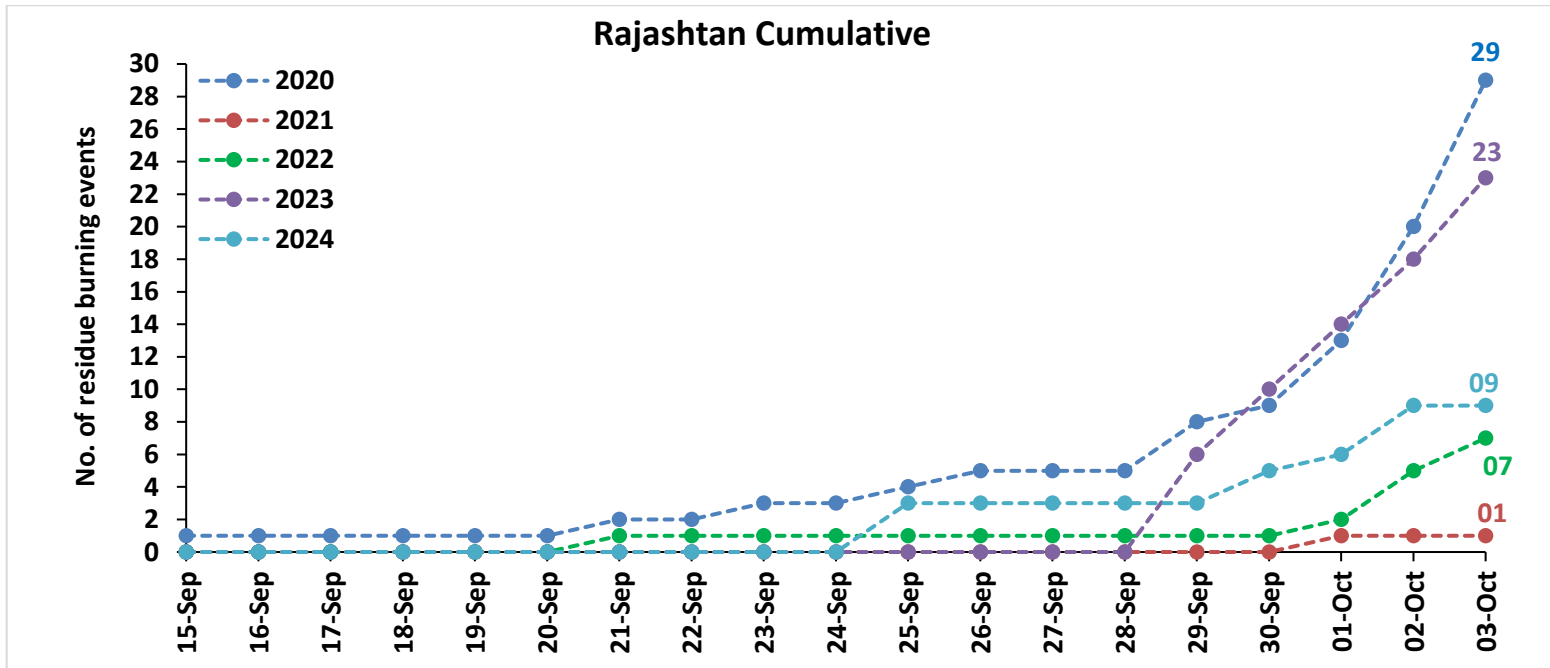
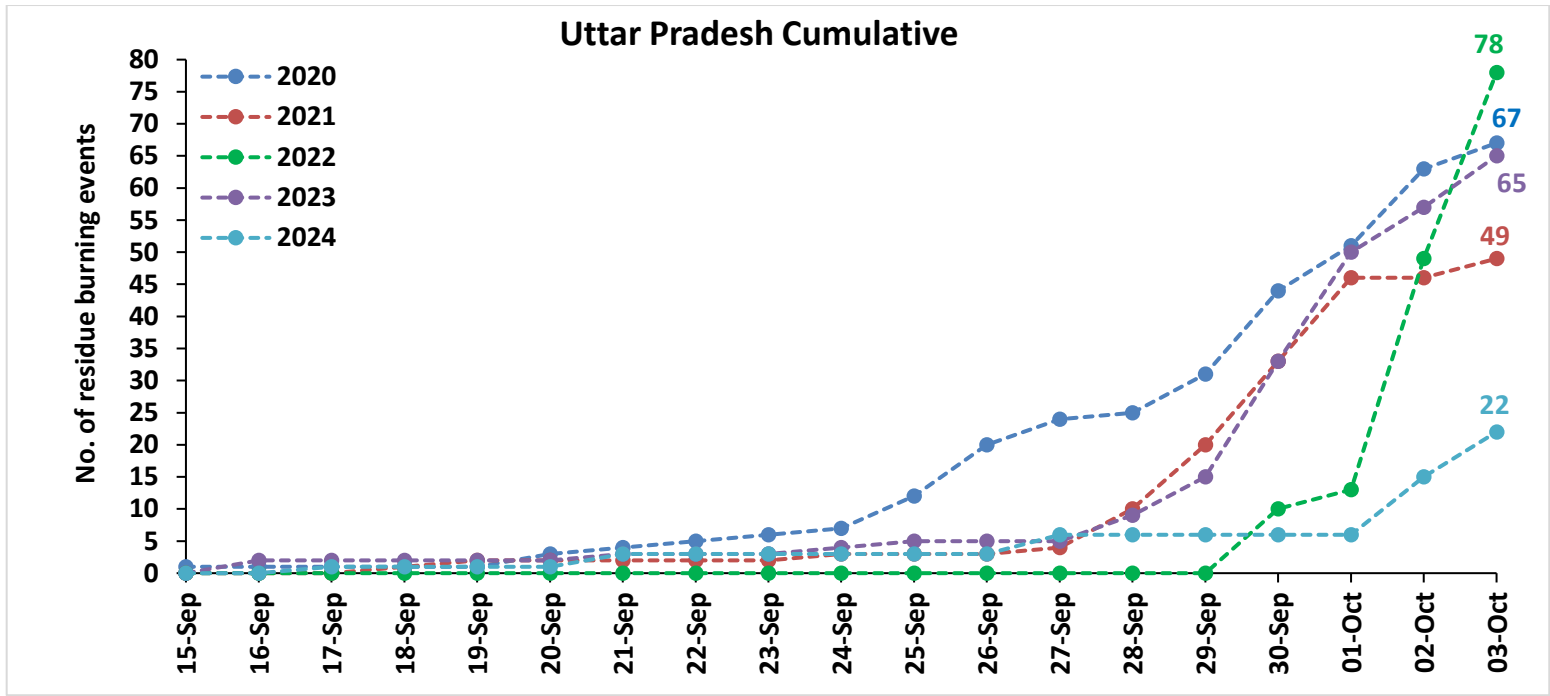


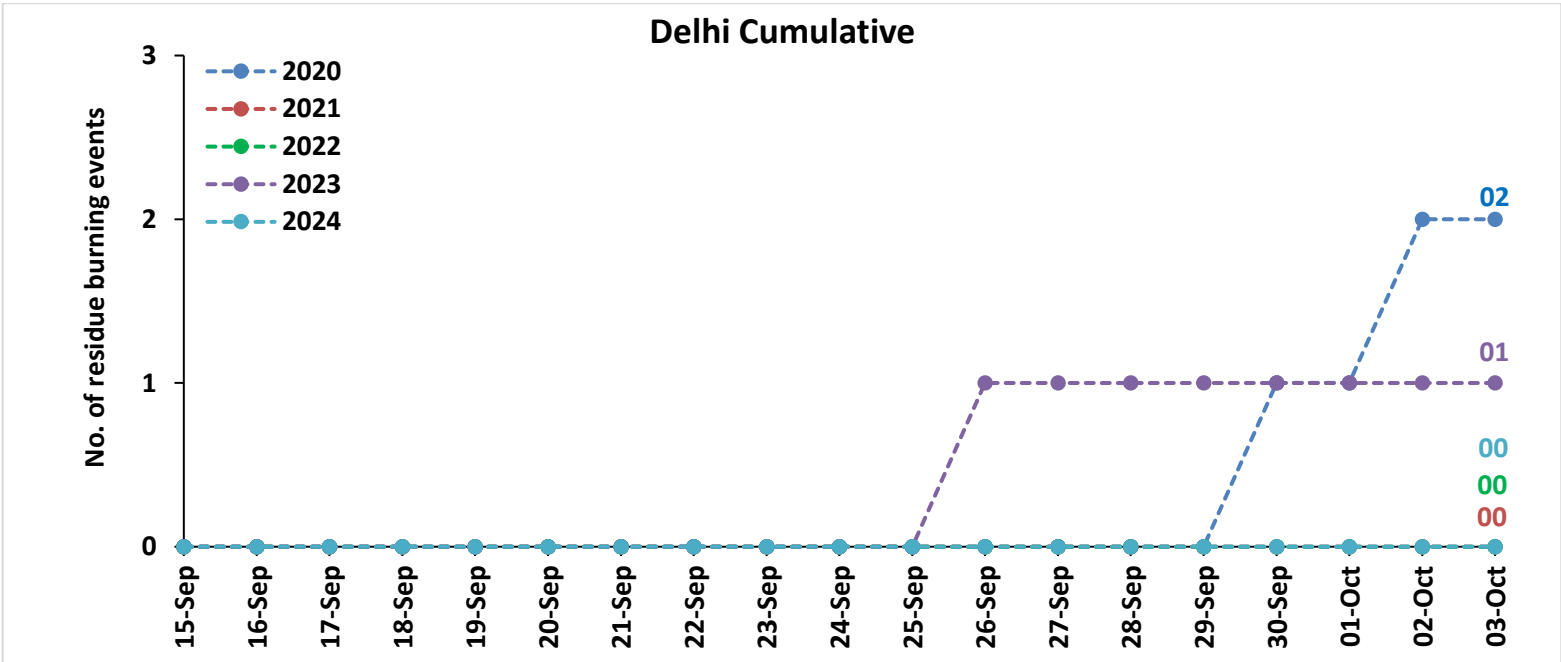
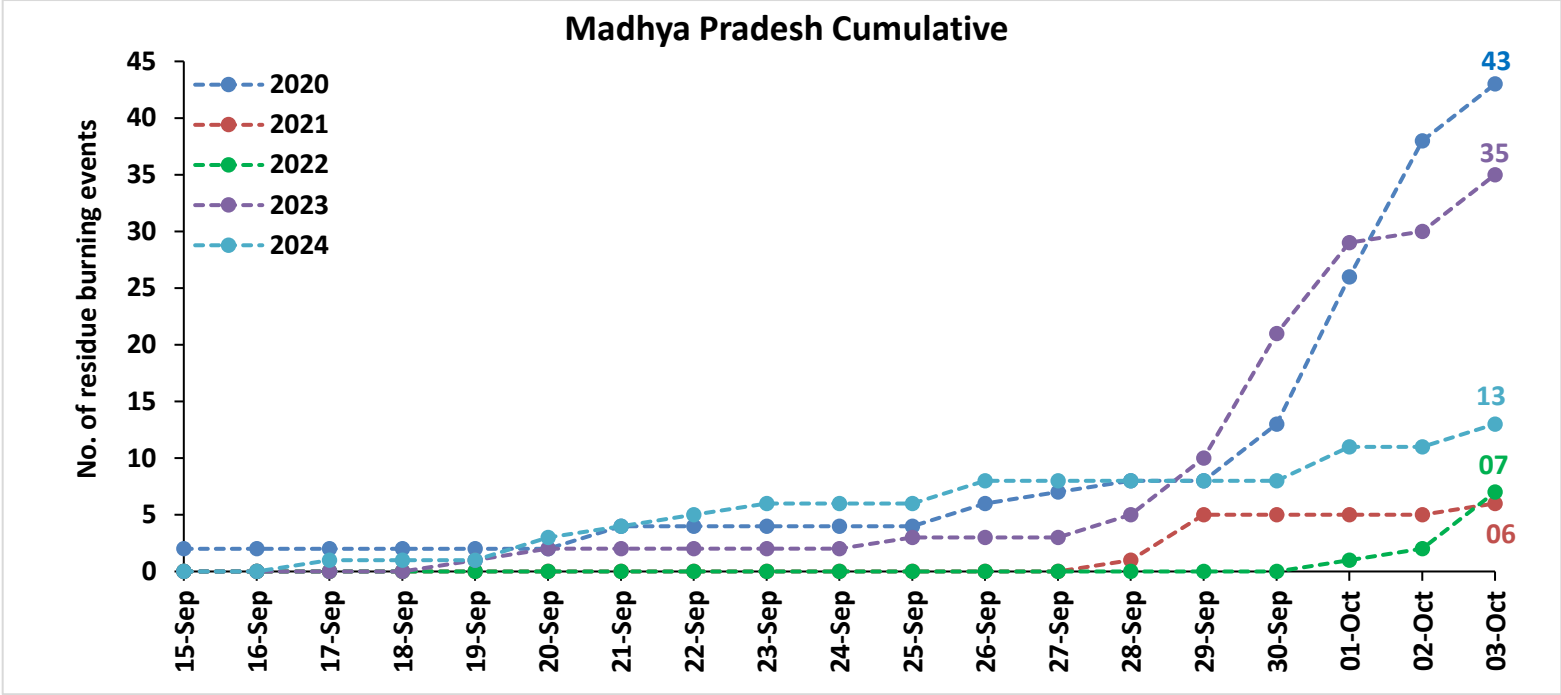
### Madhya Pradesh



