

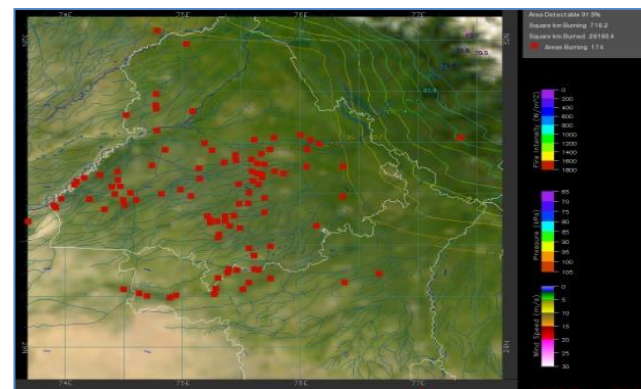
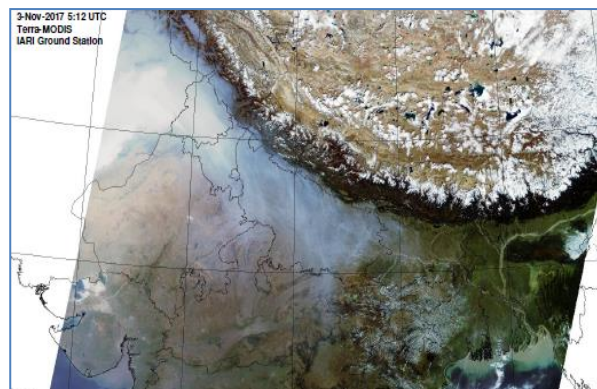


MONITORING WHEAT RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2023

**Bulletin
No. 14**

**Events Date:
14-Apr-2023**

**Issued on:
14-Apr-2023**



Prepared by:

**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

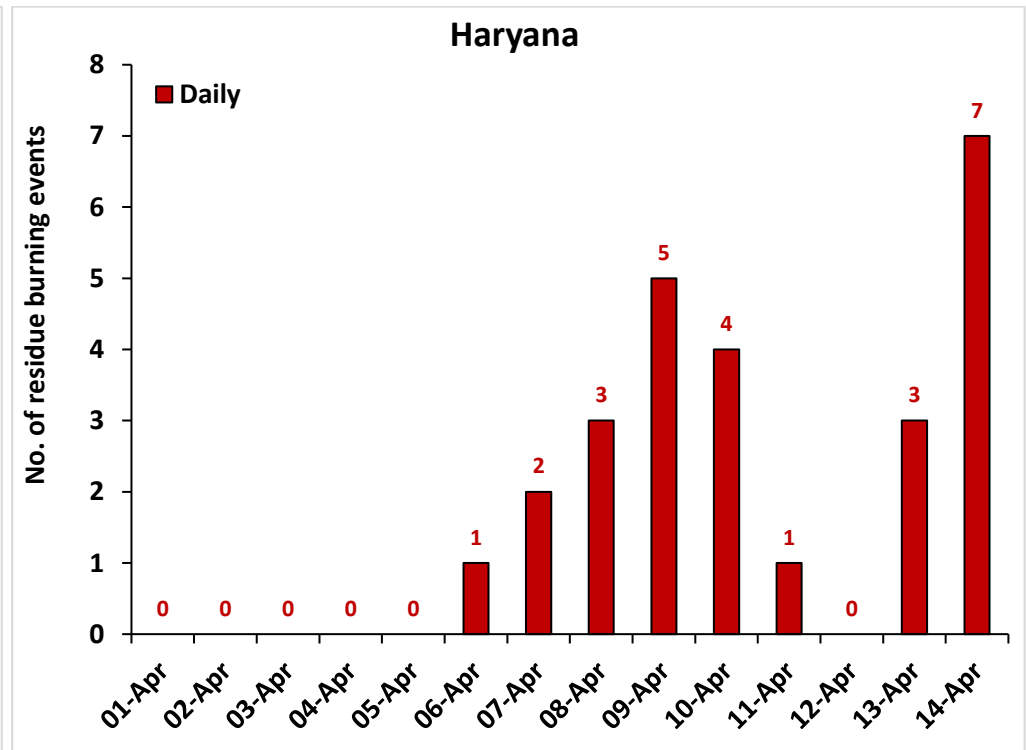
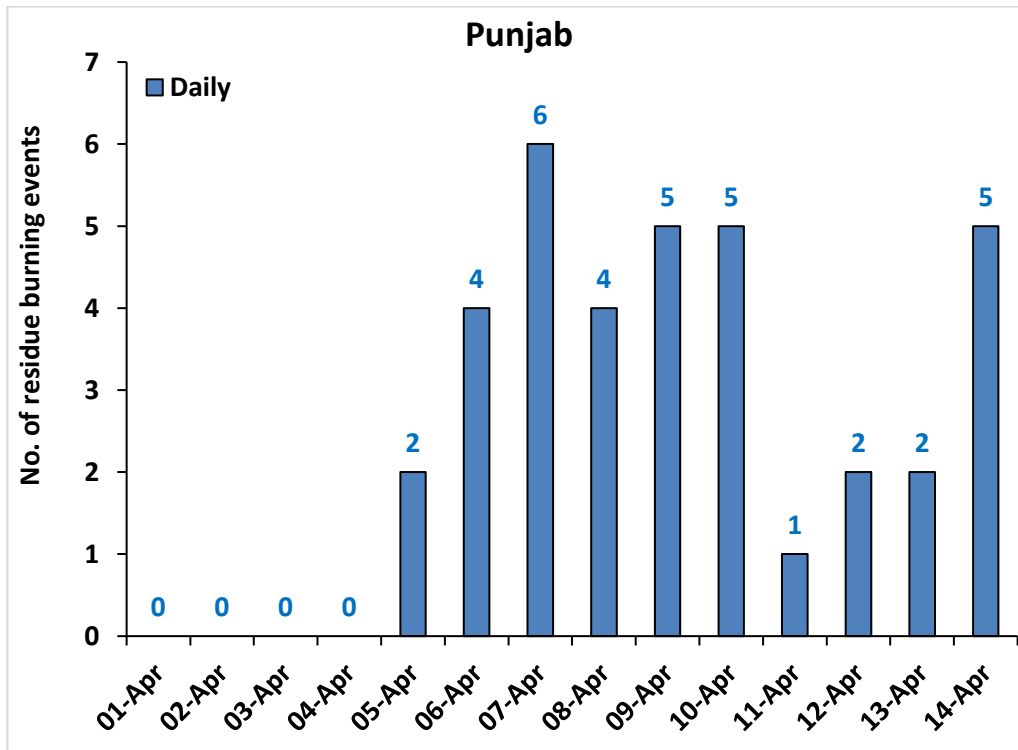
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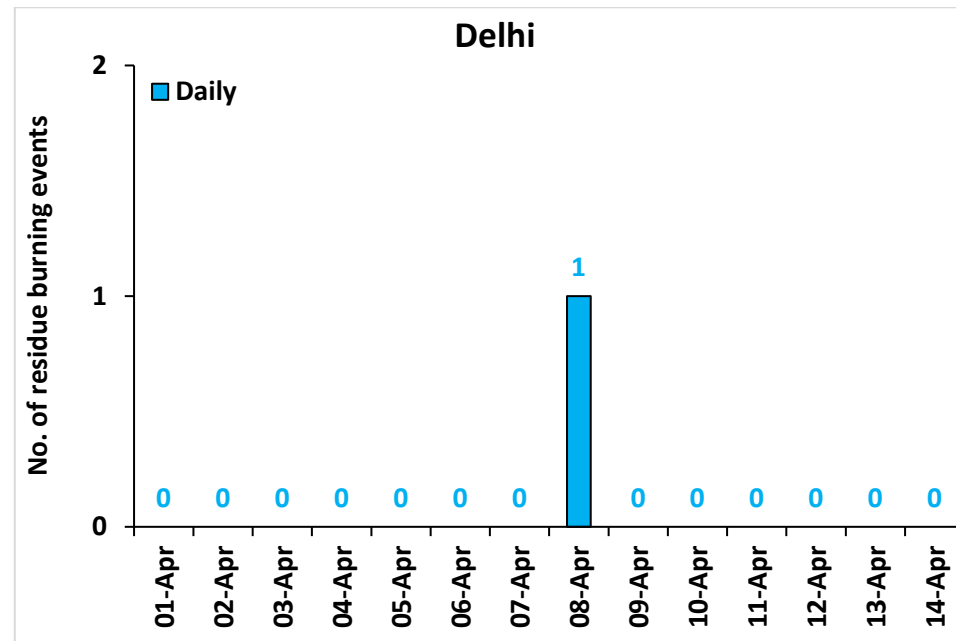
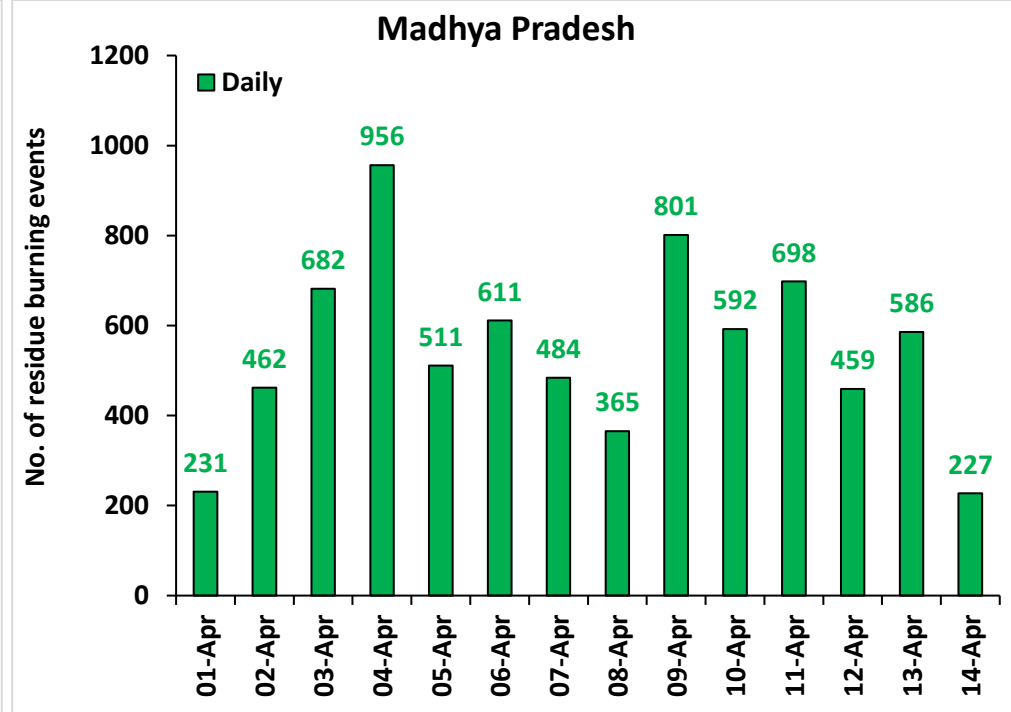
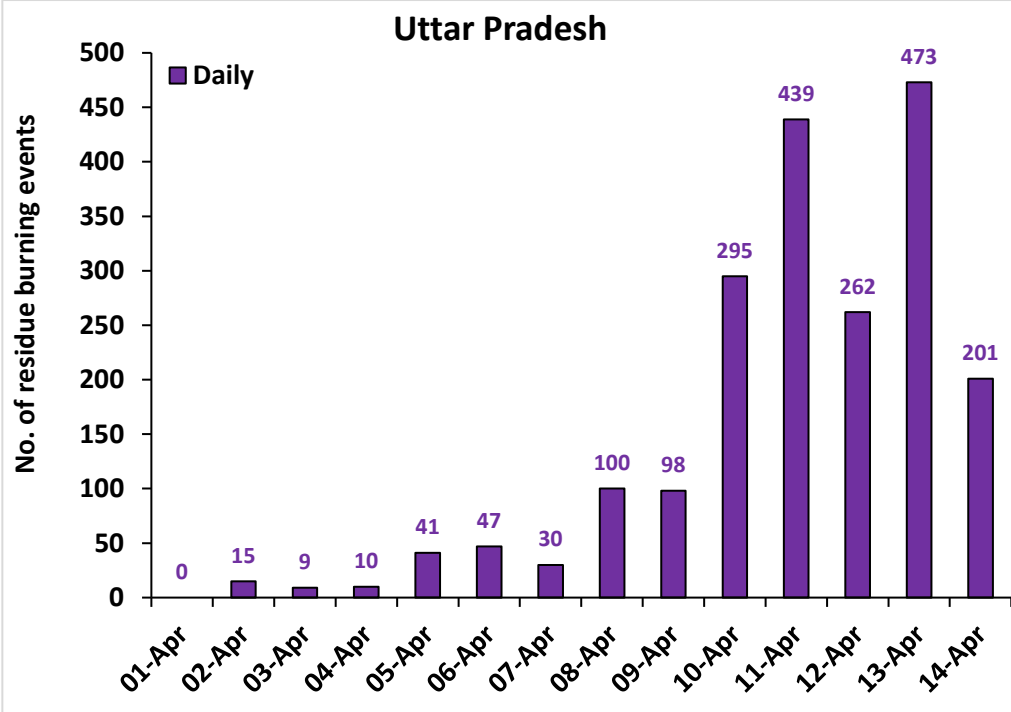


