



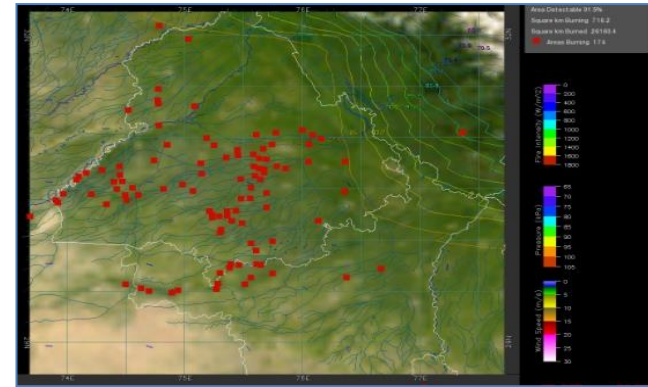
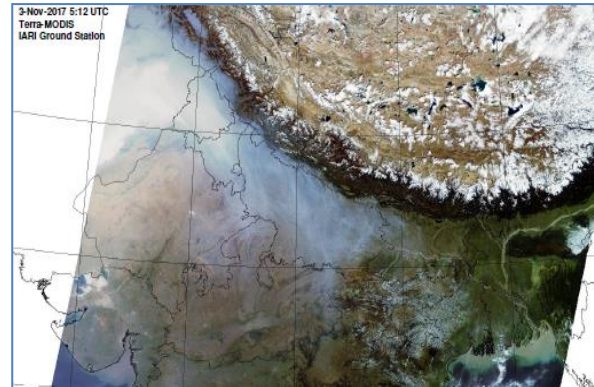
## Bulletin No. 45

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



Prepared by:

