

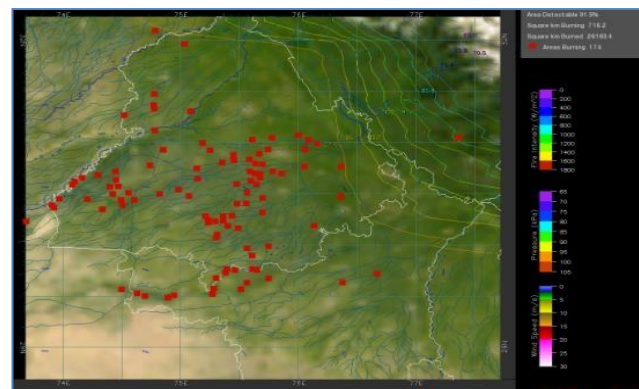
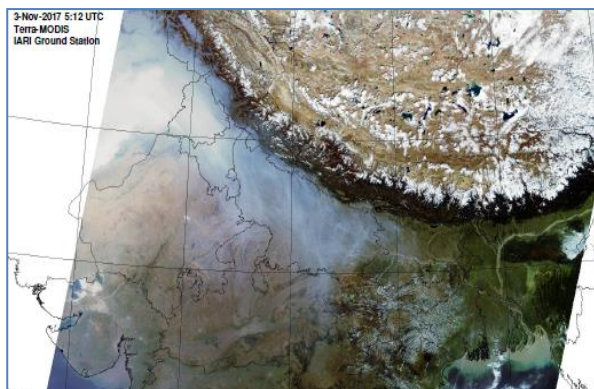


MONITORING WHEAT RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2023

**Bulletin
No. 26**

**Events Date:
26-Apr-2023**

**Issued on:
26-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**

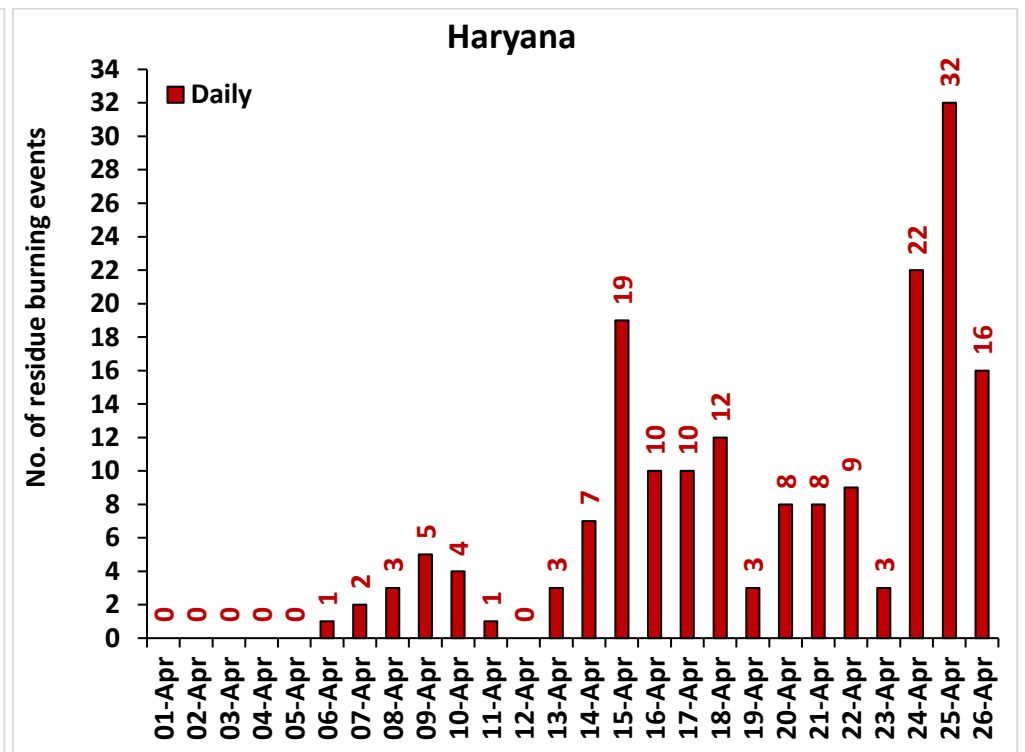
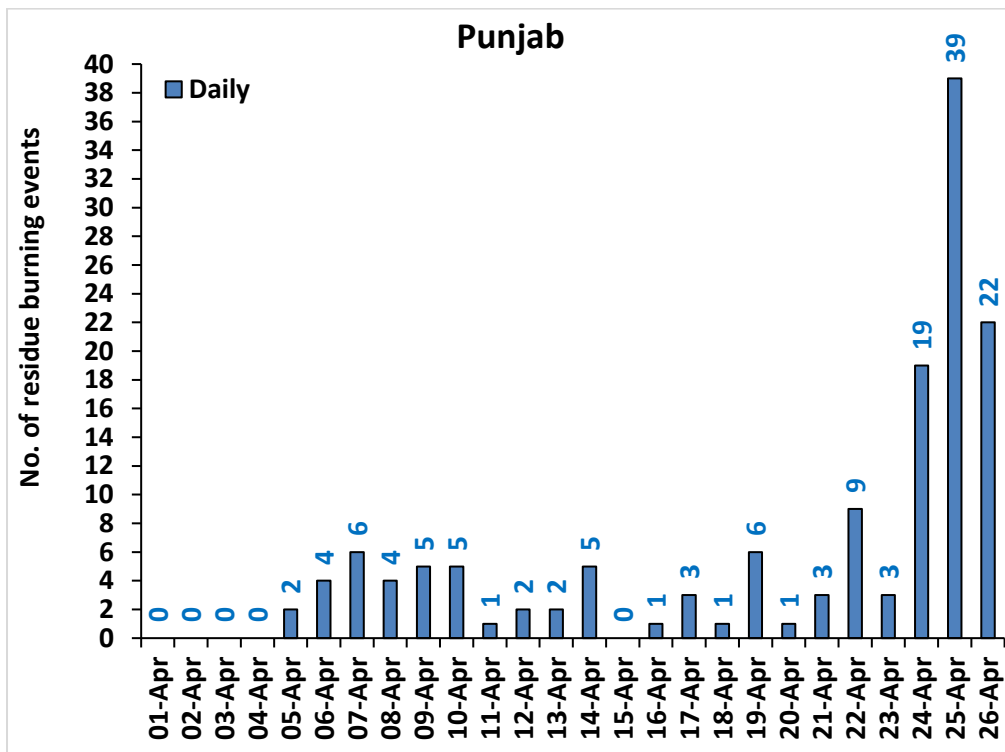
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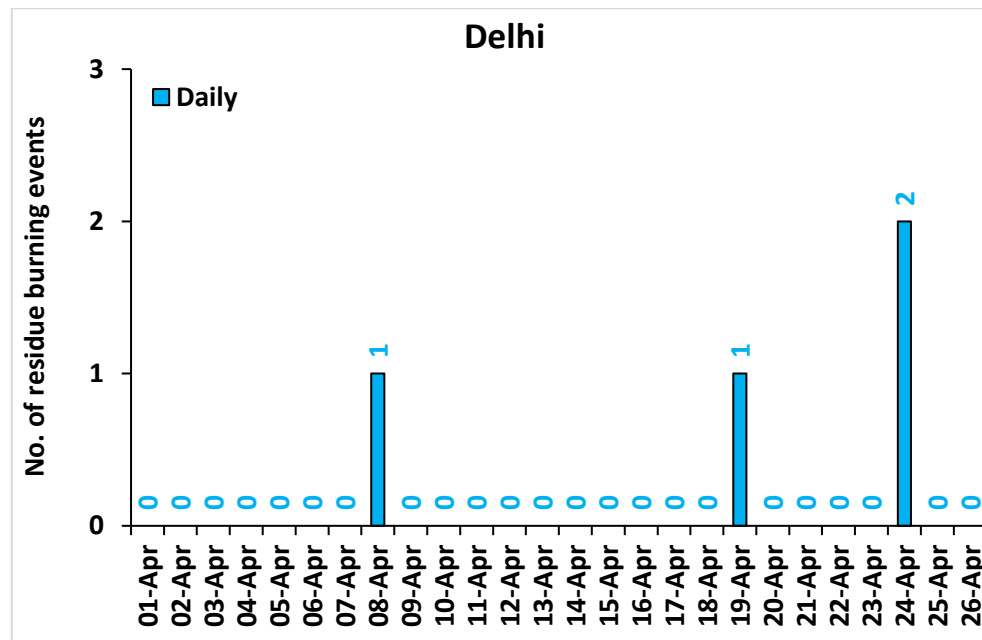
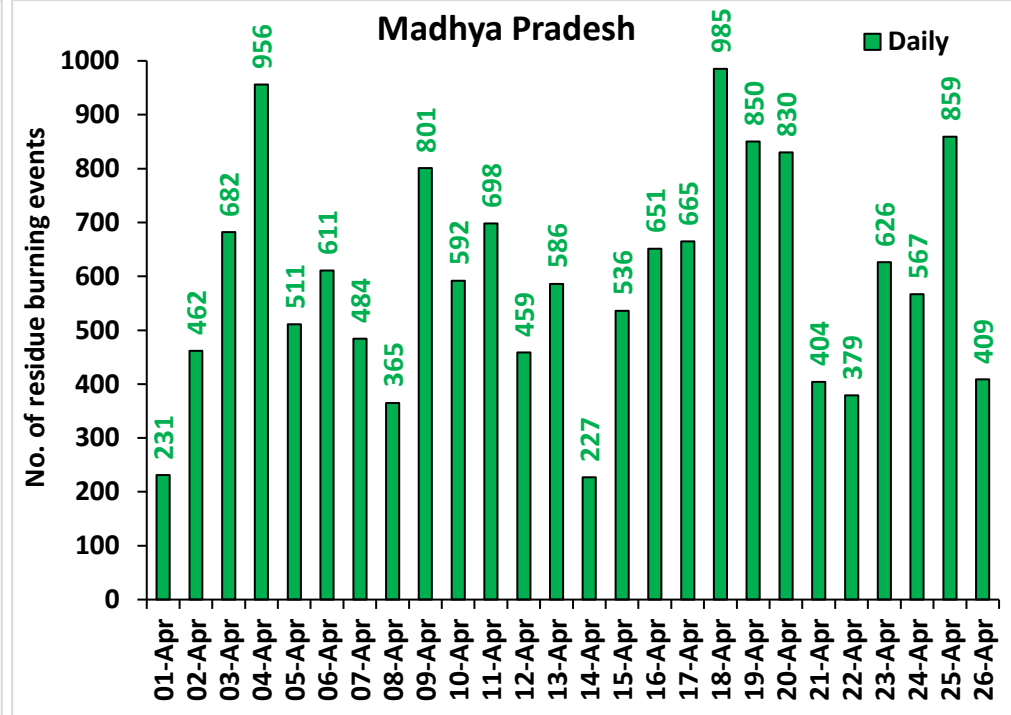
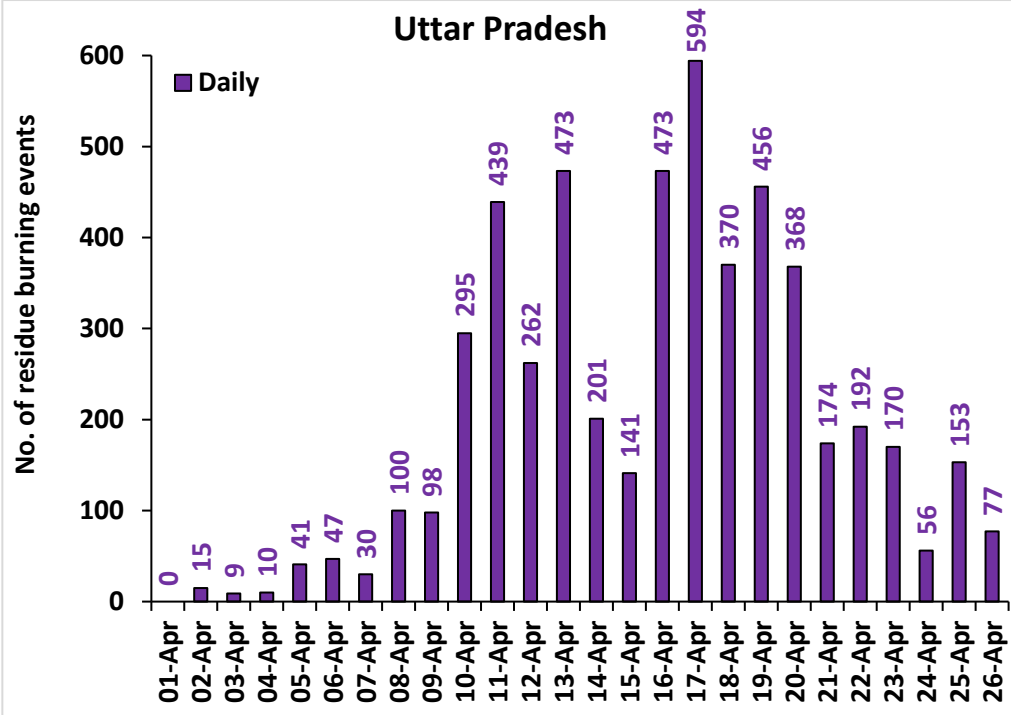


