



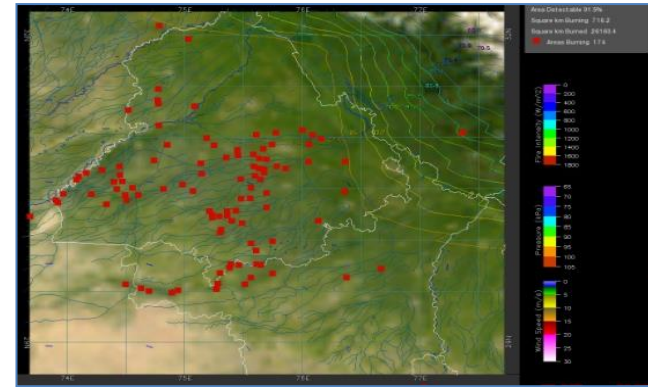
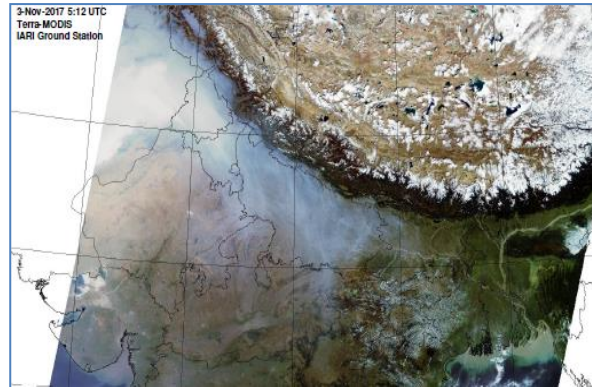
Bulletin No. 27

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



Prepared by:

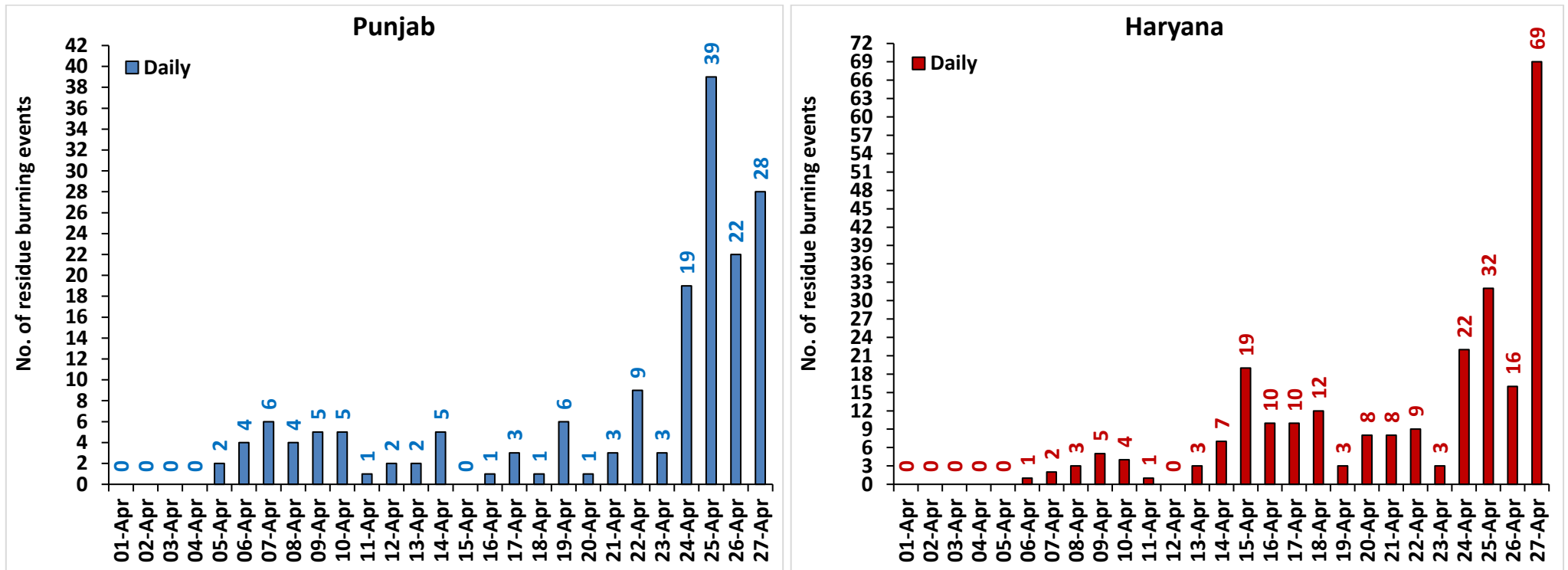
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

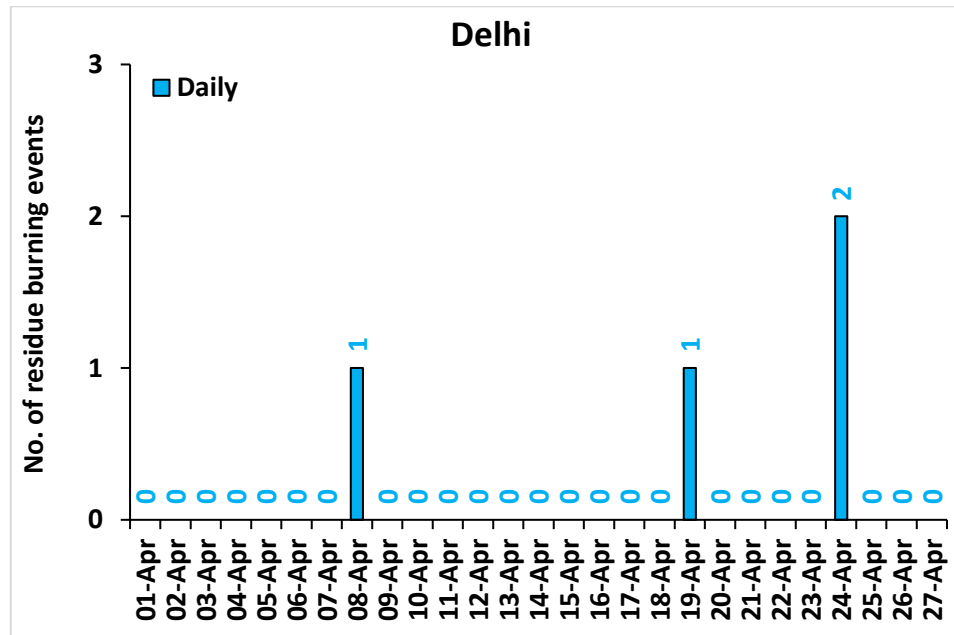
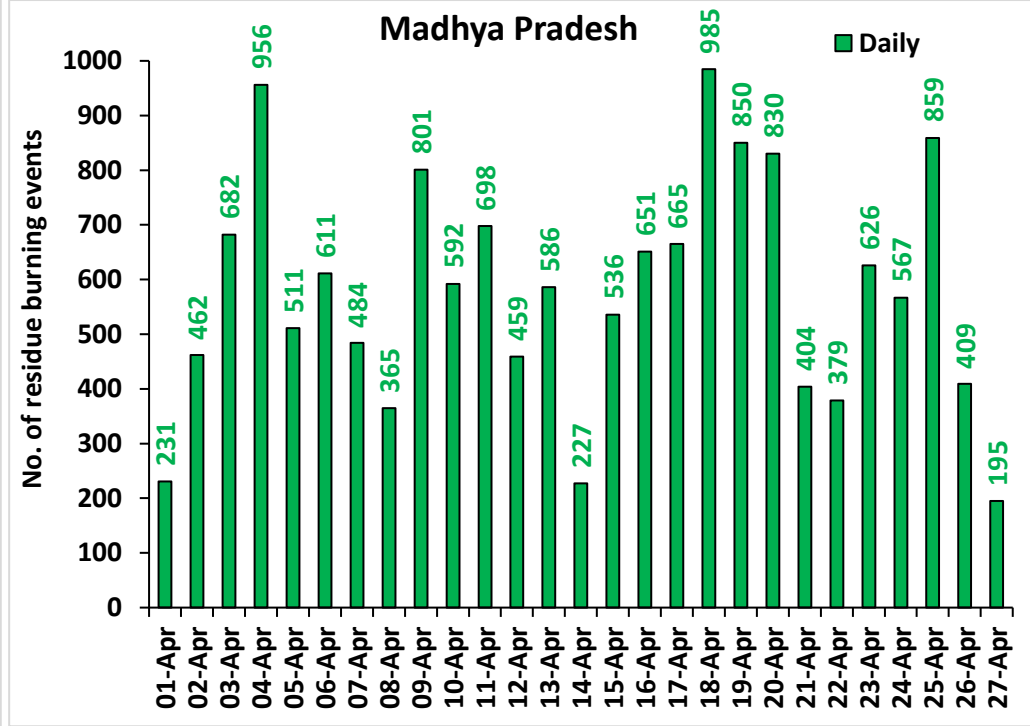
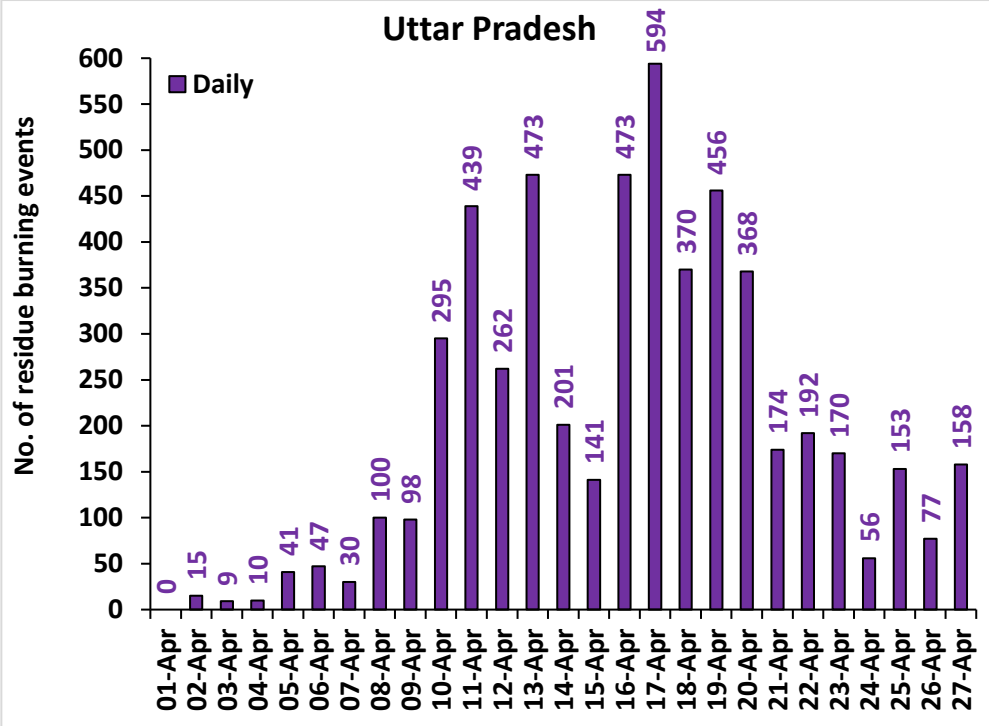
<http://creams.iari.res.in/cms2/>