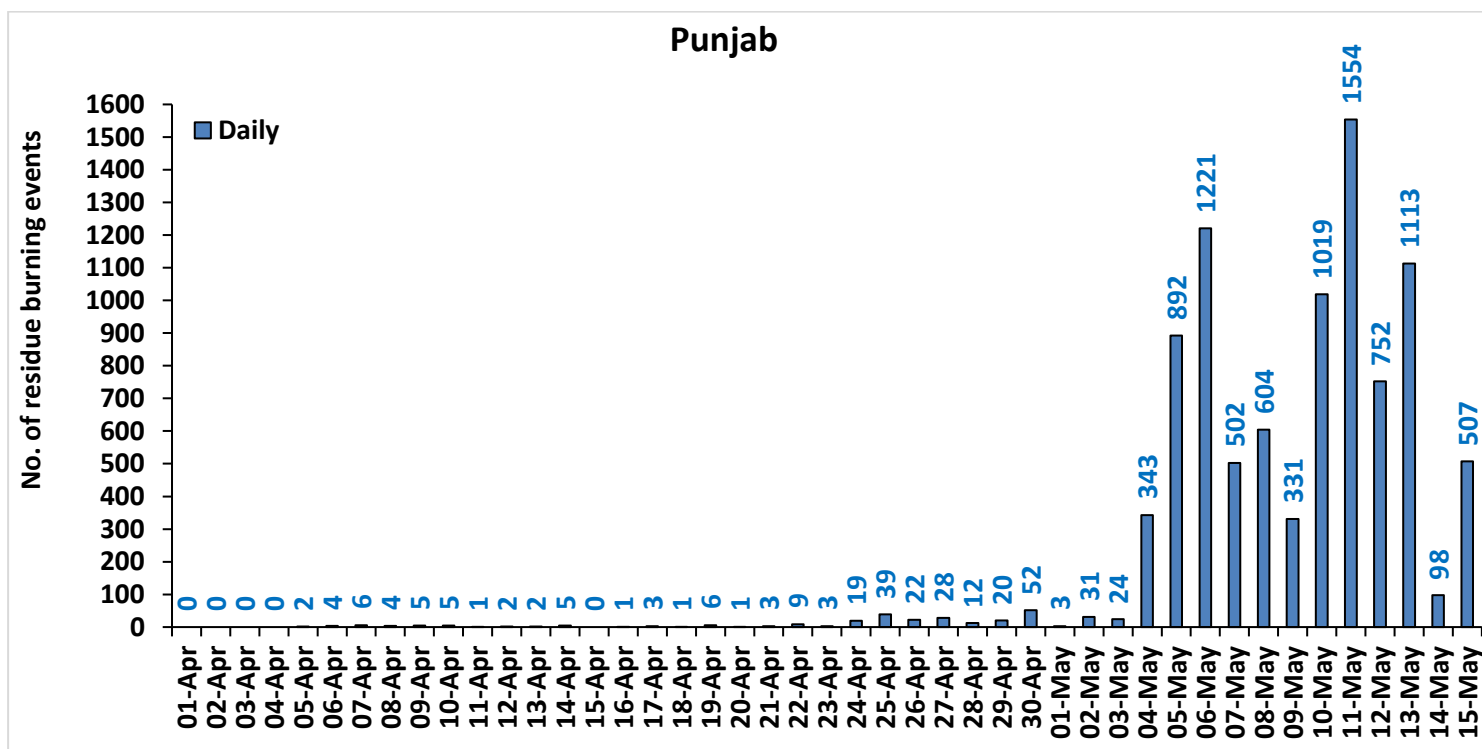
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,  
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

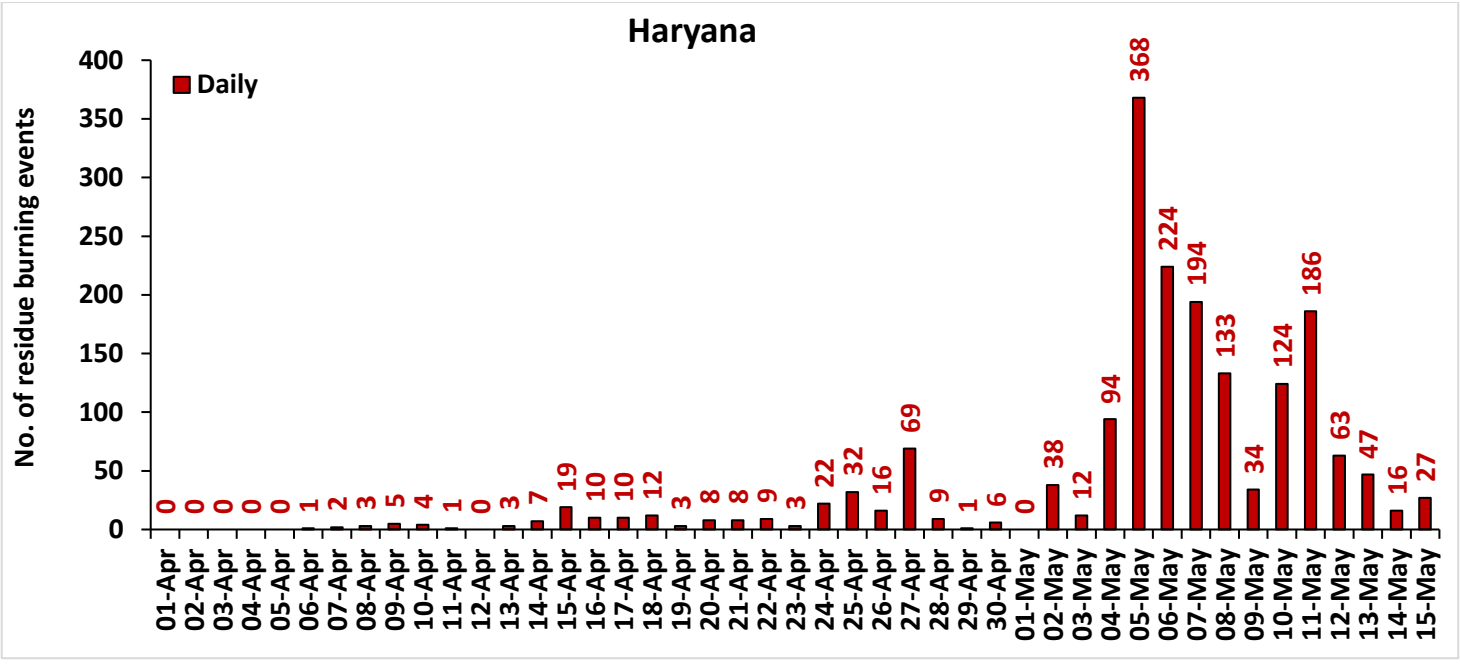