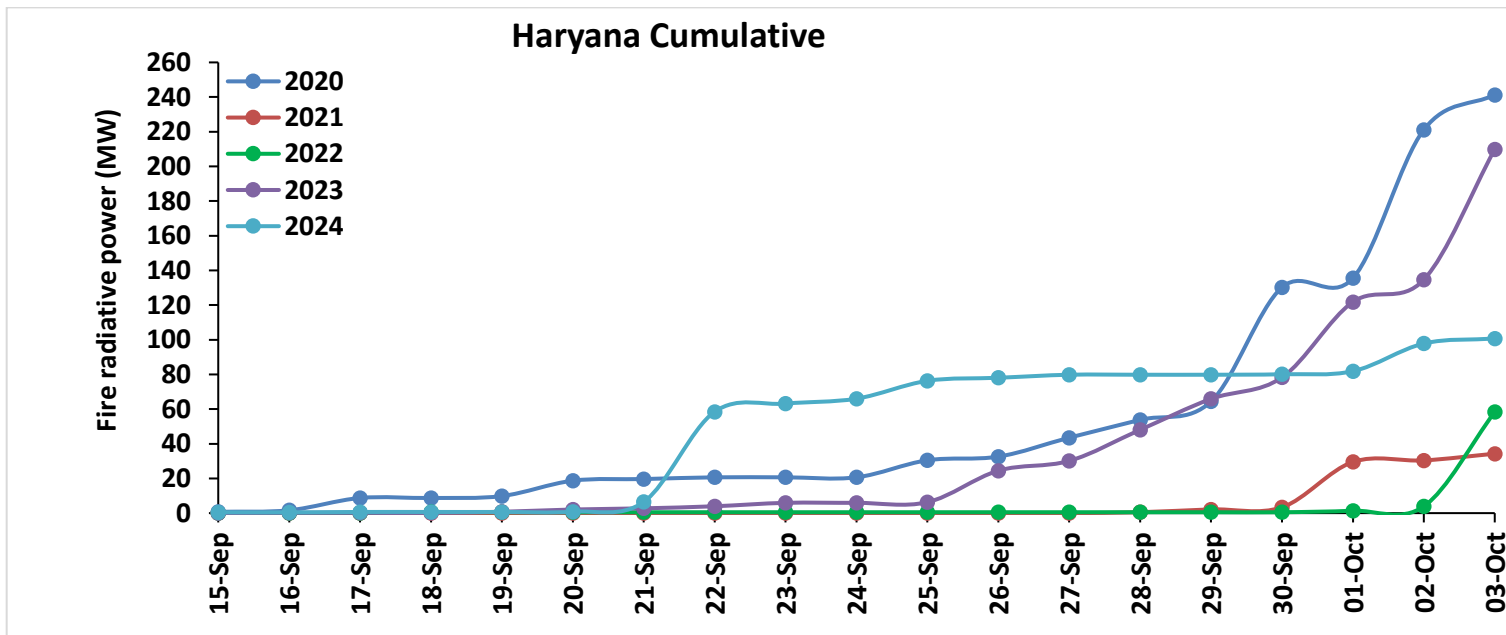
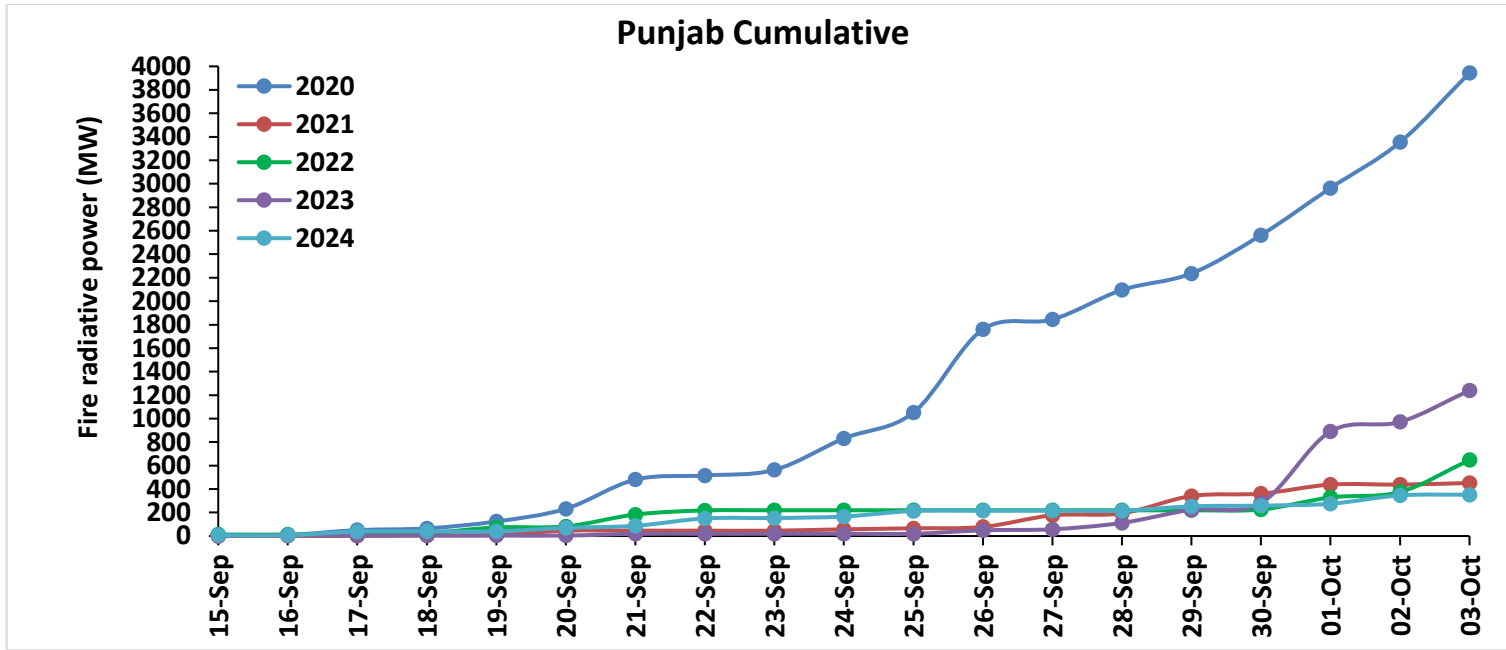
**Comparison of residue burning events in current year (2024) with previous years (2020, 2021, 2022 and 2023) for the study States**