Highlights for 14-April-2023

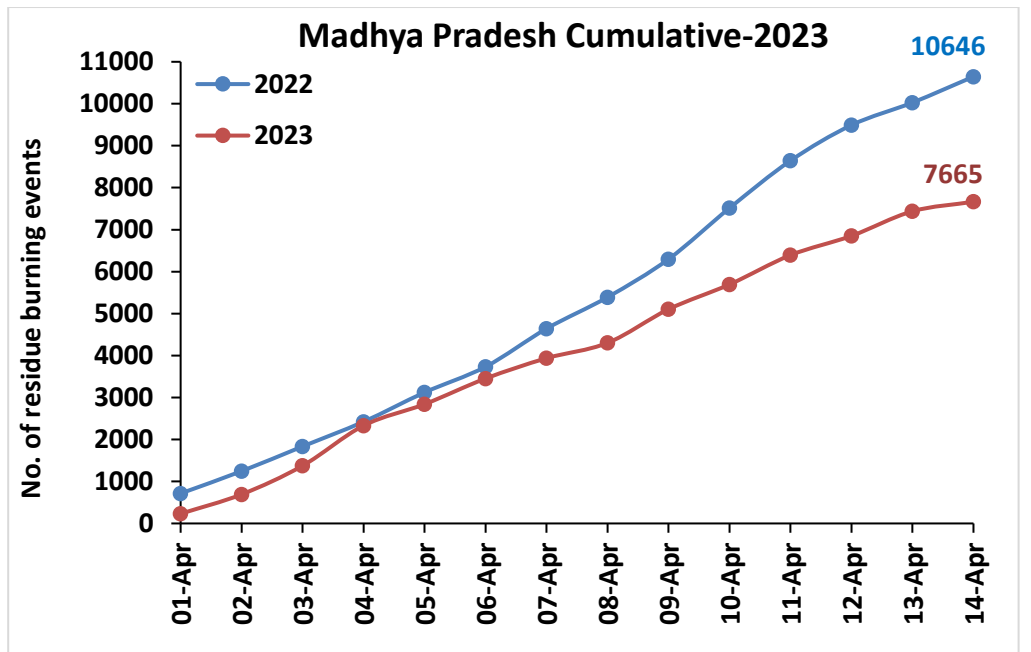
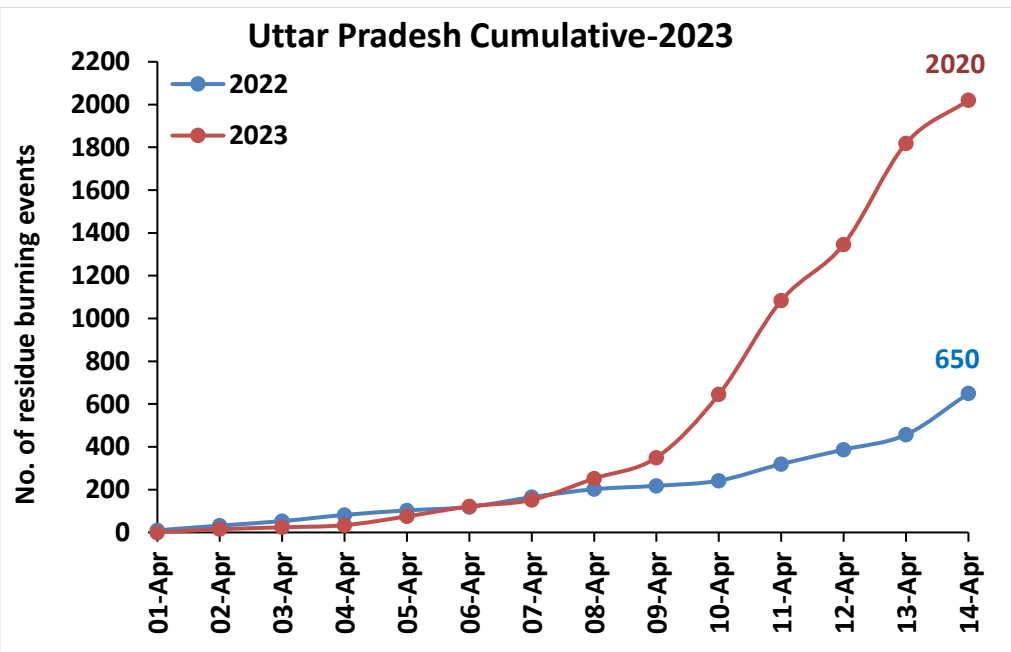
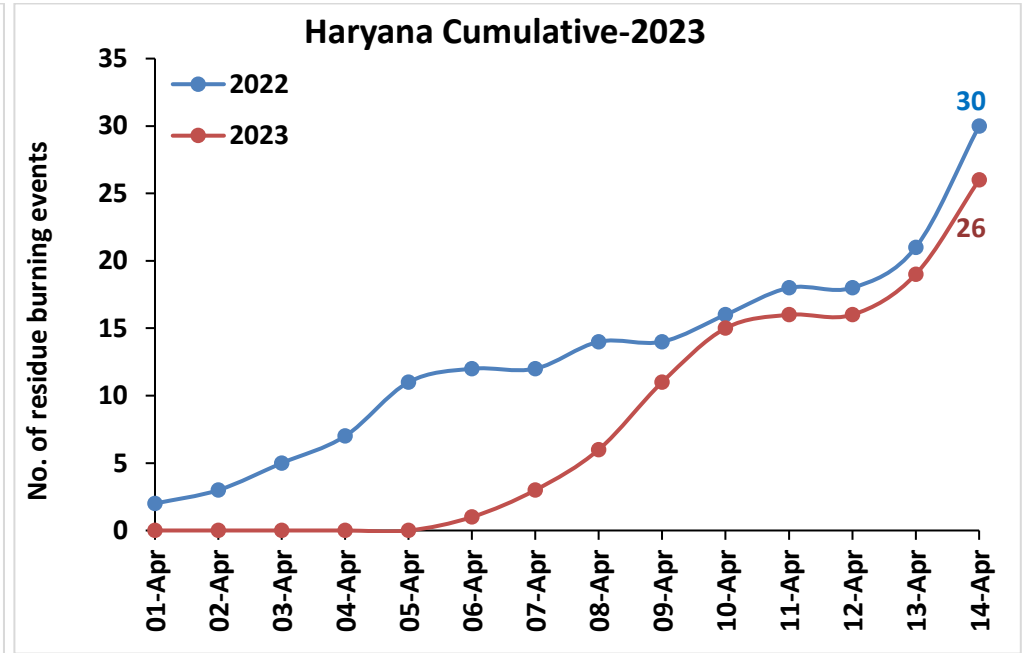
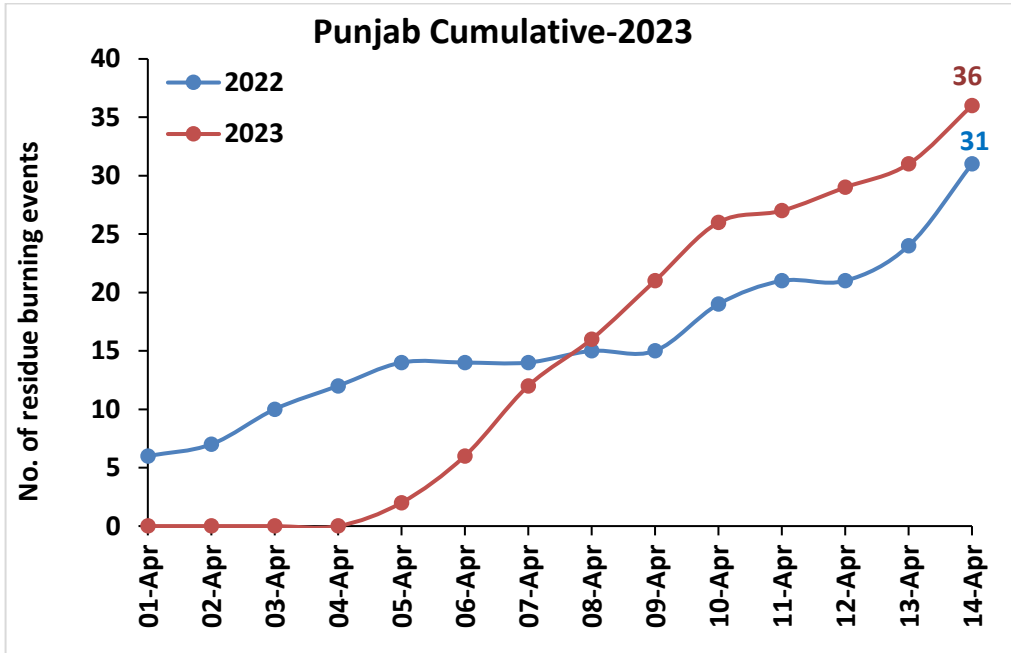
- The active fire events due to wheat residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **440** residue burning events in the five study States on 14-Apr-2023.
- The state wise events detected on 14-Apr-2023 were **05** in Punjab, **07** in Haryana, **00** in Delhi, **201** in Uttar Pradesh and **227** in Madhya Pradesh.
- The number of events has decreased from **1064** on 13-Apr-2023 to **440** on 14-Apr-2023 in the five study states.
- Total **9747** burning events were detected in the five states between 01-Apr-2023 and 14-Apr-2023, which are distributed as **36, 26, 2020, 01,** and **7665** in Punjab, Haryana, UP, Delhi, and MP, respectively.