Highlights for 26-April-2023

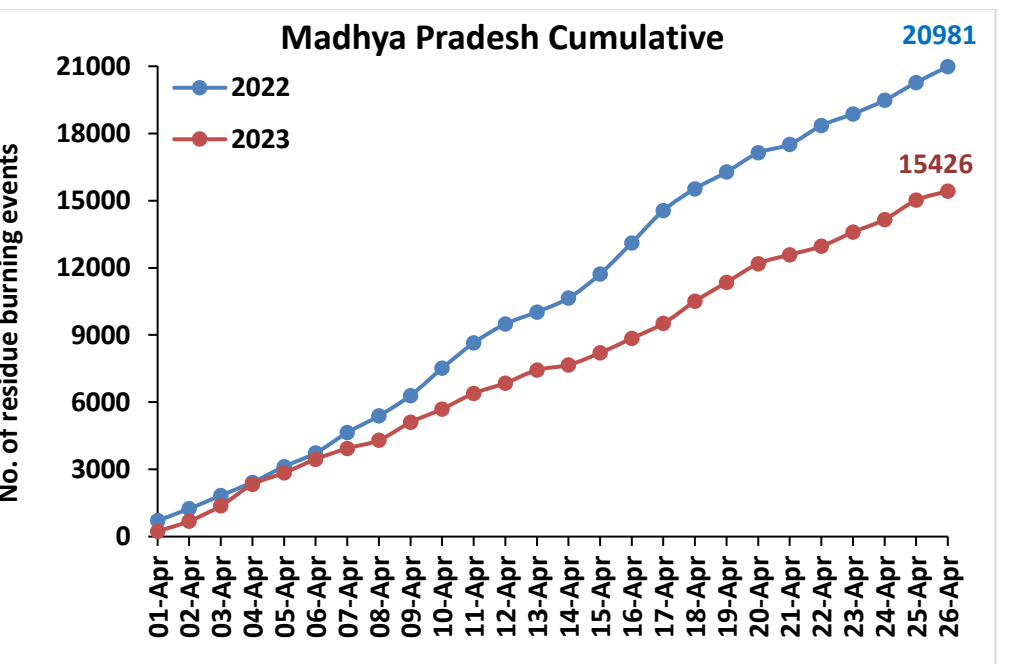
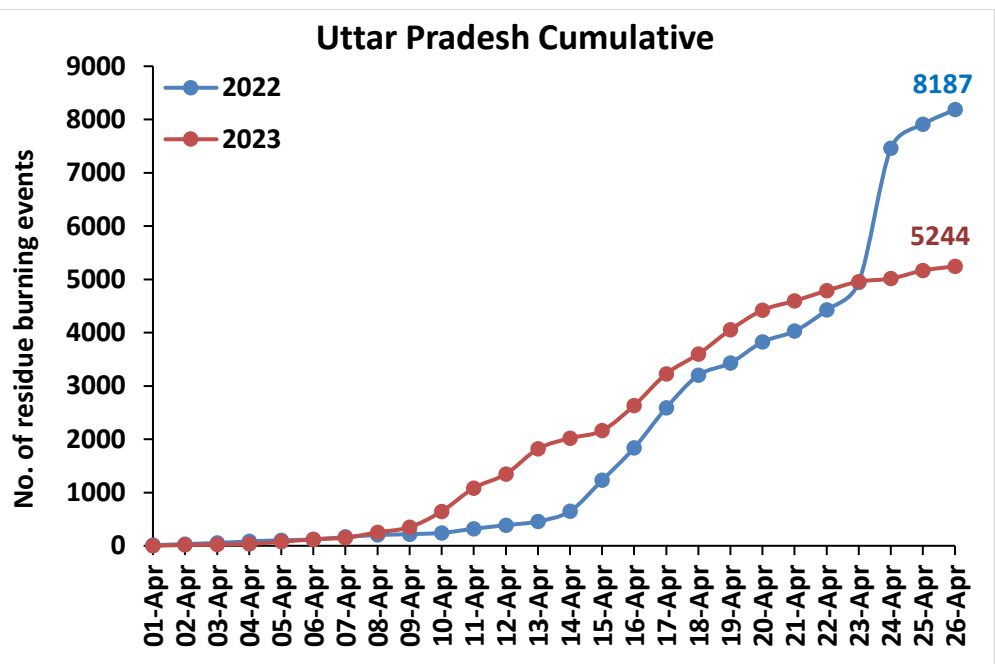
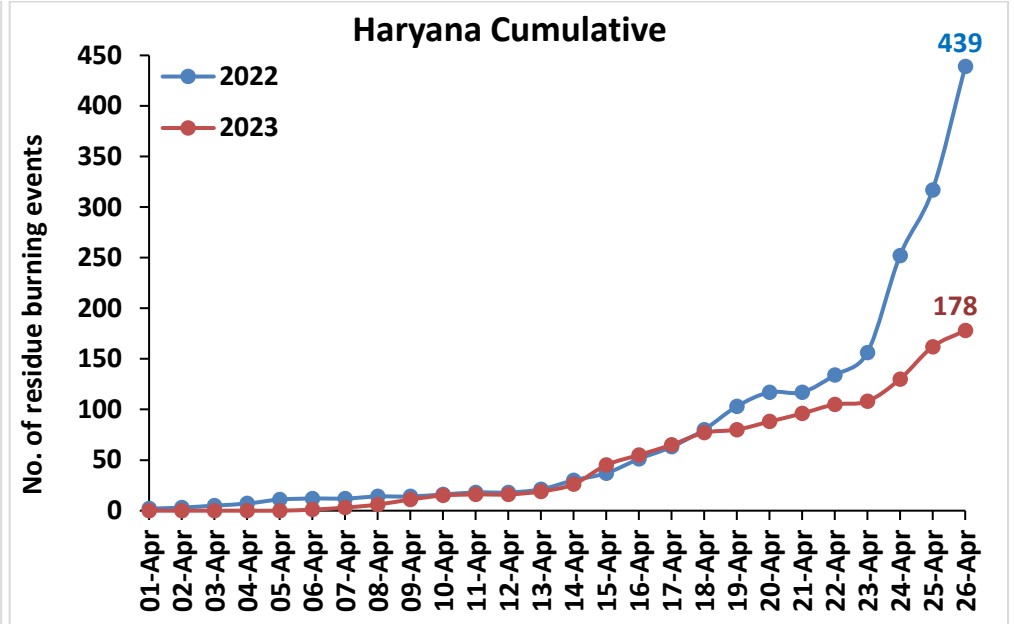
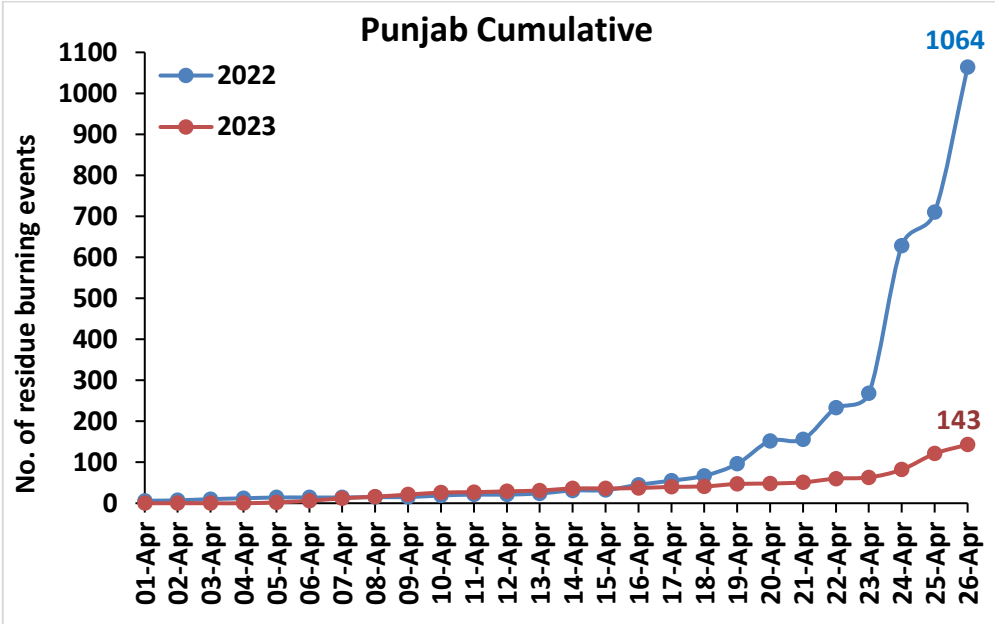
- The active fire events due to wheat residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **524** residue burning events in the five study States on 26-Apr-2023.
- The state wise events detected on 26-Apr-2023 were **22** in Punjab, **16** in Haryana, **00** in Delhi, **77** in Uttar Pradesh and **409** in Madhya Pradesh.
- The number of events has decreased from **1083** on 25-Apr-2023 to **524** on 26-Apr-2023 in the five study states.
- Total **20995** burning events were detected in the five states between 01-Apr-2023 and 26-Apr-2023, which are distributed as **143, 178, 5244, 04,** and **15426** in Punjab, Haryana, UP, Delhi, and MP, respectively.