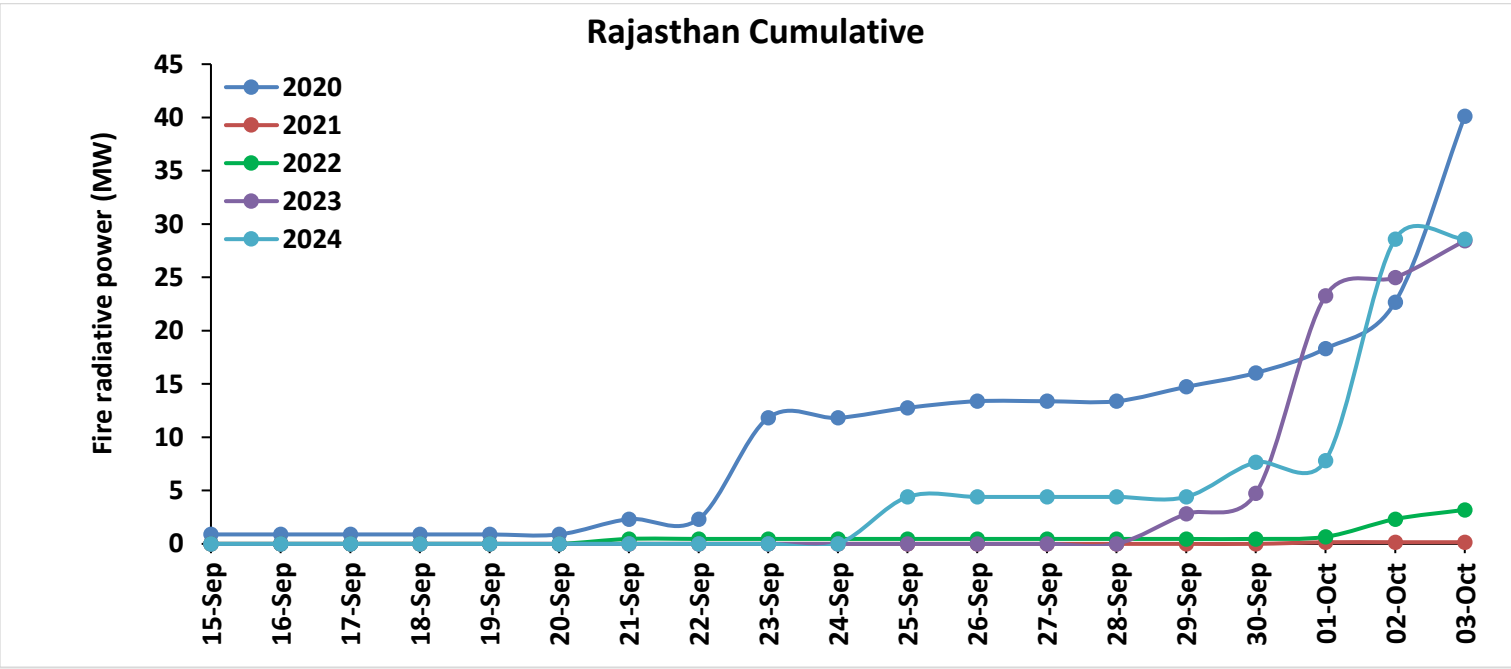
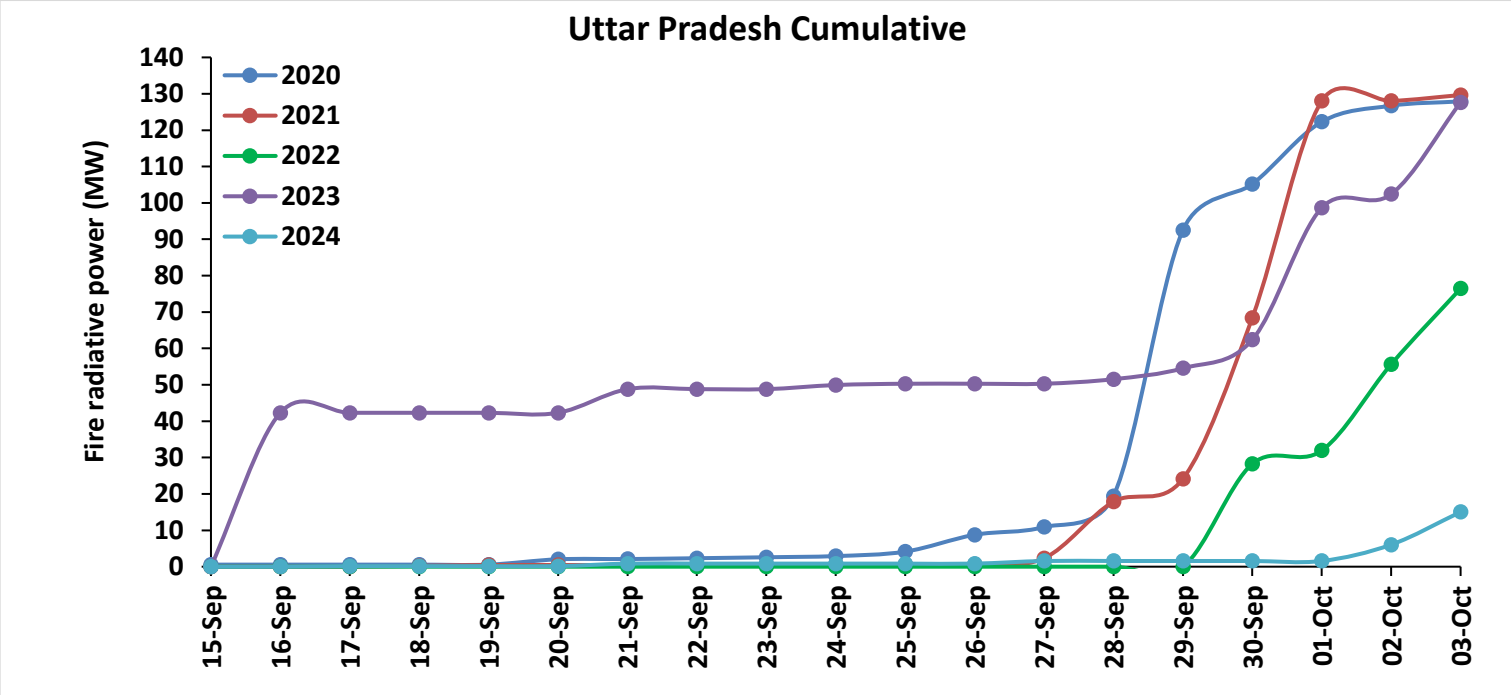




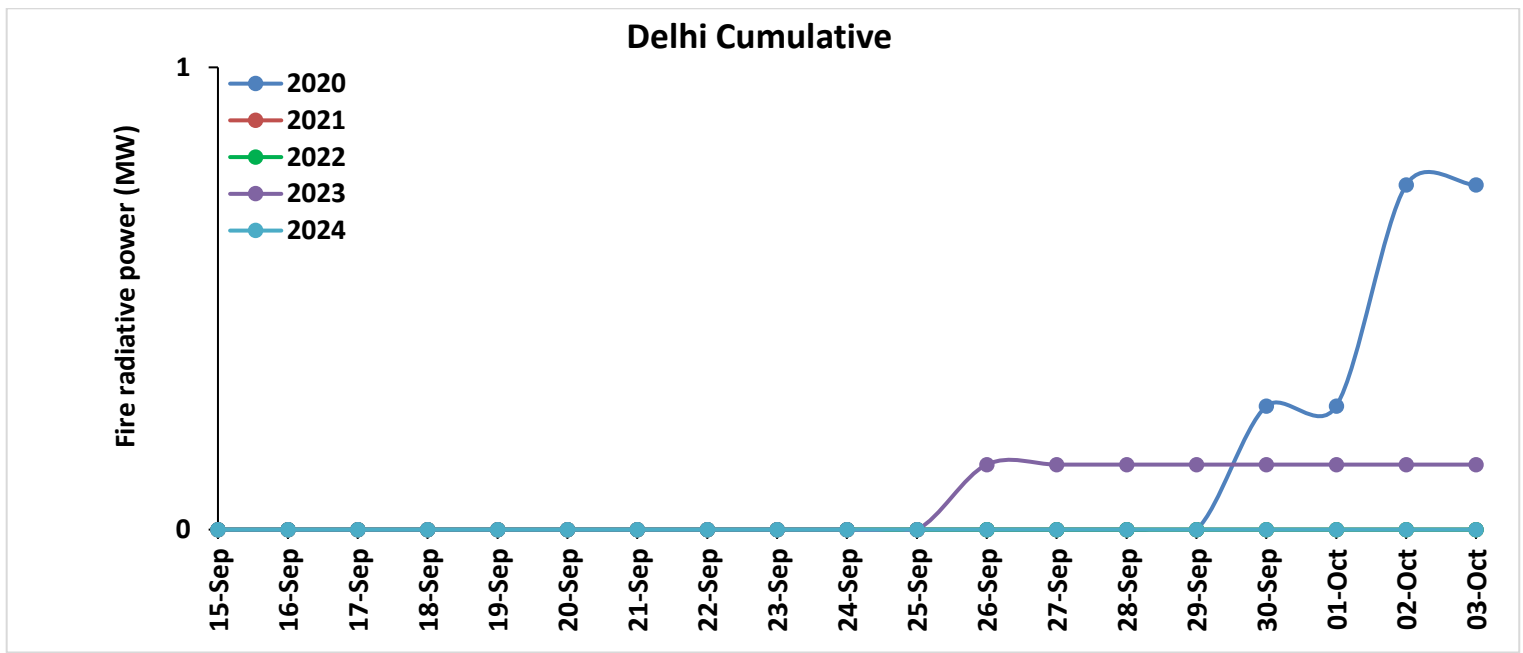
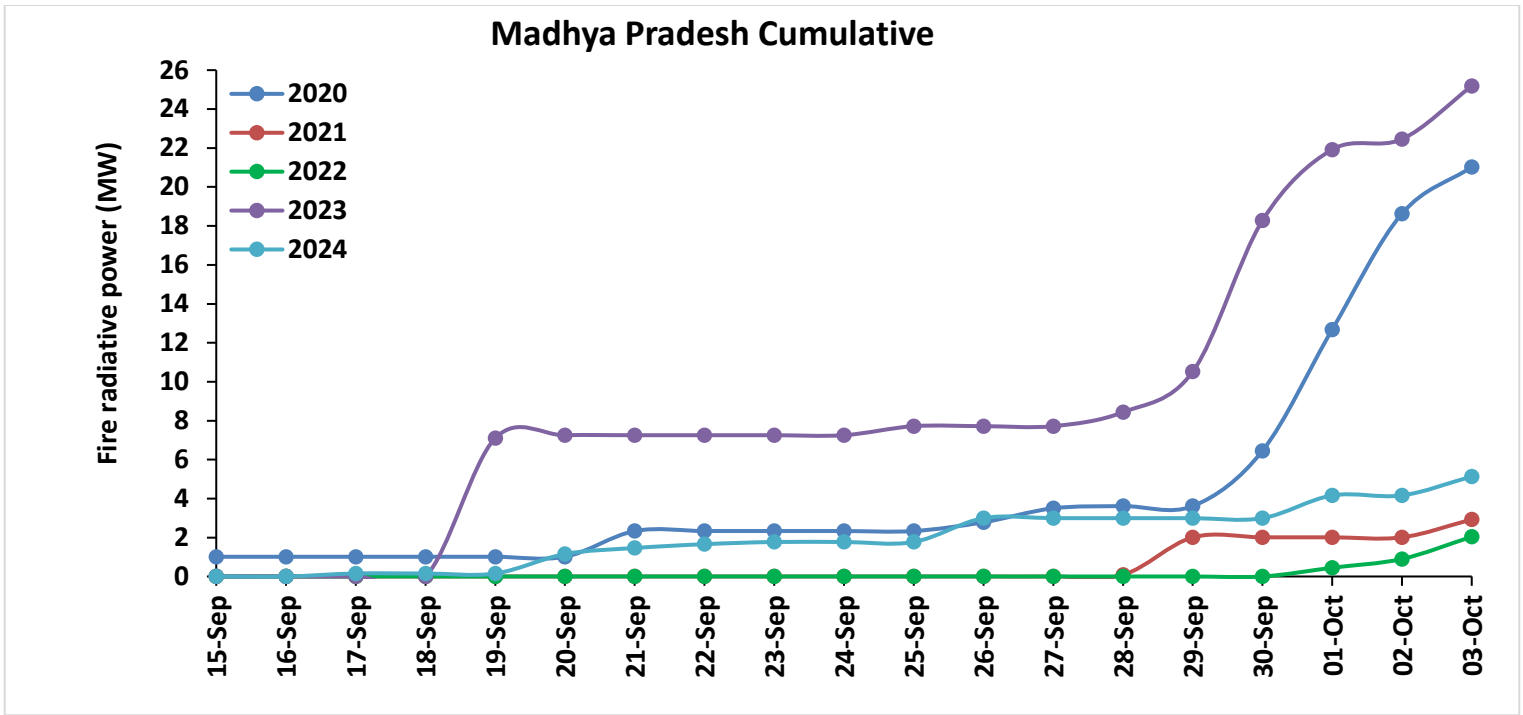