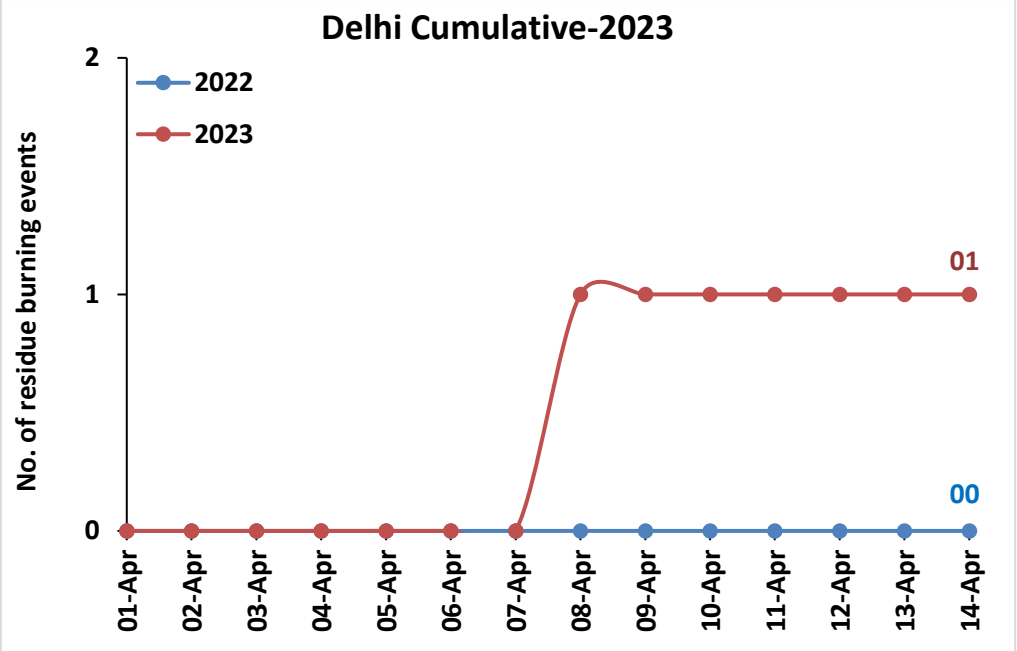
Temporal distribution of wheat residue burning events for the study States in 2023





Comparison of residue burning events in current year (2023) with previous year (2022) for the study States





District-wise cumulative number of wheat residue burning events detected in 2022 and 2023
(Period: 01-14 April)

(a) Punjab

District	01-14 Apr	
	2022	2023
Amritsar	1	4
Barnala	0	0
Bathinda	3	3
Faridkot	3	0
Fatehgarh Sahib	0	1
Fazilka	0	0
Firozpur	1	0
Gurdaspur	1	8
Hoshiarpur	6	2
Jalandhar	2	3
Kapurthala	0	2
Ludhiana	0	2
Mansa	2	0
Moga	1	0
Muktsar	2	0
Pathankot	1	2
Patiala	4	3
Rupnagar	1	0
Sangrur	1	4
SAS NAGAR (Mohali)	0	0
SBS Nagar	2	2
Tarn Taran	0	0
Total	31	36

(b) Haryana

District	01-14 Apr	
	2022	2023
AMBALA	0	1
BHIWANI	0	1
CHARKHI DADRI	1	0
FARIDABAD	1	1
FATEHABAD	2	1
GURGAON	2	0
HISAR	0	2
JHAJJAR	1	4
JIND	5	1
KAITHAL	3	0
KARNAL	0	0
KURUKSHETRA	1	0
MAHENDRAGARH	0	0
MEWAT	0	0
PALWAL	8	4
PANCHKULA	0	0
PANIPAT	0	0
REWARI	1	1
ROHTAK	0	0
SIRSA	0	6
SONIPAT	4	4
YAMUNANAGAR	1	0
Total	30	26

(c) Uttar Pradesh

District	01-14 Apr							
	2022	2023	GAUTAMBUDHNAGAR	0	1	MUZAFARNAGAR	8	10
			GAZIPUR	2	2	PILHIBHIT	7	8
AGRA	0	0	GHAZIABAD	5	1	PRATAPGARH	4	9
ALIGARH	3	5	GONDA	1	5	RAIBEARELI	6	0
ALLAHABAD	2	3	GORAKHPUR	14	27	RAMPUR	14	1
AMBEDKARNAGAR	1	1	HAMIRPUR	1	1	SANTKABIRNAGAR	18	250
AURAIYA	31	5	HARDOI	4	7	SANTRAVIDASNAGAR	0	1
AZAMGARH	2	2	JALAUN	7	1	SHAHJAHANPUR	7	0
BADAUN	4	2	JAUNPUR	0	0	SHARANPUR	6	0
BAGHPAT	1	1	JHANSI	12	2	SHRAWASTI	5	9
BAHRAICH	3	6	JYOTIBAPHULE NAGAR	1	0	SIDDHARTHANAGAR	228	1038
BALLIA	6	17	KANNAUJ	0	0	SITAPUR	6	7
BALRAMPUR	5	13	KANPUR	2	0	SONBHADRA	29	2
BANDA	1	1	KANPUR DEHAT	8	0	SULTANPUR	8	10
BARABANKI	3	0	KAUSHAMBI	2	1	UNNAO	2	0
BAREILLY	6	0	KHERI	31	15	VARANASI	0	0
BASTI	1	46	KUSHINAGAR	1	4	Total	650	2020
BIJNOR	11	12	LACKNOW	0	0			
BULANSAHAR	1	0	LALITPUR	12	3			
CHANDAULI	6	0	MAHAMAYANAGAR	0	1			
CHITRAKOOT	10	1	MAHARAJGANJ	75	411			
DEORIA	1	37	MAHOBA	1	2			
ETAH	0	0	MAINPURI	0	2			
ETAWAH	1	0	MATHURA	4	10			
FAIZABAD	0	7	MAU	0	5			
FARRUKHABAD	0	2	MEERUT	2	2			
FATEHPUR	12	2	MIRZAPUR	3	1			
FIROZABAD	1	0	MORADABAD	2	8			