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

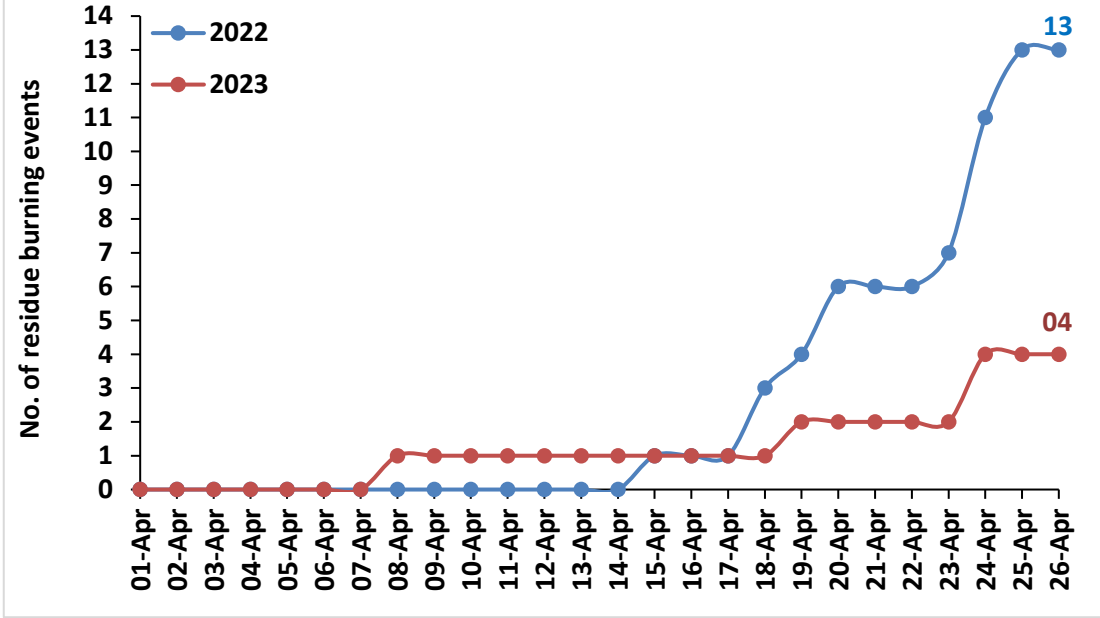




Comparison of residue burning events in current year (2023) with previous year (2022) for the study States



Delhi Cumulative



District-wise cumulative number of wheat residue burning events detected in 2022 and 2023
(Period: 01-26 April)

(a) Punjab

District	01-26 Apr	
	2022	2023
Amritsar	27	4
Barnala	48	15
Bathinda	84	20
Faridkot	45	4
Fatehgarh Sahib	1	1
Fazilka	96	5
Firozpur	105	4
Gurdaspur	21	9
Hoshiarpur	50	4
Jalandhar	61	7
Kapurthala	46	3
Ludhiana	32	5
Mansa	109	16
Moga	52	0
Muktsar	42	9
Pathankot	11	5
Patiala	56	10
Rupnagar	1	0
Sangrur	152	19
SAS NAGAR (Mohali)	1	0
SBS Nagar	9	2
Tarn Taran	15	1
Total	1064	143

(b) Haryana

District	01-26 Apr	
	2022	2023
AMBALA	8	5
BHIWANI	13	4
CHARKHI DADRI	4	1
FARIDABAD	4	7
FATEHABAD	47	6
GURGAON	6	8
HISAR	11	9
JHAJJAR	40	15
JIND	45	3
KAITHAL	29	5
KARNAL	52	8
KURUKSHETRA	9	6
MAHENDRAGARH	0	0
MEWAT	0	3
PALWAL	24	24
PANCHKULA	0	0
PANIPAT	35	3
REWARI	3	1
ROHTAK	21	8
SIRSA	36	41
SONIPAT	47	16
YAMUNANAGAR	5	5
Total	439	178

(c) Uttar Pradesh

District	01-26 Apr							
	2022	2023	GAUTAMBUDHNAGAR	12	11	MUZAFARNAGAR	27	23
			GAZIPUR	26	28	PILHIBHIT	136	31
AGRA	0	0	GHAZIABAD	10	3	PRATAPGARH	15	13
ALIGARH	11	26	GONDA	11	22	RAIBEARELI	58	6
ALLAHABAD	36	14	GORAKHPUR	770	351	RAMPUR	56	11
AMBEDKARNAGAR	5	5	HAMIRPUR	7	5	SANTKABIRNAGAR	617	416
AURAIYA	41	7	HARDOI	50	14	SANTRAVIDASNAGAR	0	1
AZAMGARH	51	60	JALAUN	9	1	SHAHJAHANPUR	133	6
BADAUN	5	2	JAUNPUR	11	4	SHARANPUR	18	6
BAGHPAT	2	1	JHANSI	36	38	SHRAWASTI	57	32
BAHRAICH	62	24	JYOTIBAPHULE NAGAR	5	1	SIDDHARTHANAGAR	2389	1829
BALLIA	85	154	KANNAUJ	0	0	SITAPUR	11	11
BALRAMPUR	196	78	KANPUR	6	0	SONBHADRA	80	16
BANDA	3	1	KANPUR DEHAT	15	0	SULTANPUR	33	19
BARABANKI	5	2	KAUSHAMBI	2	2	UNNAO	27	2
BAREILLY	37	11	KHERI	96	37	VARANASI	1	0
BASTI	350	202	KUSHINAGAR	178	91	Total	8187	5244
BIJNOR	27	17	LACKNOW	4	0			
BULANSAHAR	4	7	LALITPUR	24	28			
CHANDAULI	141	20	MAHAMAYANAGAR	0	1			
CHITRAKOOT	14	2	MAHARAJGANJ	1405	974			
DEORIA	632	427	MAHOBA	2	13			
ETAH	0	0	MAINPURI	1	2			
ETAWAH	3	2	MATHURA	20	36			
FAIZABAD	2	8	MAU	58	52			
FARRUKHABAD	3	2	MEERUT	5	11			
FATEHPUR	18	5	MIRZAPUR	29	6			
FIROZABAD	1	0	MORADABAD	3	14			

(d) Madhya Pradesh

District	01-26 Apr				
	2022	2023	PANNA	65	54
ALIRAJPUR	0	0	RAISEN	2253	1401
ANUPPUR	26	1	RAJGARH	72	133
ASHOKNAGAR	497	189	RATLAM	110	251
BALAGHAT	19	0	REWA	43	11
BARWANI	4	4	SAGAR	575	465
BETUL	121	37	SATNA	350	81
BHIND	12	22	SEHORE	781	607
BHOPAL	700	416	SEONI	1255	551
BURHANPUR	9	1	SHAHDOL	78	8
CHHATARPUR	83	41	SHAJAPUR	231	483
CHHINDWARA	287	186	SHEOPUR	214	325
DAMOH	166	208	SHIVPURI	98	63
DATIA	84	94	SIDHI	18	0
DEWAS	488	545	SINGRAULI	86	3
DHAR	954	857	TIKAMGARH	16	35
DINDORI	34	3	UJJAIN	930	1631
EAST NIMAR	62	100	UMARIA	27	3
GUNA	489	336	VIDESHA	3146	1470
GWALIOR	102	178	WEST NIMAR	18	37
HARDA	348	241	Total	20981	15426
HOSHANGABAD	4056	2753			
INDORE	902	990			
JABALPUR	732	337			
JHABUA	2	6			
KATNI	202	59			
MANDLA	72	15			
MANDSAUR	40	80			
MORENA	2	0			
NARSHIMAPURA	110	82			
NIMACH	12	33			

(e) Delhi

District	01-26 Apr	
	2022	2023
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	13	2
NORTH EAST	0	0
NORTH WEST DELHI	0	0
SHAHADRA	0	0
SOUTH	0	0
SOUTH EAST	0	0
SOUTH WEST DELHI	0	1
WEST DELHI	0	1
Total	13	4

State-wise and date-wise number of wheat residue burning events detected in 2022 and 2023
(Period: 01-26 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
Total	1064	143	439	178	8187	5244	13	4	20981	15426

Details of residue burning events in Punjab on 26-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BARNALA	BARNALA	S-NPP	30.33219	75.55603	14:02:02	D	4.60
2	BARNALA	BARNALA	TERRA	30.21900	75.45300	11:10:31	D	11.80
3	BARNALA	BARNALA	TERRA	30.24400	75.48500	11:10:31	D	12.80
4	BARNALA	BARNALA	TERRA	30.25100	75.68300	11:10:31	D	10.10
5	BARNALA	BARNALA	TERRA	30.25300	75.67600	11:10:31	D	9.40
6	BATHINDA	GONIANA MANDI	TERRA	30.36800	74.86200	11:10:31	D	10.70
7	FAZILKA	JALALABAD	TERRA	30.46400	74.21500	11:10:31	D	9.70
8	FAZILKA	JALALABAD	TERRA	30.49500	74.19900	11:10:31	D	7.60
9	MANSA	BHIKHI	S-NPP	30.05678	75.47723	14:02:02	D	5.20
10	MANSA	BHIKHI	S-NPP	30.07802	75.45866	14:02:02	D	5.20
11	MANSA	BHIKHI	S-NPP	30.07891	75.46132	14:02:02	D	11.60
12	MANSA	BHIKHI	S-NPP	30.12947	75.46049	14:02:02	D	2.30
13	MANSA	BUDHLADA	TERRA	29.88100	75.61500	11:10:31	D	10.50
14	MANSA	MANSA	S-NPP	30.10668	75.31525	14:02:02	D	9.00
15	MANSA	SARDULGARH	TERRA	29.74800	75.36300	11:10:31	D	11.00
16	MANSA	SARDULGARH	TERRA	29.75200	75.35600	11:10:31	D	13.40
17	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.37924	74.60574	14:02:02	D	5.30
18	MUKTSAR	LAMBI	TERRA	29.99600	74.63600	11:10:31	D	7.70
19	PATIALA	NABHA	S-NPP	30.34464	76.24238	14:02:02	D	13.70
20	SANGRUR	MALERKOTLA-2	S-NPP	30.48099	75.87643	14:02:02	D	3.90
21	SANGRUR	SANGRUR	TERRA	30.15700	75.62900	11:10:31	D	14.50
22	SANGRUR	SUNAM	S-NPP	30.13254	75.64409	14:02:02	D	4.00