**Comparison of residue burning fire power in current year (2024) with previous years (2020,2021,2022 and 2023) for the study States**



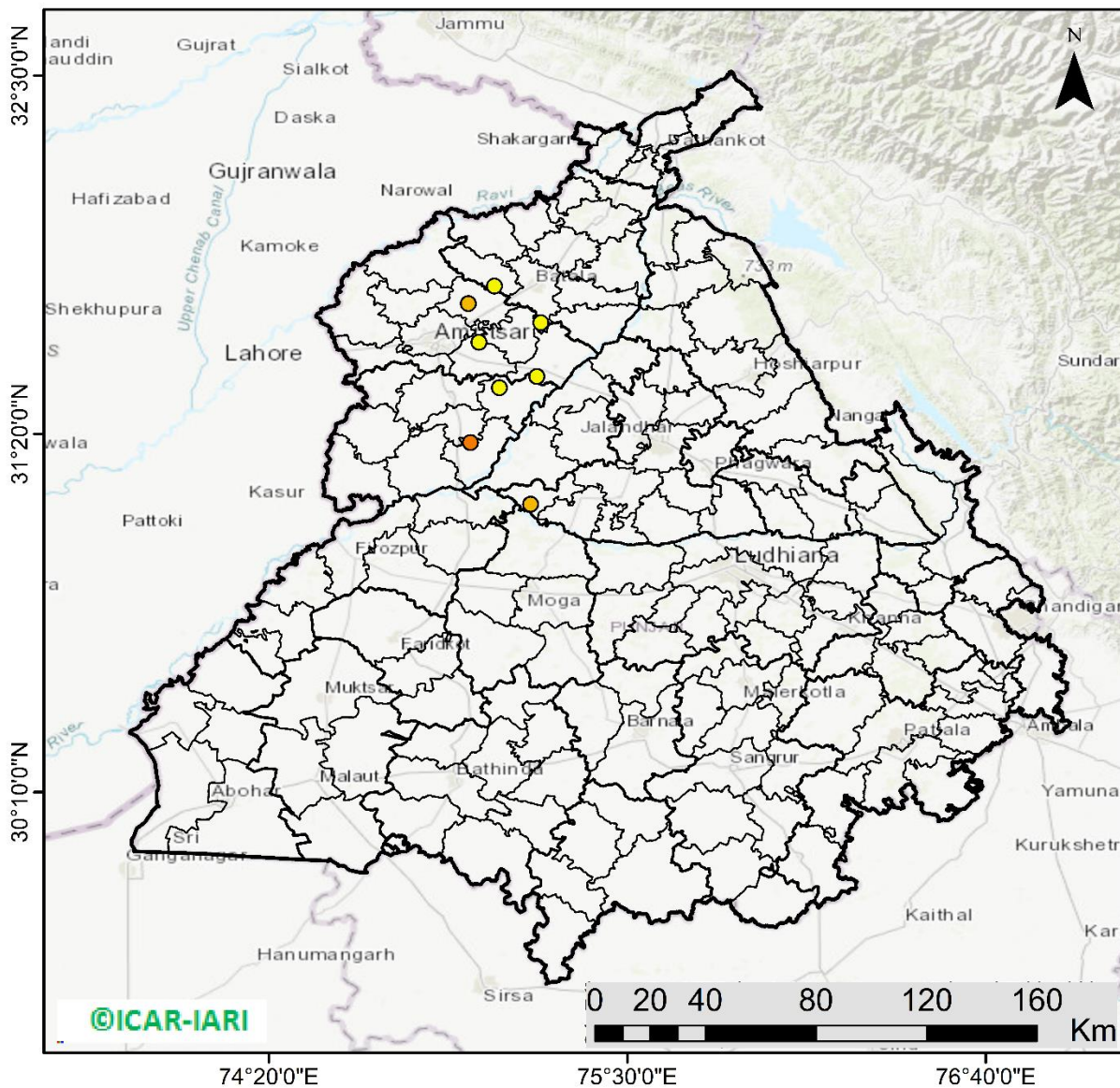






# Punjab

## RICE RESIDUE BURNING IN PUNJAB



**08** burning events detected in Punjab during (03rd Oct 2024)

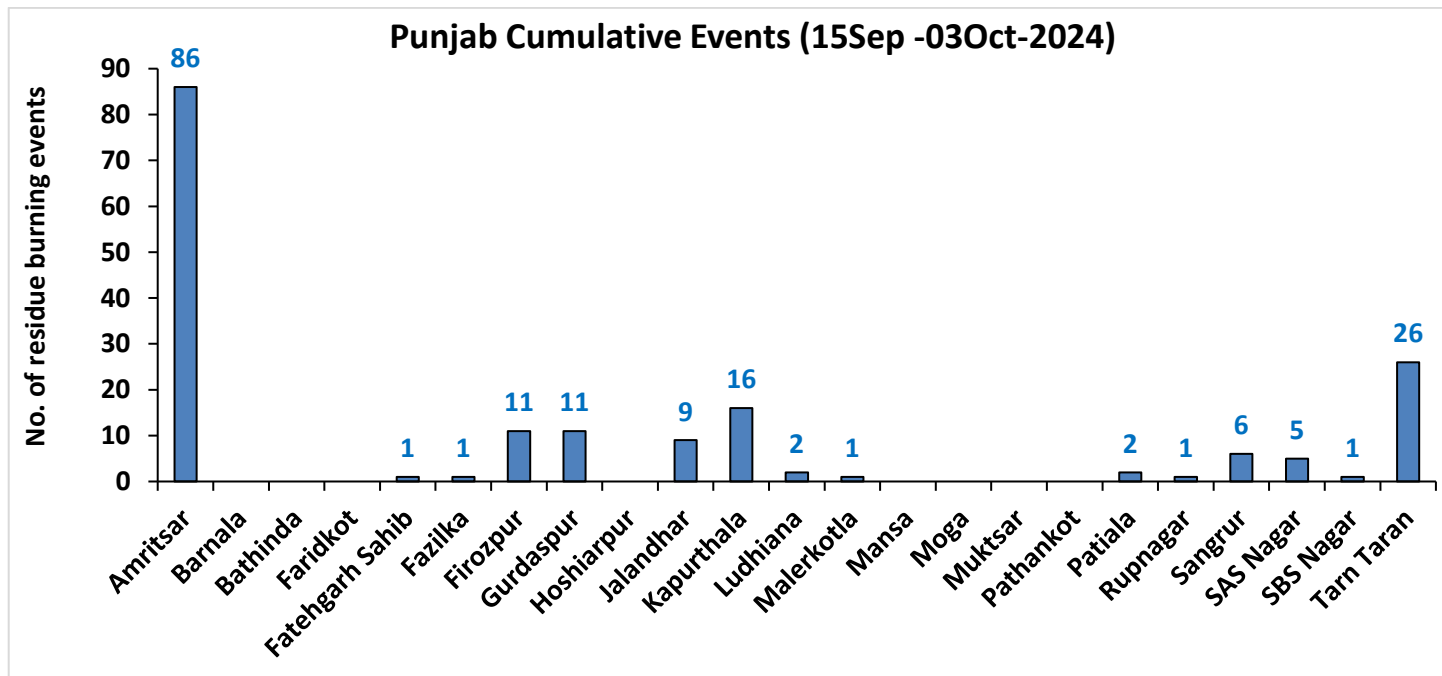
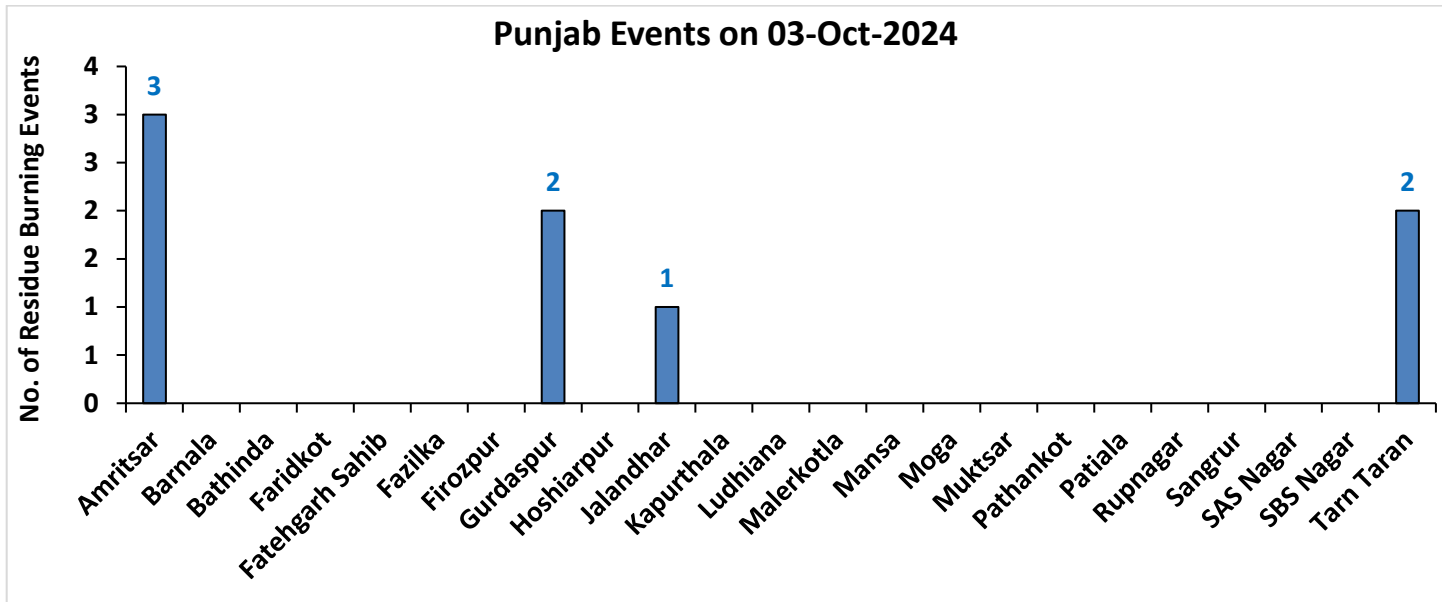
### Fire Intensity (W/m<sup>2</sup>)