(d) Madhya Pradesh

District	01-14 Apr				
	2022	2023			
			PANNA	29	7
ALIRAJPUR	0	0	RAISEN	1101	596
ANUPPUR	11	0	RAJGARH	19	33
ASHOKNAGAR	91	42	RATLAM	38	100
BALAGHAT	11	0	REWA	14	6
BARWANI	4	4	SAGAR	260	114
BETUL	47	17	SATNA	29	8
BHIND	4	3	SEHORE	568	346
BHOPAL	150	29	SEONI	116	60
BURHANPUR	6	1	SHAHDOL	35	3
CHHATARPUR	27	12	SHAJAPUR	72	108
CHHINDWARA	65	55	SHEOPUR	26	32
DAMOH	79	99	SHIVPURI	22	15
DATIA	2	7	SIDHI	6	0
DEWAS	222	390	SINGRAULI	30	1
DHAR	506	698	TIKAMGARH	5	13
DINDORI	26	0	UJJAIN	253	566
EAST NIMAR	43	79	UMARIA	18	1
GUNA	117	83	VIDESHA	1201	268
GWALIOR	6	4	WEST NIMAR	6	21
HARDA	282	204	Total	10646	7665
HOSHANGABAD	4000	2703			
INDORE	325	576			
JABALPUR	553	222			
JHABUA	0	2			
KATNI	93	32			
MANDLA	20	5			
MANDSAUR	6	22			
MORENA	2	0			
NARSHIMAPURA	98	72			
NIMACH	2	6			

(e) Delhi

District	01-14 Apr	
	2022	2023
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	0	0
NORTH EAST	0	0
NORTH WEST DELHI	0	0
SHAHADRA	0	0
SOUTH	0	0
SOUTH EAST	0	0
SOUTH WEST DELHI	0	0
WEST DELHI	0	1
Total	0	1

State-wise and date-wise number of wheat residue burning events detected in 2022 and 2023
(Period: 01-14 April)

Date	Punjab		Haryana		Uttar Pradesh		Delhi		Madhya Pradesh	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
01-Apr	6	0	2	0	10	0	0	0	715	231
02-Apr	1	0	1	0	22	15	0	0	531	462
03-Apr	3	0	2	0	21	9	0	0	589	682
04-Apr	2	0	2	0	29	10	0	0	589	956
05-Apr	2	2	4	0	21	41	0	0	698	511
06-Apr	0	4	1	1	16	47	0	0	612	611
07-Apr	0	6	0	2	46	30	0	0	908	484
08-Apr	1	4	2	3	37	100	0	1	749	365
09-Apr	0	5	0	5	16	98	0	0	907	801
10-Apr	4	5	2	4	24	295	0	0	1217	592
11-Apr	2	1	2	1	78	439	0	0	1129	698
12-Apr	0	2	0	0	67	262	0	0	847	459
13-Apr	3	2	3	3	70	473	0	0	537	586
14-Apr	7	5	9	7	193	201	0	0	618	227
Total	31	36	30	26	650	2020	0	1	10646	7665

Details of residue burning events in Punjab on 14-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BATHINDA	TALWANDI SABO	TERRA	29.90600	74.95900	11:10:31	D	24.60
2	BATHINDA	TALWANDI SABO	AQUA	29.90800	74.97100	02:05:05	N	33.20
3	JALANDHAR	BHOGPUR	TERRA	31.48800	75.71900	11:10:31	D	8.10
4	SANGRUR	DHURI	S-NPP	30.39466	75.91103	12:47:32	D	5.20
5	SANGRUR	DHURI	S-NPP	30.39708	75.91045	12:47:32	D	5.10

Details of residue burning events in Haryana on 14-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	PALWAL	HASSANPUR	S-NPP	27.98714	77.53548	12:47:32	D	2.20
2	SIRSA	ODHAN	AQUA	29.89800	74.95400	14:35:08	D	54.40
3	SIRSA	ODHAN	TERRA	29.90800	74.94700	11:10:31	D	54.70
4	SIRSA	ODHAN	AQUA	29.91000	74.94300	02:05:05	N	46.90
5	SIRSA	ODHAN	S-NPP	29.90524	74.94654	01:37:32	N	2.10
6	SIRSA	ODHAN	S-NPP	29.90660	74.94768	03:17:07	N	15.60
7	SIRSA	ODHAN	S-NPP	29.91117	74.94283	01:37:32	N	25.00

Details of residue burning events in Uttar Pradesh on 14-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BALLIA	SIKANDARPUR	S-NPP	26.02650	83.96296	01:37:32	N	1.10
2	BALRAMPUR	TULSIPUR	S-NPP	27.49808	82.63939	01:37:32	N	0.40
3	BANDA	BANDA	S-NPP	25.64445	80.53056	12:47:32	D	4.20
4	BASTI	BASTI	S-NPP	26.84676	82.79810	01:37:32	N	0.90
5	BASTI	BHANPUR	S-NPP	27.09328	82.70573	01:37:32	N	1.00
6	BASTI	BHANPUR	S-NPP	27.09388	82.70142	01:37:32	N	1.00
7	BASTI	BHANPUR	S-NPP	27.10313	82.71183	01:37:32	N	0.70
8	BASTI	RUDHAULI	S-NPP	26.90704	82.78507	01:37:32	N	1.70
9	BASTI	RUDHAULI	S-NPP	26.91379	82.86443	01:37:32	N	1.00
10	BASTI	RUDHAULI	S-NPP	26.91438	82.86019	01:37:32	N	1.80
11	BASTI	RUDHAULI	S-NPP	26.91615	82.84748	01:37:32	N	0.90
12	BASTI	RUDHAULI	S-NPP	26.91961	82.84808	01:37:32	N	0.90
13	BASTI	RUDHAULI	S-NPP	26.92608	82.80137	01:37:32	N	1.30
14	BASTI	RUDHAULI	S-NPP	26.95863	82.89819	01:37:32	N	1.70
15	BASTI	RUDHAULI	S-NPP	26.95874	82.87223	01:37:32	N	1.30
16	BASTI	RUDHAULI	S-NPP	26.96089	82.90723	01:37:32	N	0.80
17	BASTI	RUDHAULI	S-NPP	26.96160	82.87706	01:37:32	N	1.20
18	BASTI	RUDHAULI	S-NPP	26.96494	82.90361	01:37:32	N	0.80
19	BIJNOR	NAGINA	S-NPP	29.49776	78.67001	12:47:32	D	4.00
20	DEORIA	BARHAJ	S-NPP	26.31941	83.75976	01:37:32	N	1.40
21	DEORIA	RUDRAPUR	S-NPP	26.43240	83.70145	01:37:32	N	1.50
22	DEORIA	SALEMPUR	S-NPP	26.39327	83.94575	01:37:32	N	0.90
23	GORAKHPUR	BANSGAON	S-NPP	26.51019	83.37808	01:37:32	N	0.40
24	GORAKHPUR	BANSGAON	S-NPP	26.51640	83.38333	01:37:32	N	0.50
25	MAHARAJGANJ	MAHARAJGANJ	S-NPP	26.89861	83.53809	01:37:32	N	1.60
26	MAHARAJGANJ	MAHARAJGANJ	S-NPP	26.90200	83.53870	01:37:32	N	1.60
27	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.05679	83.45675	01:37:32	N	1.00
28	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.08442	83.48261	01:37:32	N	1.00
29	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.20644	83.53165	01:37:32	N	0.40

30	MAHARAJGANJ	NAUTANWA	S-NPP	27.28332	83.43211	01:37:32	N	2.80
31	MAHARAJGANJ	NAUTANWA	S-NPP	27.28390	83.42800	01:37:32	N	2.80
32	MAHARAJGANJ	NAUTANWA	S-NPP	27.29142	83.39980	01:37:32	N	3.80
33	MAHARAJGANJ	NAUTANWA	S-NPP	27.29424	83.40452	01:37:32	N	1.40
34	MAHARAJGANJ	NAUTANWA	S-NPP	27.34989	83.50131	01:37:32	N	0.50
35	MAHARAJGANJ	NAUTANWA	S-NPP	27.37145	83.49677	01:37:32	N	0.40
36	MAHARAJGANJ	NAUTANWA	S-NPP	27.37283	83.43801	01:37:32	N	0.50
37	MAHARAJGANJ	NICHLAUL	S-NPP	27.27376	83.64392	01:37:32	N	0.50
38	MAHARAJGANJ	NICHLAUL	S-NPP	27.27434	83.63987	01:37:32	N	1.80
39	MAHARAJGANJ	NICHLAUL	S-NPP	27.27493	83.63581	01:37:32	N	1.80
40	MAHARAJGANJ	PHARENDA	S-NPP	27.28001	83.25780	01:37:32	N	0.50
41	MATHURA	CHHATA	S-NPP	27.76603	77.36079	12:47:32	D	2.10
42	MATHURA	CHHATA	S-NPP	27.76622	77.33822	12:47:32	D	1.70
43	MATHURA	CHHATA	S-NPP	27.78719	77.50063	12:47:32	D	2.80
44	MATHURA	CHHATA	S-NPP	27.79227	77.49917	12:47:32	D	2.80
45	MEERUT	MAWANA	S-NPP	29.04676	77.90589	12:47:32	D	5.50
46	MIRZAPUR	CHUNAR	S-NPP	25.10058	83.09643	01:37:32	N	0.80
47	SANTKABIRNAGAR	KHALILABAD	AQUA	26.84500	82.97700	02:05:05	N	12.50
48	SANTKABIRNAGAR	KHALILABAD	AQUA	26.86600	82.96100	02:05:05	N	6.00
49	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.83617	82.99902	01:37:32	N	3.40
50	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.83676	82.99483	01:37:32	N	0.90
51	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.83854	82.98228	01:37:32	N	1.10
52	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.84317	82.97451	01:37:32	N	1.80
53	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.84376	82.97031	01:37:32	N	5.80
54	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.84780	82.96673	01:37:32	N	1.00
55	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86182	82.95897	01:37:32	N	1.20
56	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86240	82.95477	01:37:32	N	1.20
57	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86298	82.95058	01:37:32	N	1.20
58	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86385	82.85311	01:37:32	N	0.90
59	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86526	82.95957	01:37:32	N	4.20
60	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86821	82.91270	01:37:32	N	1.50
61	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86871	82.96017	01:37:32	N	4.20
62	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86879	82.90849	01:37:32	N	1.50