Details of residue burning events in Haryana on 26-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	FARIDABAD	FARIDABAD	S-NPP	28.34679	77.23049	02:52:02	N	0.60
2	GURGAON	FARRUKHANAGAR	S-NPP	28.39894	76.74038	14:02:02	D	5.10
3	JHAJJAR	BAHADURGARH	S-NPP	28.67534	76.69928	14:02:02	D	4.10
4	JHAJJAR	BERI	S-NPP	28.64591	76.58927	14:02:02	D	6.20
5	KAITHAL	SIWAN	TERRA	29.92900	76.23200	11:10:31	D	13.00
6	KURUKSHETRA	SHAHBAD	S-NPP	30.10229	76.87180	14:02:02	D	3.60
7	KURUKSHETRA	SHAHBAD	S-NPP	30.10250	76.86964	14:02:02	D	4.90
8	PALWAL	HASSANPUR	S-NPP	27.93757	77.52781	14:02:02	D	7.40
9	PALWAL	HASSANPUR	S-NPP	27.93836	77.52901	14:02:02	D	8.00
10	ROHTAK	MEHAM	S-NPP	28.95378	76.31567	14:02:02	D	4.60
11	ROHTAK	ROHTAK	S-NPP	28.83245	76.63121	14:02:02	D	9.50
12	SIRSA	BARAGUNDA	TERRA	29.78100	75.18400	11:10:31	D	10.90
13	SIRSA	ELLENABAD	TERRA	29.41000	74.87200	11:10:31	D	18.00
14	SIRSA	SIRSA	S-NPP	29.39204	74.90289	14:02:02	D	2.20
15	SIRSA	SIRSA	S-NPP	29.39298	74.90466	14:02:02	D	3.50
16	YAMUNANAGAR	CHHACHHRAULI	S-NPP	30.19110	77.34164	14:02:02	D	1.60

Details of residue burning events in Uttar Pradesh on 26-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	KHAIR	S-NPP	28.04828	77.52869	14:02:02	D	5.30
2	ALLAHABAD	BARA	S-NPP	25.16968	81.72683	12:21:45	D	3.50
3	ALLAHABAD	KORAWN	S-NPP	25.00472	82.08123	12:21:45	D	2.80
4	ALLAHABAD	KORAWN	S-NPP	25.03119	82.09174	14:02:02	D	8.70
5	ALLAHABAD	KORAWN	S-NPP	25.03213	82.09431	14:02:02	D	8.40
6	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.42279	82.42046	12:21:45	D	2.50
7	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.42343	82.42110	12:21:45	D	4.10
8	AZAMGARH	LALGANJ	S-NPP	25.74064	83.13238	12:21:45	D	3.20
9	AZAMGARH	SAGRI	S-NPP	26.14804	83.15948	12:21:45	D	3.80
10	BAHRAICH	MAHASI	S-NPP	27.40618	81.43621	14:02:02	D	5.00
11	BAHRAICH	MAHASI	S-NPP	27.40890	81.43636	14:02:02	D	2.50
12	BALLIA	BANSDIH	S-NPP	25.94659	84.16087	12:21:45	D	3.70
13	BALLIA	BELTHARA ROAD	S-NPP	26.00556	83.78767	12:21:45	D	5.40
14	BALLIA	BELTHARA ROAD	S-NPP	26.00580	83.78277	12:21:45	D	4.10
15	BALLIA	BELTHARA ROAD	S-NPP	26.00667	83.78651	12:21:45	D	4.10
16	BALLIA	BELTHARA ROAD	S-NPP	26.00811	83.78789	14:02:02	D	6.00
17	BALLIA	BELTHARA ROAD	S-NPP	26.01112	83.78132	12:21:45	D	4.10
18	BALLIA	BELTHARA ROAD	S-NPP	26.01199	83.78507	12:21:45	D	4.10
19	BALLIA	BELTHARA ROAD	S-NPP	26.04560	83.78376	12:21:45	D	2.60
20	BALLIA	BELTHARA ROAD	S-NPP	26.08447	83.78086	12:21:45	D	5.60
21	BALLIA	RASRA	S-NPP	25.80475	83.83309	01:11:45	N	0.50
22	BALLIA	RASRA	S-NPP	25.84154	84.00163	14:02:02	D	9.60
23	BALLIA	RASRA	S-NPP	25.89560	83.86060	12:21:45	D	3.10
24	BALLIA	RASRA	S-NPP	25.95155	83.95338	14:02:02	D	7.90
25	BALRAMPUR	BALRAMPUR	S-NPP	27.40046	82.28794	12:21:45	D	2.40
26	BALRAMPUR	TULSIPUR	AQUA	27.37000	82.47300	13:12:03	D	12.10
27	BASTI	BHANPUR	S-NPP	26.92972	82.78362	01:11:45	N	2.00
28	BASTI	BHANPUR	S-NPP	26.92974	82.78390	01:11:45	N	1.40
29	BASTI	BHANPUR	S-NPP	26.93413	82.79048	01:11:45	N	0.90

30	CHANDAULI	CHAKIA	S-NPP	25.12318	83.33775	12:21:45	D	4.50
31	CHANDAULI	CHAKIA	S-NPP	25.12520	83.14477	12:21:45	D	2.80
32	CHANDAULI	CHAKIA	S-NPP	25.12562	83.33673	12:21:45	D	2.20
33	CHANDAULI	CHAKIA	S-NPP	25.12658	83.34088	12:21:45	D	2.20
34	CHITRAKOOT	KARWI	S-NPP	25.18887	80.86613	14:02:02	D	2.30
35	DEORIA	BHATPAR RANI	S-NPP	26.26316	83.98586	14:02:02	D	9.00
36	DEORIA	SALEMPUR	S-NPP	26.19269	83.96033	14:02:02	D	4.00
37	FAIZABAD	FAIZSBAD	S-NPP	26.63020	82.32987	01:11:45	N	0.90
38	GAZIPUR	MUHAMMADBAD	S-NPP	25.65368	83.81107	14:02:02	D	6.30
39	GAZIPUR	MUHAMMADBAD	S-NPP	25.65681	83.80608	14:02:02	D	4.70
40	GAZIPUR	ZAMANIA	S-NPP	25.47804	83.64407	12:21:45	D	4.00
41	GAZIPUR	ZAMANIA	S-NPP	25.48347	83.64256	12:21:45	D	10.20
42	GAZIPUR	ZAMANIA	S-NPP	25.52870	83.60158	14:02:02	D	3.90
43	JHANSI	JHANSI	S-NPP	25.56435	78.68958	01:11:45	N	1.10
44	JHANSI	JHANSI	S-NPP	25.56772	78.69003	01:11:45	N	0.50
45	LALITPUR	LALITPUR	S-NPP	24.63152	78.44121	14:02:02	D	6.10
46	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.00257	83.66236	12:21:45	D	6.50
47	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.00426	83.66967	12:21:45	D	6.70
48	MAHARAJGANJ	NAUTANWA	S-NPP	27.34748	83.40939	12:21:45	D	4.50
49	MAHARAJGANJ	NAUTANWA	S-NPP	27.42799	83.40530	12:21:45	D	4.50
50	MAHARAJGANJ	NAUTANWA	S-NPP	27.42998	83.40155	12:21:45	D	2.10
51	MAHARAJGANJ	NAUTANWA	S-NPP	27.43083	83.40528	12:21:45	D	2.10
52	MATHURA	CHHATA	S-NPP	27.79639	77.40902	14:02:02	D	3.60
53	MATHURA	MAT	S-NPP	27.85251	77.78417	14:02:02	D	3.20
54	MATHURA	MAT	S-NPP	27.85546	77.78550	14:02:02	D	2.60
55	MAU	GHOSI	S-NPP	26.12797	83.46812	14:02:02	D	8.80
56	MAU	GHOSI	S-NPP	26.13047	83.47029	14:02:02	D	9.90
57	MAU	MADHUBAN	S-NPP	26.08188	83.64478	12:21:45	D	12.40
58	MAU	MADHUBAN	S-NPP	26.08262	83.63589	14:02:02	D	8.20
59	MAU	MADHUBAN	S-NPP	26.08274	83.64861	12:21:45	D	13.00
60	MAU	MADHUBAN	S-NPP	26.08310	83.64413	12:21:45	D	13.90
61	MAU	MADHUBAN	S-NPP	26.08399	83.64794	12:21:45	D	11.70
62	MAU	MADHUBAN	S-NPP	26.12593	83.78508	14:02:02	D	4.40
63	MAU	MADHUBAN	S-NPP	26.15926	83.57723	12:21:45	D	3.90

64	MAU	MUHAMMADABAD	S-NPP	26.08631	83.38686	12:21:45	D	4.20
65	MAU	MUHAMMADABAD	AQUA	25.95200	83.32900	13:12:03	D	17.10
66	MIRZAPUR	CHUNAR	S-NPP	25.19706	83.11783	14:02:02	D	4.30
67	MIRZAPUR	CHUNAR	S-NPP	25.19875	83.12009	14:02:02	D	5.20
68	PILHIBHIT	PURANPUR	S-NPP	28.61876	80.09187	12:21:45	D	4.10
69	PILHIBHIT	PURANPUR	S-NPP	28.76020	80.19859	12:21:45	D	3.20
70	RAIBEARELI	TILOI	S-NPP	26.53261	81.43105	14:02:02	D	4.30
71	SHRAWASTI	IKAUNA	S-NPP	27.64834	81.74516	14:02:02	D	6.60
72	SIDDHARTHANAGAR	BANSI	S-NPP	27.14182	83.05496	12:21:45	D	6.50
73	SIDDHARTHANAGAR	ITWA	S-NPP	27.39446	82.58608	12:21:45	D	10.00
74	SITAPUR	MISRIK	S-NPP	27.62748	80.34962	14:02:02	D	3.40
75	SITAPUR	MISRIK	S-NPP	27.62984	80.34995	14:02:02	D	5.20
76	SULTANPUR	KADIRPUR	S-NPP	26.28064	82.48505	12:21:45	D	2.50
77	SULTANPUR	LAMBHUA	S-NPP	26.03489	82.19118	14:02:02	D	4.50