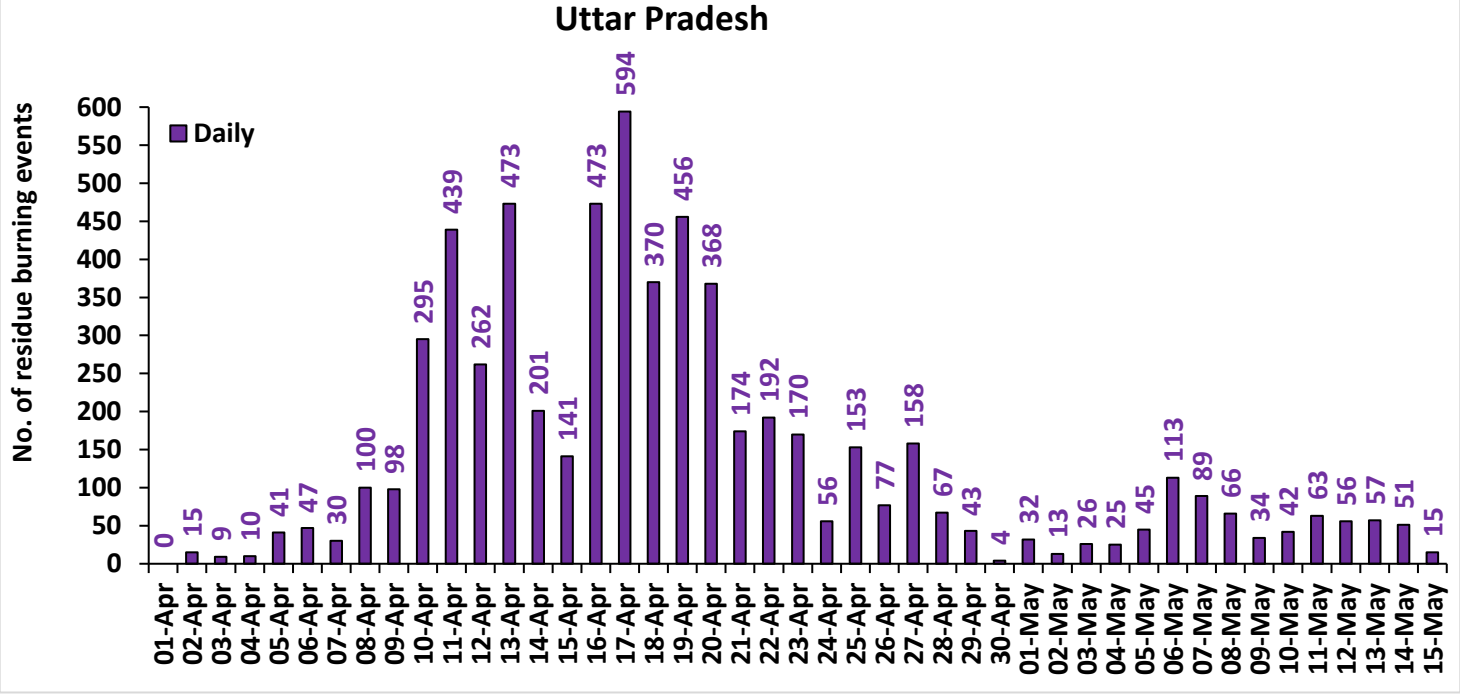
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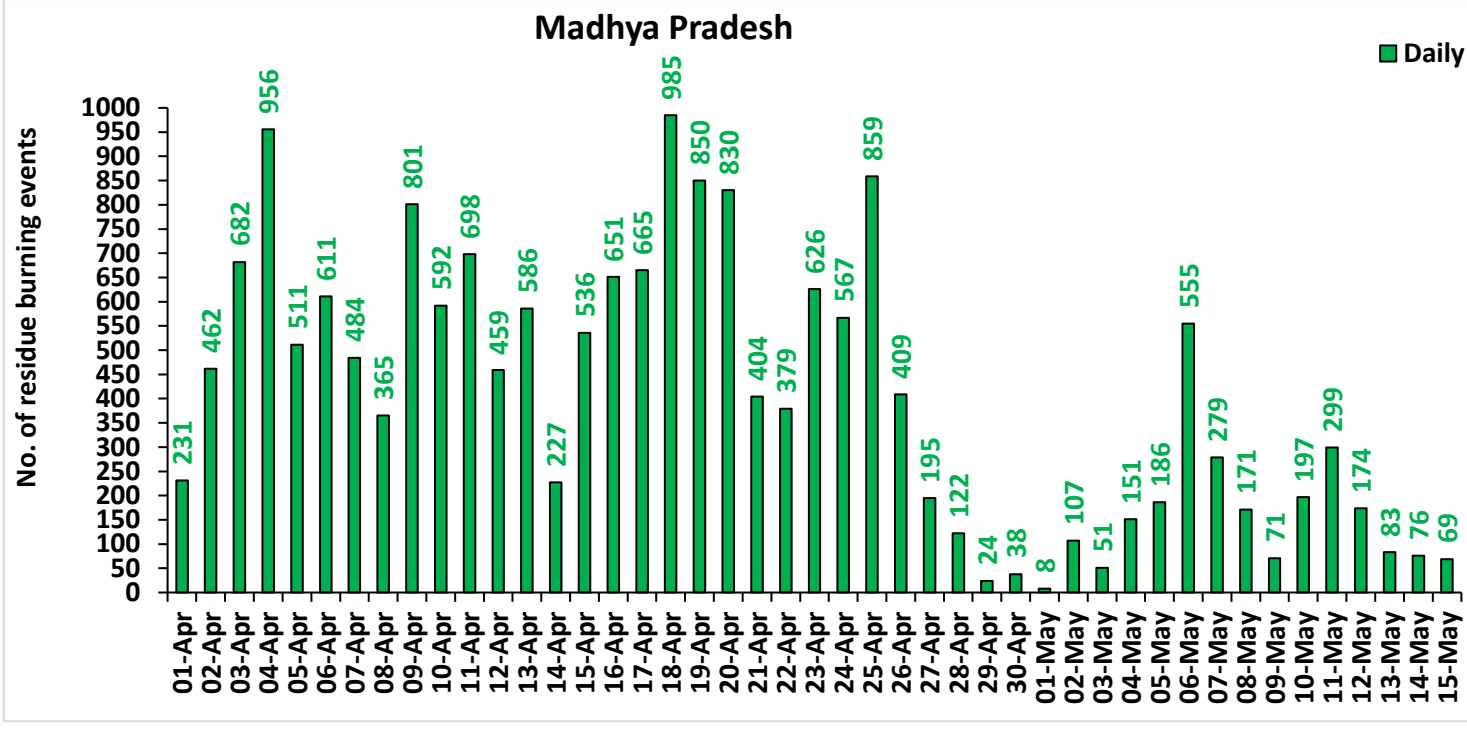
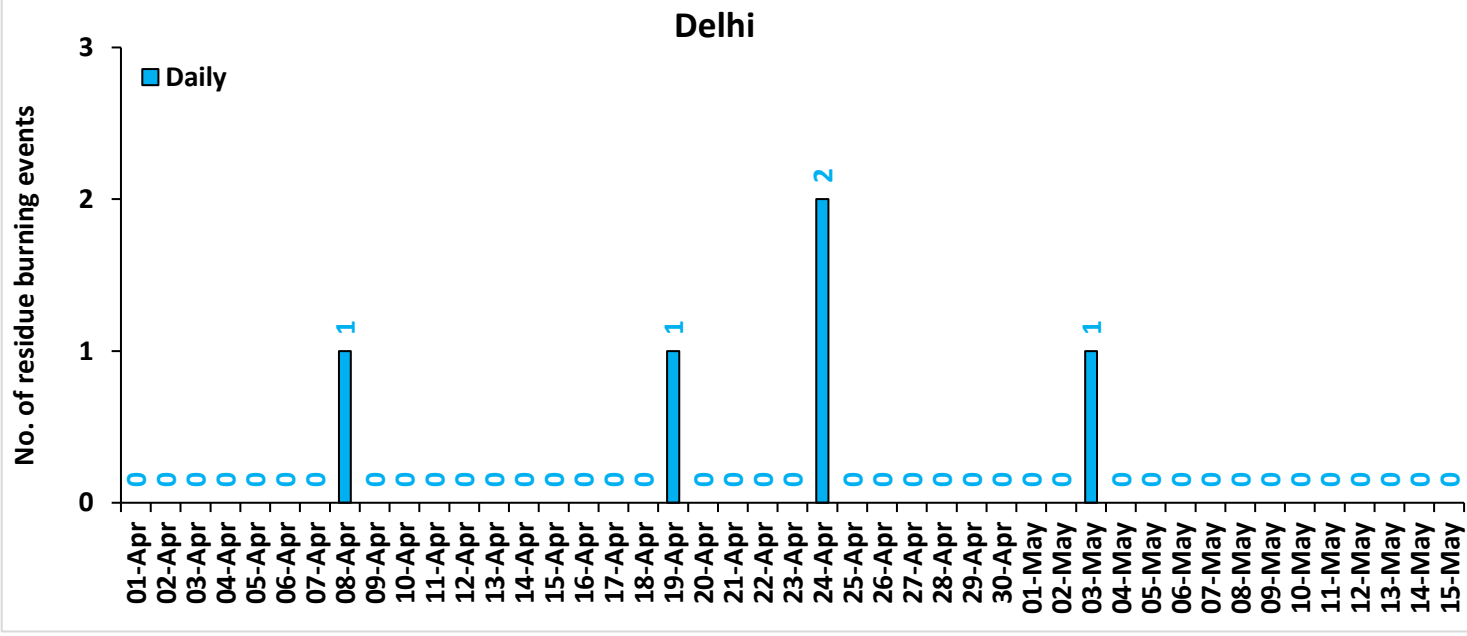
## Highlights for 15-May-2023

- 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 **618** residue burning events in the five study States on 15-May-2023.