Highlights for 27-April-2023

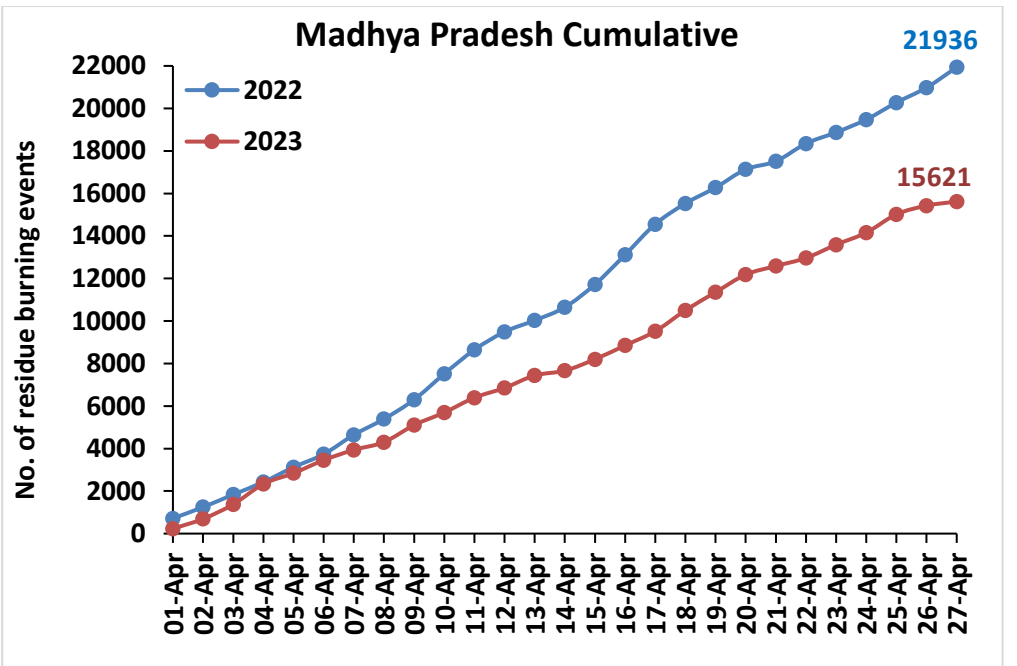
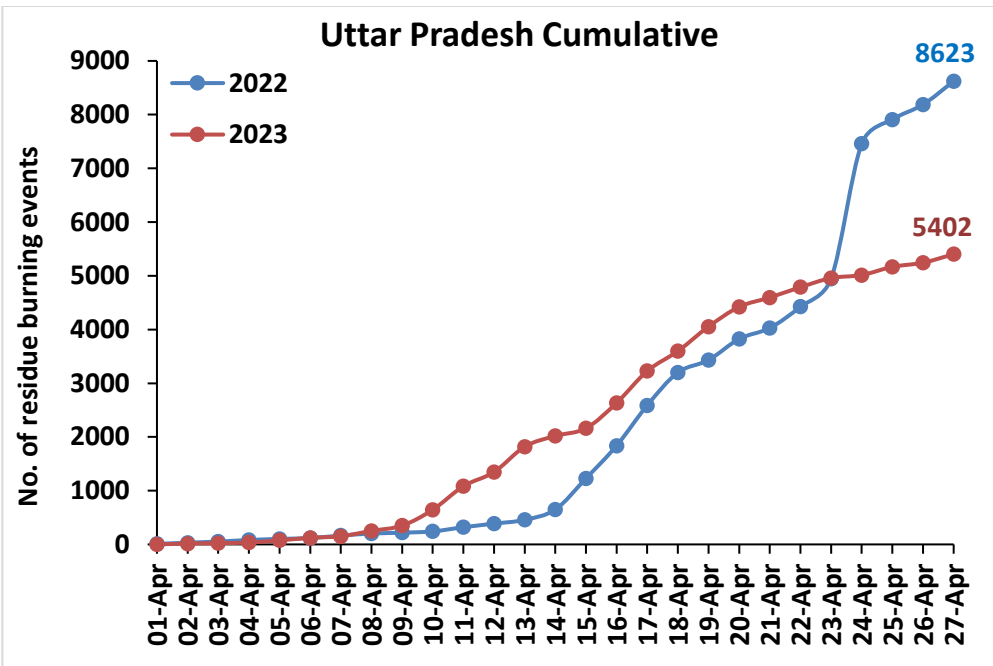
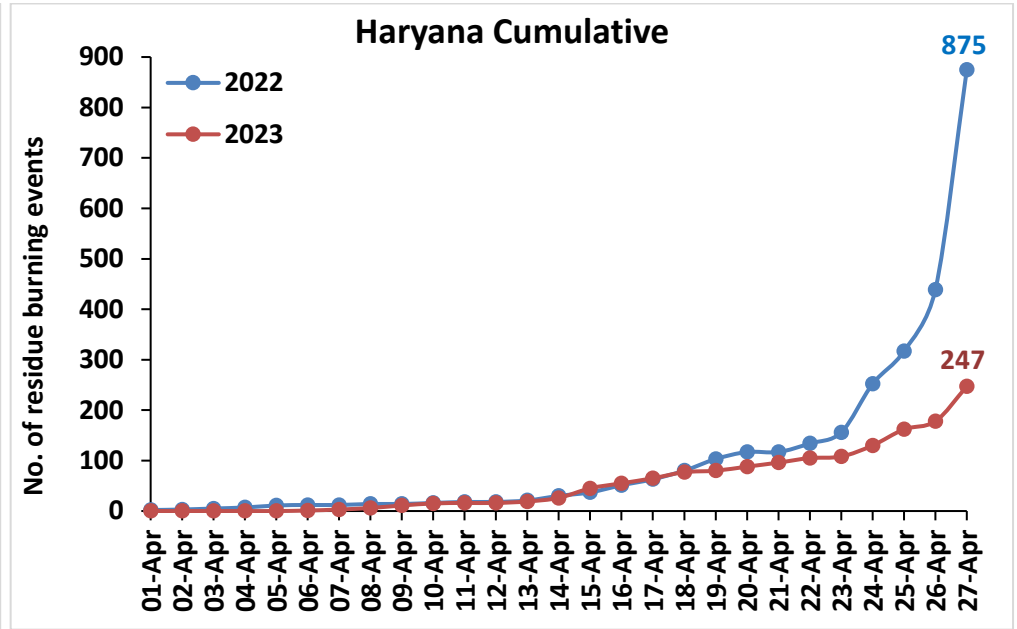
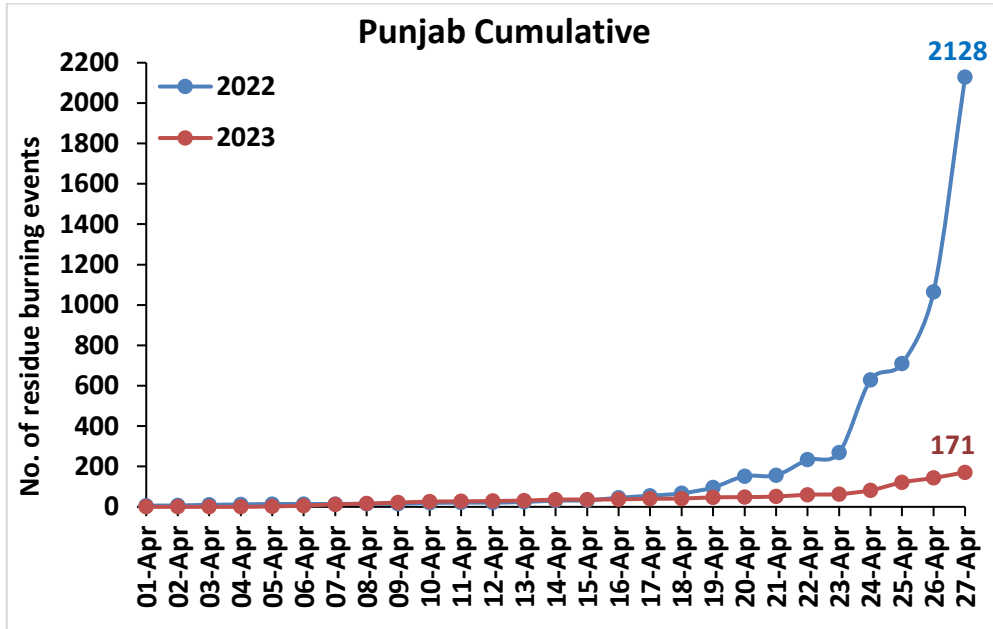
- The active fire events due to wheat residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **450** residue burning events in the five study States on 27-Apr-2023.
- The state wise events detected on 27-Apr-2023 were **28** in Punjab, **69** in Haryana, **00** in Delhi, **158** in Uttar Pradesh and **195** in Madhya Pradesh.
- The number of events has decreased from **524** on 26-Apr-2023 to **450** on 27-Apr-2023 in the five study states.
- Total **21445** burning events were detected in the five states between 01-Apr-2023 and 27-Apr-2023, which are distributed as **171, 247, 5402, 04,** and **15621** in Punjab, Haryana, UP, Delhi, and MP, respectively.