Details of wheat residue burning events in Madhya Pradesh on 26-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ASHOKNAGAR	CHANDERI	S-NPP	24.57516	77.92982	01:11:45	N	1.40
2	ASHOKNAGAR	CHANDERI	S-NPP	24.57577	77.93115	01:11:45	N	1.60
3	ASHOKNAGAR	MUNGAOLI	S-NPP	24.37091	77.97249	02:52:02	N	1.70
4	BHIND	GOHAD	S-NPP	26.43927	78.32161	12:21:45	D	14.70
5	BHIND	GOHAD	S-NPP	26.44140	78.32935	12:21:45	D	14.70
6	BHIND	GOHAD	S-NPP	26.44317	78.32286	12:21:45	D	7.30
7	BHIND	GOHAD	S-NPP	26.44590	78.29108	14:02:02	D	13.60
8	BHIND	GOHAD	S-NPP	26.44685	78.36472	14:02:02	D	10.40
9	BHIND	GOHAD	S-NPP	26.44710	78.37788	12:21:45	D	8.80
10	BHIND	GOHAD	S-NPP	26.44715	78.36824	14:02:02	D	10.40
11	BHIND	GOHAD	S-NPP	26.44849	78.28733	12:21:45	D	9.10
12	BHIND	GOHAD	S-NPP	26.45140	78.29401	14:02:02	D	10.30
13	BHIND	GOHAD	S-NPP	26.45169	78.29748	14:02:02	D	10.30
14	BHIND	GOHAD	S-NPP	26.45174	78.28358	12:21:45	D	7.20
15	BHIND	GOHAD	S-NPP	26.45386	78.29135	12:21:45	D	7.20
16	BHIND	GOHAD	S-NPP	26.45549	78.28503	12:21:45	D	9.10
17	BHIND	GOHAD	S-NPP	26.45690	78.29694	14:02:02	D	4.90
18	BHIND	GOHAD	S-NPP	26.45873	78.28122	12:21:45	D	8.50
19	BHIND	LAHAR	S-NPP	25.96871	78.81889	14:02:02	D	4.00
20	BHIND	LAHAR	S-NPP	26.01871	78.77332	14:02:02	D	5.80
21	BHOPAL	BERASIYA	S-NPP	23.47240	77.29253	01:11:45	N	1.70
22	BHOPAL	BERASIYA	S-NPP	23.61141	77.36879	02:52:02	N	1.00
23	BHOPAL	BERASIYA	S-NPP	23.63210	77.33441	02:52:02	N	2.80
24	BHOPAL	BERASIYA	S-NPP	23.63375	77.33727	01:11:45	N	3.00
25	BHOPAL	BERASIYA	S-NPP	23.68194	77.50262	01:11:45	N	8.90
26	BHOPAL	BERASIYA	S-NPP	23.68445	77.55777	01:11:45	N	1.30
27	BHOPAL	BERASIYA	S-NPP	23.71734	77.54272	01:11:45	N	0.90
28	BHOPAL	BERASIYA	S-NPP	23.72753	77.44381	02:52:02	N	0.20
29	BHOPAL	BERASIYA	S-NPP	23.73870	77.21378	02:52:02	N	1.10

30	BHOPAL	BERASIYA	S-NPP	23.75704	77.56878	02:52:02	N	1.80
31	BHOPAL	BERASIYA	S-NPP	23.79151	77.43851	01:11:45	N	2.10
32	BHOPAL	BERASIYA	AQUA	23.63400	77.33900	02:19:31	N	4.50
33	BHOPAL	HUZUR	S-NPP	23.30354	77.45157	02:52:02	N	0.90
34	BHOPAL	HUZUR	S-NPP	23.30580	77.45531	01:11:45	N	1.40
35	BHOPAL	HUZUR	S-NPP	23.30755	77.45354	02:52:02	N	0.80
36	BHOPAL	HUZUR	AQUA	23.30300	77.46000	02:19:31	N	8.60
37	CHHATARPUR	NOWGOAN	S-NPP	25.07067	79.88017	14:02:02	D	6.90
38	CHHATARPUR	NOWGOAN	S-NPP	25.22847	79.39119	01:11:45	N	0.30
39	CHHATARPUR	RAJNAGAR	S-NPP	24.80147	79.87276	12:21:45	D	7.20
40	CHHATARPUR	RAJNAGAR	S-NPP	24.80205	79.87463	12:21:45	D	7.40
41	CHHINDWARA	JAMAI	S-NPP	22.22935	78.67867	14:02:02	D	3.20
42	DAMOH	BATIAGARH	S-NPP	24.14901	79.49474	14:02:02	D	3.60
43	DATIA	BHANDER	S-NPP	25.86309	78.69414	14:02:02	D	4.40
44	DATIA	BHANDER	S-NPP	25.87055	78.71889	14:02:02	D	4.70
45	DATIA	BHANDER	S-NPP	25.87866	78.75099	14:02:02	D	2.00
46	DATIA	DATIA	S-NPP	25.66494	78.59908	14:02:02	D	8.40
47	DATIA	DATIA	S-NPP	25.71079	78.51759	14:02:02	D	5.90
48	DATIA	DATIA	S-NPP	25.71143	78.52724	14:02:02	D	6.80
49	DATIA	DATIA	S-NPP	25.71168	78.52806	14:02:02	D	6.20
50	DATIA	DATIA	S-NPP	25.72951	78.55109	14:02:02	D	7.40
51	DATIA	DATIA	S-NPP	25.72981	78.55460	14:02:02	D	7.40
52	DATIA	DATIA	S-NPP	25.73839	78.35130	14:02:02	D	3.20
53	DATIA	DATIA	S-NPP	25.77181	78.55046	14:02:02	D	6.30
54	DATIA	DATIA	S-NPP	25.77706	78.54995	14:02:02	D	6.30
55	DATIA	SEONDHA	S-NPP	25.79576	78.64108	14:02:02	D	1.50
56	DATIA	SEONDHA	S-NPP	25.81562	78.63744	14:02:02	D	2.10
57	DATIA	SEONDHA	S-NPP	25.81655	78.63524	14:02:02	D	4.20
58	DATIA	SEONDHA	S-NPP	25.81687	78.63881	14:02:02	D	4.20
59	DATIA	SEONDHA	S-NPP	25.82091	78.63690	14:02:02	D	6.80
60	DATIA	SEONDHA	S-NPP	25.82120	78.64047	14:02:02	D	6.90
61	DATIA	SEONDHA	S-NPP	25.82215	78.63828	14:02:02	D	6.80
62	DATIA	SEONDHA	S-NPP	26.01840	78.76965	14:02:02	D	3.70

63	DEWAS	DEWAS	S-NPP	22.88939	76.22623	01:11:45	N	1.50
64	DEWAS	DEWAS	S-NPP	22.89165	76.22690	01:11:45	N	1.10
65	DHAR	BADNAWAR	S-NPP	22.89251	75.25183	02:52:02	N	0.60
66	DHAR	DHAR	S-NPP	22.58904	75.60804	14:02:02	D	9.50
67	DHAR	MANAWAR	S-NPP	22.26548	75.13311	02:52:02	N	1.40
68	GUNA	GUNA	S-NPP	24.67612	77.40501	02:52:02	N	1.10
69	GUNA	GUNA	S-NPP	24.70621	77.04718	02:52:02	N	2.40
70	GUNA	GUNA	S-NPP	24.70626	77.05186	01:11:45	N	1.60
71	GUNA	GUNA	S-NPP	24.70734	77.05124	01:11:45	N	1.20
72	GUNA	GUNA	S-NPP	24.71084	77.05305	02:52:02	N	1.30
73	GUNA	GUNA	S-NPP	24.71184	77.04879	02:52:02	N	1.60
74	GUNA	GUNA	S-NPP	24.71274	77.05119	02:52:02	N	0.60
75	GUNA	GUNA	S-NPP	24.85794	77.06687	01:11:45	N	1.50
76	GUNA	GUNA	S-NPP	24.85830	77.05798	01:11:45	N	1.20
77	GUNA	GUNA	S-NPP	24.85835	77.06007	01:11:45	N	2.50
78	GUNA	GUNA	S-NPP	24.86056	77.06502	02:52:02	N	1.20
79	GUNA	GUNA	S-NPP	24.86883	77.18204	02:52:02	N	0.30
80	GUNA	GUNA	AQUA	24.70400	77.04900	02:19:31	N	4.60
81	GUNA	RAGHOGARH	AQUA	23.97100	77.29600	02:19:31	N	5.00
82	GWALIOR	BHITARWAR	S-NPP	25.81679	78.04802	14:02:02	D	1.70
83	GWALIOR	BHITARWAR	S-NPP	25.82421	78.13032	14:02:02	D	8.40
84	GWALIOR	BHITARWAR	S-NPP	25.82451	78.13362	14:02:02	D	9.10
85	GWALIOR	BHITARWAR	S-NPP	25.90225	78.08365	02:52:02	N	0.90
86	GWALIOR	BHITARWAR	S-NPP	25.90666	78.07874	02:52:02	N	1.00
87	GWALIOR	BHITARWAR	S-NPP	25.90922	78.08070	02:52:02	N	1.40
88	GWALIOR	BHITARWAR	S-NPP	25.91042	78.02334	14:02:02	D	5.30
89	GWALIOR	BHITARWAR	S-NPP	25.91166	78.15340	14:02:02	D	5.70
90	GWALIOR	BHITARWAR	S-NPP	25.91531	78.13619	14:02:02	D	9.10
91	GWALIOR	BHITARWAR	S-NPP	25.91984	78.12897	14:02:02	D	11.00
92	GWALIOR	BHITARWAR	S-NPP	25.92014	78.13230	14:02:02	D	11.00
93	GWALIOR	BHITARWAR	S-NPP	25.92812	78.22248	14:02:02	D	4.30
94	GWALIOR	BHITARWAR	S-NPP	25.93879	78.16735	14:02:02	D	3.30
95	GWALIOR	BHITARWAR	S-NPP	25.95720	78.19907	14:02:02	D	3.90