63	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86929	82.95598	01:37:32	N	1.90
64	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.87846	82.96618	01:37:32	N	1.10
65	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.87963	82.95779	01:37:32	N	0.70
66	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.88360	82.97997	01:37:32	N	1.20
67	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.88704	82.98057	01:37:32	N	1.20
68	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.90726	82.93676	01:37:32	N	1.10
69	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.90785	82.93256	01:37:32	N	1.10
70	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.91079	82.91148	01:37:32	N	0.80
71	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.91534	82.92954	01:37:32	N	2.50
72	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.91556	82.85172	01:37:32	N	0.90
73	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.92004	82.89581	01:37:32	N	1.30
74	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.92063	82.89159	01:37:32	N	1.30
75	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.92247	82.85292	01:37:32	N	1.80
76	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.00385	83.01646	01:37:32	N	0.60
77	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.01183	83.03504	01:37:32	N	1.10
78	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.02382	83.05000	01:37:32	N	1.50
79	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.02853	83.01647	01:37:32	N	0.70
80	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.03364	83.03027	01:37:32	N	2.70
81	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.03424	83.02607	01:37:32	N	1.40
82	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.04160	83.04883	01:37:32	N	2.30
83	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.04503	83.04943	01:37:32	N	0.50
84	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.04847	83.05004	01:37:32	N	0.50
85	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.05060	83.08469	01:37:32	N	0.60
86	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.05336	83.08360	01:37:32	N	2.10
87	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.06550	83.02130	01:37:32	N	3.30
88	SIDDHARTHANAGAR	BANSI	S-NPP	27.04064	83.00568	01:37:32	N	1.30
89	SIDDHARTHANAGAR	BANSI	S-NPP	27.04291	82.86326	01:37:32	N	1.30
90	SIDDHARTHANAGAR	BANSI	S-NPP	27.05220	82.84747	01:37:32	N	0.60
91	SIDDHARTHANAGAR	BANSI	S-NPP	27.05655	82.91772	01:37:32	N	0.80
92	SIDDHARTHANAGAR	BANSI	S-NPP	27.06378	82.84076	01:37:32	N	0.80
93	SIDDHARTHANAGAR	BANSI	S-NPP	27.06665	82.84562	01:37:32	N	0.70
94	SIDDHARTHANAGAR	BANSI	S-NPP	27.06724	82.84136	01:37:32	N	1.20
95	SIDDHARTHANAGAR	BANSI	S-NPP	27.07011	82.84622	01:37:32	N	0.70

96	SIDDHARTHANAGAR	BANSI	S-NPP	27.10732	82.79418	01:37:32	N	1.50
97	SIDDHARTHANAGAR	BANSI	S-NPP	27.10849	82.78562	01:37:32	N	0.70
98	SIDDHARTHANAGAR	BANSI	S-NPP	27.11196	82.78622	01:37:32	N	0.90
99	SIDDHARTHANAGAR	BANSI	S-NPP	27.11255	82.78194	01:37:32	N	0.90
100	SIDDHARTHANAGAR	BANSI	S-NPP	27.11284	83.11118	01:37:32	N	1.00
101	SIDDHARTHANAGAR	BANSI	S-NPP	27.11510	83.12015	01:37:32	N	0.70
102	SIDDHARTHANAGAR	BANSI	S-NPP	27.11569	83.11597	01:37:32	N	0.60
103	SIDDHARTHANAGAR	BANSI	S-NPP	27.11602	82.78254	01:37:32	N	0.90
104	SIDDHARTHANAGAR	BANSI	S-NPP	27.11628	83.11179	01:37:32	N	0.60
105	SIDDHARTHANAGAR	BANSI	S-NPP	27.11764	82.84844	01:37:32	N	0.80
106	SIDDHARTHANAGAR	BANSI	S-NPP	27.12109	83.05256	01:37:32	N	1.50
107	SIDDHARTHANAGAR	BANSI	S-NPP	27.12437	82.92783	01:37:32	N	0.90
108	SIDDHARTHANAGAR	BANSI	S-NPP	27.12737	82.88063	01:37:32	N	1.30
109	SIDDHARTHANAGAR	BANSI	S-NPP	27.12783	82.92844	01:37:32	N	0.60
110	SIDDHARTHANAGAR	BANSI	S-NPP	27.13084	82.88123	01:37:32	N	1.30
111	SIDDHARTHANAGAR	BANSI	S-NPP	27.13430	82.88183	01:37:32	N	2.20
112	SIDDHARTHANAGAR	BANSI	S-NPP	27.13489	82.87759	01:37:32	N	0.60
113	SIDDHARTHANAGAR	BANSI	S-NPP	27.13776	82.88243	01:37:32	N	2.20
114	SIDDHARTHANAGAR	BANSI	S-NPP	27.14122	82.88303	01:37:32	N	1.20
115	SIDDHARTHANAGAR	BANSI	S-NPP	27.14468	82.88363	01:37:32	N	1.20
116	SIDDHARTHANAGAR	BANSI	S-NPP	27.19113	82.83059	01:37:32	N	1.30
117	SIDDHARTHANAGAR	BANSI	S-NPP	27.19228	82.82962	01:37:32	N	2.00
118	SIDDHARTHANAGAR	BANSI	S-NPP	27.19400	82.83546	01:37:32	N	1.30
119	SIDDHARTHANAGAR	BANSI	S-NPP	27.19460	82.83118	01:37:32	N	1.30
120	SIDDHARTHANAGAR	BANSI	S-NPP	27.19517	82.83450	01:37:32	N	2.00
121	SIDDHARTHANAGAR	BANSI	S-NPP	27.20094	82.84425	01:37:32	N	4.40
122	SIDDHARTHANAGAR	BANSI	S-NPP	27.20153	82.83997	01:37:32	N	4.40
123	SIDDHARTHANAGAR	BANSI	S-NPP	27.20214	82.80943	01:37:32	N	2.10
124	SIDDHARTHANAGAR	BANSI	S-NPP	27.20272	82.80513	01:37:32	N	2.10
125	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.10623	82.72373	01:37:32	N	0.80
126	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.11434	82.74274	01:37:32	N	1.50
127	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.14912	82.74876	01:37:32	N	0.90
128	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.15260	82.74937	01:37:32	N	2.70

129	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.15549	82.75426	01:37:32	N	1.00
130	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.16504	82.65879	01:37:32	N	0.60
131	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.17157	82.61107	01:37:32	N	1.70
132	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.17552	82.66060	01:37:32	N	0.60
133	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.24409	82.68439	01:37:32	N	2.60
134	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.24469	82.68005	01:37:32	N	2.60
135	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.24759	82.68498	01:37:32	N	0.90
136	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.26102	82.66510	01:37:32	N	0.80
137	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.26161	82.66077	01:37:32	N	0.70
138	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.26451	82.66570	01:37:32	N	0.90
139	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.26510	82.66137	01:37:32	N	2.00
140	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.26570	82.65702	01:37:32	N	2.00
141	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.26860	82.66197	01:37:32	N	2.00
142	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.28503	82.62028	01:37:32	N	0.70
143	SIDDHARTHANAGAR	ITWA	AQUA	27.33300	82.54000	02:05:05	N	4.90
144	SIDDHARTHANAGAR	ITWA	AQUA	27.36100	82.66400	02:05:05	N	4.80
145	SIDDHARTHANAGAR	ITWA	S-NPP	27.19925	82.80453	01:37:32	N	1.50
146	SIDDHARTHANAGAR	ITWA	S-NPP	27.21841	82.76830	01:37:32	N	0.80
147	SIDDHARTHANAGAR	ITWA	S-NPP	27.26652	82.78103	01:37:32	N	2.30
148	SIDDHARTHANAGAR	ITWA	S-NPP	27.30058	82.81770	01:37:32	N	1.50
149	SIDDHARTHANAGAR	ITWA	S-NPP	27.30215	82.81620	01:37:32	N	1.40
150	SIDDHARTHANAGAR	ITWA	S-NPP	27.31664	82.59890	01:37:32	N	0.70
151	SIDDHARTHANAGAR	ITWA	S-NPP	27.31920	82.68399	01:37:32	N	0.90
152	SIDDHARTHANAGAR	ITWA	S-NPP	27.32858	82.53819	01:37:32	N	1.70
153	SIDDHARTHANAGAR	ITWA	S-NPP	27.32918	82.53380	01:37:32	N	1.70
154	SIDDHARTHANAGAR	ITWA	S-NPP	27.33117	82.78602	01:37:32	N	2.60
155	SIDDHARTHANAGAR	ITWA	S-NPP	27.34700	82.69582	01:37:32	N	0.40
156	SIDDHARTHANAGAR	ITWA	S-NPP	27.35930	82.65791	01:37:32	N	1.40
157	SIDDHARTHANAGAR	ITWA	S-NPP	27.35993	82.62677	01:37:32	N	0.90
158	SIDDHARTHANAGAR	ITWA	S-NPP	27.36215	82.68955	01:37:32	N	1.00
159	SIDDHARTHANAGAR	ITWA	S-NPP	27.36280	82.65850	01:37:32	N	1.40
160	SIDDHARTHANAGAR	ITWA	S-NPP	27.36499	82.72112	01:37:32	N	1.30
161	SIDDHARTHANAGAR	ITWA	S-NPP	27.36565	82.69015	01:37:32	N	1.00

