



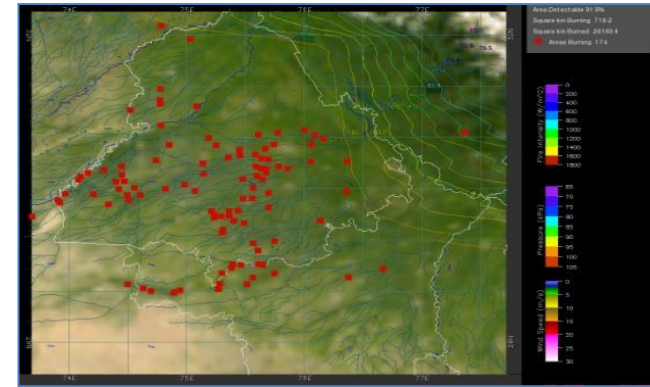
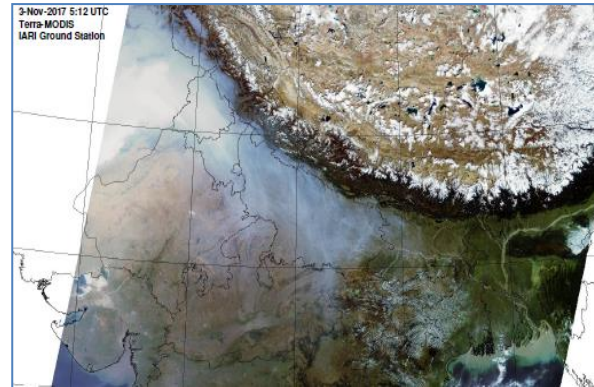
Bulletin No. 08

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



Prepared by:

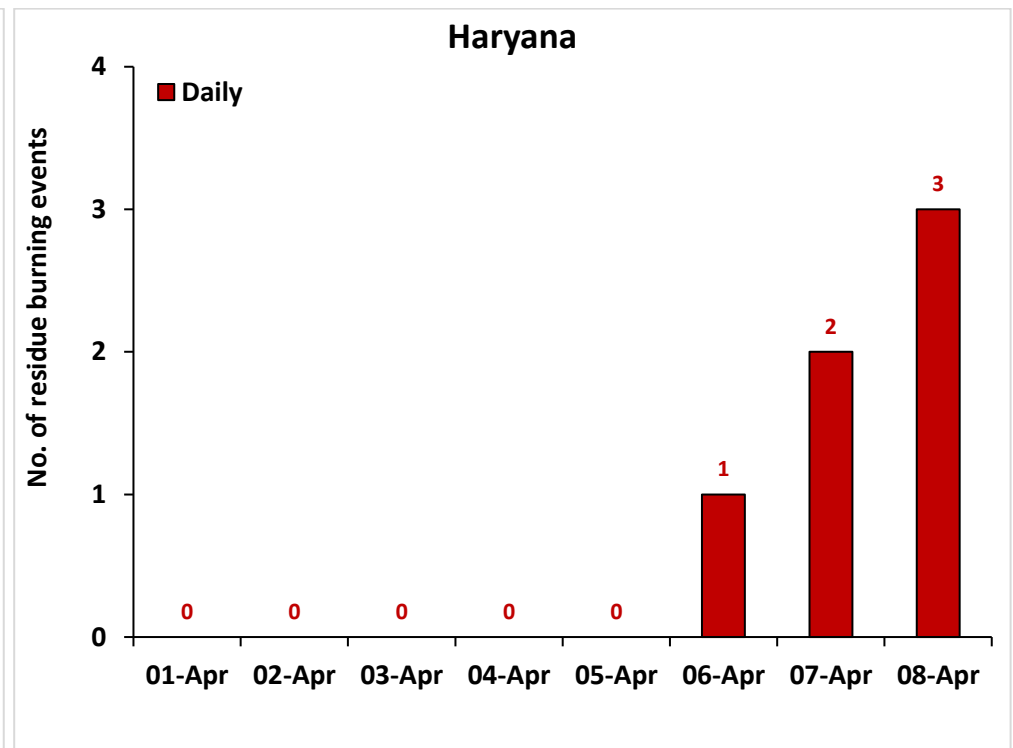
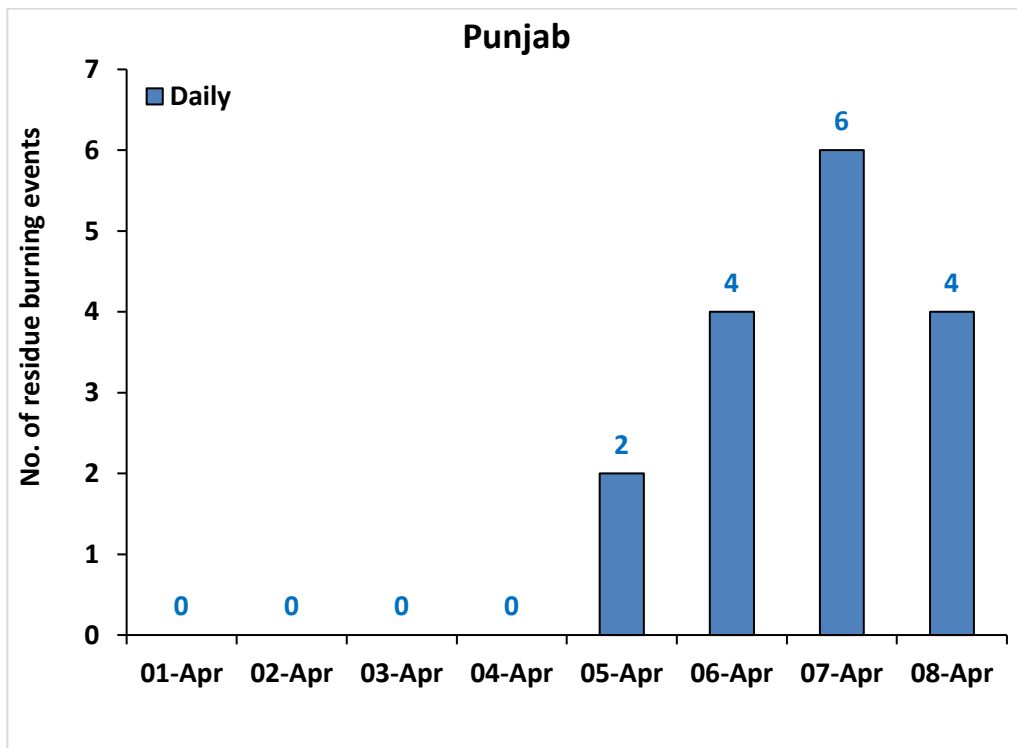
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

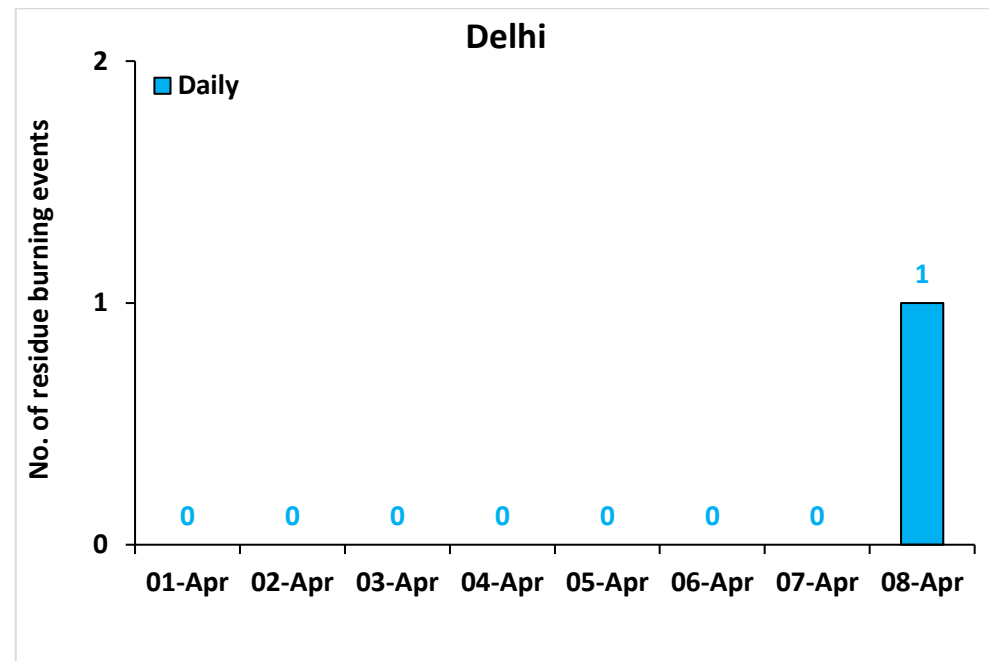
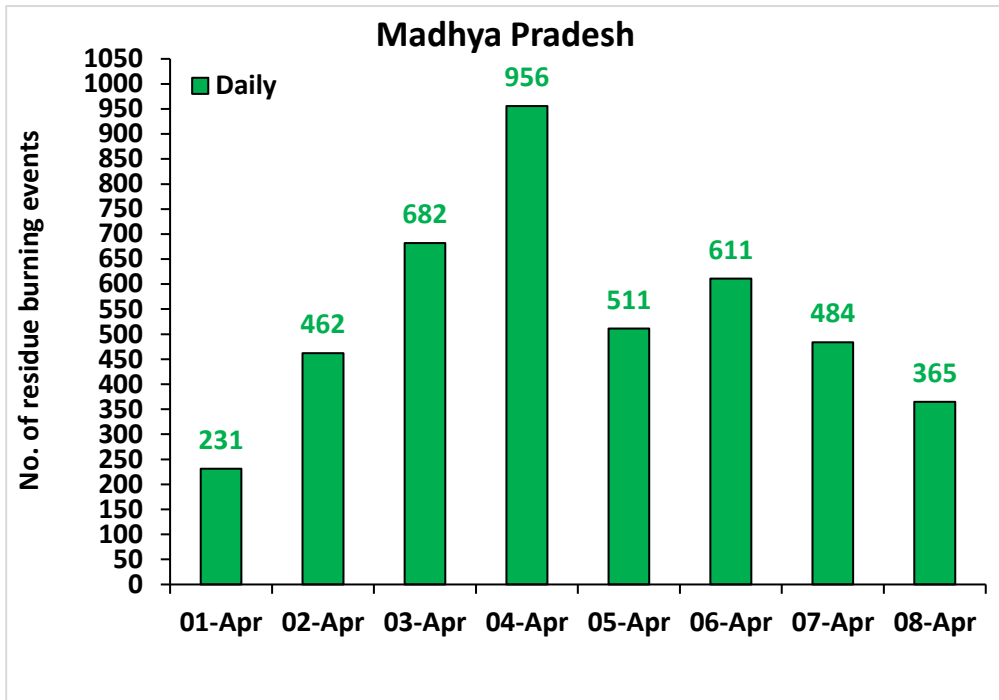
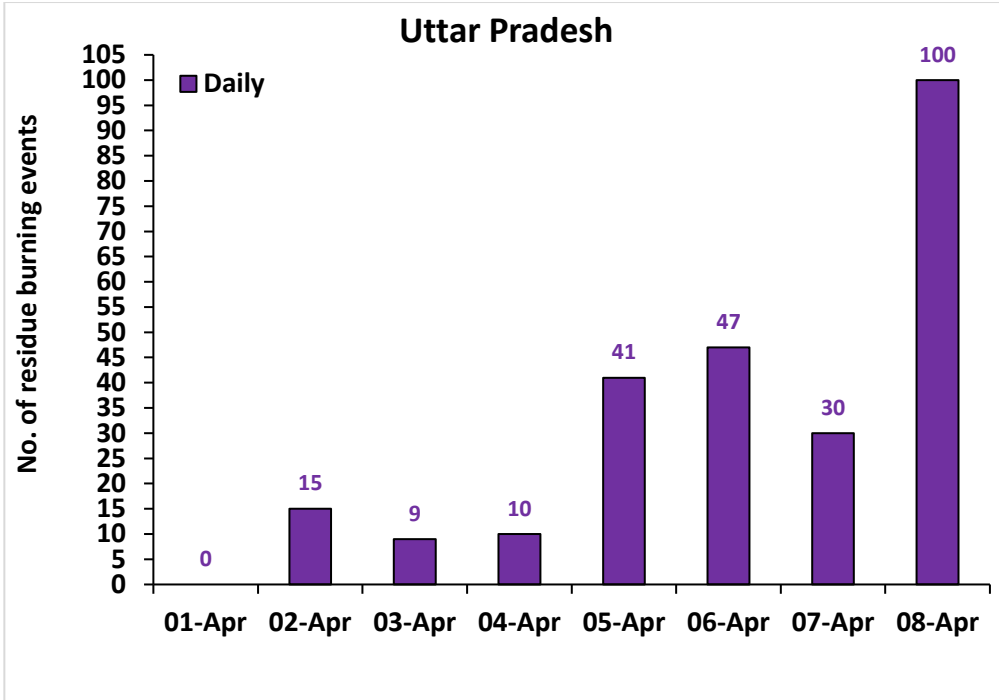
<http://creams.iari.res.in/cms2/>