96	GWALIOR	BHITARWAR	S-NPP	25.95751	78.20244	14:02:02	D	3.90
97	GWALIOR	BHITARWAR	S-NPP	25.97085	78.23497	14:02:02	D	2.80
98	GWALIOR	BHITARWAR	S-NPP	25.97111	78.18075	14:02:02	D	16.20
99	GWALIOR	BHITARWAR	S-NPP	25.97141	78.18407	14:02:02	D	11.40
100	GWALIOR	BHITARWAR	S-NPP	25.97430	78.10298	14:02:02	D	3.20
101	GWALIOR	BHITARWAR	S-NPP	25.97601	78.23441	14:02:02	D	7.20
102	GWALIOR	BHITARWAR	S-NPP	25.97655	78.18353	14:02:02	D	11.40
103	GWALIOR	BHITARWAR	S-NPP	25.97845	78.06371	14:02:02	D	2.10
104	GWALIOR	BHITARWAR	S-NPP	25.97873	78.06701	14:02:02	D	2.60
105	GWALIOR	BHITARWAR	S-NPP	25.98085	78.23051	14:02:02	D	7.20
106	GWALIOR	BHITARWAR	S-NPP	25.98116	78.23386	14:02:02	D	7.20
107	GWALIOR	BHITARWAR	S-NPP	25.98570	78.22662	14:02:02	D	3.10
108	GWALIOR	BHITARWAR	S-NPP	25.98631	78.23332	14:02:02	D	5.30
109	GWALIOR	BHITARWAR	TERRA	25.90700	78.07900	11:10:31	D	71.90
110	GWALIOR	BHITARWAR	AQUA	25.97400	78.18200	13:12:03	D	62.30
111	GWALIOR	DABRA	S-NPP	25.85711	78.26530	14:02:02	D	2.90
112	GWALIOR	DABRA	S-NPP	25.91665	78.21014	14:02:02	D	4.30
113	GWALIOR	DABRA	S-NPP	25.91694	78.21349	14:02:02	D	4.30
114	GWALIOR	DABRA	S-NPP	25.92297	78.22301	14:02:02	D	4.30
115	GWALIOR	DABRA	S-NPP	25.95567	78.35719	14:02:02	D	6.80
116	GWALIOR	DABRA	S-NPP	25.95597	78.36061	14:02:02	D	6.80
117	GWALIOR	DABRA	S-NPP	26.01855	78.22786	14:02:02	D	12.20
118	GWALIOR	DABRA	S-NPP	26.02429	78.35506	14:02:02	D	5.20
119	HARDA	KHIRKIYAN	S-NPP	22.20800	76.87032	01:11:45	N	1.40
120	HARDA	KHIRKIYAN	S-NPP	22.20814	76.87231	02:52:02	N	3.50
121	HOSHANGABAD	PIPARIYA	S-NPP	22.67081	78.35281	01:11:45	N	1.60
122	HOSHANGABAD	PIPARIYA	S-NPP	22.67296	78.35287	01:11:45	N	1.30
123	INDORE	DEPALPUR	S-NPP	22.85773	75.44688	14:02:02	D	11.60
124	INDORE	DEPALPUR	S-NPP	22.98946	75.48286	14:02:02	D	7.60
125	INDORE	MHOW	S-NPP	22.49678	75.58726	14:02:02	D	7.70
126	INDORE	SANWER	S-NPP	22.82359	75.86300	14:02:02	D	6.10
127	JABALPUR	KUNDAM	S-NPP	23.22141	80.33891	01:11:45	N	0.70
128	JABALPUR	PATAN	S-NPP	23.40234	79.84115	12:21:45	D	6.90

129	JABALPUR	SIHORA	S-NPP	23.40752	80.08243	14:02:02	D	5.40
130	JABALPUR	SIHORA	S-NPP	23.41007	80.08131	14:02:02	D	4.90
131	JHABUA	PETLAWAD	S-NPP	22.87274	74.87509	14:02:02	D	14.60
132	JHABUA	THANDALA	S-NPP	23.04124	74.45763	02:52:02	N	1.10
133	MANDLA	NAINPUR	S-NPP	22.42068	80.12856	12:21:45	D	4.30
134	MANDLA	NAINPUR	S-NPP	22.42384	80.13197	14:02:02	D	12.10
135	MANDLA	NAINPUR	S-NPP	22.42419	80.13588	14:02:02	D	12.10
136	MANDLA	NIWAS	S-NPP	23.03843	80.19249	14:02:02	D	4.20
137	MANDSAUR	MANDSAUR	S-NPP	23.90244	75.15579	14:02:02	D	4.20
138	MANDSAUR	MANDSAUR	S-NPP	23.90657	75.15526	14:02:02	D	4.20
139	PANNA	PANNA	S-NPP	24.58995	80.30206	12:21:45	D	2.30
140	RAISEN	BARELI	S-NPP	23.02887	78.17805	14:02:02	D	11.40
141	RAISEN	GAIRATGANJ	S-NPP	23.33884	78.07156	02:52:02	N	0.90
142	RAISEN	GAIRATGANJ	S-NPP	23.34520	78.04540	02:52:02	N	1.60
143	RAISEN	GAIRATGANJ	S-NPP	23.34984	78.08026	02:52:02	N	0.40
144	RAISEN	GAIRATGANJ	S-NPP	23.38531	78.16867	02:52:02	N	1.30
145	RAISEN	GAIRATGANJ	S-NPP	23.38636	78.17410	02:52:02	N	2.20
146	RAISEN	GAIRATGANJ	S-NPP	23.38763	78.16882	02:52:02	N	2.20
147	RAISEN	GAIRATGANJ	S-NPP	23.43352	78.01353	01:11:45	N	2.40
148	RAISEN	GOHARGANJ	S-NPP	22.92395	77.55225	14:02:02	D	7.20
149	RAISEN	GOHARGANJ	S-NPP	22.93906	77.64937	01:11:45	N	1.50
150	RAISEN	GOHARGANJ	S-NPP	23.01824	77.57742	14:02:02	D	5.20
151	RAISEN	GOHARGANJ	S-NPP	23.04524	77.51314	14:02:02	D	14.60
152	RAISEN	GOHARGANJ	S-NPP	23.06671	77.67606	14:02:02	D	10.80
153	RAISEN	GOHARGANJ	S-NPP	23.18051	77.58541	02:52:02	N	1.70
154	RAISEN	GOHARGANJ	S-NPP	23.18365	77.60583	01:11:45	N	1.30
155	RAISEN	GOHARGANJ	S-NPP	23.20567	77.66685	02:52:02	N	1.00
156	RAISEN	GOHARGANJ	S-NPP	23.21645	77.59548	02:52:02	N	1.00
157	RAISEN	GOHARGANJ	AQUA	23.21000	77.59900	02:19:31	N	5.10
158	RAISEN	GOHARGANJ	AQUA	23.21000	77.66900	02:19:31	N	6.10
159	RAISEN	RAISEN	S-NPP	23.23089	77.77496	02:52:02	N	1.70
160	RAISEN	RAISEN	S-NPP	23.23098	77.77622	02:52:02	N	1.50
161	RAISEN	RAISEN	S-NPP	23.28183	77.72485	02:52:02	N	0.90

162	RAISEN	RAISEN	S-NPP	23.28632	77.72273	01:11:45	N	2.70
163	RAISEN	RAISEN	S-NPP	23.28673	77.71725	01:11:45	N	2.70
164	RAISEN	RAISEN	S-NPP	23.28903	77.72166	02:52:02	N	1.40
165	RAISEN	RAISEN	S-NPP	23.29032	77.71635	02:52:02	N	1.40
166	RAISEN	RAISEN	S-NPP	23.29284	77.72325	01:11:45	N	2.70
167	RAISEN	RAISEN	S-NPP	23.29326	77.71757	01:11:45	N	2.70
168	RAISEN	RAISEN	S-NPP	23.29504	77.72344	02:52:02	N	1.40
169	RAISEN	RAISEN	S-NPP	23.31598	77.89812	02:52:02	N	1.00
170	RAISEN	RAISEN	S-NPP	23.31775	77.89780	02:52:02	N	0.90
171	RAISEN	RAISEN	S-NPP	23.31853	77.90055	01:11:45	N	2.50
172	RAISEN	RAISEN	S-NPP	23.31906	77.90034	01:11:45	N	2.60
173	RAISEN	RAISEN	S-NPP	23.32077	77.90505	02:52:02	N	1.00
174	RAISEN	RAISEN	S-NPP	23.32204	77.89988	02:52:02	N	1.00
175	RAISEN	RAISEN	S-NPP	23.32257	77.90477	02:52:02	N	1.60
176	RAISEN	RAISEN	S-NPP	23.32381	77.89957	02:52:02	N	1.60
177	RAISEN	RAISEN	S-NPP	23.32507	77.89429	02:52:02	N	2.40
178	RAISEN	RAISEN	S-NPP	23.32540	77.89556	01:11:45	N	1.30
179	RAISEN	RAISEN	S-NPP	23.32590	77.89537	01:11:45	N	2.90
180	RAISEN	RAISEN	S-NPP	23.32684	77.90683	02:52:02	N	1.90
181	RAISEN	RAISEN	S-NPP	23.32811	77.90164	02:52:02	N	3.50
182	RAISEN	RAISEN	S-NPP	23.32863	77.90658	02:52:02	N	1.60
183	RAISEN	RAISEN	S-NPP	23.32940	77.89638	02:52:02	N	3.50
184	RAISEN	RAISEN	S-NPP	23.32988	77.90136	02:52:02	N	1.60
185	RAISEN	RAISEN	S-NPP	23.32991	77.97407	02:52:02	N	3.90
186	RAISEN	RAISEN	S-NPP	23.32994	77.68523	02:52:02	N	1.80
187	RAISEN	RAISEN	S-NPP	23.33114	77.89606	02:52:02	N	2.40
188	RAISEN	RAISEN	S-NPP	23.33116	77.68013	02:52:02	N	2.00
189	RAISEN	RAISEN	S-NPP	23.33118	77.96889	02:52:02	N	7.60
190	RAISEN	RAISEN	S-NPP	23.33141	77.90173	01:11:45	N	1.30
191	RAISEN	RAISEN	S-NPP	23.33194	77.90156	01:11:45	N	2.60
192	RAISEN	RAISEN	S-NPP	23.33251	77.97010	01:11:45	N	2.10
193	RAISEN	RAISEN	S-NPP	23.33347	77.97014	01:11:45	N	1.30
194	RAISEN	RAISEN	S-NPP	23.33519	77.92582	02:52:02	N	2.60