162	SIDDHARTHANAGAR	ITWA	S-NPP	27.36683	82.68146	01:37:32	N	1.10
163	SIDDHARTHANAGAR	ITWA	S-NPP	27.37123	82.77972	01:37:32	N	0.30
164	SIDDHARTHANAGAR	ITWA	S-NPP	27.37182	82.77540	01:37:32	N	0.50
165	SIDDHARTHANAGAR	ITWA	S-NPP	27.37462	82.80676	01:37:32	N	1.60
166	SIDDHARTHANAGAR	ITWA	S-NPP	27.37501	82.67396	01:37:32	N	0.60
167	SIDDHARTHANAGAR	ITWA	S-NPP	27.37560	82.66959	01:37:32	N	0.80
168	SIDDHARTHANAGAR	ITWA	S-NPP	27.37679	82.66090	01:37:32	N	0.70
169	SIDDHARTHANAGAR	ITWA	S-NPP	27.37724	82.70992	01:37:32	N	1.10
170	SIDDHARTHANAGAR	ITWA	S-NPP	27.37869	82.59422	01:37:32	N	0.60
171	SIDDHARTHANAGAR	ITWA	S-NPP	27.38029	82.66150	01:37:32	N	0.80
172	SIDDHARTHANAGAR	ITWA	S-NPP	27.38219	82.59481	01:37:32	N	1.00
173	SIDDHARTHANAGAR	ITWA	S-NPP	27.38279	82.59043	01:37:32	N	0.80
174	SIDDHARTHANAGAR	ITWA	S-NPP	27.38525	82.75562	01:37:32	N	0.90
175	SIDDHARTHANAGAR	ITWA	S-NPP	27.38570	82.59541	01:37:32	N	1.00
176	SIDDHARTHANAGAR	ITWA	S-NPP	27.38584	82.75130	01:37:32	N	1.30
177	SIDDHARTHANAGAR	ITWA	S-NPP	27.38630	82.59103	01:37:32	N	0.80
178	SIDDHARTHANAGAR	ITWA	S-NPP	27.38728	82.66270	01:37:32	N	1.60
179	SIDDHARTHANAGAR	ITWA	S-NPP	27.38788	82.65835	01:37:32	N	1.60
180	SIDDHARTHANAGAR	ITWA	S-NPP	27.39341	82.74817	01:37:32	N	0.80
181	SIDDHARTHANAGAR	ITWA	S-NPP	27.39888	82.68252	01:37:32	N	0.90
182	SIDDHARTHANAGAR	ITWA	S-NPP	27.40008	82.67382	01:37:32	N	0.40
183	SIDDHARTHANAGAR	ITWA	S-NPP	27.40238	82.68312	01:37:32	N	0.90
184	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.24471	83.18904	01:37:32	N	1.10
185	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.34194	83.06714	01:37:32	N	1.20
186	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.34731	83.15424	01:37:32	N	0.80
187	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.37176	83.08101	01:37:32	N	0.80
188	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.37896	83.09337	01:37:32	N	1.20
189	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.38929	83.09518	01:37:32	N	0.80
190	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.39157	83.10422	01:37:32	N	0.40
191	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.40728	83.21878	01:37:32	N	1.40
192	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.29394	82.92857	01:37:32	N	0.60
193	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.37671	83.05840	01:37:32	N	0.70
194	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.37732	82.86437	01:37:32	N	0.80

195	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.37818	83.06052	01:37:32	N	1.80
196	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.37958	83.06323	01:37:32	N	0.70
197	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.38016	83.05901	01:37:32	N	0.70
198	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.38079	82.86497	01:37:32	N	1.30
199	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.38139	82.86069	01:37:32	N	1.30
200	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.42879	82.93705	01:37:32	N	0.60
201	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.45280	82.81385	01:37:32	N	0.50

Details of wheat residue burning events in Madhya Pradesh on 14-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ASHOKNAGAR	MUNGAOLI	S-NPP	24.28848	77.90997	01:37:32	N	1.40
2	ASHOKNAGAR	MUNGAOLI	S-NPP	24.30814	78.05080	01:37:32	N	0.90
3	BHIND	GOHAD	S-NPP	26.48971	78.27498	12:47:32	D	2.10
4	BHOPAL	BERASIYA	S-NPP	23.55307	77.29088	01:37:32	N	0.40
5	BHOPAL	BERASIYA	S-NPP	23.58192	77.35876	01:37:32	N	2.20
6	BHOPAL	BERASIYA	S-NPP	23.58246	77.35396	01:37:32	N	2.20
7	BHOPAL	BERASIYA	S-NPP	23.58394	77.35561	01:37:32	N	2.70
8	BHOPAL	BERASIYA	S-NPP	23.58445	77.35081	01:37:32	N	2.70
9	BHOPAL	BERASIYA	S-NPP	23.58695	77.35455	01:37:32	N	2.20
10	BHOPAL	BERASIYA	S-NPP	23.58842	77.35622	01:37:32	N	1.20
11	BHOPAL	BERASIYA	S-NPP	23.58894	77.35141	01:37:32	N	1.20
12	BHOPAL	BERASIYA	S-NPP	23.59240	77.36164	01:37:32	N	2.50
13	BHOPAL	BERASIYA	S-NPP	23.63598	77.33794	01:37:32	N	0.60
14	BHOPAL	BERASIYA	S-NPP	23.67973	77.58403	01:37:32	N	0.60
15	CHHATARPUR	NOWGOAN	S-NPP	25.00865	79.45435	01:37:32	N	1.10
16	CHHINDWARA	AMARWARA	S-NPP	22.33712	79.27707	01:37:32	N	1.90
17	CHHINDWARA	CHAURAI	AQUA	22.14600	79.33600	02:05:05	N	7.50
18	CHHINDWARA	CHAURAI	S-NPP	22.09815	79.24913	01:37:32	N	1.20
19	CHHINDWARA	CHAURAI	S-NPP	22.09881	79.24385	01:37:32	N	2.10
20	CHHINDWARA	CHAURAI	S-NPP	22.13294	79.35056	01:37:32	N	3.10
21	CHHINDWARA	CHAURAI	S-NPP	22.14272	79.33607	01:37:32	N	2.20
22	CHHINDWARA	CHHINDWARA	S-NPP	22.00919	79.00564	01:37:32	N	1.20
23	CHHINDWARA	PARASIA	S-NPP	22.03933	78.68024	12:47:32	D	3.00
24	CHHINDWARA	TAMIA	S-NPP	22.31929	78.72607	01:37:32	N	0.80
25	DAMOH	BATIAGARH	S-NPP	24.11697	79.43437	01:37:32	N	0.90
26	DATIA	DATIA	S-NPP	25.70792	78.67026	01:37:32	N	1.10
27	DEWAS	BAGLI	S-NPP	22.64493	76.31850	12:47:32	D	4.60
28	DEWAS	DEWAS	S-NPP	22.99370	76.00150	12:47:32	D	4.70
29	DEWAS	DEWAS	S-NPP	22.99494	76.00679	12:47:32	D	7.40

30	DEWAS	DEWAS	S-NPP	22.99868	76.00282	12:47:32	D	7.80
31	DEWAS	TONK KHURD	S-NPP	23.08169	76.28286	01:37:32	N	1.40
32	DHAR	DHAR	S-NPP	22.61204	75.29525	14:27:07	D	4.90
33	DHAR	DHAR	S-NPP	22.64917	75.37538	14:27:07	D	2.50
34	DHAR	DHAR	S-NPP	22.66310	75.39481	14:27:07	D	7.30
35	DHAR	DHAR	S-NPP	22.66359	75.39313	14:27:07	D	7.20
36	DHAR	DHAR	S-NPP	22.67666	75.40902	14:27:07	D	9.70
37	DHAR	SARDARPUR	S-NPP	22.94246	75.10519	12:47:32	D	8.10
38	EAST NIMAR	HARSUD	S-NPP	22.02237	76.71832	01:37:32	N	1.40
39	EAST NIMAR	KHANDWA	S-NPP	22.07238	76.32703	14:27:07	D	4.10
40	EAST NIMAR	KHANDWA	S-NPP	22.07244	76.32740	14:27:07	D	4.80
41	GUNA	GUNA	S-NPP	24.85241	77.01001	01:37:32	N	1.90
42	GUNA	GUNA	S-NPP	24.91711	77.09413	01:37:32	N	0.60
43	GUNA	RAGHOGARH	S-NPP	24.00910	77.23254	01:37:32	N	2.60
44	GUNA	RAGHOGARH	S-NPP	24.00916	77.23370	01:37:32	N	1.00
45	GUNA	RAGHOGARH	S-NPP	24.00968	77.22866	01:37:32	N	1.50
46	GUNA	RAGHOGARH	S-NPP	24.01876	77.22868	01:37:32	N	2.20
47	GUNA	RAGHOGARH	S-NPP	24.01879	77.22985	01:37:32	N	2.40
48	GWALIOR	BHITARWAR	TERRA	25.83100	77.97100	11:10:31	D	51.50
49	GWALIOR	BHITARWAR	TERRA	25.83300	77.97800	11:10:31	D	41.00
50	GWALIOR	BHITARWAR	S-NPP	25.87951	78.11728	12:47:32	D	5.30
51	HARDA	KHIRKIYAN	S-NPP	22.09991	76.97581	01:37:32	N	0.80
52	HARDA	KHIRKIYAN	S-NPP	22.15158	76.88960	01:37:32	N	1.60
53	HARDA	TIMURNI	S-NPP	22.52267	77.18767	01:37:32	N	1.00
54	HOSHANGABAD	BABAI	S-NPP	22.72416	77.99967	01:37:32	N	0.40
55	HOSHANGABAD	PIPARIYA	S-NPP	22.65419	78.33778	01:37:32	N	0.50
56	HOSHANGABAD	PIPARIYA	S-NPP	22.69872	78.38934	01:37:32	N	0.70
57	HOSHANGABAD	PIPARIYA	S-NPP	22.74090	78.33183	01:37:32	N	0.20
58	HOSHANGABAD	SOHAGPUR	S-NPP	22.70107	78.26510	01:37:32	N	0.40
59	HOSHANGABAD	SOHAGPUR	S-NPP	22.70844	78.27451	01:37:32	N	0.60
60	INDORE	DEPALPUR	S-NPP	22.86721	75.49040	14:27:07	D	9.00
61	INDORE	DEPALPUR	S-NPP	22.86760	75.49557	14:27:07	D	13.30
62	INDORE	DEPALPUR	S-NPP	22.86907	75.49316	14:27:07	D	16.20