Highlights for 08-April-2023

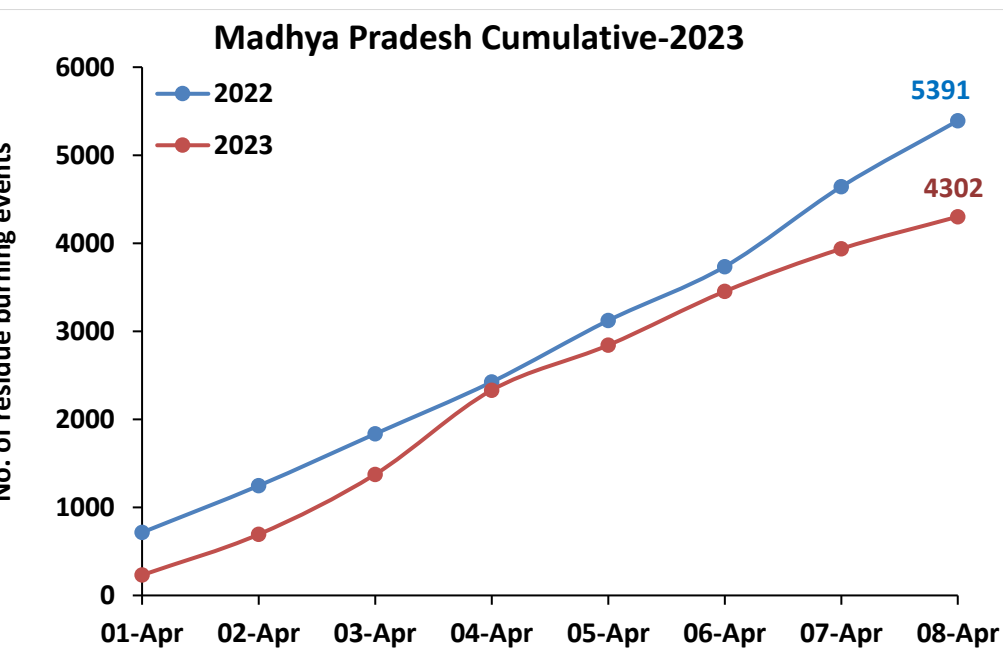
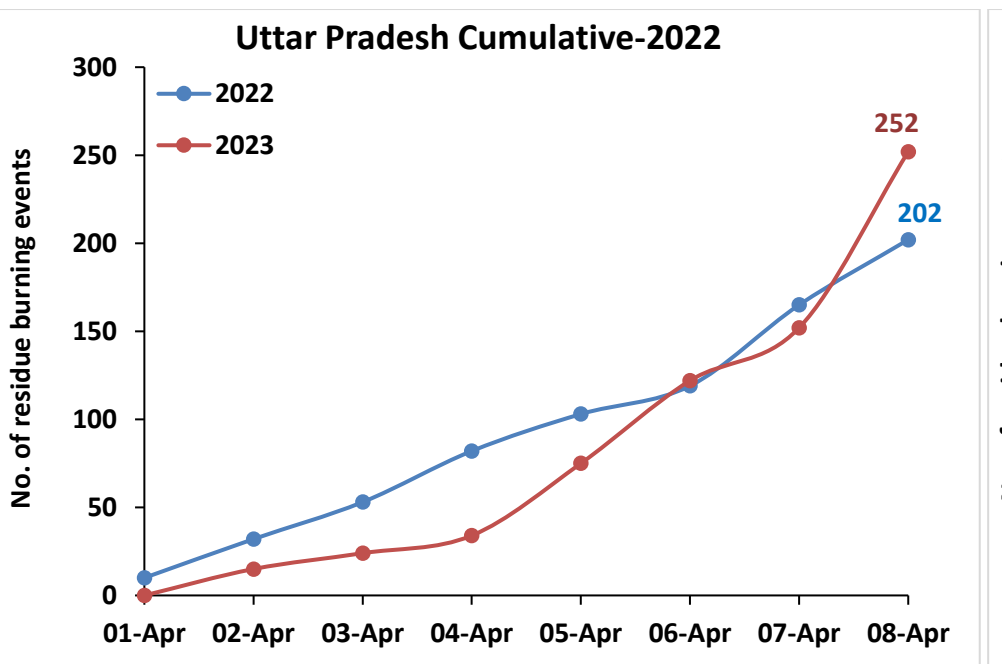
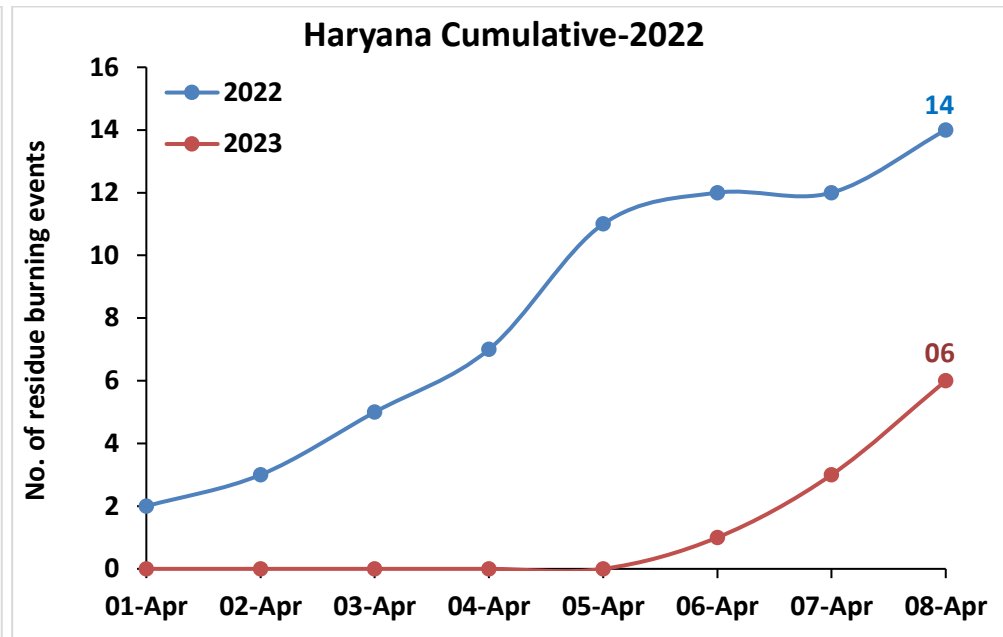
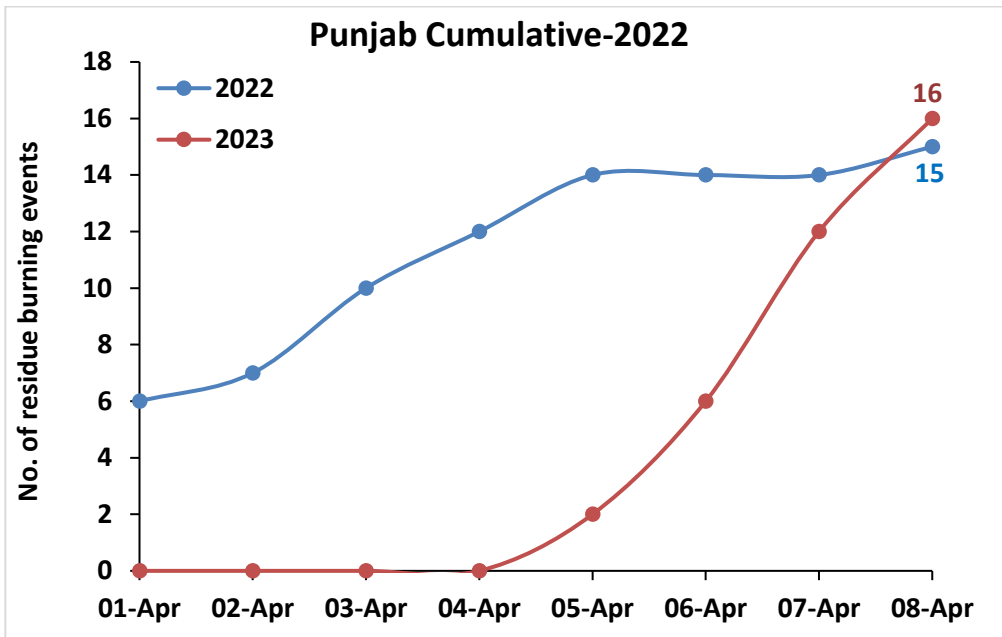
- The active fire events due to wheat residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **473** residue burning events in the five study States on 08-Apr-2023.
- The state wise events detected on 08-Apr-2023 were **04** in Punjab, **03** in Haryana, **01** in Delhi, **100** in Uttar Pradesh and **365** in Madhya Pradesh.
- The number of events has decreased from **522** on 07-Apr-2023 to **473** on 08-Apr-2023 in the five study states.
- Total **4576** burning events were detected in the five states between 01-Apr-2023 and 08-Apr-2023, which are distributed as **16, 06, 252, 01,** and **4302** in Punjab, Haryana, UP, Delhi, and MP, respectively.