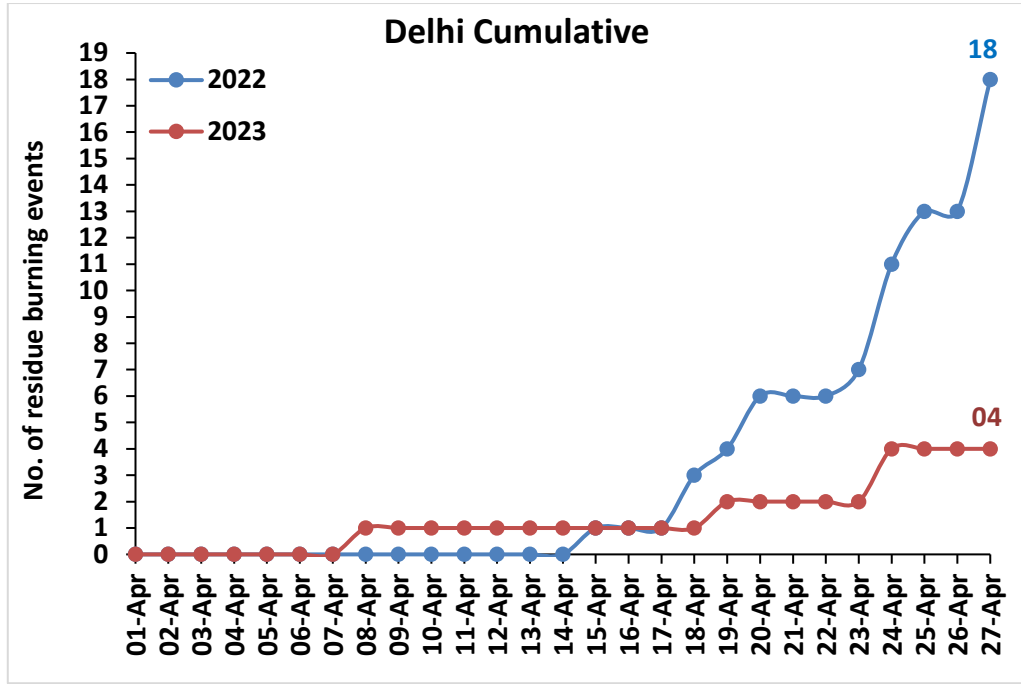
Temporal distribution of wheat residue burning events for the study States in 2023





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: 01-27 April)

(a) Punjab

District	01-27 Apr	
	2022	2023
Amritsar	68	4
Barnala	115	16
Bathinda	177	24
Faridkot	77	4
Fatehgarh Sahib	14	1
Fazilka	159	5
Firozpur	178	4
Gurdaspur	72	9
Hoshiarpur	106	4
Jalandhar	89	7
Kapurthala	90	4
Ludhiana	69	9
Mansa	201	26
Moga	121	0
Muktsar	69	11
Pathankot	17	5
Patiala	114	12
Rupnagar	5	0
Sangrur	296	23
SAS NAGAR (Mohali)	2	0
SBS Nagar	10	2
Tarn Taran	79	1
Total	2128	171

(b) Haryana

District	01-27 Apr	
	2022	2023
AMBALA	14	5
BHIWANI	19	4
CHARKHI DADRI	4	2
FARIDABAD	5	8
FATEHABAD	81	10
GURGAON	6	8
HISAR	26	16
JHAJJAR	58	26
JIND	110	13
KAITHAL	78	6
KARNAL	108	13
KURUKSHETRA	40	6
MAHENDRAGARH	0	0
MEWAT	0	4
PALWAL	26	26
PANCHKULA	2	0
PANIPAT	67	12
REWARI	3	1
ROHTAK	68	10
SIRSA	63	43
SONIPAT	92	28
YAMUNANAGAR	5	6
Total	875	247

(c) Uttar Pradesh

District	01-27 Apr							
	2022	2023						
			GAUTAMBUDHNAGAR	16	16	MUZAFARNAGAR	37	25
			GAZIPUR	26	28	PILHIBHIT	158	41
AGRA	0	0	GHAZIABAD	10	3	PRATAPGARH	16	13
ALIGARH	15	27	GONDA	18	22	RAIBEARELI	63	10
ALLAHABAD	40	17	GORAKHPUR	808	358	RAMPUR	57	15
AMBEDKARNAGAR	5	8	HAMIRPUR	7	7	SANTKABIRNAGAR	639	424
AURAIYA	41	7	HARDOI	57	17	SANTRAVIDASNAGAR	0	1
AZAMGARH	51	65	JALAUN	9	2	SHAHJAHANPUR	152	32
BADAUN	6	2	JAUNPUR	17	6	SHARANPUR	18	7
BAGHPAT	2	1	JHANSI	42	45	SHRAWASTI	61	34
BAHRAICH	72	35	JYOTIBAPHULE NAGAR	5	1	SIDDHARTHANAGAR	2429	1839
BALLIA	86	154	KANNAUJ	0	0	SITAPUR	12	12
BALRAMPUR	203	82	KANPUR	6	0	SONBHADRA	83	16
BANDA	3	1	KANPUR DEHAT	17	1	SULTANPUR	40	19
BARABANKI	5	2	KAUSHAMBI	2	3	UNNAO	29	2
BAREILLY	45	11	KHERI	103	42	VARANASI	1	0
BASTI	371	208	KUSHINAGAR	198	91	Total	8623	5402
BIJNOR	29	19	LACKNOW	4	0			
BULANDSAHAR	4	7	LALITPUR	25	28			
CHANDAULI	171	20	MAHAMAYANAGAR	0	1			
CHITRAKOOT	14	2	MAHARAJGANJ	1465	974			
DEORIA	668	434	MAHOBA	2	14			
ETAH	1	0	MAINPURI	1	2			
ETAWAH	3	2	MATHURA	20	44			
FAIZABAD	2	9	MAU	60	54			
FARRUKHABAD	3	2	MEERUT	8	13			
FATEHPUR	22	5	MIRZAPUR	36	6			
FIROZABAD	1	0	MORADABAD	3	14			

(d) Madhya Pradesh

District	01-27 Apr				
	2022	2023	PANNA	78	54
ALIRAJPUR	0	0	RAISEN	2343	1408
ANUPPUR	27	1	RAJGARH	86	133
ASHOKNAGAR	528	189	RATLAM	118	254
BALAGHAT	19	0	REWA	61	11
BARWANI	4	4	SAGAR	599	468
BETUL	132	37	SATNA	387	87
BHIND	19	25	SEHORE	798	607
BHOPAL	756	417	SEONI	1300	588
BURHANPUR	10	1	SHAHDOL	81	8
CHHATARPUR	88	43	SHAJAPUR	253	487
CHHINDWARA	328	188	SHEOPUR	228	339
DAMOH	171	209	SHIVPURI	108	71
DATIA	145	117	SIDHI	18	0
DEWAS	498	547	SINGRAULI	90	3
DHAR	967	860	TIKAMGARH	20	36
DINDORI	38	3	UJJAIN	986	1643
EAST NIMAR	64	102	UMARIA	30	3
GUNA	516	338	VIDESHA	3288	1494
GWALIOR	185	203	WEST NIMAR	20	37
HARDA	349	241	Total	21936	15621
HOSHANGABAD	4056	2753			
INDORE	913	991			
JABALPUR	746	340			
JHABUA	2	6			
KATNI	215	60			
MANDLA	96	17			
MANDSAUR	45	82			
MORENA	2	0			
NARSHIMAPURA	112	82			
NIMACH	13	34			

(e) Delhi

District	01-27 Apr	
	2022	2023
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	17	2
NORTH EAST	0	0
NORTH WEST DELHI	0	0
SHAHADRA	0	0
SOUTH	0	0
SOUTH EAST	0	0
SOUTH WEST DELHI	1	1
WEST DELHI	0	1
Total	18	4

State-wise and date-wise number of wheat residue burning events detected in 2022 and 2023
(Period: 01-27 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
15-Apr	1	0	7	19	579	141	1	0	1079	536
16-Apr	13	1	14	10	609	473	0	0	1390	651
17-Apr	10	3	12	10	751	594	0	0	1441	665
18-Apr	12	1	17	12	611	370	2	0	972	985
19-Apr	29	6	23	3	231	456	1	1	748	850
20-Apr	56	1	14	8	395	368	2	0	856	830
21-Apr	4	3	0	8	202	174	0	0	379	404
22-Apr	77	9	17	9	398	192	0	0	839	379
23-Apr	35	3	22	2	519	170	1	0	524	626
24-Apr	360	19	96	22	2515	56	4	2	605	567
25-Apr	82	39	65	32	450	153	2	0	796	859

26-Apr	354	22	122	16	277	77	0	0	706	409
27-Apr	1064	28	436	69	436	158	5	0	955	195
Total	2128	171	875	247	8623	5402	18	4	21936	15621