63	INDORE	DEPALPUR	S-NPP	22.87186	75.46901	14:27:07	D	3.80
64	INDORE	DEPALPUR	S-NPP	22.87317	75.46667	14:27:07	D	8.20
65	INDORE	DEPALPUR	S-NPP	22.87360	75.47188	14:27:07	D	11.80
66	INDORE	DEPALPUR	S-NPP	22.87809	75.46849	14:27:07	D	11.20
67	INDORE	DEPALPUR	S-NPP	22.91892	75.59143	14:27:07	D	5.30
68	INDORE	DEPALPUR	S-NPP	22.92683	75.61206	14:27:07	D	9.50
69	INDORE	DEPALPUR	S-NPP	22.92724	75.61739	14:27:07	D	21.10
70	INDORE	DEPALPUR	S-NPP	22.93361	75.53723	14:27:07	D	6.40
71	INDORE	DEPALPUR	S-NPP	22.93402	75.54243	14:27:07	D	9.60
72	INDORE	DEPALPUR	S-NPP	22.93987	75.53674	14:27:07	D	6.40
73	INDORE	DEPALPUR	S-NPP	22.94028	75.54196	14:27:07	D	9.60
74	INDORE	DEPALPUR	S-NPP	22.94069	75.54720	14:27:07	D	9.60
75	INDORE	DEPALPUR	S-NPP	22.94571	75.53104	14:27:07	D	4.50
76	INDORE	DEPALPUR	S-NPP	22.95160	75.56088	14:27:07	D	11.30
77	INDORE	DEPALPUR	S-NPP	22.95404	75.55676	14:27:07	D	8.00
78	INDORE	DEPALPUR	S-NPP	23.00211	75.56209	14:27:07	D	6.50
79	INDORE	INDORE	S-NPP	22.71067	75.74047	12:47:32	D	7.30
80	INDORE	INDORE	S-NPP	22.73077	75.74084	12:47:32	D	28.10
81	INDORE	INDORE	S-NPP	22.74904	76.06097	12:47:32	D	17.30
82	INDORE	INDORE	S-NPP	22.74952	75.73563	12:47:32	D	13.50
83	INDORE	INDORE	S-NPP	22.75084	76.06084	12:47:32	D	14.40
84	INDORE	INDORE	S-NPP	22.75085	75.74117	12:47:32	D	10.70
85	INDORE	INDORE	S-NPP	22.75157	76.07137	12:47:32	D	28.40
86	INDORE	INDORE	S-NPP	22.75331	76.07127	12:47:32	D	20.80
87	INDORE	INDORE	S-NPP	22.76181	75.99625	12:47:32	D	6.80
88	INDORE	INDORE	S-NPP	22.77412	75.99969	01:37:32	N	1.10
89	INDORE	INDORE	S-NPP	22.77733	76.00095	01:37:32	N	3.80
90	INDORE	INDORE	S-NPP	22.78504	75.77267	12:47:32	D	6.50
91	INDORE	INDORE	S-NPP	22.78754	75.77450	12:47:32	D	9.70
92	INDORE	SANWER	TERRA	23.02700	75.86500	11:10:31	D	31.70
93	INDORE	SANWER	TERRA	23.03800	75.86800	11:10:31	D	44.50
94	INDORE	SANWER	S-NPP	22.97211	75.78365	12:47:32	D	9.10
95	INDORE	SANWER	S-NPP	22.87613	75.73750	14:27:07	D	7.10

96	INDORE	SANWER	S-NPP	22.97025	75.73129	14:27:07	D	6.40
97	JABALPUR	JABALPUR	S-NPP	23.36651	79.93198	01:37:32	N	0.30
98	JABALPUR	PATAN	S-NPP	23.19992	79.71034	01:37:32	N	0.70
99	MANDSAUR	MALHARGARH	S-NPP	24.24673	75.07923	14:27:07	D	9.70
100	MANDSAUR	MANDSAUR	S-NPP	23.95990	75.03262	14:27:07	D	20.80
101	MANDSAUR	MANDSAUR	S-NPP	23.96041	75.03195	14:27:07	D	21.10
102	MANDSAUR	SITAMAU	S-NPP	24.13722	75.41920	01:37:32	N	0.30
103	NARSHIMAPURA	NARSIMHAPUR	S-NPP	23.05623	79.30917	01:37:32	N	0.90
104	NIMACH	NIMACH	S-NPP	24.32937	74.90272	12:47:32	D	10.40
105	NIMACH	NIMACH	S-NPP	24.38672	74.97625	14:27:07	D	8.80
106	NIMACH	NIMACH	S-NPP	24.38710	74.97515	14:27:07	D	5.50
107	RAISEN	BARELI	S-NPP	23.02426	78.21214	01:37:32	N	1.10
108	RAISEN	GAIRATGANJ	S-NPP	23.34302	78.07980	01:37:32	N	1.30
109	RAISEN	GAIRATGANJ	S-NPP	23.42493	77.99595	01:37:32	N	0.90
110	RAISEN	RAISEN	AQUA	23.42300	77.55700	02:05:05	N	9.10
111	RAISEN	RAISEN	AQUA	23.42700	77.54900	02:05:05	N	9.70
112	RAISEN	RAISEN	S-NPP	23.28666	77.68187	01:37:32	N	0.80
113	RAISEN	RAISEN	S-NPP	23.42178	77.54741	01:37:32	N	1.20
114	RAISEN	SILVANI	S-NPP	23.21095	78.33377	01:37:32	N	0.90
115	RAISEN	SILVANI	S-NPP	23.22551	78.31896	01:37:32	N	3.10
116	RAISEN	SILVANI	S-NPP	23.22970	78.31956	01:37:32	N	0.40
117	RAISEN	SILVANI	S-NPP	23.26416	78.53550	01:37:32	N	1.30
118	RAISEN	UDAIPURA	S-NPP	23.03783	78.38258	01:37:32	N	1.30
119	RAISEN	UDAIPURA	S-NPP	23.03833	78.37849	01:37:32	N	1.30
120	RAISEN	UDAIPURA	S-NPP	23.03861	78.38197	01:37:32	N	1.10
121	RAISEN	UDAIPURA	S-NPP	23.03909	78.37787	01:37:32	N	1.10
122	RAISEN	UDAIPURA	S-NPP	23.04279	78.38256	01:37:32	N	1.10
123	RAISEN	UDAIPURA	S-NPP	23.04326	78.37846	01:37:32	N	1.10
124	RAISEN	UDAIPURA	S-NPP	23.05018	78.39192	01:37:32	N	1.70
125	RAJGARH	BIYAVRA	S-NPP	23.97794	77.13664	01:37:32	N	0.70
126	RAJGARH	SARANGPUR	TERRA	23.63300	76.54900	11:10:31	D	20.90
127	RAJGARH	SARANGPUR	TERRA	23.63600	76.53200	11:10:31	D	16.50
128	RATLAM	ALOTOT	S-NPP	23.77950	75.56499	01:37:32	N	0.70