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



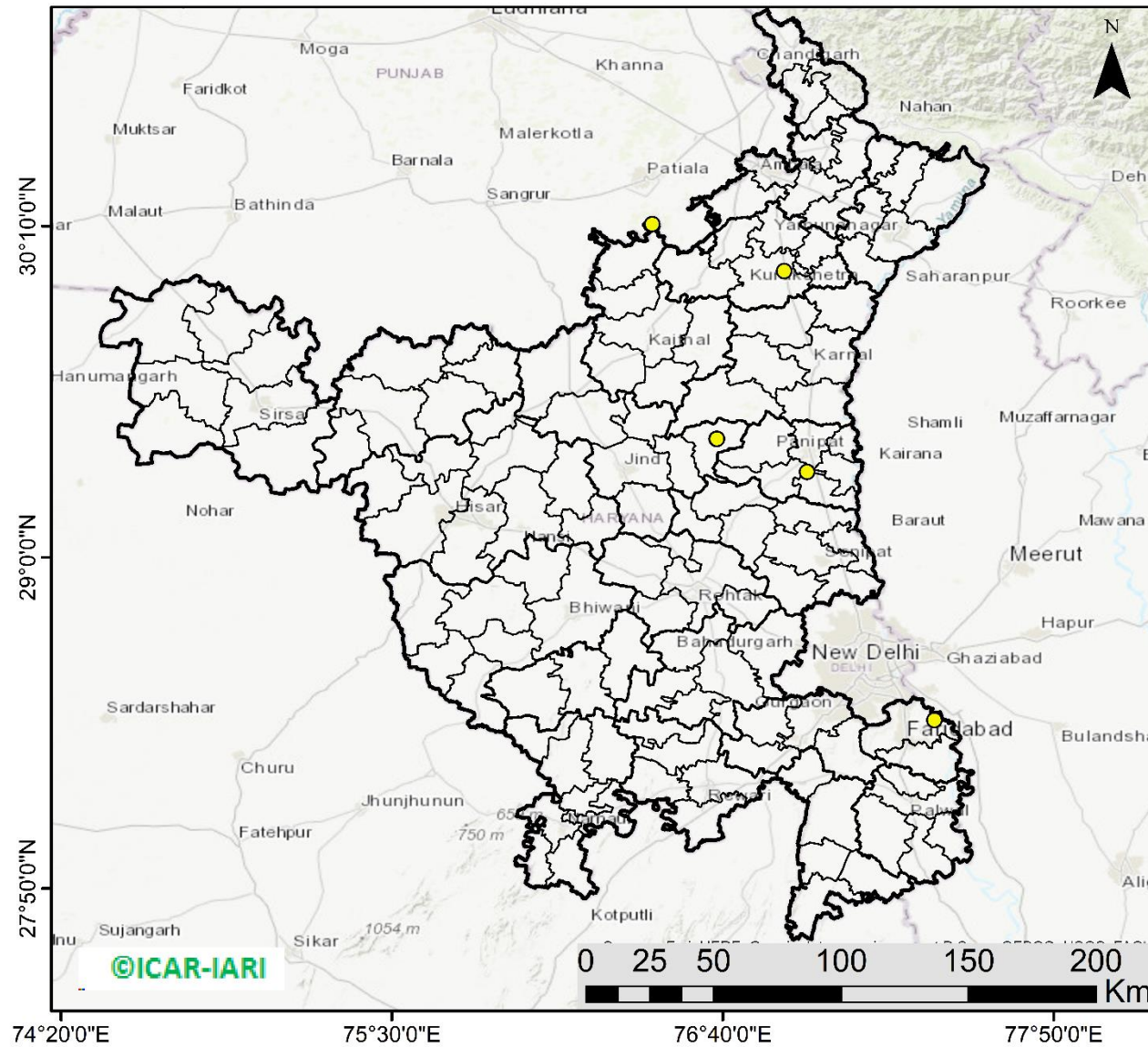
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Punjab (15Sep-03Oct-2024)



# Haryana

## RICE RESIDUE BURNING IN HARYANA



**06** burning events detected in Haryana on (03rd Oct 2024)

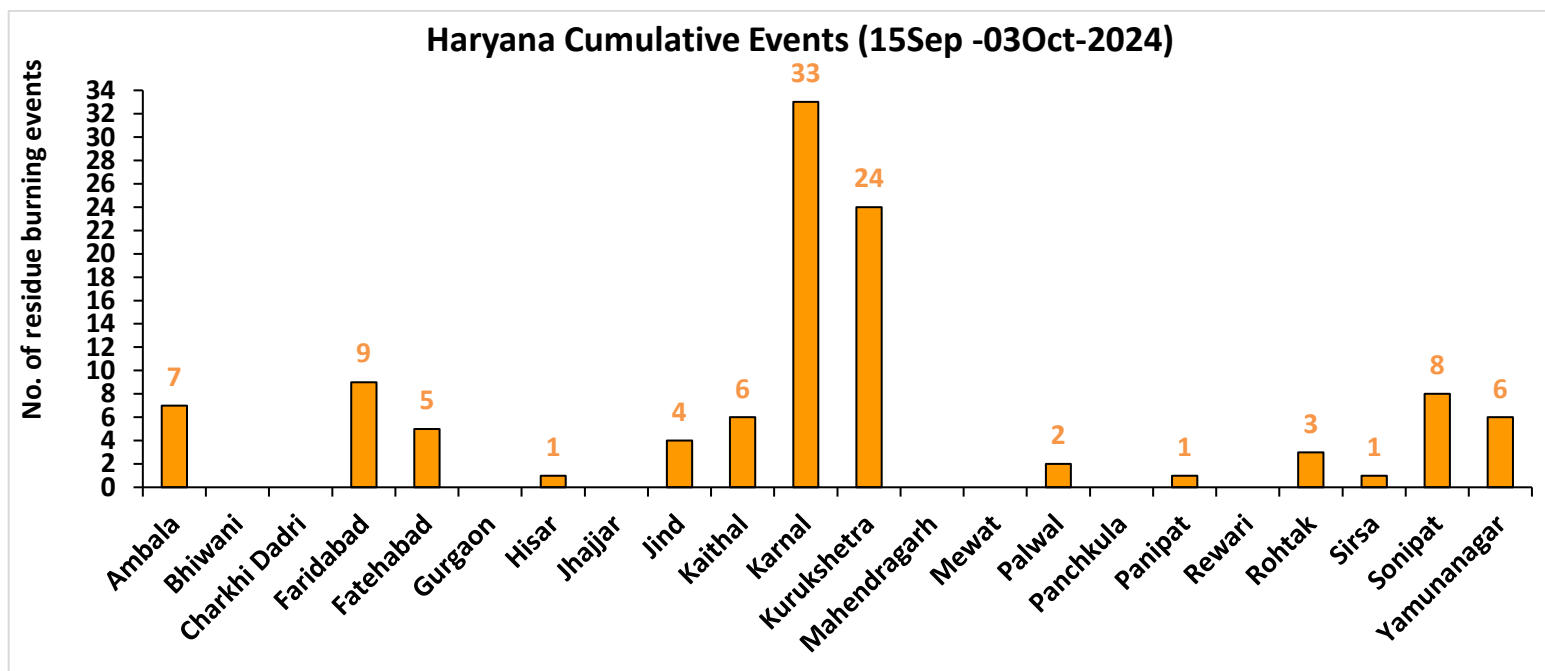
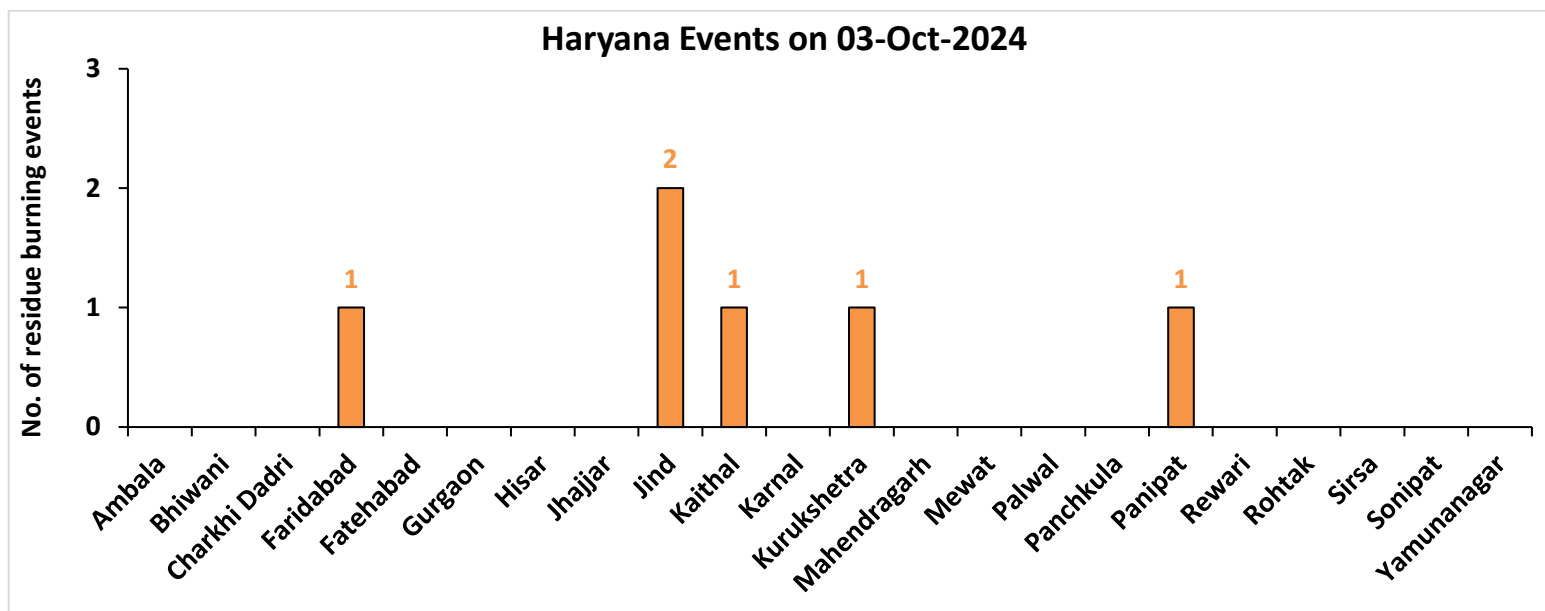
### Fire Intensity (W/m<sup>2</sup>)