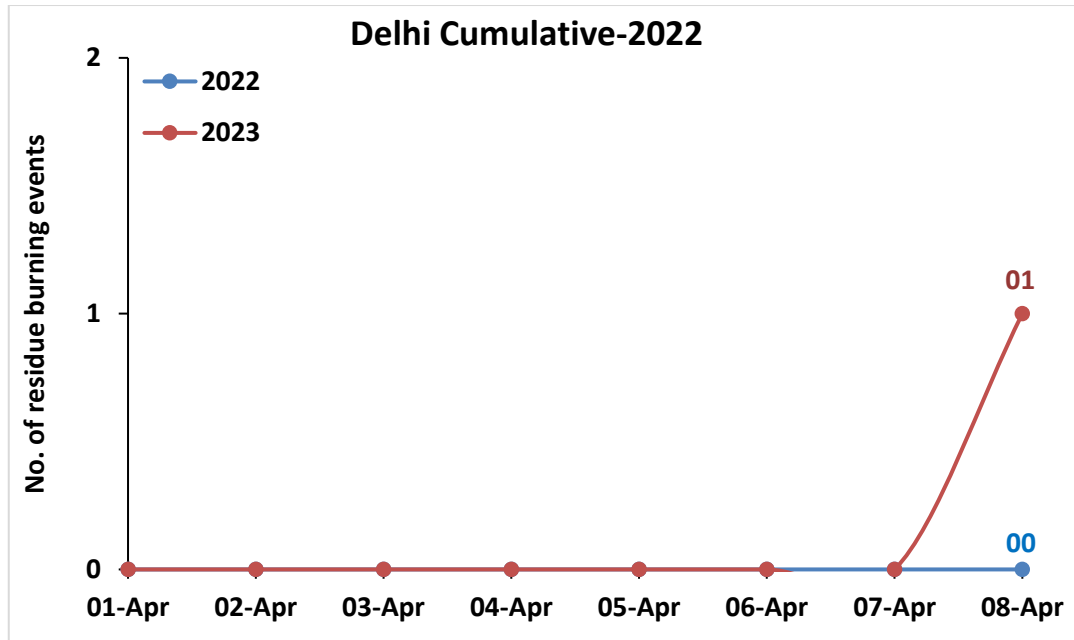
Temporal distribution of wheat residue burning events for the study States in 2023





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: 01-08 April)

(a) Punjab

District	01-08 Apr	
	2022	2023
Amritsar	1	1
Barnala	0	0
Bathinda	0	1
Faridkot	0	0
Fatehgarh Sahib	0	1
Fazilka	0	0
Firozpur	1	0
Gurdaspur	1	5
Hoshiarpur	5	1
Jalandhar	2	2
Kapurthala	0	1
Ludhiana	0	1
Mansa	0	0
Moga	0	0
Muktsar	0	0
Pathankot	1	0
Patiala	1	0
Rupnagar	1	0
Sangrur	0	1
SAS NAGAR (Mohali)	0	0
SBS Nagar	2	2
Tarn Taran	0	0
Total	15	16

(b) Haryana

District	01-08 Apr	
	2022	2023
AMBALA	0	1
BHIWANI	0	0
CHARKHI DADRI	1	0
FARIDABAD	1	1
FATEHABAD	1	0
GURGAON	0	0
HISAR	0	1
JHAJJAR	0	0
JIND	4	0
KAITHAL	2	0
KARNAL	0	0
KURUKSHETRA	1	0
MAHENDRAGARH	0	0
MEWAT	0	0
PALWAL	1	1
PANCHKULA	0	0
PANIPAT	0	0
REWARI	1	0
ROHTAK	0	0
SIRSA	0	0
SONIPAT	2	2
YAMUNANAGAR	0	0
Total	14	6

(c) Uttar Pradesh

District	01-08 Apr							
	2022	2023						
			GAUTAMBUDHNAGAR	0	0	MUZAFARNAGAR	6	7
			GAZIPUR	2	1	PILHIBHIT	6	5
AGRA	0	0	GHAZIABAD	4	0	PRATAPGARH	3	8
ALIGARH	1	0	GONDA	1	1	RAIBEARELI	5	0
ALLAHABAD	1	0	GORAKHPUR	7	3	RAMPUR	3	0
AMBEDKARNAGAR	0	1	HAMIRPUR	1	0	SANTKABIRNAGAR	2	1
AURAIYA	27	1	HARDOI	3	1	SANTRAVIDASNAGAR	0	0
AZAMGARH	2	0	JALAUN	2	0	SHAHJAHANPUR	6	0
BADAUN	3	1	JAUNPUR	0	0	SHARANPUR	2	0
BAGHPAT	1	1	JHANSI	7	0	SHRAWASTI	0	2
BAHRAICH	2	5	JYOTIBAPHULE NAGAR	1	0	SIDDHARTHANAGAR	3	13
BALLIA	3	6	KANNAUJ	0	0	SITAPUR	4	4
BALRAMPUR	0	2	KANPUR	0	0	SONBHADRA	20	0
BANDA	1	0	KANPUR DEHAT	7	0	SULTANPUR	2	6
BARABANKI	3	0	KAUSHAMBI	2	0	UNNAO	2	0
BAREILLY	4	0	KHERI	15	10	VARANASI	0	0
BASTI	0	8	KUSHINAGAR	1	2	Total	202	252
BIJNOR	6	6	LACKNOW	0	0			
BULANDSAHAR	1	0	LALITPUR	6	1			
CHANDAULI	5	0	MAHAMAYANAGAR	0	0			
CHITRAKOOT	4	0	MAHARAJGANJ	1	134			
DEORIA	0	2	MAHOBA	0	1			
ETAH	0	0	MAINPURI	0	2			
ETAWAH	0	0	MATHURA	0	3			
FAIZABAD	0	4	MAU	0	4			
FARRUKHABAD	0	0	MEERUT	0	0			
FATEHPUR	9	2	MIRZAPUR	3	0			
FIROZABAD	1	0	MORADABAD	1	4			

(d) Madhya Pradesh

District	01-08 Apr				
	2022	2023	PANNA	14	0
ALIRAJPUR	0	0	RAISEN	215	152
ANUPPUR	9	0	RAJGARH	14	13
ASHOKNAGAR	16	6	RATLAM	19	56
BALAGHAT	6	0	REWA	8	2
BARWANI	2	4	SAGAR	86	35
BETUL	28	6	SATNA	12	2
BHIND	0	0	SEHORE	378	258
BHOPAL	38	11	SEONI	20	8
BURHANPUR	6	1	SHAHDOL	23	0
CHHATARPUR	13	2	SHAJAPUR	26	60
CHHINDWARA	20	21	SHEOPUR	2	3
DAMOH	47	35	SHIVPURI	2	2
DATIA	1	0	SIDHI	4	0
DEWAS	106	225	SINGRAULI	16	0
DHAR	183	473	TIKAMGARH	5	7
DINDORI	22	0	UJJAIN	55	196
EAST NIMAR	30	50	UMARIA	12	1
GUNA	58	18	VIDESHA	392	52
GWALIOR	1	0	WEST NIMAR	1	14
HARDA	208	165	Total	5391	4302
HOSHANGABAD	2800	2038			
INDORE	74	168			
JABALPUR	287	136			
JHABUA	0	2			
KATNI	31	13			
MANDLA	18	3			
MANDSAUR	0	6			
MORENA	2	0			
NARSHIMAPURA	80	56			
NIMACH	1	2			

(e) Delhi

District	01-08 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: 01-08 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
Total	15	16	14	6	202	252	0	1	5391	4302

Details of residue burning events in Punjab on 08-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BATHINDA	TALWANDI SABO	S-NPP	29.90900	74.94890	01:50:05	N	1.40
2	GURDASPUR	KAHNUWAN	AQUA	31.89400	75.54900	13:38:58	D	10.70
3	HOSHIARPUR	GARH SHANKAR	S-NPP	31.19038	76.09933	12:59:22	D	2.40
4	JALANDHAR	RURKA KALAN	S-NPP	31.08810	75.76834	12:59:22	D	3.60

Details of residue burning events in Haryana on 08-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMBALA	AMBALA-II	S-NPP	30.22306	76.67339	01:50:05	N	0.80
2	PALWAL	HATHIN	S-NPP	28.10471	77.28166	12:59:22	D	7.90
3	SONIPAT	RAI	S-NPP	28.84217	77.14930	01:50:05	N	0.50