Details of residue burning events in Punjab on 27-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARNALA	BARNALA	S-NPP	30.19962	75.55801	13:43:07	D	2.80
2	BATHINDA	NATHANA	S-NPP	30.24387	75.10234	13:43:07	D	3.60
3	BATHINDA	NATHANA	S-NPP	30.24446	75.10675	13:43:07	D	3.60
4	BATHINDA	TALWANDI SABO	S-NPP	30.03952	74.92179	13:43:07	D	9.50
5	BATHINDA	TALWANDI SABO	S-NPP	30.04183	74.92239	13:43:07	D	11.20
6	KAPURTHALA	KAPURTHALA	S-NPP	31.27271	75.44881	13:43:07	D	4.70
7	LUDHIANA	SUDHAR	S-NPP	30.73532	75.62344	02:33:50	N	1.00
8	LUDHIANA	SUDHAR	S-NPP	30.73621	75.61872	02:33:50	N	2.90
9	LUDHIANA	SUDHAR	S-NPP	30.73888	75.62433	02:33:50	N	1.20
10	LUDHIANA	SUDHAR	S-NPP	30.73977	75.61961	02:33:50	N	2.40
11	MANSA	BHIKHI	S-NPP	30.00877	75.52851	13:43:07	D	7.60
12	MANSA	BHIKHI	S-NPP	30.02234	75.49387	13:43:07	D	12.30
13	MANSA	BHIKHI	S-NPP	30.03173	75.48304	13:43:07	D	7.10
14	MANSA	BUDHLADA	S-NPP	30.00627	75.53247	13:43:07	D	2.40
15	MANSA	BUDHLADA	S-NPP	30.00817	75.65771	13:43:07	D	4.10
16	MANSA	BUDHLADA	S-NPP	30.00979	75.53188	13:43:07	D	6.50
17	MANSA	BUDHLADA	S-NPP	30.01171	75.65712	13:43:07	D	7.50
18	MANSA	JHUNIR	S-NPP	29.88020	75.30680	13:43:07	D	3.20
19	MANSA	MANSA	S-NPP	30.02197	75.32427	13:43:07	D	13.40
20	MANSA	MANSA	S-NPP	30.02547	75.32367	13:43:07	D	21.50
21	MUKTSAR	LAMBI	S-NPP	30.08396	74.66015	13:43:07	D	5.10
22	MUKTSAR	LAMBI	S-NPP	30.08738	74.65954	13:43:07	D	5.80
23	PATIALA	NABHA	S-NPP	30.44047	76.17033	13:43:07	D	3.60
24	PATIALA	PATRAM	S-NPP	29.93155	76.01424	13:43:07	D	1.40
25	SANGRUR	LEHRA GAGA	S-NPP	29.95503	75.69473	13:43:07	D	6.40
26	SANGRUR	MALERKOTLA-1	S-NPP	30.50010	75.93200	13:43:07	D	3.10
27	SANGRUR	SANGRUR	S-NPP	30.25130	75.87576	13:43:07	D	4.10
28	SANGRUR	SUNAM	S-NPP	30.06499	75.65870	13:43:07	D	2.50

Details of residue burning events in Haryana on 27-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	CHARKHI DADRI	DADRI-II	S-NPP	28.64083	76.24320	13:43:07	D	10.00
2	FARIDABAD	BALLABGARH	AQUA	28.24700	77.49000	13:53:48	D	16.20
3	FATEHABAD	BHATTU KALAN	AQUA	29.40200	75.31400	13:53:48	D	9.50
4	FATEHABAD	JAKHAL	AQUA	29.68000	75.71800	13:53:48	D	8.30
5	FATEHABAD	RATIA	S-NPP	29.68763	75.45493	13:43:07	D	6.50
6	FATEHABAD	TOHANA	AQUA	29.67900	75.70800	13:53:48	D	12.90
7	HISAR	HANSI-II	S-NPP	29.12347	76.19522	13:43:07	D	5.90
8	HISAR	HISAR-I	S-NPP	29.07340	75.83781	13:43:07	D	27.40
9	HISAR	HISAR-I	S-NPP	29.08689	75.74950	13:43:07	D	7.30
10	HISAR	HISAR-I	AQUA	29.07100	75.83300	13:53:48	D	15.10
11	HISAR	HISAR-II	AQUA	29.24300	75.74700	13:53:48	D	9.20
12	HISAR	NARNAUND	AQUA	29.16700	76.06000	13:53:48	D	9.80
13	HISAR	NARNAUND	AQUA	29.19700	76.14800	13:53:48	D	8.50
14	JHAJJAR	BAHADURGARH	S-NPP	28.64509	76.74741	13:43:07	D	5.80
15	JHAJJAR	BAHADURGARH	AQUA	28.64500	76.74300	13:53:48	D	13.40
16	JHAJJAR	BERI	S-NPP	28.63109	76.57787	13:43:07	D	5.30
17	JHAJJAR	BERI	S-NPP	28.63170	76.58265	13:43:07	D	5.30
18	JHAJJAR	JHAJJAR	S-NPP	28.38150	76.68678	13:43:07	D	7.00
19	JHAJJAR	JHAJJAR	S-NPP	28.38203	76.72092	13:43:07	D	8.10
20	JHAJJAR	JHAJJAR	S-NPP	28.38263	76.72573	13:43:07	D	8.10
21	JHAJJAR	JHAJJAR	S-NPP	28.54145	76.60187	13:43:07	D	9.40
22	JHAJJAR	JHAJJAR	S-NPP	28.54508	76.60130	13:43:07	D	9.20
23	JHAJJAR	JHAJJAR	AQUA	28.38400	76.72400	13:53:48	D	13.10
24	JHAJJAR	SALHAWAS	S-NPP	28.45018	76.58523	13:43:07	D	4.20
25	JIND	ALEWA	S-NPP	29.43851	76.42562	13:43:07	D	9.20
26	JIND	ALEWA	AQUA	29.49500	76.43400	13:53:48	D	15.40
27	JIND	JIND	S-NPP	29.27444	76.29877	13:43:07	D	4.90
28	JIND	JIND	S-NPP	29.34243	76.45863	13:43:07	D	4.50
29	JIND	NARWANA	S-NPP	29.60727	76.08677	13:43:07	D	4.60
30	JIND	NARWANA	S-NPP	29.61147	76.06213	13:43:07	D	2.70

31	JIND	PILLUKHERA	S-NPP	29.38675	76.48820	13:43:07	D	4.20
32	JIND	UCHANA	S-NPP	29.55575	76.11440	13:43:07	D	32.50
33	JIND	UCHANA	S-NPP	29.55778	76.25641	13:43:07	D	8.20
34	JIND	UCHANA	AQUA	29.55100	76.11100	13:53:48	D	12.90
35	KAITHAL	KAITHAL	S-NPP	29.75444	76.43585	13:43:07	D	4.50
36	KARNAL	ASSANDH	S-NPP	29.52662	76.80341	13:43:07	D	3.00
37	KARNAL	ASSANDH	S-NPP	29.55439	76.67876	13:43:07	D	5.60
38	KARNAL	GHARAUNDA	S-NPP	29.50283	77.07765	13:43:07	D	3.10
39	KARNAL	GHARAUNDA	S-NPP	29.53105	76.93182	13:43:07	D	3.30
40	KARNAL	KARNAL	S-NPP	29.73172	77.06963	13:43:07	D	5.40
41	MEWAT	NUH	S-NPP	28.21584	77.11589	13:43:07	D	10.90
42	PALWAL	HASSANPUR	S-NPP	28.02536	77.50689	13:43:07	D	4.10
43	PALWAL	PALWAL	S-NPP	28.09719	77.49606	13:43:07	D	3.80
44	PANIPAT	BAPPAULI	S-NPP	29.33851	77.01933	13:43:07	D	2.60
45	PANIPAT	BAPPAULI	S-NPP	29.33854	77.01637	13:43:07	D	2.80
46	PANIPAT	ISRANA	S-NPP	29.29433	76.93797	13:43:07	D	3.70
47	PANIPAT	ISRANA	S-NPP	29.29808	76.87565	13:43:07	D	7.80
48	PANIPAT	ISRANA	AQUA	29.29700	76.87500	13:53:48	D	8.90
49	PANIPAT	PANIPAT	AQUA	29.28200	76.97500	13:53:48	D	15.80
50	PANIPAT	SAMALKHA	S-NPP	29.17776	77.08337	13:43:07	D	3.60
51	PANIPAT	SAMALKHA	S-NPP	29.28495	76.98600	13:43:07	D	9.00
52	PANIPAT	SAMALKHA	AQUA	29.28400	76.98600	13:53:48	D	19.10
53	ROHTAK	LAKHAN MAJRA	S-NPP	29.05385	76.46212	13:43:07	D	8.00
54	ROHTAK	LAKHAN MAJRA	S-NPP	29.07436	76.47837	13:43:07	D	6.30
55	SIRSA	DABWALI	S-NPP	29.80371	74.67397	13:43:07	D	5.90
56	SIRSA	NATHUSARI CHOPTA	S-NPP	29.37559	74.95300	13:43:07	D	7.00
57	SONIPAT	GANAUR	S-NPP	29.12717	76.94612	13:43:07	D	5.40
58	SONIPAT	GANAUR	S-NPP	29.13863	77.13857	13:43:07	D	3.00
59	SONIPAT	GANAUR	AQUA	29.17600	77.07600	13:53:48	D	8.60
60	SONIPAT	GOHANA	S-NPP	28.98452	76.74247	13:43:07	D	4.40
61	SONIPAT	GOHANA	S-NPP	29.08998	76.69848	13:43:07	D	3.70
62	SONIPAT	KATHURA	S-NPP	29.08913	76.59905	13:43:07	D	4.50
63	SONIPAT	MUNDLANA	S-NPP	29.20850	76.74973	02:33:50	N	1.30