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



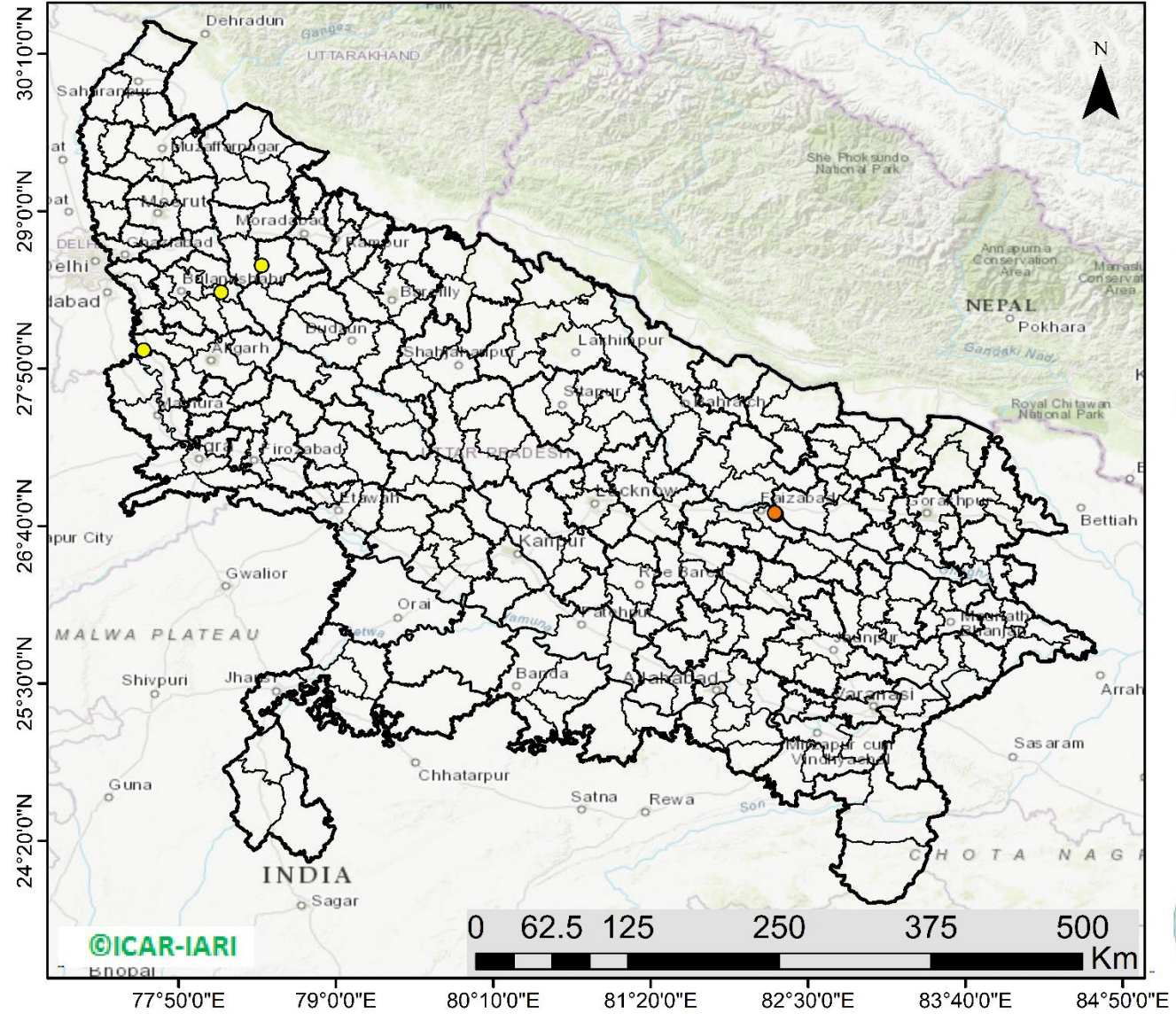
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Haryana (15Sep-03Oct-2024)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



07 burning events detected in Uttar Pradesh on (03rd Oct 2024)

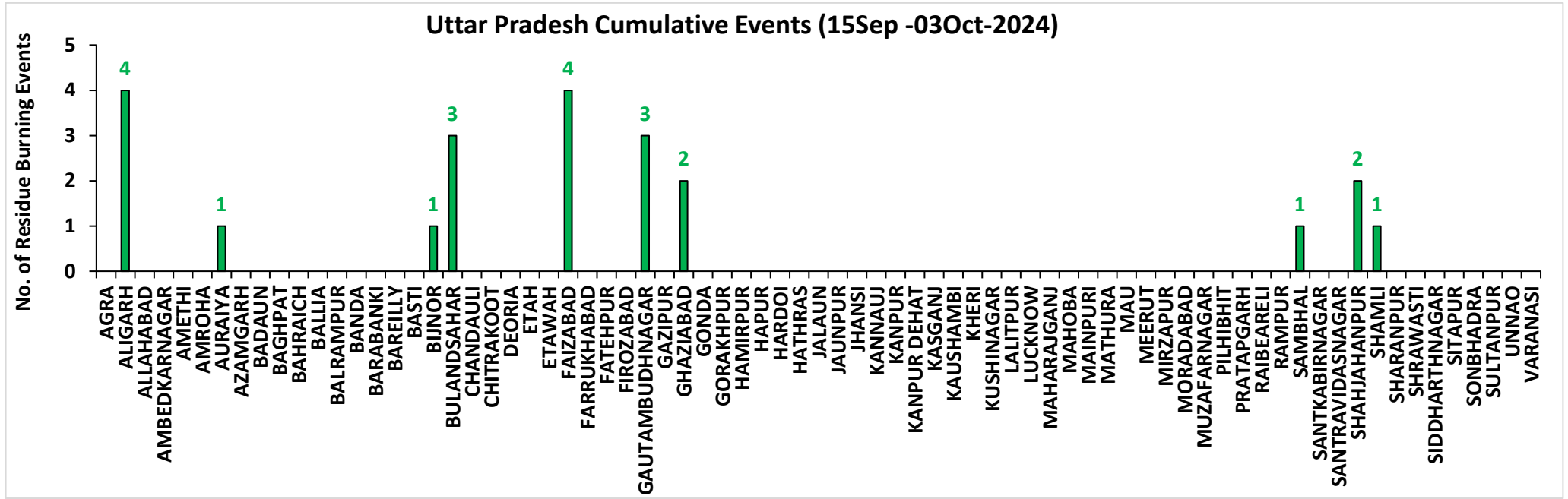
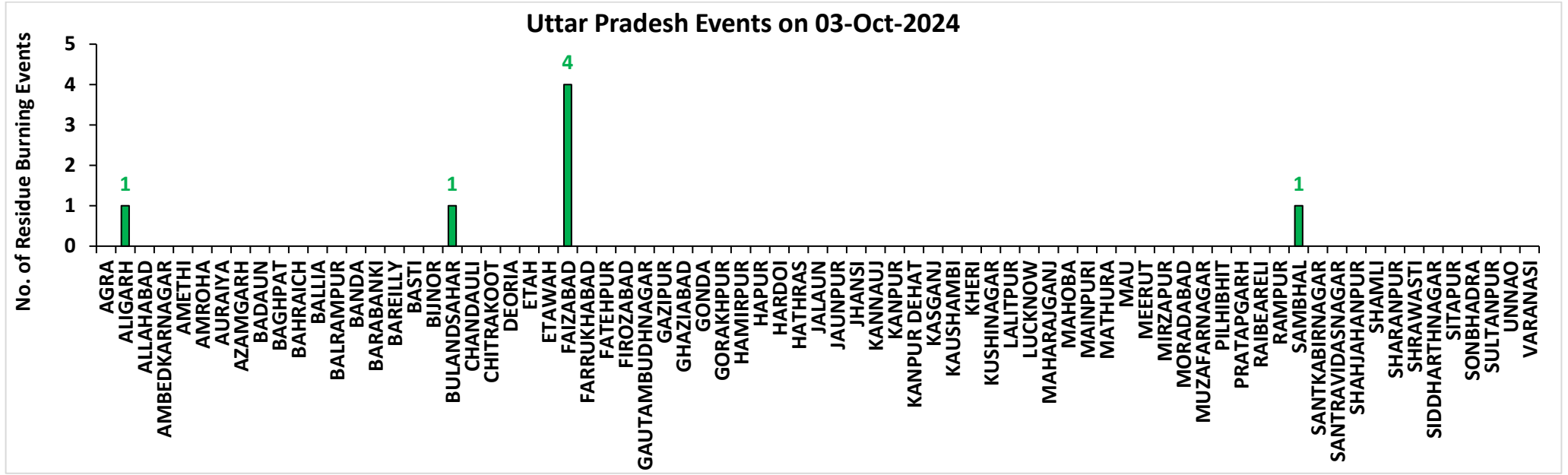
Fire Intensity (W/m<sup>2</sup>)