Details of residue burning events in Delhi on 08-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	WEST DELHI	PUNJABI BAGH	AQUA	28.66800	76.97300	02:46:22	N	51.20

Details of residue burning events in Uttar Pradesh on 08-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	BASTI	RUDHAULI	AQUA	27.01600	82.74000	13:38:58	D	10.20
2	BASTI	RUDHAULI	AQUA	27.01800	82.75200	13:38:58	D	19.70
3	BIJNOR	BIJNOR	S-NPP	29.54127	78.01743	12:59:22	D	6.30
4	KHERI	GOLA	S-NPP	28.14162	80.61924	12:59:22	D	2.40
5	KHERI	NIGHASAN	S-NPP	28.20598	80.92896	12:59:22	D	6.20
6	MAHARAJGANJ	NAUTANWA	S-NPP	27.19311	83.38621	01:50:05	N	1.10
7	MAHARAJGANJ	NAUTANWA	S-NPP	27.19377	83.38227	01:50:05	N	2.50
8	MAHARAJGANJ	NAUTANWA	S-NPP	27.19508	83.37440	01:50:05	N	0.80
9	MAHARAJGANJ	NAUTANWA	S-NPP	27.19710	83.38297	01:50:05	N	0.80
10	MAHARAJGANJ	NAUTANWA	S-NPP	27.19906	83.37117	01:50:05	N	0.50
11	MAHARAJGANJ	NAUTANWA	S-NPP	27.20108	83.37971	01:50:05	N	0.80
12	MAHARAJGANJ	NAUTANWA	S-NPP	27.20239	83.37186	01:50:05	N	0.50
13	MAHARAJGANJ	NAUTANWA	S-NPP	27.20305	83.36792	01:50:05	N	0.70
14	MAHARAJGANJ	NAUTANWA	S-NPP	27.20572	83.37254	01:50:05	N	0.90
15	MAHARAJGANJ	NAUTANWA	S-NPP	27.20638	83.36861	01:50:05	N	2.00
16	MAHARAJGANJ	NAUTANWA	S-NPP	27.20905	83.37324	01:50:05	N	0.90
17	MAHARAJGANJ	NAUTANWA	S-NPP	27.20948	83.38754	12:59:22	D	15.70
18	MAHARAJGANJ	NAUTANWA	S-NPP	27.21090	83.32078	01:50:05	N	0.70
19	MAHARAJGANJ	NAUTANWA	S-NPP	27.21107	83.38180	01:50:05	N	0.30
20	MAHARAJGANJ	NAUTANWA	S-NPP	27.21172	83.37786	01:50:05	N	0.90
21	MAHARAJGANJ	NAUTANWA	S-NPP	27.21303	83.37000	01:50:05	N	0.20
22	MAHARAJGANJ	NAUTANWA	S-NPP	27.22034	83.36745	01:50:05	N	0.40
23	MAHARAJGANJ	NAUTANWA	S-NPP	27.22301	83.37207	01:50:05	N	0.40
24	MAHARAJGANJ	NAUTANWA	S-NPP	27.22361	83.34779	01:50:05	N	1.10
25	MAHARAJGANJ	NAUTANWA	S-NPP	27.22569	83.37669	01:50:05	N	0.90
26	MAHARAJGANJ	NAUTANWA	S-NPP	27.22634	83.37276	01:50:05	N	0.60
27	MAHARAJGANJ	NAUTANWA	S-NPP	27.22694	83.34849	01:50:05	N	1.10
28	MAHARAJGANJ	NAUTANWA	S-NPP	27.22902	83.37738	01:50:05	N	0.90

29	MAHARAJGANJ	NAUTANWA	S-NPP	27.23483	83.32169	01:50:05	N	1.00
30	MAHARAJGANJ	NAUTANWA	S-NPP	27.23750	83.32629	01:50:05	N	1.00
31	MAHARAJGANJ	NAUTANWA	S-NPP	27.23993	83.32074	12:59:22	D	7.90
32	MAHARAJGANJ	NAUTANWA	S-NPP	27.24263	83.31615	12:59:22	D	7.90
33	MAHARAJGANJ	NAUTANWA	S-NPP	27.24326	83.32008	12:59:22	D	7.90
34	MAHARAJGANJ	NAUTANWA	S-NPP	27.25087	83.34939	01:50:05	N	0.80
35	MAHARAJGANJ	NAUTANWA	S-NPP	27.25152	83.34546	01:50:05	N	0.50
36	MAHARAJGANJ	NAUTANWA	S-NPP	27.25187	83.39523	12:59:22	D	26.50
37	MAHARAJGANJ	NAUTANWA	S-NPP	27.25519	83.39456	12:59:22	D	26.50
38	MAHARAJGANJ	NAUTANWA	S-NPP	27.25636	83.39936	01:50:05	N	0.30
39	MAHARAJGANJ	NAUTANWA	S-NPP	27.25701	83.39542	01:50:05	N	0.90
40	MAHARAJGANJ	NAUTANWA	S-NPP	27.25745	83.33043	01:50:05	N	0.30
41	MAHARAJGANJ	NAUTANWA	S-NPP	27.25766	83.39149	01:50:05	N	0.90
42	MAHARAJGANJ	NAUTANWA	S-NPP	27.25969	83.40005	01:50:05	N	0.30
43	MAHARAJGANJ	NAUTANWA	S-NPP	27.26309	83.40107	12:59:22	D	10.80
44	MAHARAJGANJ	NAUTANWA	S-NPP	27.26353	83.35608	01:50:05	N	0.40
45	MAHARAJGANJ	NAUTANWA	S-NPP	27.26685	83.35677	01:50:05	N	0.40
46	MAHARAJGANJ	NAUTANWA	S-NPP	27.26931	83.37556	12:59:22	D	6.00
47	MAHARAJGANJ	NAUTANWA	S-NPP	27.27763	83.39564	01:50:05	N	0.70
48	MAHARAJGANJ	NAUTANWA	S-NPP	27.28405	83.36047	12:59:22	D	5.40
49	MAHARAJGANJ	NAUTANWA	S-NPP	27.28750	83.46992	01:50:05	N	0.90
50	MAHARAJGANJ	NAUTANWA	S-NPP	27.29279	83.41532	12:59:22	D	5.30
51	MAHARAJGANJ	NAUTANWA	S-NPP	27.30982	83.37149	12:59:22	D	8.70
52	MAHARAJGANJ	NAUTANWA	AQUA	27.28900	83.41500	13:38:58	D	36.40
53	MAHARAJGANJ	NAUTANWA	AQUA	27.43800	83.45500	13:38:58	D	32.60
54	MAHARAJGANJ	NAUTANWA	AQUA	27.44000	83.46900	13:38:58	D	36.40
55	MAHARAJGANJ	PHARENDA	S-NPP	27.15287	83.37031	12:59:22	D	19.70
56	MAHARAJGANJ	PHARENDA	S-NPP	27.15891	83.37193	01:50:05	N	0.50
57	MAHARAJGANJ	PHARENDA	S-NPP	27.16224	83.37262	01:50:05	N	0.50
58	MAHARAJGANJ	PHARENDA	S-NPP	27.16890	83.37401	01:50:05	N	0.90
59	MAHARAJGANJ	PHARENDA	S-NPP	27.16897	83.39437	01:50:05	N	0.60
60	MAHARAJGANJ	PHARENDA	S-NPP	27.16962	83.39043	01:50:05	N	0.60
61	MAHARAJGANJ	PHARENDA	S-NPP	27.19574	83.37047	01:50:05	N	0.80
62	MAHARAJGANJ	PHARENDA	S-NPP	27.20092	83.31871	01:50:05	N	0.90

63	MAHARAJGANJ	PHARENDA	S-NPP	27.20425	83.31940	01:50:05	N	0.90
64	MAHARAJGANJ	PHARENDA	S-NPP	27.20692	83.32402	01:50:05	N	0.90
65	MAHARAJGANJ	PHARENDA	S-NPP	27.21357	83.32539	01:50:05	N	0.70
66	MAHARAJGANJ	PHARENDA	S-NPP	27.21690	83.32608	01:50:05	N	0.70
67	MAHARAJGANJ	PHARENDA	S-NPP	27.27148	83.34959	01:50:05	N	0.60
68	MAHARAJGANJ	PHARENDA	S-NPP	27.27481	83.35030	01:50:05	N	0.60
69	MAHARAJGANJ	PHARENDA	S-NPP	27.27610	83.34243	01:50:05	N	0.60
70	MAHARAJGANJ	PHARENDA	S-NPP	27.27675	83.33850	01:50:05	N	0.60
71	MAHARAJGANJ	PHARENDA	S-NPP	27.27943	83.34312	01:50:05	N	0.70
72	MAHARAJGANJ	PHARENDA	S-NPP	27.28664	83.32025	01:50:05	N	0.50
73	MAHARAJGANJ	PHARENDA	S-NPP	27.29143	83.35375	01:50:05	N	0.60
74	MAHARAJGANJ	PHARENDA	S-NPP	27.29379	83.31398	12:59:22	D	9.20
75	MAHARAJGANJ	PHARENDA	S-NPP	27.29485	83.34212	12:59:22	D	3.40
76	MAHARAJGANJ	PHARENDA	S-NPP	27.29514	83.28954	01:50:05	N	0.40
77	MAHARAJGANJ	PHARENDA	S-NPP	27.29670	83.34264	01:50:05	N	0.40
78	MAHARAJGANJ	PHARENDA	S-NPP	27.29921	83.33799	01:50:05	N	0.30
79	MAHARAJGANJ	PHARENDA	S-NPP	27.30443	83.30660	01:50:05	N	1.30
80	MAHARAJGANJ	PHARENDA	S-NPP	27.30508	83.30268	01:50:05	N	1.30
81	MAHARAJGANJ	PHARENDA	S-NPP	27.30710	83.31121	01:50:05	N	1.40
82	MAHARAJGANJ	PHARENDA	S-NPP	27.30775	83.30729	01:50:05	N	1.30
83	MAHARAJGANJ	PHARENDA	AQUA	27.16300	83.36500	13:38:58	D	12.20
84	MAHARAJGANJ	PHARENDA	AQUA	27.28100	83.34800	13:38:58	D	26.90
85	MAHARAJGANJ	PHARENDA	AQUA	27.32100	83.32900	13:38:58	D	14.80
86	MAHARAJGANJ	PHARENDA	AQUA	27.32200	83.34200	13:38:58	D	56.20
87	MAHOBA	KULPAHAR	S-NPP	25.34517	79.39824	12:59:22	D	2.00
88	MATHURA	CHHATA	S-NPP	27.76147	77.47816	12:59:22	D	4.00
89	MATHURA	CHHATA	S-NPP	27.76363	77.47856	12:59:22	D	4.20
90	MATHURA	CHHATA	S-NPP	27.76571	77.47707	12:59:22	D	4.00
91	MORADABAD	MORADABAD	S-NPP	28.89506	78.85668	01:50:05	N	0.40
92	MORADABAD	MORADABAD	S-NPP	28.91773	78.79819	12:59:22	D	8.00
93	MUZAFARNAGAR	SHAMLI	S-NPP	29.63715	77.42960	12:59:22	D	2.80
94	PILHIBHIT	PURANPUR	S-NPP	28.52676	80.39751	12:59:22	D	1.30
95	SHRAWASTI	BHINGA	S-NPP	27.87993	81.78664	12:59:22	D	5.00
96	SIDDHARTHANAGAR	ITWA	AQUA	27.28300	82.75500	13:38:58	D	13.00