64	SONIPAT	MUNDLANA	S-NPP	29.20889	76.75118	02:33:50	N	0.90
65	SONIPAT	MURTHAL	S-NPP	29.04324	77.04386	13:43:07	D	5.90
66	SONIPAT	RAI	S-NPP	28.94533	77.12399	13:43:07	D	6.30
67	SONIPAT	SONIPAT	S-NPP	28.99346	76.95649	13:43:07	D	1.80
68	SONIPAT	SONIPAT	S-NPP	29.12345	76.94670	13:43:07	D	5.40
69	YAMUNANAGAR	RADAUR	S-NPP	29.99674	77.23392	13:43:07	D	3.20

Details of residue burning events in Uttar Pradesh on 27-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	GABHANA	S-NPP	28.02752	77.84110	13:43:07	D	5.00
2	ALLAHABAD	BARA	S-NPP	25.14855	81.75898	13:43:07	D	4.40
3	ALLAHABAD	BARA	AQUA	25.23000	81.74300	13:53:48	D	14.20
4	ALLAHABAD	KORAWN	S-NPP	25.03640	82.09922	13:43:07	D	2.30
5	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.37009	82.63107	13:43:07	D	4.50
6	AMBEDKARNAGAR	AKBARPUR	TERRA	26.37100	82.43600	10:12:42	D	9.30
7	AMBEDKARNAGAR	JALALPUR	S-NPP	26.35351	82.73177	13:43:07	D	2.70
8	AZAMGARH	BURHANPUR	S-NPP	26.16425	82.98721	13:43:07	D	2.10
9	AZAMGARH	LALGANJ	S-NPP	25.74191	83.11797	13:43:07	D	1.90
10	AZAMGARH	NIZAMABAD	S-NPP	25.96199	82.97908	13:43:07	D	5.30
11	AZAMGARH	NIZAMABAD	S-NPP	25.96988	82.95113	13:43:07	D	2.50
12	AZAMGARH	PHULPUR	S-NPP	26.18576	82.70960	13:43:07	D	2.80
13	BAHRAICH	BAHRAICH	S-NPP	27.38503	81.83337	13:43:07	D	5.80
14	BAHRAICH	MAHASI	S-NPP	27.66956	81.43681	13:43:07	D	12.50
15	BAHRAICH	MAHASI	S-NPP	27.66960	81.43408	13:43:07	D	7.00
16	BAHRAICH	MAHASI	S-NPP	27.67015	81.43981	13:43:07	D	9.30
17	BAHRAICH	MAHASI	S-NPP	27.71036	81.40900	13:43:07	D	15.80
18	BAHRAICH	MAHASI	AQUA	27.66800	81.42300	13:53:48	D	12.60
19	BAHRAICH	MAHASI	AQUA	27.66800	81.43400	13:53:48	D	20.90
20	BAHRAICH	NANPARA	S-NPP	28.11699	81.42421	13:43:07	D	7.10
21	BAHRAICH	NANPARA	S-NPP	28.30972	81.20730	13:43:07	D	7.70

22	BAHRAICH	NANPARA	TERRA	27.92300	81.71800	10:12:42	D	14.10
23	BAHRAICH	NANPARA	AQUA	28.11300	81.42000	13:53:48	D	51.90
24	BALRAMPUR	TULSIPUR	S-NPP	27.45409	82.58186	13:43:07	D	0.80
25	BALRAMPUR	TULSIPUR	S-NPP	27.45668	82.58066	13:43:07	D	1.60
26	BALRAMPUR	TULSIPUR	S-NPP	27.45919	82.58131	13:43:07	D	2.50
27	BALRAMPUR	UTRAULA	S-NPP	27.07993	82.34593	13:43:07	D	10.60
28	BASTI	BHANPUR	S-NPP	26.90754	82.72789	13:43:07	D	3.90
29	BASTI	BHANPUR	S-NPP	27.02538	82.57761	13:43:07	D	3.80
30	BASTI	BHANPUR	S-NPP	27.03798	82.65991	13:43:07	D	1.10
31	BASTI	BHANPUR	S-NPP	27.04494	82.64772	13:43:07	D	2.30
32	BASTI	BHANPUR	S-NPP	27.04729	82.64886	13:43:07	D	6.50
33	BASTI	BHANPUR	S-NPP	27.05005	82.64718	13:43:07	D	2.30
34	BIJNOR	NAJIBABAD	S-NPP	29.58770	78.43827	13:43:07	D	2.50
35	BIJNOR	NAJIBABAD	AQUA	29.66000	78.43200	13:53:48	D	12.50
36	DEORIA	BHATPAR RANI	S-NPP	26.39912	84.05915	13:43:07	D	3.30
37	DEORIA	SALEMPUR	S-NPP	26.17671	83.92574	13:43:07	D	6.10
38	DEORIA	SALEMPUR	S-NPP	26.18120	83.91354	13:43:07	D	3.00
39	DEORIA	SALEMPUR	S-NPP	26.18153	83.91743	13:43:07	D	3.00
40	DEORIA	SALEMPUR	S-NPP	26.18218	83.92520	13:43:07	D	4.30
41	DEORIA	SALEMPUR	S-NPP	26.18811	83.92368	13:43:07	D	2.10
42	DEORIA	SALEMPUR	AQUA	26.17800	83.92200	13:53:48	D	40.80
43	FAIZABAD	FAIZSBAD	S-NPP	26.57879	82.43350	13:43:07	D	5.20
44	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	S-NPP	28.30088	77.59811	13:43:07	D	6.50
45	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	S-NPP	28.30406	77.59228	13:43:07	D	3.00
46	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	S-NPP	28.30663	77.51725	13:43:07	D	7.10
47	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	S-NPP	28.31042	77.51668	13:43:07	D	5.60
48	GAUTAMBUDHNAGAR	GAUTAMBUDHNAGAR	AQUA	28.29800	77.59200	13:53:48	D	15.60
49	GORAKHPUR	CHAURI CHAURA	S-NPP	26.56506	83.52312	13:43:07	D	4.30
50	GORAKHPUR	CHAURI CHAURA	S-NPP	26.56537	83.52684	13:43:07	D	4.30
51	GORAKHPUR	GOLA	S-NPP	26.35837	83.40847	13:43:07	D	2.70
52	GORAKHPUR	KHAJNI	S-NPP	26.60205	83.22405	13:43:07	D	3.90
53	GORAKHPUR	KHAJNI	S-NPP	26.60732	83.22350	13:43:07	D	3.60
54	GORAKHPUR	KHAJNI	S-NPP	26.61684	83.27315	13:43:07	D	2.70

55	GORAKHPUR	KHAJNI	S-NPP	26.61715	83.27676	13:43:07	D	2.70
56	HAMIRPUR	MAUDAHA	S-NPP	25.72349	80.02046	13:43:07	D	7.70
57	HAMIRPUR	RATH	S-NPP	25.57619	79.64640	13:43:07	D	21.30
58	HARDOI	BILGRAM	S-NPP	27.12380	80.20483	13:43:07	D	7.10
59	HARDOI	BILGRAM	S-NPP	27.12380	80.20733	13:43:07	D	4.00
60	HARDOI	HARDOI	AQUA	27.17100	80.25300	13:53:48	D	13.90
61	JALAUN	KALPI	S-NPP	26.18855	79.50988	13:43:07	D	4.80
62	JAUNPUR	SHHGANJ	S-NPP	25.88055	82.75722	13:43:07	D	1.30
63	JAUNPUR	SHHGANJ	S-NPP	25.88270	82.75927	13:43:07	D	2.40
64	JHANSI	JHANSI	S-NPP	25.50640	78.70602	13:43:07	D	9.90
65	JHANSI	MOTH	S-NPP	25.72174	78.88577	13:43:07	D	37.90
66	JHANSI	MOTH	TERRA	25.69900	78.90300	10:12:42	D	19.50
67	JHANSI	MOTH	AQUA	25.72000	78.88400	13:53:48	D	17.50
68	JHANSI	TAHRAULI	S-NPP	25.55020	78.80598	13:43:07	D	13.80
69	JHANSI	TAHRAULI	S-NPP	25.62872	79.07928	13:43:07	D	9.80
70	JHANSI	TAHRAULI	AQUA	25.55100	78.80200	13:53:48	D	19.60
71	KANPUR DEHAT	BHOGANIPUR	S-NPP	26.29711	79.87080	13:43:07	D	5.80
72	KAUSHAMBI	SIRATHU	S-NPP	25.62383	81.26785	13:43:07	D	3.10
73	KHERI	NIGHASAN	S-NPP	28.29656	80.91138	13:43:07	D	5.20
74	KHERI	NIGHASAN	S-NPP	28.31308	80.98682	13:43:07	D	2.80
75	KHERI	PALIA KALAN	S-NPP	28.33469	80.49544	13:43:07	D	3.20
76	KHERI	PALIA KALAN	S-NPP	28.33613	80.49786	13:43:07	D	3.00
77	KHERI	PALIA KALAN	S-NPP	28.48921	80.85036	13:43:07	D	12.90
78	MAHOBA	KULPAHAR	S-NPP	25.15631	79.60064	13:43:07	D	6.90
79	MATHURA	CHHATA	S-NPP	27.68456	77.41484	13:43:07	D	11.60
80	MATHURA	CHHATA	S-NPP	27.71184	77.48306	13:43:07	D	5.40
81	MATHURA	CHHATA	S-NPP	27.72830	77.39791	13:43:07	D	6.90
82	MATHURA	CHHATA	S-NPP	27.78013	77.41581	13:43:07	D	7.40
83	MATHURA	CHHATA	S-NPP	27.78056	77.41383	13:43:07	D	18.00
84	MATHURA	CHHATA	S-NPP	27.90054	77.52294	13:43:07	D	4.20
85	MATHURA	CHHATA	S-NPP	27.90189	77.50175	13:43:07	D	5.10
86	MATHURA	CHHATA	S-NPP	27.90566	77.50119	13:43:07	D	5.10
87	MAU	MADHUBAN	S-NPP	26.09324	83.64552	13:43:07	D	6.00