195	RAISEN	RAISEN	S-NPP	23.33707	77.92569	02:52:02	N	5.40
196	RAISEN	RAISEN	S-NPP	23.34126	77.92760	02:52:02	N	2.60
197	RAISEN	RAISEN	S-NPP	23.34691	77.98463	02:52:02	N	0.60
198	RAISEN	RAISEN	S-NPP	23.37653	77.82497	01:11:45	N	4.00
199	RAISEN	RAISEN	S-NPP	23.38258	77.83131	01:11:45	N	3.70
200	RAISEN	RAISEN	S-NPP	23.39843	77.93312	02:52:02	N	1.10
201	RAISEN	RAISEN	S-NPP	23.39999	77.84597	02:52:02	N	0.90
202	RAISEN	RAISEN	AQUA	23.22900	77.79100	02:19:31	N	5.70
203	RAISEN	RAISEN	AQUA	23.28500	77.71800	02:19:31	N	5.90
204	RAISEN	RAISEN	AQUA	23.29400	77.71900	02:19:31	N	4.50
205	RATLAM	RATLAM	S-NPP	23.31839	75.12003	14:02:02	D	8.80
206	SAGAR	BANDA	S-NPP	23.93823	78.93049	02:52:02	N	0.80
207	SAGAR	BANDA	S-NPP	23.93961	78.92645	01:11:45	N	1.30
208	SAGAR	BANDA	S-NPP	23.94314	78.97135	14:02:02	D	4.20
209	SAGAR	GARHAKOTA	S-NPP	23.80377	79.16680	01:11:45	N	1.00
210	SAGAR	GARHAKOTA	S-NPP	23.80416	79.16202	01:11:45	N	1.00
211	SAGAR	KHURAI	AQUA	24.03200	78.41600	02:19:31	N	38.70
212	SAGAR	KHURAI	AQUA	24.03300	78.40600	02:19:31	N	40.20
213	SAGAR	SAGAR	S-NPP	23.87466	78.91103	14:02:02	D	15.10
214	SAGAR	SAGAR	S-NPP	23.87991	78.91043	14:02:02	D	8.70
215	SAGAR	SAGAR	S-NPP	23.88023	78.91393	14:02:02	D	12.10
216	SAGAR	SAGAR	S-NPP	23.90986	78.91358	01:11:45	N	1.20
217	SAGAR	SAGAR	S-NPP	23.94519	78.52899	14:02:02	D	3.80
218	SAGAR	SAGAR	S-NPP	23.95032	78.52841	14:02:02	D	13.40
219	SAGAR	SAGAR	S-NPP	23.99374	78.65802	14:02:02	D	10.30
220	SAGAR	SAGAR	AQUA	23.91100	78.91400	02:19:31	N	4.70
221	SATNA	MAIHAR	S-NPP	24.29019	80.83913	14:02:02	D	12.20
222	SATNA	NAGOD	S-NPP	24.61884	80.70844	12:21:45	D	3.70
223	SATNA	UCHAHAR	S-NPP	24.39914	80.81621	14:02:02	D	12.40
224	SATNA	UCHAHAR	S-NPP	24.40230	80.81267	14:02:02	D	15.60
225	SATNA	UCHAHAR	S-NPP	24.40265	80.81738	14:02:02	D	15.60
226	SATNA	UCHAHAR	S-NPP	24.40471	80.81100	14:02:02	D	8.80
227	SATNA	UCHAHAR	S-NPP	24.40509	80.81570	14:02:02	D	8.80

228	SEHORE	AASHTA	S-NPP	23.11342	76.78321	02:52:02	N	0.60
229	SEHORE	NASRULLAHGANJ	S-NPP	22.70018	77.17811	01:11:45	N	1.30
230	SEHORE	SEHORE	S-NPP	23.40053	77.16873	01:11:45	N	2.00
231	SEHORE	SEHORE	S-NPP	23.40100	77.16238	01:11:45	N	2.00
232	SEHORE	SEHORE	S-NPP	23.40312	77.16809	01:11:45	N	3.90
233	SEHORE	SEHORE	S-NPP	23.40356	77.16169	01:11:45	N	3.40
234	SEHORE	SEHORE	S-NPP	23.40975	77.15070	02:52:02	N	9.10
235	SEHORE	SEHORE	S-NPP	23.41252	77.15577	02:52:02	N	5.70
236	SEHORE	SEHORE	S-NPP	23.41361	77.15119	02:52:02	N	17.20
237	SEHORE	SEHORE	S-NPP	23.43513	77.13730	14:02:02	D	6.70
238	SEHORE	SEHORE	S-NPP	23.43779	77.13436	14:02:02	D	9.40
239	SEHORE	SEHORE	S-NPP	23.43832	77.13960	14:02:02	D	9.40
240	SEHORE	SEHORE	S-NPP	23.43979	77.13676	14:02:02	D	6.70
241	SEONI	GHANSAUR	S-NPP	22.45801	79.83429	14:02:02	D	5.70
242	SEONI	GHANSAUR	S-NPP	22.49977	79.86751	14:02:02	D	7.70
243	SEONI	SEONI	S-NPP	22.32151	79.74375	14:02:02	D	5.40
244	SEONI	SEONI	S-NPP	22.32187	79.74750	14:02:02	D	6.60
245	SEONI	SEONI	S-NPP	22.32252	79.74606	14:02:02	D	6.70
246	SHAJAPUR	KALA PIPAL	S-NPP	23.30948	76.95609	02:52:02	N	0.50
247	SHAJAPUR	MOMAN BARODIY	S-NPP	23.65141	76.24100	02:52:02	N	0.50
248	SHAJAPUR	SUJALPUR	S-NPP	23.30654	76.65327	02:52:02	N	1.00
249	SHAJAPUR	SUJALPUR	S-NPP	23.30781	76.65123	02:52:02	N	1.10
250	SHEOPUR	SHEOPUR	S-NPP	25.42115	76.69263	02:52:02	N	0.40
251	SHEOPUR	SHEOPUR	S-NPP	25.44883	76.71044	14:02:02	D	6.00
252	SHEOPUR	SHEOPUR	S-NPP	25.45348	76.70988	14:02:02	D	10.20
253	SHEOPUR	SHEOPUR	S-NPP	25.55578	76.59267	01:11:45	N	1.80
254	SHEOPUR	SHEOPUR	S-NPP	25.56844	76.70054	14:02:02	D	4.80
255	SHEOPUR	SHEOPUR	S-NPP	25.67303	76.56061	01:11:45	N	1.50
256	SHEOPUR	SHEOPUR	S-NPP	25.67459	76.56690	02:52:02	N	0.70
257	SHEOPUR	SHEOPUR	S-NPP	25.67589	76.56334	01:11:45	N	1.30
258	SHEOPUR	SHEOPUR	S-NPP	25.68367	76.60363	14:02:02	D	6.00
259	SHEOPUR	SHEOPUR	S-NPP	25.69346	76.60776	14:02:02	D	8.00
260	SHEOPUR	SHEOPUR	S-NPP	25.70447	76.53236	14:02:02	D	5.00

261	SHEOPUR	SHEOPUR	S-NPP	25.71688	76.52308	14:02:02	D	5.10
262	SHEOPUR	SHEOPUR	S-NPP	25.71738	76.52830	14:02:02	D	5.10
263	SHEOPUR	SHEOPUR	S-NPP	25.71832	76.53085	14:02:02	D	6.90
264	SHEOPUR	SHEOPUR	S-NPP	25.72199	76.52778	14:02:02	D	5.10
265	SHEOPUR	SHEOPUR	S-NPP	25.73682	76.58421	14:02:02	D	8.30
266	SHEOPUR	SHEOPUR	S-NPP	25.73733	76.58946	14:02:02	D	8.30
267	SHEOPUR	SHEOPUR	S-NPP	25.73816	76.58666	14:02:02	D	14.60
268	SHEOPUR	SHEOPUR	S-NPP	25.80466	76.62750	02:52:02	N	0.30
269	SHEOPUR	SHEOPUR	S-NPP	25.80537	76.62569	02:52:02	N	0.40
270	SHEOPUR	SHEOPUR	TERRA	25.65600	76.60700	11:10:31	D	31.70
271	SHEOPUR	SHEOPUR	TERRA	25.65900	76.59100	11:10:31	D	24.70
272	SHEOPUR	SHEOPUR	TERRA	25.69000	76.61500	11:10:31	D	18.00
273	SHEOPUR	VIJAYPUR	S-NPP	26.03185	76.94522	14:02:02	D	6.40
274	SHIVPURI	KOLARAS	S-NPP	24.97900	77.76822	14:02:02	D	7.60
275	SHIVPURI	PICHHOR	S-NPP	25.13372	78.05885	14:02:02	D	5.90
276	TIKAMGARH	PALERA	S-NPP	25.02292	79.20190	14:02:02	D	6.70
277	TIKAMGARH	PALERA	S-NPP	25.02326	79.20568	14:02:02	D	7.00
278	TIKAMGARH	PALERA	S-NPP	25.02446	79.20073	14:02:02	D	6.70
279	TIKAMGARH	PALERA	S-NPP	25.02478	79.20453	14:02:02	D	7.70
280	UJJAIN	BARNAGAR	S-NPP	22.96606	75.41261	02:52:02	N	0.50
281	UJJAIN	BARNAGAR	S-NPP	22.97273	75.33778	14:02:02	D	2.20
282	UJJAIN	BARNAGAR	S-NPP	23.08303	75.55093	14:02:02	D	5.30
283	UJJAIN	BARNAGAR	S-NPP	23.21689	75.31017	14:02:02	D	5.70
284	UJJAIN	GHATIYA	S-NPP	23.30463	75.92081	01:11:45	N	0.80
285	UJJAIN	GHATIYA	S-NPP	23.32346	75.74177	02:52:02	N	0.30
286	UJJAIN	GHATIYA	S-NPP	23.32432	75.73800	02:52:02	N	0.30
287	UJJAIN	GHATIYA	S-NPP	23.32970	75.73942	02:52:02	N	1.10
288	UJJAIN	GHATIYA	S-NPP	23.33024	75.74273	01:11:45	N	1.30
289	UJJAIN	GHATIYA	S-NPP	23.33171	75.71892	01:11:45	N	1.30
290	UJJAIN	GHATIYA	S-NPP	23.33220	75.71099	01:11:45	N	1.30
291	UJJAIN	GHATIYA	S-NPP	23.33323	75.71728	01:11:45	N	1.20
292	UJJAIN	KACHROD	S-NPP	23.29816	75.41865	02:52:02	N	1.90
293	UJJAIN	KACHROD	S-NPP	23.36670	75.38518	14:02:02	D	4.00