97	SIDDHARTHANAGAR	ITWA	AQUA	27.33900	82.72100	13:38:58	D	12.10
98	SIDDHARTHANAGAR	ITWA	AQUA	27.34100	82.73300	13:38:58	D	10.80
99	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.33255	83.10320	01:50:05	N	0.70
100	SIDDHARTHANAGAR	NAUGARH	S-NPP	27.33650	83.09998	01:50:05	N	0.70

Details of wheat residue burning events in Madhya Pradesh on 08-Apr-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BARWANI	PANSEMAL	S-NPP	21.73058	74.56973	14:39:39	D	6.40
2	BARWANI	PANSEMAL	S-NPP	21.73271	74.57095	14:39:39	D	4.00
3	CHHINDWARA	CHAURAI	S-NPP	22.12425	79.25300	12:59:22	D	4.10
4	CHHINDWARA	CHAURAI	S-NPP	22.12578	79.25168	12:59:22	D	9.00
5	CHHINDWARA	CHAURAI	S-NPP	22.12851	79.25207	12:59:22	D	4.10
6	DAMOH	DAMOH	AQUA	23.94300	79.42800	13:38:58	D	13.40
7	DAMOH	HATTA	S-NPP	24.13301	79.75010	12:59:22	D	4.40
8	DAMOH	PATERA	S-NPP	23.85623	79.70444	12:59:22	D	9.20
9	DAMOH	PATERA	S-NPP	24.02340	79.50658	12:59:22	D	3.70
10	DAMOH	PATERA	S-NPP	24.02429	79.50638	12:59:22	D	4.30
11	DAMOH	PATHARIA	S-NPP	23.87037	79.33751	12:59:22	D	5.30
12	DEWAS	BAGLI	S-NPP	22.74992	76.44755	12:59:22	D	1.80
13	DEWAS	BAGLI	S-NPP	22.75191	76.44910	12:59:22	D	1.80
14	DEWAS	DEWAS	S-NPP	22.69073	76.15233	12:59:22	D	2.80
15	DEWAS	DEWAS	S-NPP	22.78906	76.18644	12:59:22	D	3.10
16	DEWAS	DEWAS	S-NPP	22.79176	76.18603	12:59:22	D	2.90
17	DEWAS	DEWAS	S-NPP	22.89669	76.14348	12:59:22	D	3.00
18	DEWAS	DEWAS	S-NPP	22.89697	76.02267	12:59:22	D	1.70
19	DEWAS	DEWAS	S-NPP	22.94501	76.00422	01:50:05	N	3.00
20	DEWAS	DEWAS	S-NPP	22.98230	75.99408	12:59:22	D	0.80
21	DEWAS	DEWAS	S-NPP	22.98382	75.99233	12:59:22	D	2.40
22	DEWAS	DEWAS	S-NPP	23.01785	76.09836	12:59:22	D	6.60
23	DEWAS	DEWAS	S-NPP	23.01857	76.10162	12:59:22	D	6.60
24	DEWAS	DEWAS	S-NPP	23.02292	76.09708	12:59:22	D	16.50

25	DEWAS	DEWAS	S-NPP	23.02363	76.10033	12:59:22	D	16.50
26	DEWAS	DEWAS	S-NPP	23.17033	75.98268	01:50:05	N	0.50
27	DEWAS	DEWAS	S-NPP	23.18211	75.99749	01:50:05	N	0.90
28	DEWAS	DEWAS	S-NPP	23.18914	75.98122	12:59:22	D	4.20
29	DEWAS	DEWAS	AQUA	22.98500	75.99300	13:38:58	D	22.90
30	DEWAS	DEWAS	AQUA	23.01400	75.97200	13:38:58	D	32.40
31	DEWAS	DEWAS	AQUA	23.01500	76.10500	13:38:58	D	26.40
32	DEWAS	KANNOD	S-NPP	22.61448	76.63673	12:59:22	D	5.10
33	DEWAS	SONKACH	S-NPP	23.13093	76.44997	12:59:22	D	4.40
34	DEWAS	TONK KHURD	S-NPP	23.08005	76.18851	12:59:22	D	3.50
35	DEWAS	TONK KHURD	S-NPP	23.10688	76.10498	12:59:22	D	3.90
36	DEWAS	TONK KHURD	S-NPP	23.10831	76.11145	12:59:22	D	3.70
37	DEWAS	TONK KHURD	S-NPP	23.11024	76.10596	12:59:22	D	3.70
38	DEWAS	TONK KHURD	S-NPP	23.11093	76.10921	12:59:22	D	7.00
39	DEWAS	TONK KHURD	S-NPP	23.11265	76.10694	12:59:22	D	7.70
40	DEWAS	TONK KHURD	S-NPP	23.11529	76.10468	12:59:22	D	3.70
41	DEWAS	TONK KHURD	S-NPP	23.11598	76.10791	12:59:22	D	7.00
42	DEWAS	TONK KHURD	S-NPP	23.11770	76.10565	12:59:22	D	7.70
43	DEWAS	TONK KHURD	S-NPP	23.13465	76.18289	12:59:22	D	2.10
44	DEWAS	TONK KHURD	S-NPP	23.18389	76.21443	12:59:22	D	2.00
45	DEWAS	TONK KHURD	S-NPP	23.19224	76.15488	12:59:22	D	1.60
46	DEWAS	TONK KHURD	S-NPP	23.19501	76.16774	12:59:22	D	2.40
47	DEWAS	TONK KHURD	S-NPP	23.19570	76.17096	12:59:22	D	2.40
48	DEWAS	TONK KHURD	S-NPP	23.20004	76.16650	12:59:22	D	7.90
49	DEWAS	TONK KHURD	S-NPP	23.22428	76.14041	12:59:22	D	5.80
50	DHAR	BADNAWAR	S-NPP	22.80780	75.23794	12:59:22	D	3.90
51	DHAR	BADNAWAR	S-NPP	22.80948	75.23684	12:59:22	D	4.40
52	DHAR	BADNAWAR	S-NPP	22.87829	75.26608	12:59:22	D	3.10
53	DHAR	BADNAWAR	S-NPP	22.88391	75.26392	01:50:05	N	0.50
54	DHAR	BADNAWAR	S-NPP	22.88445	75.26840	12:59:22	D	2.10
55	DHAR	BADNAWAR	S-NPP	22.88826	75.20895	12:59:22	D	6.50
56	DHAR	BADNAWAR	S-NPP	22.88852	75.28678	12:59:22	D	9.40
57	DHAR	BADNAWAR	S-NPP	22.92639	75.25379	12:59:22	D	5.70

58	DHAR	BADNAWAR	S-NPP	22.92763	75.25263	12:59:22	D	3.70
59	DHAR	BADNAWAR	S-NPP	23.02931	75.26254	01:50:05	N	0.50
60	DHAR	BADNAWAR	S-NPP	23.03298	75.26719	01:50:05	N	0.50
61	DHAR	BADNAWAR	S-NPP	23.03313	75.23458	12:59:22	D	2.70
62	DHAR	BADNAWAR	S-NPP	23.03602	75.23237	12:59:22	D	8.80
63	DHAR	BADNAWAR	S-NPP	23.03684	75.23611	12:59:22	D	16.40
64	DHAR	BADNAWAR	S-NPP	23.03846	75.23322	12:59:22	D	10.40
65	DHAR	BADNAWAR	S-NPP	23.03930	75.23694	12:59:22	D	11.70
66	DHAR	BADNAWAR	S-NPP	23.06382	75.19524	12:59:22	D	5.00
67	DHAR	DHAR	S-NPP	22.54329	75.53732	12:59:22	D	2.40
68	DHAR	DHAR	S-NPP	22.55847	75.36842	01:50:05	N	0.70
69	DHAR	DHAR	S-NPP	22.56181	75.47671	01:50:05	N	0.70
70	DHAR	DHAR	S-NPP	22.57022	75.50759	12:59:22	D	5.70
71	DHAR	DHAR	S-NPP	22.57553	75.50626	12:59:22	D	9.80
72	DHAR	DHAR	S-NPP	22.57589	75.36288	01:50:05	N	1.90
73	DHAR	DHAR	S-NPP	22.57632	75.50984	12:59:22	D	8.30
74	DHAR	DHAR	S-NPP	22.59249	75.53233	12:59:22	D	6.60
75	DHAR	DHAR	S-NPP	22.59612	75.40194	01:50:05	N	0.90
76	DHAR	DHAR	S-NPP	22.59852	75.40453	01:50:05	N	1.00
77	DHAR	DHAR	S-NPP	22.59899	75.40057	01:50:05	N	1.00
78	DHAR	DHAR	S-NPP	22.60023	75.40253	01:50:05	N	0.80
79	DHAR	DHAR	S-NPP	22.62284	75.47984	01:50:05	N	1.40
80	DHAR	DHAR	S-NPP	22.63106	75.37698	01:50:05	N	0.90
81	DHAR	DHAR	S-NPP	22.63248	75.36510	01:50:05	N	0.90
82	DHAR	DHAR	S-NPP	22.64814	75.16257	01:50:05	N	0.90
83	DHAR	DHAR	S-NPP	22.64862	75.15849	01:50:05	N	0.90
84	DHAR	DHAR	S-NPP	22.67275	75.42534	12:59:22	D	30.10
85	DHAR	DHAR	S-NPP	22.67783	75.34671	12:59:22	D	11.60
86	DHAR	DHAR	S-NPP	22.68061	75.38472	12:59:22	D	3.60
87	DHAR	DHAR	S-NPP	22.68288	75.44566	12:59:22	D	5.50
88	DHAR	DHAR	S-NPP	22.68368	75.44926	12:59:22	D	5.50
89	DHAR	DHAR	S-NPP	22.68593	75.38335	12:59:22	D	3.60
90	DHAR	DHAR	S-NPP	22.68943	75.34491	01:50:05	N	1.60