88	MAU	MADHUBAN	S-NPP	26.09355	83.64925	13:43:07	D	6.00
89	MEERUT	MAWANA	S-NPP	29.23051	78.07738	13:43:07	D	8.10
90	MEERUT	SARDHANA	AQUA	29.09200	77.54700	13:53:48	D	10.20
91	MUZAFARNAGAR	JANSATH	S-NPP	29.26875	78.04115	13:43:07	D	2.50
92	MUZAFARNAGAR	KAIRANA	S-NPP	29.50516	77.16213	13:43:07	D	6.80
93	PILHIBHIT	BISALPUR	S-NPP	28.16910	79.92732	13:43:07	D	4.90
94	PILHIBHIT	BISALPUR	S-NPP	28.16955	79.92846	13:43:07	D	4.20
95	PILHIBHIT	BISALPUR	S-NPP	28.28423	79.96363	13:43:07	D	4.00
96	PILHIBHIT	PILHIBHIT	S-NPP	28.67814	79.68629	13:43:07	D	9.50
97	PILHIBHIT	PILHIBHIT	S-NPP	28.67860	79.69095	13:43:07	D	4.10
98	PILHIBHIT	PURANPUR	S-NPP	28.51307	80.03517	13:43:07	D	4.00
99	PILHIBHIT	PURANPUR	S-NPP	28.51355	80.04002	13:43:07	D	4.00
100	PILHIBHIT	PURANPUR	S-NPP	28.53986	80.17062	13:43:07	D	6.90
101	PILHIBHIT	PURANPUR	S-NPP	28.58732	80.14967	13:43:07	D	3.40
102	PILHIBHIT	PURANPUR	S-NPP	28.62180	80.15317	13:43:07	D	4.10
103	RAIBEARELI	TILOI	S-NPP	26.30690	81.46754	13:43:07	D	6.00
104	RAIBEARELI	TILOI	S-NPP	26.30746	81.47301	13:43:07	D	8.80
105	RAIBEARELI	TILOI	S-NPP	26.30915	81.47195	13:43:07	D	14.90
106	RAIBEARELI	TILOI	S-NPP	26.37080	81.47028	13:43:07	D	5.20
107	RAMPUR	SUAR	S-NPP	28.98556	79.14455	02:33:50	N	0.60
108	RAMPUR	SUAR	S-NPP	28.99405	79.06223	13:43:07	D	3.60
109	RAMPUR	SUAR	S-NPP	29.01129	79.14377	13:43:07	D	3.00
110	RAMPUR	SUAR	AQUA	28.91200	79.14600	13:53:48	D	16.30
111	SANTKABIRNAGAR	GHANGHATA	S-NPP	26.64169	83.07047	13:43:07	D	3.20
112	SANTKABIRNAGAR	GHANGHATA	S-NPP	26.64200	83.07397	13:43:07	D	3.20
113	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86454	83.08428	13:43:07	D	2.70
114	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86483	83.08660	13:43:07	D	6.90
115	SANTKABIRNAGAR	KHALILABAD	TERRA	26.68600	83.08000	10:12:42	D	6.20
116	SANTKABIRNAGAR	KHALILABAD	TERRA	26.68800	83.06800	10:12:42	D	11.30
117	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.00488	83.18764	13:43:07	D	4.20
118	SANTKABIRNAGAR	MEHDAWAL	S-NPP	27.00514	83.12620	13:43:07	D	3.80
119	SHAHJAHANPUR	PUWANYA	S-NPP	27.96700	80.03523	13:43:07	D	6.00
120	SHAHJAHANPUR	PUWANYA	S-NPP	27.96709	80.03649	13:43:07	D	12.80

121	SHAHJAHANPUR	PUWANYA	S-NPP	27.96750	80.03998	13:43:07	D	6.00
122	SHAHJAHANPUR	PUWANYA	S-NPP	27.97859	80.10761	13:43:07	D	6.20
123	SHAHJAHANPUR	PUWANYA	S-NPP	28.00702	80.03621	13:43:07	D	17.20
124	SHAHJAHANPUR	PUWANYA	S-NPP	28.01092	80.03090	13:43:07	D	17.20
125	SHAHJAHANPUR	PUWANYA	S-NPP	28.01140	80.03565	13:43:07	D	17.20
126	SHAHJAHANPUR	PUWANYA	S-NPP	28.01530	80.03033	13:43:07	D	18.20
127	SHAHJAHANPUR	PUWANYA	S-NPP	28.01822	80.01555	13:43:07	D	6.90
128	SHAHJAHANPUR	PUWANYA	S-NPP	28.06697	80.22913	13:43:07	D	5.50
129	SHAHJAHANPUR	PUWANYA	S-NPP	28.07666	80.20139	13:43:07	D	2.90
130	SHAHJAHANPUR	PUWANYA	S-NPP	28.16929	80.18480	13:43:07	D	4.40
131	SHAHJAHANPUR	PUWANYA	S-NPP	28.21391	80.15100	13:43:07	D	5.20
132	SHAHJAHANPUR	PUWANYA	S-NPP	28.23801	80.16777	13:43:07	D	2.30
133	SHAHJAHANPUR	PUWANYA	S-NPP	28.26647	80.09521	13:43:07	D	3.40
134	SHAHJAHANPUR	PUWANYA	AQUA	27.96900	80.02400	13:53:48	D	34.30
135	SHAHJAHANPUR	PUWANYA	AQUA	27.97300	80.01800	13:53:48	D	12.40
136	SHAHJAHANPUR	PUWANYA	AQUA	27.97500	80.03200	13:53:48	D	14.20
137	SHAHJAHANPUR	PUWANYA	AQUA	28.00600	80.02700	13:53:48	D	71.90
138	SHAHJAHANPUR	PUWANYA	AQUA	28.00800	80.04100	13:53:48	D	20.50
139	SHAHJAHANPUR	PUWANYA	AQUA	28.01500	80.01100	13:53:48	D	14.60
140	SHAHJAHANPUR	PUWANYA	AQUA	28.01700	80.02600	13:53:48	D	13.00
141	SHAHJAHANPUR	PUWANYA	AQUA	28.07100	80.22200	13:53:48	D	22.30
142	SHAHJAHANPUR	PUWANYA	AQUA	28.21300	80.14500	13:53:48	D	11.10
143	SHAHJAHANPUR	TILHAR	S-NPP	28.00065	79.63848	13:43:07	D	2.40
144	SHAHJAHANPUR	TILHAR	S-NPP	28.19929	79.70328	13:43:07	D	2.60
145	SHARANPUR	NAKUR	S-NPP	29.97573	77.28640	13:43:07	D	3.00
146	SHRAWASTI	BHINGA	TERRA	27.87200	81.79600	10:12:42	D	13.20
147	SHRAWASTI	IKAUNA	S-NPP	27.62365	81.72212	13:43:07	D	4.70
148	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.16988	82.74250	12:03:32	D	7.90
149	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.17117	82.73795	12:03:32	D	9.50
150	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.17335	82.74570	12:03:32	D	13.70
151	SIDDHARTHANAGAR	ITWA	S-NPP	27.30753	82.73392	12:03:32	D	3.00
152	SIDDHARTHANAGAR	ITWA	S-NPP	27.30907	82.73312	12:03:32	D	4.20
153	SIDDHARTHANAGAR	ITWA	S-NPP	27.36412	82.55421	13:43:07	D	4.20

154	SIDDHARTHANAGAR	ITWA	S-NPP	27.39104	82.56819	13:43:07	D	6.60
155	SIDDHARTHANAGAR	ITWA	S-NPP	27.39178	82.63595	12:03:32	D	5.10
156	SIDDHARTHANAGAR	ITWA	S-NPP	27.39397	82.64375	12:03:32	D	5.10
157	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	27.43864	82.82054	13:43:07	D	1.60
158	SITAPUR	SITAPUR	S-NPP	27.63613	80.58598	13:43:07	D	3.30

Details of wheat residue burning events in Madhya Pradesh on 27-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BHIND	GOHAD	S-NPP	26.42406	78.33950	13:43:07	D	7.20
2	BHIND	LAHAR	S-NPP	26.12896	78.84391	13:43:07	D	13.60
3	BHIND	LAHAR	S-NPP	26.13089	78.84032	13:43:07	D	7.50
4	BHOPAL	HUZUR	S-NPP	23.15128	77.55009	13:43:07	D	9.00
5	CHHATARPUR	NOWGOAN	S-NPP	25.08810	79.46411	13:43:07	D	4.70
6	CHHATARPUR	RAJNAGAR	S-NPP	24.86860	79.82056	13:43:07	D	8.60
7	CHHINDWARA	CHHINDWARA	S-NPP	21.95841	79.09904	13:43:07	D	8.20
8	CHHINDWARA	CHHINDWARA	S-NPP	21.96225	79.09850	13:43:07	D	8.20
9	DAMOH	DAMOH	S-NPP	23.81079	79.42446	13:43:07	D	6.90
10	DATIA	BHANDER	S-NPP	25.64654	78.81364	13:43:07	D	12.10
11	DATIA	BHANDER	S-NPP	25.88331	78.73042	13:43:07	D	21.50
12	DATIA	BHANDER	S-NPP	25.88398	78.73597	13:43:07	D	21.50
13	DATIA	BHANDER	S-NPP	25.88638	78.73318	13:43:07	D	22.30
14	DATIA	BHANDER	S-NPP	25.88701	78.73873	13:43:07	D	22.30
15	DATIA	BHANDER	S-NPP	25.88792	78.73542	13:43:07	D	21.50
16	DATIA	BHANDER	S-NPP	25.88906	78.72153	13:43:07	D	21.60
17	DATIA	BHANDER	S-NPP	25.88986	78.71826	13:43:07	D	11.70
18	DATIA	BHANDER	S-NPP	25.89053	78.72379	13:43:07	D	11.70
19	DATIA	BHANDER	AQUA	25.61700	78.79100	13:53:48	D	9.20
20	DATIA	BHANDER	AQUA	25.87000	78.69900	13:53:48	D	12.40
21	DATIA	BHANDER	AQUA	25.88200	78.72000	13:53:48	D	30.10
22	DATIA	BHANDER	AQUA	25.88400	78.73100	13:53:48	D	58.20
23	DATIA	BHANDER	AQUA	25.92700	78.79800	13:53:48	D	13.70