129	RATLAM	PIPLODA	S-NPP	23.57561	74.92289	01:37:32	N	0.80
130	RATLAM	RATLAM	S-NPP	23.32344	75.12553	01:37:32	N	0.50
131	RATLAM	RATLAM	S-NPP	23.32117	75.13288	14:27:07	D	4.00
132	REWA	MAUGANJ	S-NPP	24.56864	81.85252	12:47:32	D	4.30
133	SAGAR	BANDA	S-NPP	23.96401	78.95657	01:37:32	N	1.40
134	SAGAR	BANDA	S-NPP	23.96808	78.95716	01:37:32	N	0.90
135	SAGAR	KHURAI	S-NPP	24.04429	78.33939	01:37:32	N	1.10
136	SAGAR	KHURAI	S-NPP	24.10372	78.37588	01:37:32	N	0.60
137	SAGAR	KHURAI	S-NPP	24.10485	78.37375	01:37:32	N	1.10
138	SAGAR	KHURAI	S-NPP	24.10819	78.63667	01:37:32	N	1.90
139	SAGAR	KHURAI	S-NPP	24.11235	78.63727	01:37:32	N	1.70
140	SAGAR	KHURAI	S-NPP	24.14392	78.32494	01:37:32	N	0.70
141	SAGAR	KHURAI	S-NPP	24.21001	78.49714	01:37:32	N	0.70
142	SAGAR	KHURAI	S-NPP	24.21901	78.45543	01:37:32	N	0.90
143	SAGAR	SAGAR	S-NPP	23.75866	78.54710	01:37:32	N	0.30
144	SAGAR	SAGAR	S-NPP	23.76006	78.54574	01:37:32	N	0.50
145	SAGAR	SAGAR	S-NPP	23.78098	78.51105	01:37:32	N	0.30
146	SEHORE	AASHTA	S-NPP	22.88157	76.74355	01:37:32	N	0.80
147	SEHORE	AASHTA	S-NPP	23.03798	76.50891	01:37:32	N	1.20
148	SEHORE	AASHTA	S-NPP	23.03902	76.50977	01:37:32	N	2.10
149	SEHORE	AASHTA	S-NPP	23.04269	76.50951	01:37:32	N	1.20
150	SEHORE	AASHTA	S-NPP	23.04373	76.51039	01:37:32	N	2.10
151	SEHORE	SEHORE	S-NPP	23.25392	77.06112	01:37:32	N	0.40
152	SEHORE	SEHORE	S-NPP	23.34735	77.01397	01:37:32	N	1.00
153	SEHORE	SEHORE	S-NPP	23.42438	77.19761	01:37:32	N	1.30
154	SEHORE	SEHORE	S-NPP	23.42890	77.19820	01:37:32	N	0.90
155	SEHORE	SEHORE	S-NPP	23.43517	77.09814	01:37:32	N	1.00
156	SEHORE	SEHORE	S-NPP	23.64383	77.22445	01:37:32	N	0.80
157	SEONI	GHANSAUR	S-NPP	22.47711	79.65936	12:47:32	D	2.00
158	SEONI	GHANSAUR	S-NPP	22.53283	79.80318	12:47:32	D	2.70
159	SEONI	GHANSAUR	S-NPP	22.53782	79.80206	12:47:32	D	2.80
160	SEONI	KURAI	S-NPP	21.89798	79.46398	12:47:32	D	7.00
161	SEONI	LAKHNADOU	AQUA	22.49200	79.49100	02:05:05	N	5.70

162	SEONI	LAKHNADOU	S-NPP	22.48106	79.61943	01:37:32	N	7.40
163	SEONI	LAKHNADOU	S-NPP	22.48564	79.48905	01:37:32	N	2.10
164	SEONI	LAKHNADOU	S-NPP	22.48886	79.49481	01:37:32	N	2.20
165	SEONI	LAKHNADOU	S-NPP	22.48951	79.48961	01:37:32	N	2.10
166	SEONI	LAKHNADOU	S-NPP	22.49016	79.48441	01:37:32	N	2.10
167	SEONI	LAKHNADOU	S-NPP	22.49310	79.52025	12:47:32	D	3.00
168	SEONI	LAKHNADOU	S-NPP	22.49379	79.52345	12:47:32	D	4.00
169	SEONI	LAKHNADOU	S-NPP	22.57761	79.41018	12:47:32	D	2.10
170	SEONI	SEONI	S-NPP	22.18065	79.38592	01:37:32	N	2.90
171	SEONI	SEONI	S-NPP	22.28482	79.53431	01:37:32	N	1.10
172	SHAH DOL	SOHAGPUR	S-NPP	23.12323	81.50201	12:47:32	D	4.90
173	SHAJAPUR	GULNA	S-NPP	23.41884	76.52460	01:37:32	N	1.20
174	SHAJAPUR	KALA PIPAL	S-NPP	23.30057	76.97514	01:37:32	N	0.80
175	SHAJAPUR	KALA PIPAL	S-NPP	23.30075	76.97190	01:37:32	N	0.90
176	SHAJAPUR	KALA PIPAL	S-NPP	23.37524	76.97135	01:37:32	N	0.60
177	SHEOPUR	SHEOPUR	S-NPP	25.57240	76.72227	01:37:32	N	0.30
178	SHEOPUR	SHEOPUR	S-NPP	25.61233	76.71477	12:47:32	D	5.50
179	SHEOPUR	SHEOPUR	S-NPP	25.74735	76.69841	12:47:32	D	4.10
180	SHEOPUR	SHEOPUR	S-NPP	25.78767	76.69185	01:37:32	N	0.80
181	SHEOPUR	SHEOPUR	S-NPP	25.78899	76.69174	01:37:32	N	0.90
182	SHIVPURI	KOLARAS	S-NPP	25.10197	77.62354	01:37:32	N	0.90
183	SHIVPURI	PICHHOR	S-NPP	25.32907	78.19283	01:37:32	N	0.70
184	UJJAIN	BARNAGAR	S-NPP	22.89415	75.35283	14:27:07	D	9.70
185	UJJAIN	BARNAGAR	S-NPP	22.89455	75.35790	14:27:07	D	11.50
186	UJJAIN	GHATIYA	S-NPP	23.44970	75.89456	01:37:32	N	1.30
187	UJJAIN	KACHROD	S-NPP	23.58829	75.34752	01:37:32	N	0.40
188	UJJAIN	MEHIDPUR	S-NPP	23.45029	75.88860	01:37:32	N	1.30
189	UJJAIN	MEHIDPUR	S-NPP	23.67912	75.71987	01:37:32	N	1.10
190	UJJAIN	MEHIDPUR	S-NPP	23.42231	75.69740	14:27:07	D	8.20
191	UJJAIN	MEHIDPUR	S-NPP	23.42485	75.69648	14:27:07	D	6.40
192	UJJAIN	UJJAIN	S-NPP	23.05024	75.86306	14:27:07	D	13.30
193	VIDESHA	BASODA	S-NPP	23.74763	78.05209	01:37:32	N	0.50
194	VIDESHA	BASODA	S-NPP	23.84493	78.21424	01:37:32	N	0.70

195	VIDESHA	BASODA	S-NPP	23.88591	78.04626	01:37:32	N	1.10
196	VIDESHA	BASODA	S-NPP	23.92746	78.06538	01:37:32	N	2.80
197	VIDESHA	BASODA	S-NPP	23.92883	78.06747	01:37:32	N	3.30
198	VIDESHA	BASODA	S-NPP	23.92932	78.06304	01:37:32	N	3.30
199	VIDESHA	BASODA	S-NPP	23.93176	78.06597	01:37:32	N	2.80
200	VIDESHA	GYARASPUR	S-NPP	23.51675	78.01064	01:37:32	N	1.10
201	VIDESHA	GYARASPUR	S-NPP	23.59129	77.89449	01:37:32	N	0.90
202	VIDESHA	GYARASPUR	S-NPP	23.60550	78.05750	01:37:32	N	0.80
203	VIDESHA	GYARASPUR	S-NPP	23.60719	78.05870	01:37:32	N	1.10
204	VIDESHA	GYARASPUR	S-NPP	23.61051	77.95617	01:37:32	N	1.00
205	VIDESHA	GYARASPUR	S-NPP	23.61430	77.96120	01:37:32	N	1.00
206	VIDESHA	GYARASPUR	S-NPP	23.61625	77.96040	01:37:32	N	1.80
207	VIDESHA	KORWAI	S-NPP	23.93751	78.18497	01:37:32	N	0.50
208	VIDESHA	KORWAI	S-NPP	23.93800	78.18063	01:37:32	N	0.50
209	VIDESHA	KORWAI	S-NPP	24.01567	77.92027	01:37:32	N	0.80
210	VIDESHA	KORWAI	S-NPP	24.21888	77.97187	01:37:32	N	0.90
211	VIDESHA	KORWAI	S-NPP	24.22322	77.97247	01:37:32	N	0.70
212	VIDESHA	KORWAI	S-NPP	24.24100	78.04799	01:37:32	N	0.80
213	VIDESHA	LETERI	S-NPP	24.16420	77.38416	01:37:32	N	1.20
214	VIDESHA	NATERAN	S-NPP	23.78890	77.80244	01:37:32	N	2.90
215	VIDESHA	NATERAN	S-NPP	23.83542	77.82266	01:37:32	N	0.80
216	VIDESHA	NATERAN	S-NPP	23.95249	77.69564	01:37:32	N	0.50
217	VIDESHA	NATERAN	S-NPP	23.96412	77.71143	01:37:32	N	0.50
218	VIDESHA	SIRANJ	S-NPP	24.04123	77.81264	01:37:32	N	2.10
219	VIDESHA	SIRANJ	S-NPP	24.11728	77.84977	01:37:32	N	3.30
220	VIDESHA	SIRANJ	S-NPP	24.11780	77.84518	01:37:32	N	1.30
221	VIDESHA	SIRANJ	S-NPP	24.13358	77.74404	01:37:32	N	1.20
222	VIDESHA	SIRANJ	S-NPP	24.13694	77.75394	01:37:32	N	1.30
223	VIDESHA	SIRANJ	S-NPP	24.13861	77.74790	12:47:32	D	4.00
224	VIDESHA	SIRANJ	S-NPP	24.13901	77.74622	12:47:32	D	5.00
225	VIDESHA	SIRANJ	S-NPP	24.17885	77.49980	01:37:32	N	0.50
226	VIDESHA	SIRANJ	S-NPP	24.26522	77.87630	01:37:32	N	1.00
227	WEST NIMAR	BARWAH	S-NPP	22.30428	75.98790	12:47:32	D	4.30

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 wheat mask for the Punjab, Haryana and Uttar Pradesh were provided by MNCFC, MoA&FW, Govt of India
The rabi crop mask for Delhi 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)