91	DHAR	DHAR	S-NPP	22.69163	75.17771	12:59:22	D	4.90
92	DHAR	DHAR	S-NPP	22.69184	75.17663	12:59:22	D	4.10
93	DHAR	DHAR	S-NPP	22.69355	75.34550	01:50:05	N	1.60
94	DHAR	DHAR	S-NPP	22.69702	75.17632	12:59:22	D	4.90
95	DHAR	DHAR	S-NPP	22.70131	75.32524	12:59:22	D	7.00
96	DHAR	DHAR	S-NPP	22.70211	75.32890	12:59:22	D	7.00
97	DHAR	DHAR	S-NPP	22.70230	75.34266	01:50:05	N	1.40
98	DHAR	DHAR	S-NPP	22.70746	75.32755	12:59:22	D	7.00
99	DHAR	DHAR	S-NPP	22.73120	75.30074	12:59:22	D	4.30
100	DHAR	DHAR	S-NPP	22.76263	75.46589	12:59:22	D	9.90
101	DHAR	DHAR	S-NPP	22.76343	75.46947	12:59:22	D	16.70
102	DHAR	DHAR	S-NPP	22.76792	75.46455	12:59:22	D	9.90
103	DHAR	DHAR	S-NPP	22.76872	75.46812	12:59:22	D	16.70
104	DHAR	DHAR	S-NPP	22.78718	75.42536	12:59:22	D	10.20
105	DHAR	DHAR	S-NPP	22.78799	75.42899	12:59:22	D	10.20
106	DHAR	DHAR	AQUA	22.54400	75.59700	13:38:58	D	38.20
107	DHAR	DHAR	AQUA	22.67800	75.37700	13:38:58	D	52.40
108	DHAR	GANDHWANI	S-NPP	22.53311	74.93171	12:59:22	D	10.00
109	DHAR	SARDARPUR	S-NPP	22.66894	74.87891	14:39:39	D	24.10
110	EAST NIMAR	KHANDWA	S-NPP	22.20125	76.32887	12:59:22	D	1.60
111	GUNA	GUNA	S-NPP	25.02665	77.11032	12:59:22	D	11.20
112	HARDA	TIMURNI	S-NPP	22.27026	77.27359	12:59:22	D	2.80
113	HOSHANGABAD	BABAI	S-NPP	22.78083	77.81246	12:59:22	D	11.80
114	HOSHANGABAD	BABAI	S-NPP	22.80973	77.95522	12:59:22	D	9.40
115	HOSHANGABAD	BABAI	S-NPP	22.81075	77.96027	12:59:22	D	7.80
116	HOSHANGABAD	BABAI	S-NPP	22.81529	77.95918	12:59:22	D	7.80
117	HOSHANGABAD	BABAI	AQUA	22.72500	78.06300	13:38:58	D	18.50
118	HOSHANGABAD	BABAI	AQUA	22.74400	78.03000	13:38:58	D	29.90
119	HOSHANGABAD	BABAI	AQUA	22.74500	78.09900	13:38:58	D	11.70
120	HOSHANGABAD	BABAI	AQUA	22.74600	78.04200	13:38:58	D	31.00
121	HOSHANGABAD	BABAI	AQUA	22.74800	78.05300	13:38:58	D	25.30
122	HOSHANGABAD	BABAI	AQUA	22.78200	78.02300	13:38:58	D	21.00
123	HOSHANGABAD	BABAI	AQUA	22.78600	77.98800	13:38:58	D	13.50

124	HOSHANGABAD	BABAI	AQUA	22.78800	77.99900	13:38:58	D	18.30
125	HOSHANGABAD	BABAI	AQUA	22.81100	77.96000	13:38:58	D	19.40
126	HOSHANGABAD	BABAI	AQUA	22.81300	77.97100	13:38:58	D	14.60
127	HOSHANGABAD	BANKHERI	S-NPP	22.86469	78.43671	12:59:22	D	11.80
128	HOSHANGABAD	ITARSI	S-NPP	22.58665	77.77409	12:59:22	D	5.90
129	HOSHANGABAD	ITARSI	S-NPP	22.61432	77.85048	12:59:22	D	9.50
130	HOSHANGABAD	ITARSI	S-NPP	22.61847	77.71707	12:59:22	D	3.30
131	HOSHANGABAD	PIPARIYA	AQUA	22.79800	78.42400	13:38:58	D	20.10
132	HOSHANGABAD	SEONI MALWA	S-NPP	22.56368	77.59786	12:59:22	D	5.70
133	HOSHANGABAD	SEONI MALWA	S-NPP	22.56421	77.59652	12:59:22	D	2.40
134	HOSHANGABAD	SOHAGPUR	S-NPP	22.72865	78.21077	12:59:22	D	3.10
135	HOSHANGABAD	SOHAGPUR	S-NPP	22.73078	78.12794	12:59:22	D	8.40
136	HOSHANGABAD	SOHAGPUR	S-NPP	22.73178	78.13290	12:59:22	D	10.60
137	HOSHANGABAD	SOHAGPUR	S-NPP	22.73628	78.13183	12:59:22	D	9.90
138	HOSHANGABAD	SOHAGPUR	S-NPP	22.74054	78.22323	12:59:22	D	3.80
139	HOSHANGABAD	SOHAGPUR	S-NPP	22.74811	78.19083	12:59:22	D	7.60
140	HOSHANGABAD	SOHAGPUR	S-NPP	22.74966	78.17512	12:59:22	D	10.10
141	HOSHANGABAD	SOHAGPUR	S-NPP	22.76074	78.13634	12:59:22	D	5.70
142	HOSHANGABAD	SOHAGPUR	S-NPP	22.76088	78.13358	12:59:22	D	8.30
143	HOSHANGABAD	SOHAGPUR	S-NPP	22.76117	78.16212	12:59:22	D	5.80
144	HOSHANGABAD	SOHAGPUR	S-NPP	22.76468	78.15614	12:59:22	D	5.80
145	HOSHANGABAD	SOHAGPUR	S-NPP	22.76597	78.15823	12:59:22	D	6.00
146	HOSHANGABAD	SOHAGPUR	S-NPP	22.76664	78.16601	12:59:22	D	19.90
147	HOSHANGABAD	SOHAGPUR	S-NPP	22.76698	78.16315	12:59:22	D	6.00
148	HOSHANGABAD	SOHAGPUR	S-NPP	22.76800	78.16806	12:59:22	D	8.70
149	HOSHANGABAD	SOHAGPUR	S-NPP	22.76974	78.13424	12:59:22	D	6.50
150	HOSHANGABAD	SOHAGPUR	S-NPP	22.77072	78.13920	12:59:22	D	6.50
151	HOSHANGABAD	SOHAGPUR	S-NPP	22.77089	78.13641	12:59:22	D	8.00
152	HOSHANGABAD	SOHAGPUR	AQUA	22.72200	78.16600	13:38:58	D	48.50
153	HOSHANGABAD	SOHAGPUR	AQUA	22.72300	78.17700	13:38:58	D	25.10
154	HOSHANGABAD	SOHAGPUR	AQUA	22.72600	78.13200	13:38:58	D	17.90
155	HOSHANGABAD	SOHAGPUR	AQUA	22.73100	78.16400	13:38:58	D	15.10
156	HOSHANGABAD	SOHAGPUR	AQUA	22.73300	78.17500	13:38:58	D	13.90

157	HOSHANGABAD	SOHAGPUR	AQUA	22.73500	78.13000	13:38:58	D	15.80
158	HOSHANGABAD	SOHAGPUR	AQUA	22.74200	78.17400	13:38:58	D	29.40
159	HOSHANGABAD	SOHAGPUR	AQUA	22.74400	78.18500	13:38:58	D	14.10
160	HOSHANGABAD	SOHAGPUR	AQUA	22.76300	78.30400	13:38:58	D	25.40
161	HOSHANGABAD	SOHAGPUR	AQUA	22.76500	78.16300	13:38:58	D	36.30
162	HOSHANGABAD	SOHAGPUR	AQUA	22.80300	78.21200	13:38:58	D	12.90
163	HOSHANGABAD	SOHAGPUR	AQUA	22.80400	78.22300	13:38:58	D	24.70
164	HOSHANGABAD	SOHAGPUR	AQUA	22.80400	78.27900	13:38:58	D	35.60
165	HOSHANGABAD	SOHAGPUR	AQUA	22.81600	78.29900	13:38:58	D	32.60
166	INDORE	DEPALPUR	S-NPP	22.63953	75.54322	12:59:22	D	7.50
167	INDORE	DEPALPUR	S-NPP	22.71798	75.68127	01:50:05	N	0.80
168	INDORE	DEPALPUR	S-NPP	22.73010	75.68301	01:50:05	N	1.10
169	INDORE	DEPALPUR	S-NPP	22.73415	75.68359	01:50:05	N	1.10
170	INDORE	DEPALPUR	S-NPP	22.73462	75.67977	01:50:05	N	1.10
171	INDORE	DEPALPUR	S-NPP	22.79219	75.59815	12:59:22	D	4.70
172	INDORE	DEPALPUR	S-NPP	22.79665	75.59331	12:59:22	D	3.80
173	INDORE	DEPALPUR	S-NPP	22.79743	75.59682	12:59:22	D	4.70
174	INDORE	DEPALPUR	S-NPP	22.80318	75.62280	01:50:05	N	0.80
175	INDORE	DEPALPUR	S-NPP	22.80449	75.62854	12:59:22	D	6.00
176	INDORE	DEPALPUR	S-NPP	22.80682	75.63899	12:59:22	D	5.90
177	INDORE	DEPALPUR	S-NPP	22.80759	75.64248	12:59:22	D	5.90
178	INDORE	DEPALPUR	S-NPP	22.81740	75.48615	12:59:22	D	5.30
179	INDORE	DEPALPUR	S-NPP	22.81951	75.47039	12:59:22	D	10.50
180	INDORE	DEPALPUR	S-NPP	22.82030	75.47400	12:59:22	D	10.50
181	INDORE	DEPALPUR	S-NPP	22.82479	75.46905	12:59:22	D	10.50
182	INDORE	DEPALPUR	S-NPP	22.82536	75.61026	01:50:05	N	0.70
183	INDORE	DEPALPUR	S-NPP	22.82558	75.47264	12:59:22	D	10.50
184	INDORE	DEPALPUR	S-NPP	22.82637	75.47624	12:59:22	D	26.30
185	INDORE	DEPALPUR	S-NPP	22.82801	75.62247	01:50:05	N	0.70
186	INDORE	DEPALPUR	S-NPP	22.83084	75.59923	01:50:05	N	1.00
187	INDORE	DEPALPUR	S-NPP	22.83396	75.60757	01:50:05	N	1.40
188	INDORE	DEPALPUR	S-NPP	22.83661	75.61978	01:50:05	N	1.20
189	INDORE	DEPALPUR	S-NPP	22.83708	75.61592	01:50:05	N	1.20