24	DATIA	DATIA	S-NPP	25.63350	78.66986	13:43:07	D	13.00
25	DATIA	DATIA	TERRA	25.56300	78.32600	10:12:42	D	31.90
26	DATIA	DATIA	TERRA	25.56400	78.31000	10:12:42	D	72.60
27	DATIA	DATIA	TERRA	25.56500	78.30400	10:12:42	D	46.40
28	DATIA	DATIA	AQUA	25.74300	78.56700	13:53:48	D	14.00
29	DATIA	SEONDHA	AQUA	25.81000	78.52900	13:53:48	D	11.70
30	DATIA	SEONDHA	AQUA	25.89700	78.48600	13:53:48	D	13.00
31	DATIA	SEONDHA	AQUA	25.89800	78.49700	13:53:48	D	20.80
32	DATIA	SEONDHA	AQUA	25.90800	78.49500	13:53:48	D	14.90
33	DEWAS	DEWAS	S-NPP	23.04213	76.07325	13:43:07	D	8.80
34	DEWAS	KANNOD	S-NPP	22.51880	76.78416	13:43:07	D	5.90
35	DHAR	BADNAWAR	AQUA	22.85100	75.23300	13:53:48	D	16.40
36	DHAR	DHARMPURI	S-NPP	22.20059	75.43190	13:43:07	D	11.00
37	DHAR	MANAWAR	S-NPP	22.26355	75.13299	02:33:50	N	0.40
38	EAST NIMAR	HARSUD	S-NPP	21.91277	76.73389	13:43:07	D	16.40
39	EAST NIMAR	KHANDWA	S-NPP	22.14458	76.54756	13:43:07	D	6.70
40	GUNA	ARON	AQUA	24.36200	77.59900	13:53:48	D	7.70
41	GUNA	RAGHOGARH	S-NPP	24.32021	77.17254	13:43:07	D	13.90
42	GWALIOR	BHITARWAR	S-NPP	25.75492	78.05774	13:43:07	D	10.70
43	GWALIOR	BHITARWAR	S-NPP	25.92999	78.07588	13:43:07	D	25.90
44	GWALIOR	BHITARWAR	S-NPP	25.94034	78.22174	13:43:07	D	14.00
45	GWALIOR	BHITARWAR	S-NPP	25.95694	78.21244	13:43:07	D	8.90
46	GWALIOR	BHITARWAR	S-NPP	25.96077	78.21188	13:43:07	D	8.90
47	GWALIOR	BHITARWAR	S-NPP	25.96522	78.21652	13:43:07	D	10.30
48	GWALIOR	BHITARWAR	S-NPP	25.96738	78.13685	13:43:07	D	23.50
49	GWALIOR	BHITARWAR	S-NPP	25.96905	78.21596	13:43:07	D	10.30
50	GWALIOR	BHITARWAR	S-NPP	25.96924	78.15241	13:43:07	D	8.80
51	GWALIOR	BHITARWAR	S-NPP	25.97119	78.13628	13:43:07	D	11.40
52	GWALIOR	BHITARWAR	S-NPP	25.97306	78.15185	13:43:07	D	36.60
53	GWALIOR	BHITARWAR	S-NPP	25.98618	78.26142	13:43:07	D	15.40
54	GWALIOR	BHITARWAR	AQUA	25.74900	78.13300	13:53:48	D	14.20
55	GWALIOR	BHITARWAR	AQUA	25.96200	78.21600	13:53:48	D	9.50
56	GWALIOR	BHITARWAR	AQUA	25.97700	78.25700	13:53:48	D	30.00
57	GWALIOR	DABRA	S-NPP	25.88345	78.26732	13:43:07	D	5.70

58	GWALIOR	DABRA	S-NPP	25.88729	78.26677	13:43:07	D	7.80
59	GWALIOR	DABRA	S-NPP	25.91087	78.36536	13:43:07	D	12.80
60	GWALIOR	DABRA	S-NPP	25.91473	78.36481	13:43:07	D	8.50
61	GWALIOR	DABRA	S-NPP	25.91984	78.40736	13:43:07	D	9.00
62	GWALIOR	DABRA	S-NPP	25.92758	78.40623	13:43:07	D	9.40
63	GWALIOR	DABRA	S-NPP	25.98234	78.26198	13:43:07	D	17.80
64	GWALIOR	DABRA	S-NPP	26.01694	78.22487	13:43:07	D	8.10
65	GWALIOR	DABRA	AQUA	25.90900	78.36200	13:53:48	D	46.70
66	GWALIOR	DABRA	AQUA	25.91500	78.40500	13:53:48	D	15.70
67	INDORE	SANWER	S-NPP	22.82903	75.97152	13:43:07	D	12.60
68	JABALPUR	JABALPUR	AQUA	23.23500	79.85600	13:53:48	D	10.10
69	JABALPUR	PATAN	S-NPP	23.30994	79.71514	13:43:07	D	11.30
70	JABALPUR	SAHPURA	S-NPP	23.24954	79.55128	13:43:07	D	18.10
71	KATNI	DHIMERKHEDA	S-NPP	23.47503	80.31545	13:43:07	D	3.30
72	MANDLA	NAINPUR	S-NPP	22.40891	80.13509	13:43:07	D	21.20
73	MANDLA	NAINPUR	AQUA	22.40300	80.13500	13:53:48	D	11.30
74	MANDSAUR	GAROT	S-NPP	24.25021	75.52702	13:43:07	D	19.70
75	MANDSAUR	MANDSAUR	S-NPP	23.90567	75.21639	13:43:07	D	14.70
76	NIMACH	NIMACH	AQUA	24.37500	74.99300	13:53:48	D	18.50
77	RAISEN	BAGAMGANJ	S-NPP	23.44081	78.56998	13:43:07	D	12.40
78	RAISEN	GAIRATGANJ	S-NPP	23.33841	78.01393	13:43:07	D	8.80
79	RAISEN	GAIRATGANJ	AQUA	23.44700	78.23900	13:53:48	D	27.10
80	RAISEN	GOHARGANJ	S-NPP	23.09937	77.54451	13:43:07	D	15.90
81	RAISEN	GOHARGANJ	S-NPP	23.20569	77.59264	13:43:07	D	12.90
82	RAISEN	GOHARGANJ	S-NPP	23.20929	77.59209	13:43:07	D	8.00
83	RAISEN	GOHARGANJ	AQUA	23.22300	77.61300	13:53:48	D	9.00
84	RATLAM	RATLAM	S-NPP	23.40887	75.07891	13:43:07	D	4.90
85	RATLAM	RATLAM	AQUA	23.19800	75.20700	13:53:48	D	17.40
86	RATLAM	RATLAM	AQUA	23.19900	75.21800	13:53:48	D	10.80
87	SAGAR	BANDA	S-NPP	23.95999	78.88807	13:43:07	D	4.30
88	SAGAR	RAHAT GARH	S-NPP	23.86009	78.30225	13:43:07	D	2.90
89	SAGAR	SAGAR	S-NPP	23.72517	78.91586	13:43:07	D	6.60
90	SATNA	RAGURAJNAGAR	S-NPP	24.71651	80.80098	13:43:07	D	6.10
91	SATNA	UCHAHAR	S-NPP	24.45751	80.83083	13:43:07	D	7.30