- The state wise events detected on 15-May-2023 were **507** in Punjab, **27** in Haryana, **00** in Delhi, **15** in Uttar Pradesh and **69** in Madhya Pradesh.
- The number of events has increased from **241** on 14-May-2023 to **618** on 15-May-2023 in the five study states.
- Total **35602** burning events were detected in the five states between 01-Apr-2023 and 15-May-2023, which are distributed as **9249**, **1823**, **6243**, **05**, and **18282** in Punjab, Haryana, UP, Delhi, and MP, respectively.

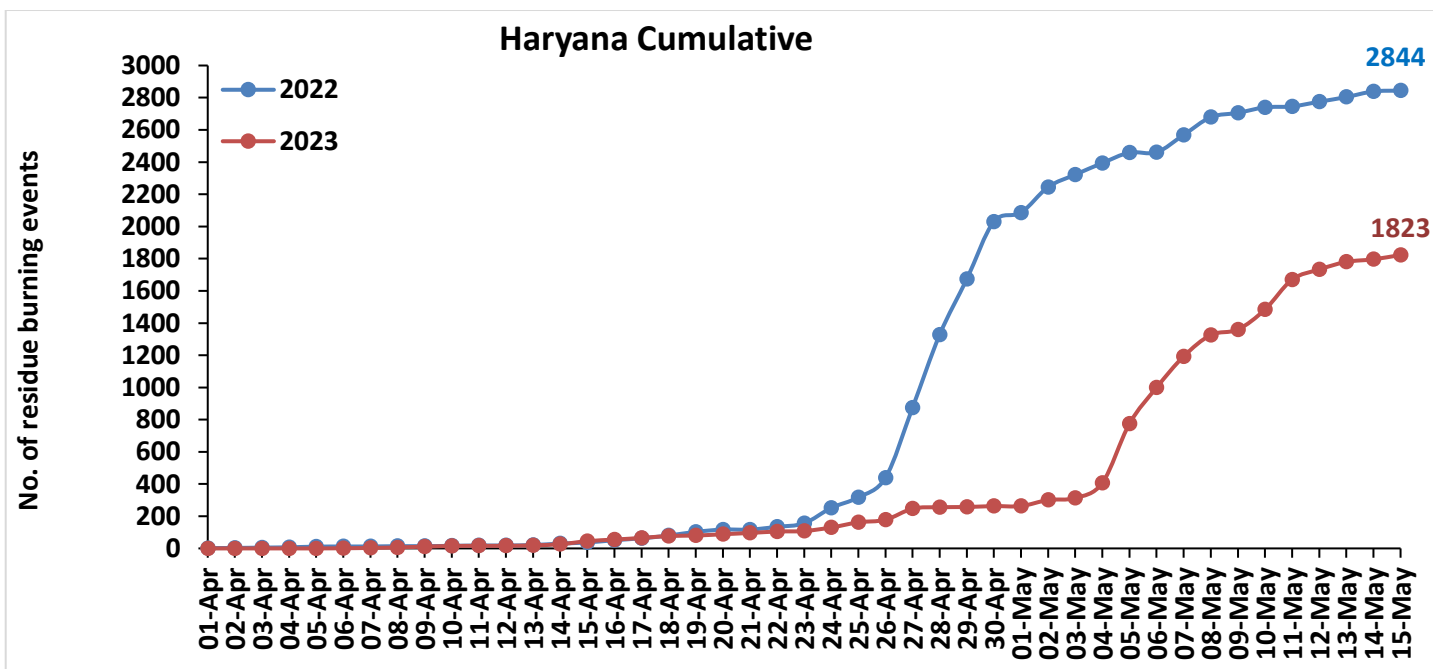
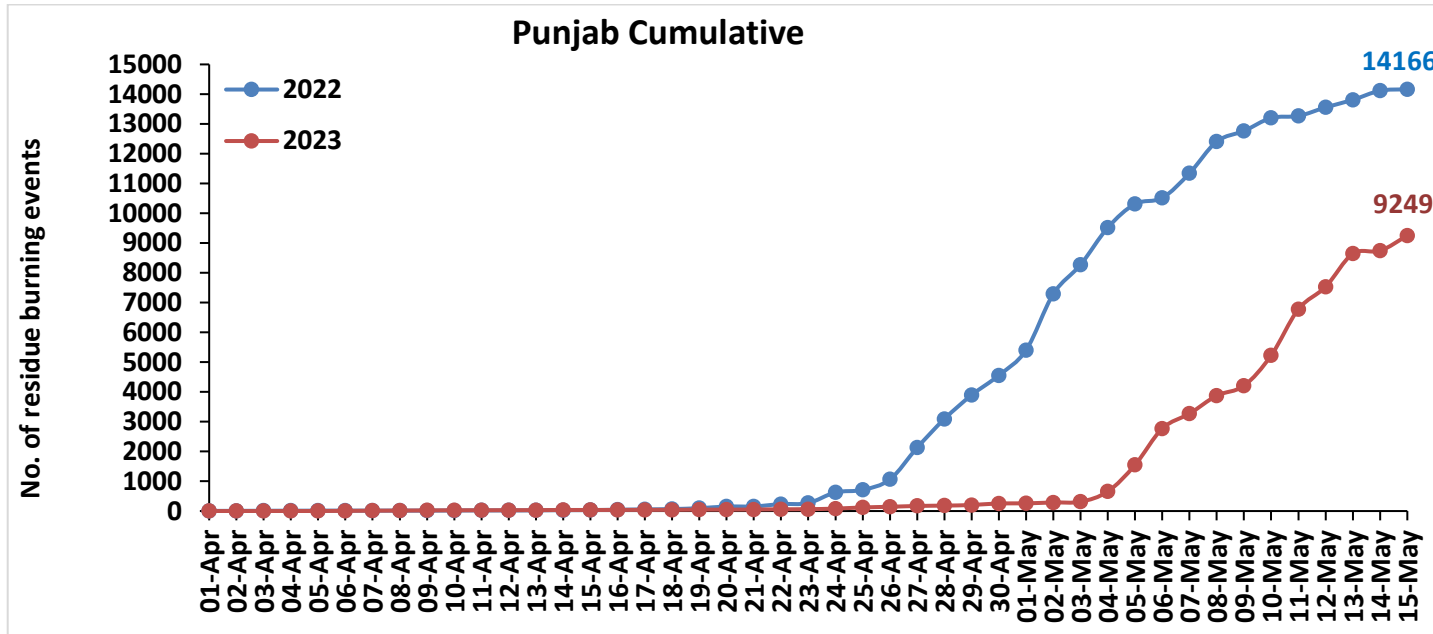
### Temporal distribution of wheat