190	INDORE	DEPALPUR	S-NPP	22.84765	75.66435	01:50:05	N	1.20
191	INDORE	INDORE	S-NPP	22.66742	75.89787	12:59:22	D	6.30
192	INDORE	INDORE	S-NPP	22.67994	76.05405	12:59:22	D	4.90
193	INDORE	INDORE	S-NPP	22.68972	76.15432	12:59:22	D	3.20
194	INDORE	SANWER	S-NPP	22.86872	75.79151	01:50:05	N	0.50
195	INDORE	SANWER	S-NPP	22.86920	75.78775	01:50:05	N	0.50
196	INDORE	SANWER	S-NPP	22.87716	75.90772	12:59:22	D	2.00
197	INDORE	SANWER	S-NPP	22.88002	75.84641	12:59:22	D	4.10
198	INDORE	SANWER	S-NPP	22.89607	75.77552	01:50:05	N	0.40
199	INDORE	SANWER	S-NPP	22.89964	75.77989	01:50:05	N	0.70
200	INDORE	SANWER	S-NPP	22.92057	75.80734	12:59:22	D	7.80
201	INDORE	SANWER	S-NPP	22.92059	75.78214	12:59:22	D	3.90
202	INDORE	SANWER	S-NPP	22.92065	75.78096	12:59:22	D	3.90
203	INDORE	SANWER	S-NPP	22.92552	75.72907	12:59:22	D	7.20
204	INDORE	SANWER	S-NPP	22.92578	75.73009	12:59:22	D	11.10
205	INDORE	SANWER	S-NPP	22.92629	75.73255	12:59:22	D	10.20
206	INDORE	SANWER	S-NPP	22.92653	75.73359	12:59:22	D	10.60
207	INDORE	SANWER	S-NPP	22.92706	75.73603	12:59:22	D	10.20
208	INDORE	SANWER	S-NPP	22.92728	75.73707	12:59:22	D	10.60
209	INDORE	SANWER	S-NPP	22.93689	75.84289	01:50:05	N	2.10
210	INDORE	SANWER	S-NPP	22.93736	75.83913	01:50:05	N	2.10
211	INDORE	SANWER	S-NPP	22.94137	75.83971	01:50:05	N	1.50
212	INDORE	SANWER	S-NPP	22.94491	75.84406	01:50:05	N	1.50
213	INDORE	SANWER	S-NPP	22.94880	75.78468	12:59:22	D	11.30
214	INDORE	SANWER	S-NPP	22.94955	75.78809	12:59:22	D	11.30
215	INDORE	SANWER	S-NPP	22.95031	75.79150	12:59:22	D	38.90
216	INDORE	SANWER	S-NPP	22.95106	75.79489	12:59:22	D	38.90
217	INDORE	SANWER	S-NPP	22.95242	75.71787	01:50:05	N	0.50
218	INDORE	SANWER	S-NPP	22.95397	75.78335	12:59:22	D	14.20
219	INDORE	SANWER	S-NPP	22.95472	75.78675	12:59:22	D	14.20
220	INDORE	SANWER	S-NPP	22.95547	75.79015	12:59:22	D	33.60
221	INDORE	SANWER	S-NPP	22.95799	75.87543	12:59:22	D	5.10
222	INDORE	SANWER	S-NPP	22.95874	75.87880	12:59:22	D	5.10

223	INDORE	SANWER	S-NPP	22.96717	75.74403	12:59:22	D	5.30
224	INDORE	SANWER	S-NPP	22.96764	75.72787	01:50:05	N	0.40
225	INDORE	SANWER	S-NPP	22.97236	75.74275	12:59:22	D	5.30
226	INDORE	SANWER	S-NPP	22.98852	75.82619	01:50:05	N	2.90
227	INDORE	SANWER	S-NPP	22.99688	75.82986	12:59:22	D	4.10
228	INDORE	SANWER	S-NPP	22.99763	75.83328	12:59:22	D	4.10
229	INDORE	SANWER	S-NPP	23.00506	75.82475	01:50:05	N	1.00
230	INDORE	SANWER	S-NPP	23.01743	75.85732	01:50:05	N	1.10
231	JABALPUR	JABALPUR	S-NPP	23.30480	80.02513	12:59:22	D	5.10
232	JABALPUR	JABALPUR	S-NPP	23.30550	80.02888	12:59:22	D	5.40
233	JABALPUR	MAJHOULI	S-NPP	23.37599	79.97791	12:59:22	D	2.10
234	JABALPUR	MAJHOULI	S-NPP	23.46439	80.04442	12:59:22	D	12.00
235	JABALPUR	MAJHOULI	S-NPP	23.46737	80.04620	12:59:22	D	12.20
236	JABALPUR	MAJHOULI	S-NPP	23.57737	79.93372	12:59:22	D	2.30
237	KATNI	BAHURIBAND	S-NPP	23.64269	80.03873	12:59:22	D	2.90
238	NARSHIMAPURA	GADARWARA	S-NPP	22.76975	78.66275	12:59:22	D	7.70
239	NARSHIMAPURA	GADARWARA	S-NPP	23.02852	78.71286	12:59:22	D	4.40
240	RAISEN	BAGAMGANJ	S-NPP	23.63945	78.35767	12:59:22	D	5.70
241	RAISEN	BAGAMGANJ	S-NPP	23.72879	78.41651	12:59:22	D	8.60
242	RAISEN	BAGAMGANJ	AQUA	23.60700	78.32100	13:38:58	D	13.90
243	RAISEN	BARELI	S-NPP	22.82738	78.11298	12:59:22	D	12.80
244	RAISEN	BARELI	S-NPP	22.83286	78.11684	12:59:22	D	24.90
245	RAISEN	BARELI	S-NPP	22.86181	78.09673	12:59:22	D	7.70
246	RAISEN	BARELI	S-NPP	22.86282	78.10164	12:59:22	D	7.70
247	RAISEN	BARELI	S-NPP	22.86337	78.10458	12:59:22	D	11.90
248	RAISEN	BARELI	S-NPP	22.86591	78.09367	12:59:22	D	7.50
249	RAISEN	BARELI	S-NPP	22.86631	78.09568	12:59:22	D	7.70
250	RAISEN	BARELI	S-NPP	22.86689	78.09861	12:59:22	D	7.50
251	RAISEN	BARELI	S-NPP	22.86732	78.10060	12:59:22	D	7.70
252	RAISEN	BARELI	S-NPP	22.87589	78.09650	12:59:22	D	4.40
253	RAISEN	BARELI	S-NPP	22.87632	78.09851	12:59:22	D	9.80
254	RAISEN	BARELI	S-NPP	22.88039	78.09544	12:59:22	D	4.40
255	RAISEN	BARELI	S-NPP	22.88330	78.08657	12:59:22	D	17.10

256	RAISEN	BARELI	S-NPP	22.88431	78.09150	12:59:22	D	18.20
257	RAISEN	BARELI	S-NPP	22.88780	78.08553	12:59:22	D	13.70
258	RAISEN	BARELI	S-NPP	22.88881	78.09045	12:59:22	D	8.60
259	RAISEN	BARELI	S-NPP	22.89633	78.10416	12:59:22	D	16.00
260	RAISEN	BARELI	S-NPP	22.91173	78.24822	12:59:22	D	7.10
261	RAISEN	BARELI	S-NPP	22.91432	78.09998	12:59:22	D	3.90
262	RAISEN	BARELI	S-NPP	22.91482	78.07925	12:59:22	D	5.70
263	RAISEN	BARELI	AQUA	22.82600	78.11700	13:38:58	D	17.00
264	RAISEN	BARELI	AQUA	22.83800	78.04100	13:38:58	D	26.70
265	RAISEN	BARELI	AQUA	22.83900	78.05200	13:38:58	D	29.30
266	RAISEN	BARELI	AQUA	22.84100	78.06300	13:38:58	D	24.00
267	RAISEN	BARELI	AQUA	22.85600	78.09400	13:38:58	D	21.50
268	RAISEN	BARELI	AQUA	22.85800	78.10500	13:38:58	D	82.40
269	RAISEN	BARELI	AQUA	22.86500	78.09300	13:38:58	D	23.90
270	RAISEN	BARELI	AQUA	22.86700	78.10400	13:38:58	D	34.20
271	RAISEN	BARELI	AQUA	22.87800	78.11300	13:38:58	D	18.00
272	RAISEN	BARELI	AQUA	22.92900	78.12600	13:38:58	D	33.80
273	RAISEN	BARELI	AQUA	22.93100	78.13700	13:38:58	D	21.50
274	RAISEN	BARELI	AQUA	22.93700	78.14000	13:38:58	D	14.70
275	RAISEN	BARELI	AQUA	22.94700	78.13900	13:38:58	D	13.10
276	RAISEN	BARELI	AQUA	23.00700	78.09300	13:38:58	D	18.80
277	RATLAM	ALOTOT	S-NPP	23.69886	75.57364	01:50:05	N	1.30
278	RATLAM	PIPLODA	S-NPP	23.57294	74.95966	12:59:22	D	8.20
279	RATLAM	PIPLODA	S-NPP	23.61233	74.92483	12:59:22	D	2.90
280	RATLAM	PIPLODA	S-NPP	23.61621	74.92446	12:59:22	D	4.20
281	RATLAM	PIPLODA	S-NPP	23.64459	74.99158	12:59:22	D	7.30
282	RATLAM	RATLAM	S-NPP	23.16221	75.22450	12:59:22	D	5.60
283	RATLAM	RATLAM	S-NPP	23.16304	75.22819	12:59:22	D	6.20
284	RATLAM	RATLAM	S-NPP	23.23095	75.23002	12:59:22	D	3.20
285	RATLAM	RATLAM	S-NPP	23.31053	75.09509	12:59:22	D	7.60
286	RATLAM	RATLAM	S-NPP	23.31135	75.09378	12:59:22	D	13.10
287	RATLAM	RATLAM	S-NPP	23.31135	75.09880	12:59:22	D	7.60
288	RATLAM	RATLAM	S-NPP	23.31219	75.09750	12:59:22	D	13.10