294	UJJAIN	KACHROD	S-NPP	23.37732	75.36352	02:52:02	N	0.80
295	UJJAIN	KACHROD	S-NPP	23.40289	75.36566	02:52:02	N	1.10
296	UJJAIN	MEHIDPUR	S-NPP	23.46370	75.62921	14:02:02	D	10.10
297	UJJAIN	MEHIDPUR	S-NPP	23.55788	75.62094	02:52:02	N	1.80
298	UJJAIN	MEHIDPUR	S-NPP	23.55955	75.61947	01:11:45	N	1.80
299	UJJAIN	MEHIDPUR	S-NPP	23.56036	75.62154	01:11:45	N	1.80
300	UJJAIN	MEHIDPUR	S-NPP	23.56081	75.61329	01:11:45	N	2.80
301	UJJAIN	MEHIDPUR	S-NPP	23.69665	75.63763	02:52:02	N	0.80
302	UJJAIN	NAGDA	S-NPP	23.33722	75.53197	02:52:02	N	1.30
303	UJJAIN	NAGDA	S-NPP	23.33889	75.52461	02:52:02	N	0.70
304	UJJAIN	NAGDA	S-NPP	23.33986	75.53380	02:52:02	N	1.50
305	UJJAIN	NAGDA	S-NPP	23.34150	75.52641	02:52:02	N	0.60
306	UJJAIN	NAGDA	S-NPP	23.34251	75.53344	02:52:02	N	0.40
307	UJJAIN	NAGDA	S-NPP	23.36929	75.44281	14:02:02	D	9.10
308	UJJAIN	NAGDA	S-NPP	23.37346	75.44223	14:02:02	D	9.10
309	UJJAIN	NAGDA	S-NPP	23.41607	75.39938	14:02:02	D	4.00
310	UJJAIN	NAGDA	S-NPP	23.41654	75.40343	14:02:02	D	4.00
311	UJJAIN	NAGDA	S-NPP	23.46730	75.58601	14:02:02	D	7.40
312	UJJAIN	TARANA	S-NPP	23.44152	76.00327	02:52:02	N	1.30
313	UJJAIN	TARANA	S-NPP	23.44165	76.00471	02:52:02	N	1.80
314	UJJAIN	TARANA	S-NPP	23.44190	76.00394	01:11:45	N	4.50
315	UJJAIN	TARANA	S-NPP	23.44242	75.99939	02:52:02	N	2.10
316	UJJAIN	TARANA	S-NPP	23.44252	76.00082	02:52:02	N	2.00
317	UJJAIN	TARANA	S-NPP	23.44340	75.99694	02:52:02	N	2.00
318	UJJAIN	TARANA	S-NPP	23.44688	75.99916	01:11:45	N	4.30
319	UJJAIN	TARANA	S-NPP	23.44696	76.00475	02:52:02	N	1.30
320	UJJAIN	TARANA	S-NPP	23.44786	76.00088	02:52:02	N	2.10
321	UJJAIN	TARANA	S-NPP	23.44797	76.00232	02:52:02	N	0.90
322	UJJAIN	TARANA	S-NPP	23.45241	76.00623	02:52:02	N	1.10
323	UJJAIN	TARANA	S-NPP	23.45254	76.00773	02:52:02	N	1.30
324	UJJAIN	TARANA	S-NPP	23.45341	76.00382	02:52:02	N	0.90
325	UJJAIN	TARANA	S-NPP	23.53316	76.15242	02:52:02	N	0.60
326	UJJAIN	UJJAIN	S-NPP	23.25498	75.81352	02:52:02	N	0.60

327	VIDESHA	BASODA	S-NPP	23.79839	77.86617	01:11:45	N	0.70
328	VIDESHA	GYARASPUR	S-NPP	23.51744	78.02934	02:52:02	N	0.50
329	VIDESHA	GYARASPUR	S-NPP	23.59453	78.22315	01:11:45	N	0.80
330	VIDESHA	GYARASPUR	S-NPP	23.59734	78.22422	01:11:45	N	0.60
331	VIDESHA	GYARASPUR	S-NPP	23.60480	78.08986	01:11:45	N	1.00
332	VIDESHA	GYARASPUR	S-NPP	23.60678	78.09073	01:11:45	N	1.80
333	VIDESHA	GYARASPUR	S-NPP	23.66298	77.87531	02:52:02	N	1.00
334	VIDESHA	NATERAN	S-NPP	23.76928	77.70223	02:52:02	N	3.90
335	VIDESHA	NATERAN	S-NPP	23.77047	77.69729	02:52:02	N	4.00
336	VIDESHA	NATERAN	S-NPP	23.77093	77.69823	01:11:45	N	1.00
337	VIDESHA	NATERAN	S-NPP	23.77131	77.58821	02:52:02	N	1.30
338	VIDESHA	NATERAN	S-NPP	23.77207	77.69895	01:11:45	N	1.30
339	VIDESHA	NATERAN	S-NPP	23.79495	77.44403	01:11:45	N	1.20
340	VIDESHA	NATERAN	S-NPP	23.79985	77.44331	02:52:02	N	0.90
341	VIDESHA	NATERAN	S-NPP	23.80159	77.44473	01:11:45	N	1.40
342	VIDESHA	NATERAN	S-NPP	23.80576	77.44479	02:52:02	N	0.80
343	VIDESHA	NATERAN	S-NPP	23.83412	77.61638	02:52:02	N	0.50
344	VIDESHA	NATERAN	S-NPP	23.83630	77.61415	01:11:45	N	2.90
345	VIDESHA	NATERAN	S-NPP	23.83637	77.61314	02:52:02	N	0.90
346	VIDESHA	VIDESHA	S-NPP	23.42599	77.94441	01:11:45	N	2.30
347	VIDESHA	VIDESHA	S-NPP	23.42749	77.94227	01:11:45	N	1.50
348	VIDESHA	VIDESHA	S-NPP	23.42910	77.93748	02:52:02	N	0.80
349	VIDESHA	VIDESHA	S-NPP	23.42999	77.93688	02:52:02	N	0.80
350	VIDESHA	VIDESHA	S-NPP	23.43642	77.93410	02:52:02	N	0.80
351	VIDESHA	VIDESHA	S-NPP	23.43728	77.93353	02:52:02	N	1.90
352	VIDESHA	VIDESHA	S-NPP	23.43768	77.92897	02:52:02	N	1.10
353	VIDESHA	VIDESHA	S-NPP	23.44019	77.92856	01:11:45	N	0.70
354	VIDESHA	VIDESHA	S-NPP	23.44118	77.93211	01:11:45	N	0.60
355	VIDESHA	VIDESHA	S-NPP	23.47296	77.94072	01:11:45	N	2.40
356	VIDESHA	VIDESHA	S-NPP	23.47338	77.93507	01:11:45	N	2.40
357	VIDESHA	VIDESHA	S-NPP	23.47404	77.93961	02:52:02	N	2.50
358	VIDESHA	VIDESHA	S-NPP	23.47982	77.93563	01:11:45	N	3.80
359	VIDESHA	VIDESHA	S-NPP	23.49125	77.89537	02:52:02	N	1.30

360	VIDESHA	VIDESHA	S-NPP	23.49569	77.89685	01:11:45	N	2.30
361	VIDESHA	VIDESHA	S-NPP	23.50830	77.87833	02:52:02	N	0.40
362	VIDESHA	VIDESHA	S-NPP	23.52073	77.93672	14:02:02	D	6.70
363	VIDESHA	VIDESHA	S-NPP	23.52315	77.93251	14:02:02	D	11.70
364	VIDESHA	VIDESHA	S-NPP	23.52565	77.93617	14:02:02	D	5.20
365	VIDESHA	VIDESHA	S-NPP	23.53306	77.52891	02:52:02	N	1.00
366	VIDESHA	VIDESHA	S-NPP	23.53473	77.53062	02:52:02	N	1.00
367	VIDESHA	VIDESHA	S-NPP	23.59437	77.64942	14:02:02	D	25.10
368	VIDESHA	VIDESHA	S-NPP	23.59533	77.64633	14:02:02	D	9.80
369	VIDESHA	VIDESHA	S-NPP	23.59592	77.65206	14:02:02	D	9.80
370	VIDESHA	VIDESHA	S-NPP	23.60016	77.64581	14:02:02	D	9.80
371	VIDESHA	VIDESHA	S-NPP	23.61392	77.65347	02:52:02	N	0.90
372	VIDESHA	VIDESHA	S-NPP	23.61579	77.64270	02:52:02	N	1.70
373	VIDESHA	VIDESHA	S-NPP	23.61631	77.64364	02:52:02	N	1.10
374	VIDESHA	VIDESHA	S-NPP	23.61775	77.65456	01:11:45	N	1.20
375	VIDESHA	VIDESHA	S-NPP	23.61818	77.64861	01:11:45	N	1.20
376	VIDESHA	VIDESHA	S-NPP	23.61861	77.64268	01:11:45	N	1.30
377	VIDESHA	VIDESHA	S-NPP	23.62517	77.64327	01:11:45	N	1.30
378	VIDESHA	VIDESHA	S-NPP	23.62821	77.64704	02:52:02	N	1.10
379	VIDESHA	VIDESHA	S-NPP	23.62940	77.64214	02:52:02	N	1.10
380	VIDESHA	VIDESHA	S-NPP	23.63091	77.64401	01:11:45	N	0.90
381	VIDESHA	VIDESHA	S-NPP	23.63172	77.64386	01:11:45	N	1.00
382	VIDESHA	VIDESHA	S-NPP	23.68803	77.77001	02:52:02	N	1.20
383	VIDESHA	VIDESHA	S-NPP	23.68808	77.76856	01:11:45	N	4.60
384	VIDESHA	VIDESHA	S-NPP	23.68850	77.76268	01:11:45	N	3.80
385	VIDESHA	VIDESHA	S-NPP	23.68928	77.76898	02:52:02	N	1.90
386	VIDESHA	VIDESHA	S-NPP	23.69400	77.77179	02:52:02	N	1.60
387	VIDESHA	VIDESHA	S-NPP	23.69460	77.76910	01:11:45	N	4.60
388	VIDESHA	VIDESHA	S-NPP	23.69502	77.76321	01:11:45	N	3.80
389	VIDESHA	VIDESHA	S-NPP	23.69517	77.76685	02:52:02	N	1.60
390	VIDESHA	VIDESHA	S-NPP	23.69525	77.77074	02:52:02	N	1.90
391	VIDESHA	VIDESHA	S-NPP	23.69898	77.79913	01:11:45	N	1.30
392	VIDESHA	VIDESHA	S-NPP	23.70114	77.76864	02:52:02	N	1.60

393	VIDESHA	VIDESHA	S-NPP	23.70154	77.76376	01:11:45	N	1.40
394	VIDESHA	VIDESHA	S-NPP	23.70243	77.76757	02:52:02	N	1.60
395	VIDESHA	VIDESHA	S-NPP	23.70549	77.79970	01:11:45	N	1.30
396	VIDESHA	VIDESHA	S-NPP	23.71040	77.70257	02:52:02	N	0.80
397	VIDESHA	VIDESHA	S-NPP	23.71243	77.79439	01:11:45	N	1.00
398	VIDESHA	VIDESHA	S-NPP	23.71436	77.79752	02:52:02	N	2.70
399	VIDESHA	VIDESHA	S-NPP	23.71663	77.81492	14:02:02	D	22.00
400	VIDESHA	VIDESHA	S-NPP	23.71807	77.80663	01:11:45	N	1.90
401	VIDESHA	VIDESHA	S-NPP	23.71894	77.79494	01:11:45	N	1.00
402	VIDESHA	VIDESHA	S-NPP	23.71895	77.81659	14:02:02	D	16.80
403	VIDESHA	VIDESHA	S-NPP	23.72151	77.81436	14:02:02	D	22.00
404	VIDESHA	VIDESHA	S-NPP	23.72384	77.81605	14:02:02	D	16.80
405	VIDESHA	VIDESHA	S-NPP	23.72801	77.67081	01:11:45	N	5.20
406	VIDESHA	VIDESHA	AQUA	23.47400	77.94100	02:19:31	N	6.40
407	VIDESHA	VIDESHA	AQUA	23.61700	77.65100	02:19:31	N	4.40
408	VIDESHA	VIDESHA	AQUA	23.61900	77.64100	02:19:31	N	4.10
409	VIDESHA	VIDESHA	AQUA	23.69200	77.77000	02:19:31	N	4.60

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)