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



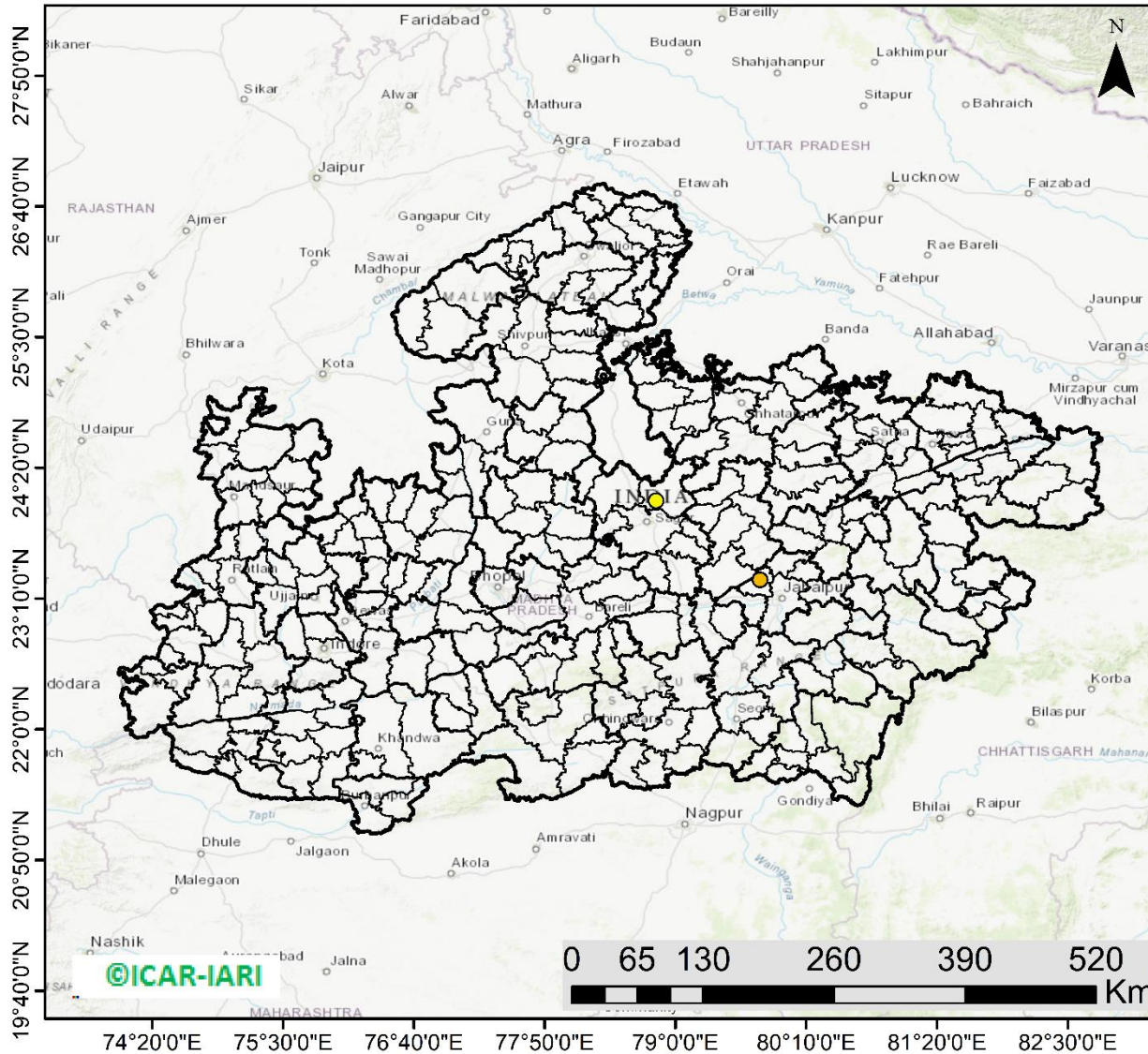
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residues burning events in Uttar Pradesh (15Sep-03Oct-2024)



# Madhya Pradesh

## RICE RESIDUE BURNING IN MADHYA PRADESH



**02** burning events detected in MP on (03rd Oct 2024)

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

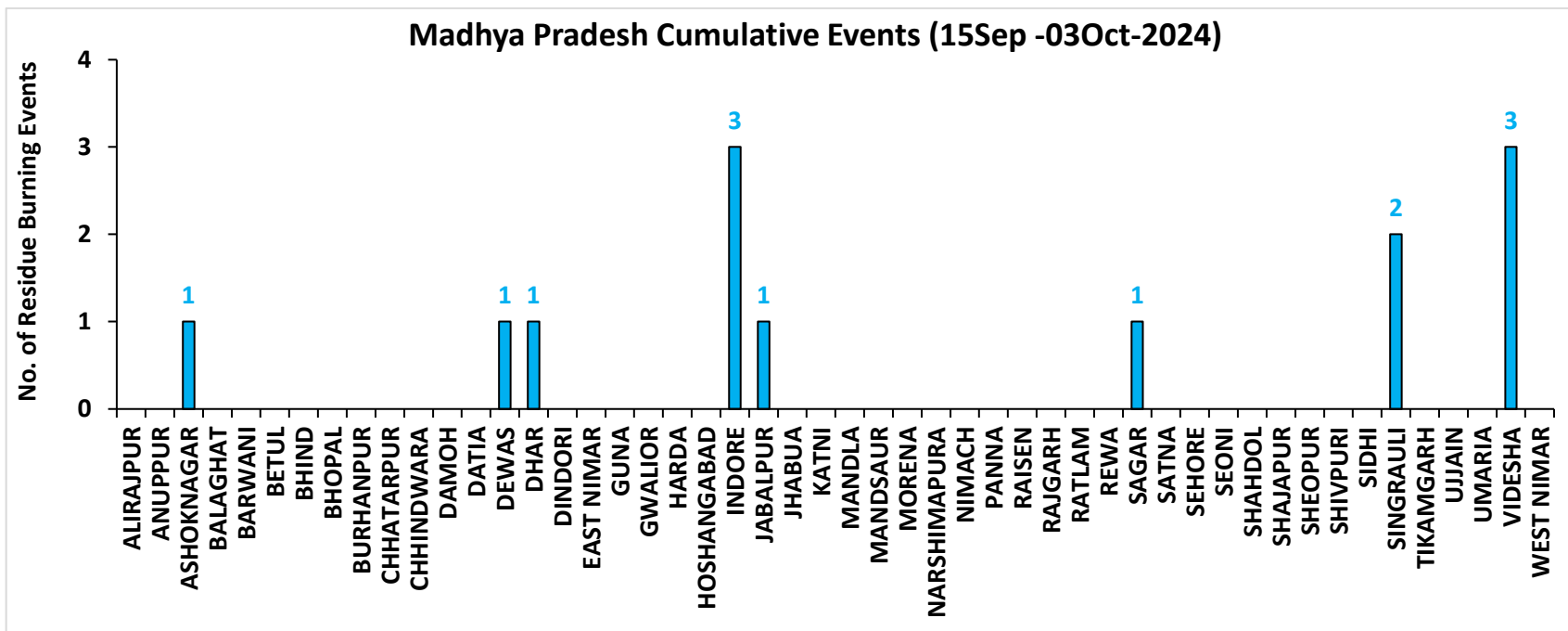
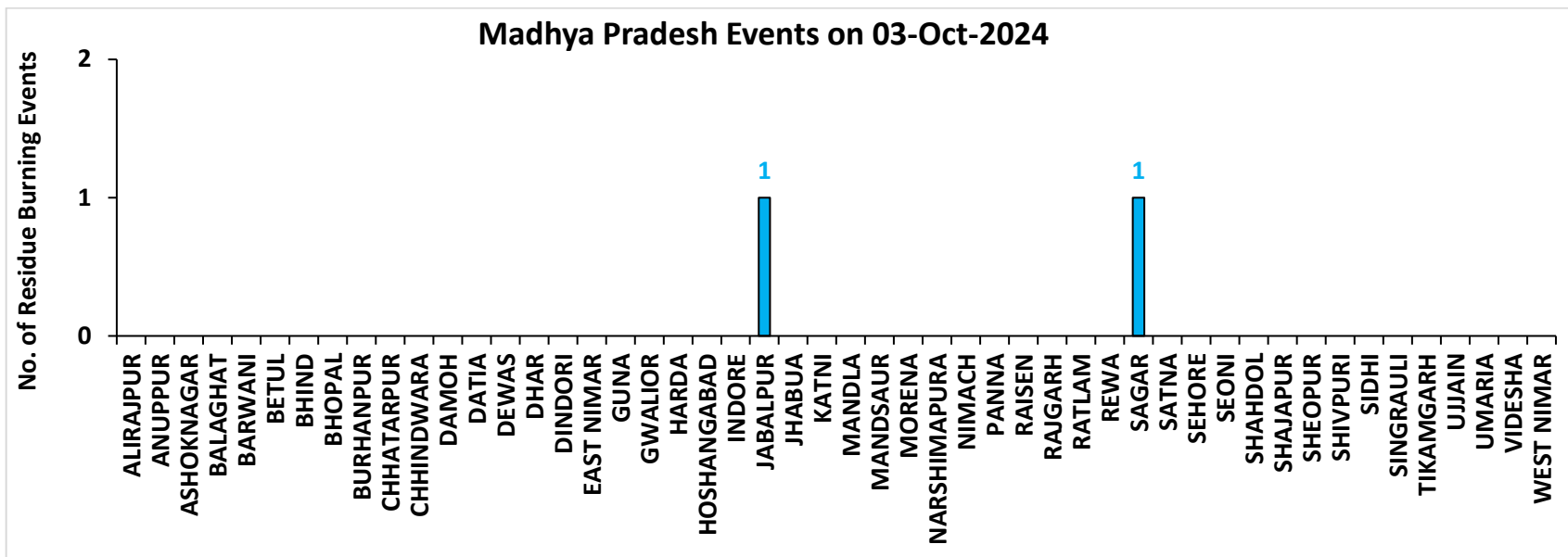
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