92	SATNA	UCHAHAR	S-NPP	24.45801	80.83550	13:43:07	D	7.30
93	SATNA	UCHAHAR	S-NPP	24.47123	80.83385	13:43:07	D	9.10
94	SATNA	UCHAHAR	S-NPP	24.47563	80.83330	13:43:07	D	6.40
95	SATNA	UCHAHAR	AQUA	24.47500	80.83500	13:53:48	D	17.70
96	SEONI	GHANSAUR	S-NPP	22.42228	79.83669	13:43:07	D	2.80
97	SEONI	GHANSAUR	S-NPP	22.45343	79.75596	13:43:07	D	6.30
98	SEONI	GHANSAUR	S-NPP	22.45586	79.84354	13:43:07	D	1.30
99	SEONI	GHANSAUR	S-NPP	22.45631	79.84731	13:43:07	D	4.10
100	SEONI	GHANSAUR	S-NPP	22.45743	79.75540	13:43:07	D	6.30
101	SEONI	GHANSAUR	S-NPP	22.54159	79.80015	13:43:07	D	3.30
102	SEONI	GHANSAUR	S-NPP	22.57320	79.89275	13:43:07	D	4.60
103	SEONI	GHANSAUR	AQUA	22.41700	79.75400	13:53:48	D	29.20
104	SEONI	KEWLARI	S-NPP	22.28396	79.84739	13:43:07	D	6.20
105	SEONI	KEWLARI	S-NPP	22.28755	79.84309	13:43:07	D	3.40
106	SEONI	KEWLARI	S-NPP	22.29826	79.86468	13:43:07	D	9.80
107	SEONI	KEWLARI	S-NPP	22.29870	79.86845	13:43:07	D	3.90
108	SEONI	KEWLARI	S-NPP	22.32873	79.94919	13:43:07	D	3.30
109	SEONI	KEWLARI	S-NPP	22.33279	79.94866	13:43:07	D	3.30
110	SEONI	KEWLARI	S-NPP	22.33457	79.92898	13:43:07	D	6.70
111	SEONI	KEWLARI	S-NPP	22.34199	79.78615	13:43:07	D	4.80
112	SEONI	KEWLARI	S-NPP	22.36639	79.88617	13:43:07	D	12.30
113	SEONI	KEWLARI	S-NPP	22.42443	80.06628	13:43:07	D	11.50
114	SEONI	KEWLARI	S-NPP	22.42807	80.06182	13:43:07	D	11.50
115	SEONI	KEWLARI	S-NPP	22.42852	80.06574	13:43:07	D	11.50
116	SEONI	KEWLARI	S-NPP	22.42898	80.06966	13:43:07	D	11.90
117	SEONI	KEWLARI	S-NPP	22.43397	80.07694	13:43:07	D	5.40
118	SEONI	KEWLARI	S-NPP	22.43806	80.07639	13:43:07	D	5.40
119	SEONI	KEWLARI	S-NPP	22.44941	80.06693	13:43:07	D	2.30
120	SEONI	KEWLARI	S-NPP	22.47979	80.04305	13:43:07	D	3.30
121	SEONI	KEWLARI	AQUA	22.36900	79.87100	13:53:48	D	17.50
122	SEONI	KEWLARI	AQUA	22.38600	79.89700	13:53:48	D	10.20
123	SEONI	KEWLARI	AQUA	22.42600	80.05400	13:53:48	D	10.00
124	SEONI	KEWLARI	AQUA	22.42700	80.06600	13:53:48	D	43.20
125	SEONI	LAKHNADOU	S-NPP	22.36922	79.52722	13:43:07	D	7.40

126	SEONI	LAKHNADOU	S-NPP	22.37441	79.57069	13:43:07	D	13.00
127	SEONI	LAKHNADOU	S-NPP	22.82365	79.64023	13:43:07	D	6.30
128	SEONI	SEONI	S-NPP	22.19435	79.58801	13:43:07	D	7.30
129	SEONI	SEONI	S-NPP	22.22579	79.78045	13:43:07	D	7.60
130	SEONI	SEONI	S-NPP	22.26830	79.72931	13:43:07	D	3.60
131	SEONI	SEONI	S-NPP	22.33380	79.75216	13:43:07	D	4.50
132	SEONI	SEONI	S-NPP	22.33781	79.75163	13:43:07	D	6.20
133	SHAJAPUR	BAROUD	S-NPP	23.87698	75.91819	13:43:07	D	17.20
134	SHAJAPUR	BAROUD	AQUA	23.75700	75.83800	13:53:48	D	19.80
135	SHAJAPUR	KALA PIPAL	S-NPP	23.19197	76.88815	13:43:07	D	2.40
136	SHAJAPUR	NALKHERA	S-NPP	23.73173	76.22282	13:43:07	D	14.00
137	SHEOPUR	SHEOPUR	S-NPP	25.42199	76.65075	13:43:07	D	7.60
138	SHEOPUR	SHEOPUR	S-NPP	25.46069	76.67125	13:43:07	D	9.10
139	SHEOPUR	SHEOPUR	S-NPP	25.47388	76.58041	13:43:07	D	7.10
140	SHEOPUR	SHEOPUR	S-NPP	25.48443	76.57873	13:43:07	D	6.30
141	SHEOPUR	SHEOPUR	S-NPP	25.48795	76.57816	13:43:07	D	10.80
142	SHEOPUR	SHEOPUR	S-NPP	25.49205	76.58193	13:43:07	D	9.60
143	SHEOPUR	SHEOPUR	S-NPP	25.69499	76.59585	13:43:07	D	8.50
144	SHEOPUR	SHEOPUR	S-NPP	25.69556	76.60020	13:43:07	D	8.50
145	SHEOPUR	SHEOPUR	S-NPP	25.70678	76.57618	13:43:07	D	10.50
146	SHEOPUR	SHEOPUR	AQUA	25.44000	76.67500	13:53:48	D	8.70
147	SHEOPUR	SHEOPUR	TERRA	25.46900	76.59300	10:12:42	D	73.70
148	SHEOPUR	SHEOPUR	TERRA	25.47000	76.60000	10:12:42	D	59.60
149	SHEOPUR	SHEOPUR	TERRA	25.47200	76.57100	10:12:42	D	32.10
150	SHEOPUR	SHEOPUR	AQUA	25.69500	76.59700	13:53:48	D	9.80
151	SHIVPURI	KOLARAS	S-NPP	25.15681	77.65871	13:43:07	D	14.40
152	SHIVPURI	KOLARAS	AQUA	25.11300	77.83500	13:53:48	D	9.70
153	SHIVPURI	NARWAR	S-NPP	25.70514	78.18236	13:43:07	D	14.70
154	SHIVPURI	NARWAR	S-NPP	25.70896	78.18182	13:43:07	D	16.00
155	SHIVPURI	SHIVPURI	S-NPP	25.26526	77.78665	13:43:07	D	5.00
156	SHIVPURI	SHIVPURI	S-NPP	25.26897	77.78606	13:43:07	D	21.60
157	SHIVPURI	SHIVPURI	S-NPP	25.27268	77.78547	13:43:07	D	21.60
158	SHIVPURI	SHIVPURI	TERRA	25.34200	77.65600	10:12:42	D	49.00
159	TIKAMGARH	PALERA	S-NPP	25.04453	79.19540	13:43:07	D	10.40

160	UJJAIN	BARNAGAR	S-NPP	23.26546	75.41516	13:43:07	D	7.60
161	UJJAIN	GHATIYA	AQUA	23.32700	75.74300	13:53:48	D	16.60
162	UJJAIN	KACHROD	S-NPP	23.50895	75.26010	13:43:07	D	12.20
163	UJJAIN	MEHIDPUR	S-NPP	23.65284	75.71331	13:43:07	D	9.20
164	UJJAIN	MEHIDPUR	AQUA	23.42500	75.72000	13:53:48	D	16.50
165	UJJAIN	MEHIDPUR	AQUA	23.42600	75.73000	13:53:48	D	27.80
166	UJJAIN	NAGDA	S-NPP	23.32887	75.59300	13:43:07	D	12.30
167	UJJAIN	NAGDA	S-NPP	23.54604	75.37521	13:43:07	D	86.10
168	UJJAIN	NAGDA	S-NPP	23.54938	75.37465	13:43:07	D	86.10
169	UJJAIN	NAGDA	AQUA	23.53700	75.36800	13:53:48	D	36.10
170	UJJAIN	UJJAIN	S-NPP	23.09201	75.64000	13:43:07	D	11.00
171	UJJAIN	UJJAIN	S-NPP	23.10906	75.80703	13:43:07	D	15.50
172	VIDESHA	GYARASPUR	S-NPP	23.55272	78.01621	13:43:07	D	3.50
173	VIDESHA	GYARASPUR	S-NPP	23.62842	78.19870	13:43:07	D	14.00
174	VIDESHA	GYARASPUR	S-NPP	23.62903	78.20353	13:43:07	D	4.90
175	VIDESHA	GYARASPUR	AQUA	23.55300	78.01200	13:53:48	D	9.90
176	VIDESHA	GYARASPUR	AQUA	23.61300	77.90400	13:53:48	D	8.30
177	VIDESHA	GYARASPUR	AQUA	23.62500	78.19800	13:53:48	D	9.60
178	VIDESHA	GYARASPUR	AQUA	23.62700	78.20800	13:53:48	D	8.30
179	VIDESHA	GYARASPUR	AQUA	23.65200	78.19400	13:53:48	D	6.60
180	VIDESHA	NATERAN	S-NPP	23.88124	77.65439	13:43:07	D	4.20
181	VIDESHA	NATERAN	S-NPP	23.92235	77.68563	13:43:07	D	6.40
182	VIDESHA	NATERAN	S-NPP	23.92598	77.68506	13:43:07	D	3.00
183	VIDESHA	NATERAN	AQUA	23.97200	77.77000	13:53:48	D	13.70
184	VIDESHA	SIRANJ	S-NPP	24.21609	77.49197	13:43:07	D	15.20
185	VIDESHA	SIRANJ	AQUA	24.20900	77.49000	13:53:48	D	20.80
186	VIDESHA	SIRANJ	AQUA	24.21000	77.50000	13:53:48	D	25.10
187	VIDESHA	SIRANJ	AQUA	24.21800	77.48900	13:53:48	D	7.30
188	VIDESHA	VIDESHA	S-NPP	23.40262	78.02509	13:43:07	D	12.30
189	VIDESHA	VIDESHA	S-NPP	23.51605	77.60902	13:43:07	D	6.50
190	VIDESHA	VIDESHA	S-NPP	23.51663	77.61353	13:43:07	D	5.50
191	VIDESHA	VIDESHA	S-NPP	23.56347	77.63404	13:43:07	D	10.40
192	VIDESHA	VIDESHA	S-NPP	23.69412	77.67094	13:43:07	D	7.70
193	VIDESHA	VIDESHA	S-NPP	23.69929	77.79631	13:43:07	D	9.00

194	VIDESHA	VIDESHA	AQUA	23.51500	77.60600	13:53:48	D	13.60
195	VIDESHA	VIDESHA	AQUA	23.60300	77.83500	13:53:48	D	16.40

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 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)