289	RATLAM	RATLAM	S-NPP	23.31588	75.09370	12:59:22	D	12.20
290	RATLAM	RATLAM	S-NPP	23.46077	75.07018	12:59:22	D	1.80
291	RATLAM	RATLAM	AQUA	23.31100	75.09900	13:38:58	D	26.40
292	SEHORE	BUDHNI	S-NPP	22.80662	77.43250	12:59:22	D	7.10
293	SEHORE	BUDHNI	S-NPP	22.89446	77.93247	12:59:22	D	7.30
294	SEHORE	BUDHNI	S-NPP	22.90843	77.86018	12:59:22	D	7.00
295	SEHORE	BUDHNI	S-NPP	22.90945	77.86526	12:59:22	D	6.80
296	SEHORE	BUDHNI	AQUA	22.88800	77.92800	13:38:58	D	22.10
297	SEHORE	BUDHNI	AQUA	22.90100	77.86100	13:38:58	D	8.70
298	SEHORE	NASRULLAHGANJ	S-NPP	22.69047	77.04315	12:59:22	D	5.10
299	SEHORE	NASRULLAHGANJ	S-NPP	22.78819	77.39101	12:59:22	D	8.40
300	SHAJAPUR	AGAR	S-NPP	23.62318	75.89619	12:59:22	D	3.10
301	SHAJAPUR	AGAR	S-NPP	23.63857	76.05422	12:59:22	D	1.70
302	SHAJAPUR	BAROUD	S-NPP	23.72695	75.88960	01:50:05	N	0.30
303	SHAJAPUR	KALA PIPAL	S-NPP	23.26231	76.90221	12:59:22	D	5.00
304	SHAJAPUR	KALA PIPAL	AQUA	23.41500	76.93800	13:38:58	D	16.20
305	SHAJAPUR	NALKHERA	S-NPP	23.70658	76.32383	12:59:22	D	4.90
306	SHAJAPUR	NALKHERA	S-NPP	23.70669	76.32570	12:59:22	D	7.10
307	SHAJAPUR	SUJALPUR	S-NPP	23.45181	76.61835	12:59:22	D	7.20
308	SHIVPURI	KOLARAS	S-NPP	25.12393	77.55859	12:59:22	D	5.60
309	UJJAIN	BARNAGAR	S-NPP	23.01941	75.31052	12:59:22	D	3.90
310	UJJAIN	BARNAGAR	S-NPP	23.16154	75.55559	01:50:05	N	3.90
311	UJJAIN	BARNAGAR	S-NPP	23.16563	75.55620	01:50:05	N	1.90
312	UJJAIN	GHATIYA	S-NPP	23.21604	75.70912	12:59:22	D	6.80
313	UJJAIN	GHATIYA	S-NPP	23.34965	75.79897	12:59:22	D	3.40
314	UJJAIN	GHATIYA	S-NPP	23.35760	75.80805	01:50:05	N	1.40
315	UJJAIN	MEHIDPUR	S-NPP	23.55556	75.79292	12:59:22	D	3.90
316	UJJAIN	MEHIDPUR	S-NPP	23.55628	75.79626	12:59:22	D	4.70
317	UJJAIN	NAGDA	S-NPP	23.29554	75.60030	12:59:22	D	11.20
318	UJJAIN	TARANA	S-NPP	23.07415	76.11172	12:59:22	D	3.10
319	UJJAIN	TARANA	S-NPP	23.28990	76.10016	12:59:22	D	5.10
320	UJJAIN	TARANA	S-NPP	23.48648	76.09835	12:59:22	D	38.00
321	UJJAIN	TARANA	S-NPP	23.48717	76.10155	12:59:22	D	38.00

322	UJJAIN	TARANA	S-NPP	23.50236	75.97498	12:59:22	D	3.40
323	UJJAIN	UJJAIN	S-NPP	23.03427	75.92703	12:59:22	D	1.90
324	UJJAIN	UJJAIN	S-NPP	23.03500	75.93038	12:59:22	D	1.90
325	UJJAIN	UJJAIN	S-NPP	23.04227	75.72176	01:50:05	N	2.40
326	UJJAIN	UJJAIN	S-NPP	23.04558	75.69480	01:50:05	N	0.90
327	UJJAIN	UJJAIN	S-NPP	23.04585	75.72618	01:50:05	N	3.50
328	UJJAIN	UJJAIN	S-NPP	23.04605	75.69094	01:50:05	N	0.90
329	UJJAIN	UJJAIN	S-NPP	23.04632	75.72235	01:50:05	N	3.50
330	UJJAIN	UJJAIN	S-NPP	23.04679	75.71851	01:50:05	N	3.30
331	UJJAIN	UJJAIN	S-NPP	23.04878	75.96919	12:59:22	D	2.40
332	UJJAIN	UJJAIN	S-NPP	23.04916	75.69926	01:50:05	N	1.00
333	UJJAIN	UJJAIN	S-NPP	23.04963	75.69540	01:50:05	N	1.00
334	UJJAIN	UJJAIN	S-NPP	23.05010	75.69154	01:50:05	N	1.00
335	UJJAIN	UJJAIN	S-NPP	23.05058	75.68768	01:50:05	N	0.90
336	UJJAIN	UJJAIN	S-NPP	23.05084	75.71911	01:50:05	N	3.30
337	UJJAIN	UJJAIN	S-NPP	23.05132	75.71526	01:50:05	N	3.30
338	UJJAIN	UJJAIN	S-NPP	23.05151	75.73199	12:59:22	D	3.80
339	UJJAIN	UJJAIN	S-NPP	23.05321	75.69986	01:50:05	N	1.00
340	UJJAIN	UJJAIN	S-NPP	23.05368	75.69601	01:50:05	N	1.00
341	UJJAIN	UJJAIN	S-NPP	23.05395	75.72736	01:50:05	N	2.00
342	UJJAIN	UJJAIN	S-NPP	23.05416	75.69215	01:50:05	N	1.00
343	UJJAIN	UJJAIN	S-NPP	23.05442	75.72353	01:50:05	N	2.00
344	UJJAIN	UJJAIN	S-NPP	23.05489	75.71970	01:50:05	N	1.70
345	UJJAIN	UJJAIN	S-NPP	23.05581	75.70193	12:59:22	D	6.20
346	UJJAIN	UJJAIN	S-NPP	23.05669	75.73071	12:59:22	D	3.80
347	UJJAIN	UJJAIN	S-NPP	23.05726	75.70044	01:50:05	N	1.00
348	UJJAIN	UJJAIN	S-NPP	23.05774	75.69659	01:50:05	N	2.30
349	UJJAIN	UJJAIN	S-NPP	23.05821	75.69273	01:50:05	N	2.30
350	UJJAIN	UJJAIN	S-NPP	23.06132	75.70101	01:50:05	N	1.00
351	UJJAIN	UJJAIN	S-NPP	23.11911	75.73557	01:50:05	N	1.40
352	UJJAIN	UJJAIN	S-NPP	23.12811	75.73119	12:59:22	D	3.10
353	UJJAIN	UJJAIN	S-NPP	23.12840	75.73396	12:59:22	D	5.60
354	UJJAIN	UJJAIN	S-NPP	23.12887	75.73459	12:59:22	D	3.10

355	VIDESHA	BASODA	S-NPP	23.75649	78.19756	12:59:22	D	4.00
356	VIDESHA	BASODA	S-NPP	23.75778	78.19564	12:59:22	D	3.80
357	VIDESHA	BASODA	S-NPP	23.77399	78.23117	12:59:22	D	8.20
358	VIDESHA	BASODA	S-NPP	23.77639	78.22728	12:59:22	D	11.10
359	VIDESHA	GYARASPUR	S-NPP	23.60873	78.04256	12:59:22	D	4.30
360	VIDESHA	GYARASPUR	S-NPP	23.60969	78.04739	12:59:22	D	4.90
361	VIDESHA	GYARASPUR	S-NPP	23.64060	78.15593	12:59:22	D	5.80
362	VIDESHA	GYARASPUR	AQUA	23.64000	78.00900	13:38:58	D	29.70
363	VIDESHA	KORWAI	S-NPP	24.08097	77.95586	12:59:22	D	13.40
364	WEST NIMAR	MAHESHWAR	S-NPP	22.20378	75.94353	12:59:22	D	5.80
365	WEST NIMAR	MAHESHWAR	S-NPP	22.20487	75.94263	12:59:22	D	6.80

The study used data received from following Satellites at NRSC Ground Station

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375 / 750	Both
2.	Terra	MODIS	1000	Both
3.	Aqua	MODIS	1000	Both

**The rice mask for the Punjab and Haryana were provided by MNCFC, MoA&FW, Govt of India
The kharif crop mask for Delhi, Uttar Pradesh, Rajasthan and Madhya Pradesh were provided by NRSC**

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GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>
(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)