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



## District-wise cumulative number of residues burning events in Madhya Pradesh (15Sep-03Oct-2024)



**District-wise cumulative number of residues burning events detected in 2020, 2021, 2022, 2023 and 2024**  
**(Period: 15 September-03 October)**

**(a) Punjab**

District	15 Sep-03 Oct				
	2020	2021	2022	2023	2024
Amritsar	946	158	284	381	86
Barnala	2	0	0	4	0
Bathinda	0	0	0	0	0
Faridkot	3	9	0	2	0
Fatehgarh Sahib	14	0	1	4	1
Fazilka	0	1	0	1	1
Firozpur	16	3	5	6	11
Gurdaspur	48	4	5	6	11
Hoshiarpur	3	0	0	1	0
Jalandhar	12	2	3	8	9
Kapurthala	12	2	3	32	16
Ludhiana	32	11	1	4	2
Malerkotla	0	0	0	0	1
Mansa	1	0	0	1	0
Moga	9	0	0	0	0
Muktsar	1	1	1	0	0
Pathankot	0	0	0	0	0
Patiala	49	11	6	21	2
Rupnagar	1	0	0	0	1
Sangrur	15	3	0	6	6
SAS NAGAR (Mohali)	7	0	1	14	5
SBS Nagar	2	1	1	1	1
Tarn Taran	268	31	39	69	26
<b>Total</b>	<b>1441</b>	<b>237</b>	<b>350</b>	<b>561</b>	<b>179</b>

**(b) Haryana**

District	15 Sep-03 Oct				
	2020	2021	2022	2023	2024
AMBALA	17	0	3	24	7
BHIWANI	0	0	0	0	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	0	0	0	9
FATEHABAD	13	1	1	6	5
GURGAON	0	0	0	0	0
HISAR	3	0	0	1	1
JHAJJAR	0	0	0	1	0
JIND	0	0	1	5	4
KAITHAL	17	2	1	5	6
KARNAL	36	4	6	14	33
KURUKSHETRA	28	11	4	32	24
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	1	0	0	5	2
PANCHKULA	0	0	0	0	0
PANIPAT	6	0	0	4	1
REWARI	0	0	0	0	0
ROHTAK	0	0	0	1	3
SIRSA	1	0	0	0	1
SONIPAT	2	0	0	17	8
YAMUNANAGAR	7	1	1	22	6
<b>Total</b>	<b>131</b>	<b>19</b>	<b>17</b>	<b>137</b>	<b>110</b>

**(c) Uttar Pradesh**

District	15 Sep-03 Oct																	
	2020	2021	2022	2023	2024	GAUTAMBUDHNAGAR	1	0	0	2	3	MUZAFARNAGAR	0	0	0	0	0	
AGRA	0	0	0	0	0	GAZIPUR	0	0	0	0	0	PILHIBHIT	2	1	2	5	0	
ALIGARH	4	0	1	25	4	GHAZIABAD	1	0	1	4	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	2	3	0	0	0	
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	5	0	4	3	1	
AMROHA	0	0	0	1	0	HAPUR	2	0	0	0	0	SANTKABIRNAGAR	0	0	0	0	0	
AURAIYA	10	0	4	2	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	5	37	51	9	2	
BADAUN	0	0	0	0	0	JALAUN	0	0	0	0	0	SHAMLI	7	2	2	1	1	
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	SIDDHARTHANAGAR	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	1	0	0	0	0	SONBHADRA	0	0	0	0	0	
BARABANKI	1	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	1	3	8	0	0	VARANASI	0	0	0	0	0	
BIJNOR	1	0	1	0	1	KUSHINAGAR	0	0	0	0	0	<b>Total</b>	<b>67</b>	<b>49</b>	<b>78</b>	<b>65</b>	<b>22</b>	
BULANDSAHAR	1	0	2	1	3	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	2	0	0	0	0	MAINPURI	0	0	0	0	0							
ETAWAH	0	0	0	0	0	MATHURA	2	1	0	6	0							
FAIZABAD	0	0	0	0	4	MAU	0	0	0	0	0							
FARRUKHABAD	0	0	0	0	0	MEERUT	6	0	0	0	0							
FATEHPUR	1	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-03 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	1	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>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>

**(e) Rajasthan**

District	15 Sep-03 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	11	0	3	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	2	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	2	0
HANUMANGARH	6	0	1	1	8
JAIPUR	0	0	0	0	0
JAISELMER	1	0	0	0	0
JALOR	0	0	0	0	0
JHALAWAR	0	0	0	1	0
JHUNJHUNUN	0	0	0	0	0
JODHPUR	1	0	0	0	0
KARALI	1	0	0	0	0
KOTA	1	0	1	10	0
NAGPUR	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	0	0
TONK	1	0	0	0	0
UDAIPUR	0	0	0	0	0
<b>Total</b>	<b>29</b>	<b>1</b>	<b>7</b>	<b>23</b>	<b>9</b>

**(f) Madhya Pradesh**

District	15 Sep-03 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	2	1	0
ASHOKNAGAR	5	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	1	2	1
BETUL	0	0	0	0	0	SATNA	1	0	0	0	0
BHIND	0	0	0	0	0	SEHORE	1	0	1	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	1	0	0	1	0	SHAJAPUR	2	0	0	1	0
CHHINDWARA	0	0	0	0	0	SHEOPUR	0	0	0	1	0
DAMOH	5	0	0	2	0	SHIVPURI	0	0	0	0	0
DATIA	1	0	0	2	0	SIDHI	0	0	0	0	0
DEWAS	0	0	0	1	1	SINGRAULI	0	0	0	0	2
DHAR	3	0	0	1	1	TIKAMGARH	0	0	0	0	0
DINDORI	0	0	0	0	0	UJJAIN	3	0	0	3	0
EAST NIMAR	0	0	0	0	0	UMARIA	0	0	0	0	0
GUNA	5	1	1	5	0	VIDESHA	5	1	1	5	3
GWALIOR	3	0	1	0	0	WEST NIMAR	0	0	0	0	0
HARDA	2	2	0	1	0	<b>Total</b>	<b>43</b>	<b>6</b>	<b>7</b>	<b>35</b>	<b>13</b>
HOSHANGABAD	0	0	0	1	0						
INDORE	1	0	0	2	3						
JABALPUR	1	0	0	0	1						
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-03 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
<b>Total</b>	<b>1441</b>	<b>237</b>	<b>350</b>	<b>561</b>	<b>179</b>	<b>131</b>	<b>19</b>	<b>17</b>	<b>137</b>	<b>110</b>	<b>67</b>	<b>49</b>	<b>78</b>	<b>65</b>	<b>22</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
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
<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>29</b>	<b>1</b>	<b>7</b>	<b>23</b>	<b>9</b>	<b>43</b>	<b>6</b>	<b>7</b>	<b>35</b>	<b>13</b>

### Details of residue burning events in Punjab on 03-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	JANDIALA GURU	S-NPP	31.63142	75.01745	12:57:19	D	3.80
2	AMRITSAR	MAJITHA	S-NPP	31.75730	74.98267	12:57:19	D	5.80
3	AMRITSAR	RAYYA	S-NPP	31.52013	75.20618	12:57:19	D	4.60
4	GURDASPUR	BATALA	S-NPP	31.69489	75.21884	12:57:19	D	2.10
5	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.81417	75.06808	12:57:19	D	2.50
6	JALANDHAR	LOHIAN	S-NPP	31.10398	75.18548	12:57:19	D	7.20
7	TARN TARAN	CHOHLA SAHIB	S-NPP	31.30455	74.98986	12:57:19	D	13.40
8	TARN TARAN	KHADUR SAHIB	S-NPP	31.48355	75.08402	12:57:19	D	4.00

### Details of residue burning events in Haryana on 03-Oct-2024

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	FARIDABAD	FARIDABAD	S-NPP	28.42608	77.41315	12:57:19	D	4.70
2	JIND	SAFIDON	S-NPP	29.41632	76.64473	12:57:19	D	2.70
3	JIND	SAFIDON	S-NPP	29.41687	76.64629	12:57:19	D	4.40
4	KAITHAL	GUHLA	S-NPP	30.17325	76.41841	12:57:19	D	2.30
5	KURUKSHETRA	THANESAR	S-NPP	30.00799	76.88333	12:57:19	D	1.60
6	PANIPAT	ISRANA	S-NPP	29.30066	76.96392	12:57:19	D	4.70



**Details of residue burning events in Uttar Pradesh on 03-Oct-2024**

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	KHAIR	S-NPP	27.96905	77.57439	12:57:19	D	3.10
2	BULANDSAHAR	ANUP SHAHR	S-NPP	28.39800	78.14911	12:57:19	D	2.00
3	FAIZABAD	FAIZSBAD	S-NPP	26.75082	82.26520	12:57:19	D	9.00
4	FAIZABAD	FAIZSBAD	S-NPP	26.75355	82.26033	12:57:19	D	18.40
5	FAIZABAD	FAIZSBAD	S-NPP	26.75969	82.25474	12:57:19	D	14.80
6	FAIZABAD	FAIZSBAD	S-NPP	26.76311	82.25403	12:57:19	D	14.80
7	SAMBHAL	SAMBHAL	S-NPP	28.59644	78.45001	12:57:19	D	1.80

**Details of residue burning events in Madhya Pradesh on 03-Oct-2024**

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	JABALPUR	PATAN	S-NPP	23.33274	79.75608	12:57:19	D	5.90
2	SAGAR	BANDA	S-NPP	24.03877	78.82832	01:46:36	N	1.00

**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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