residue burning events for the study States in 2023

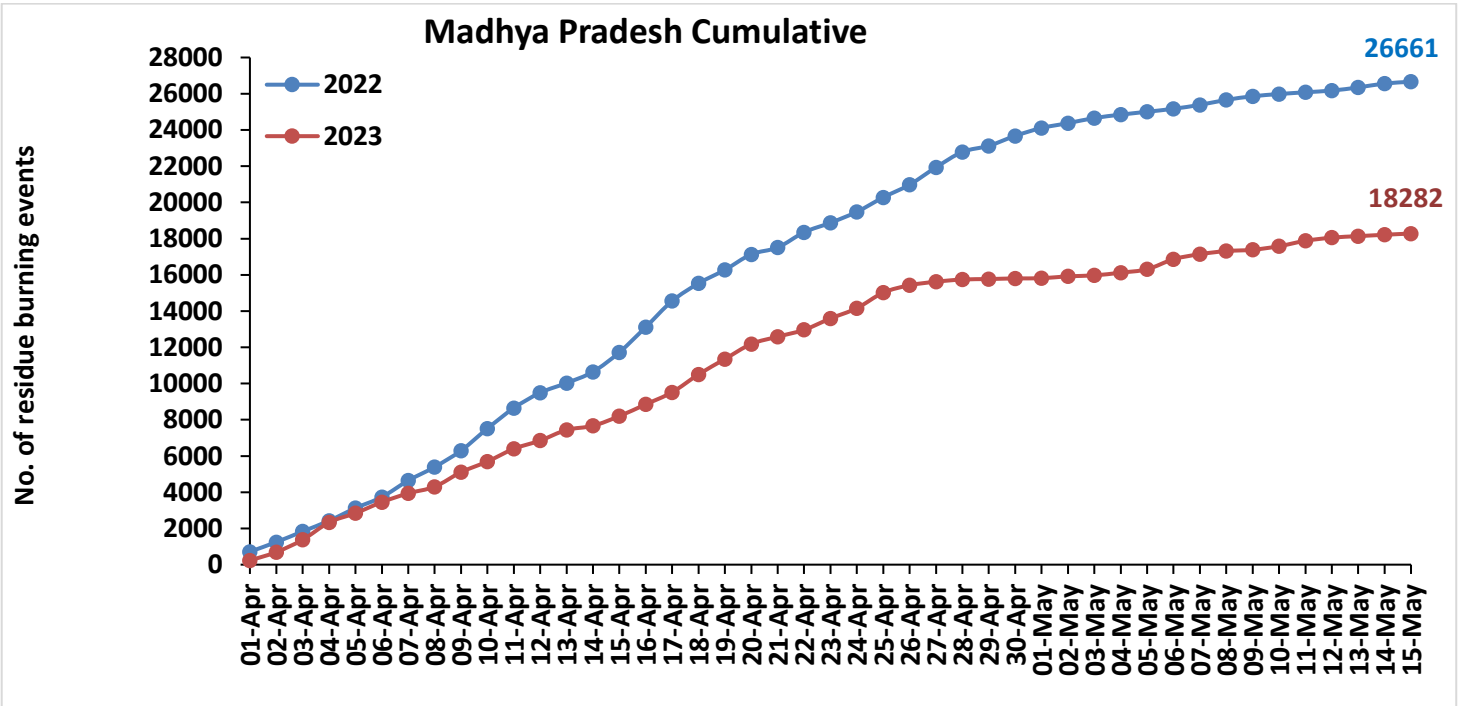
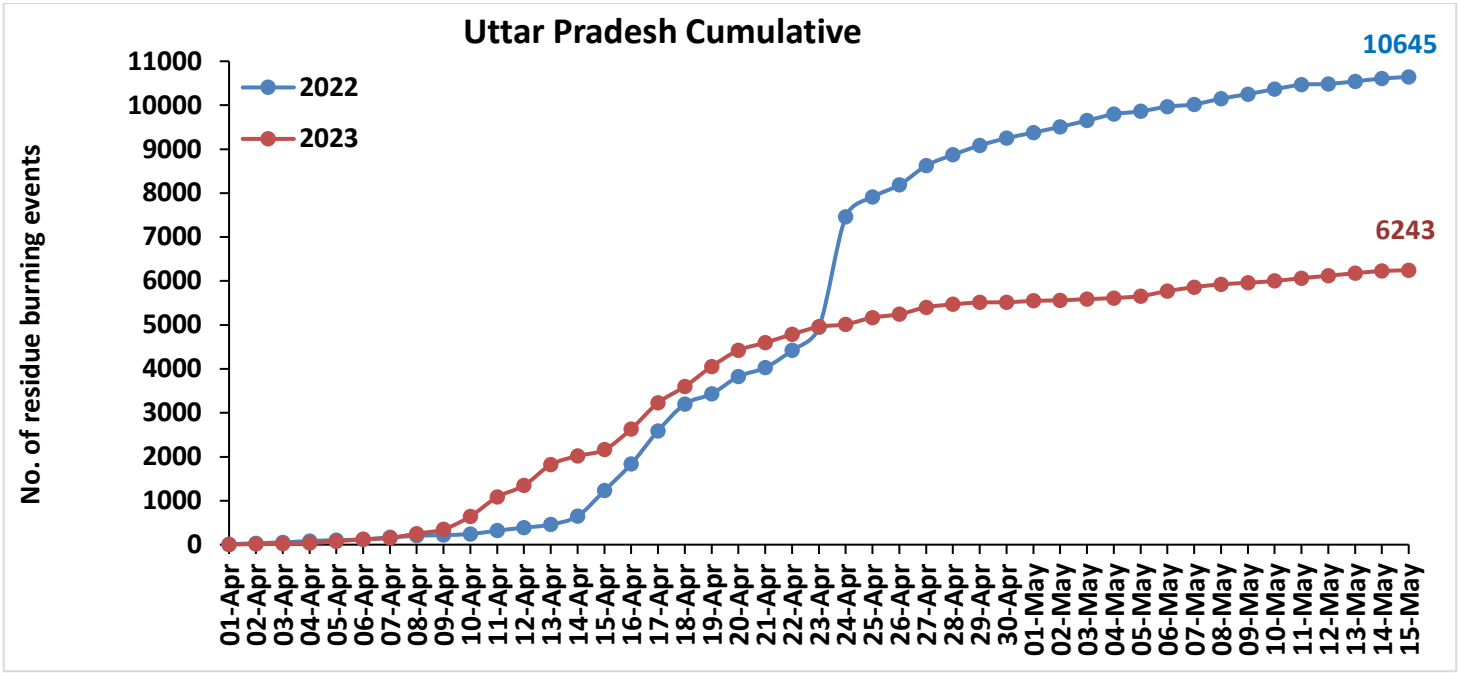




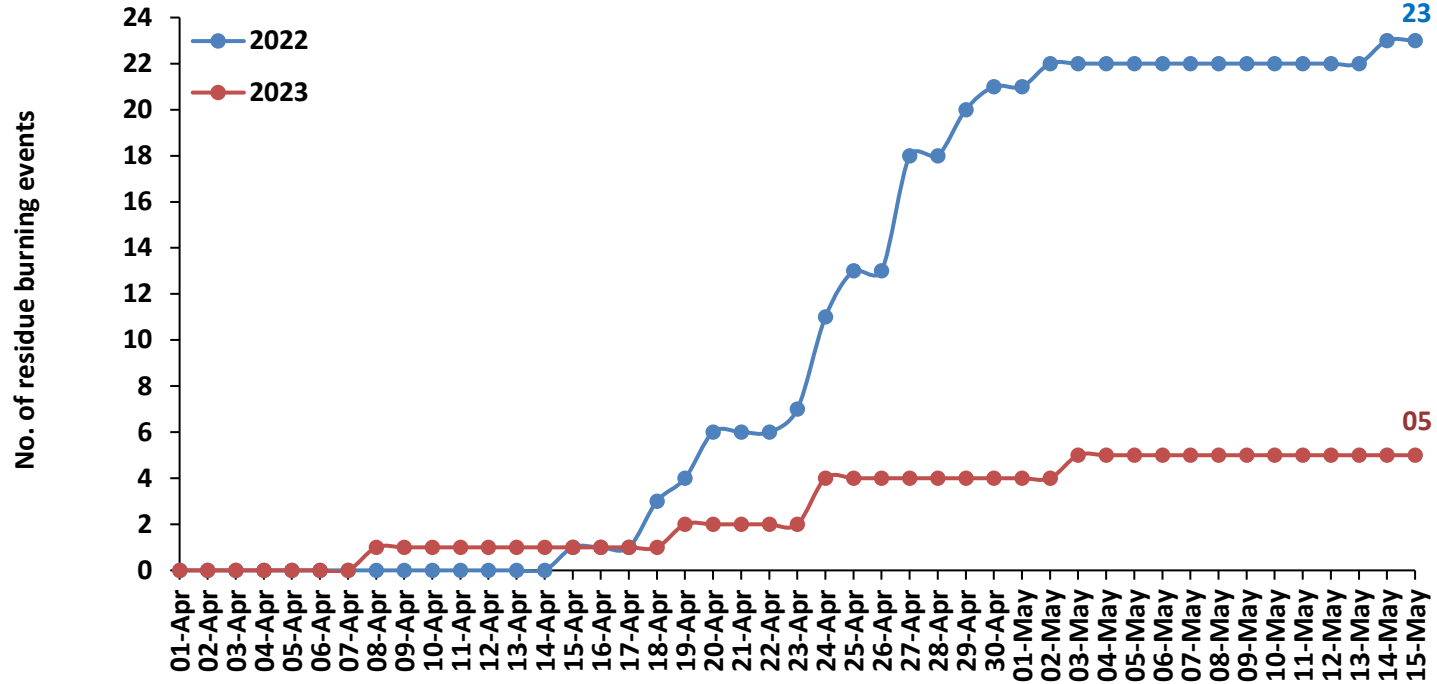


**Comparison of residue burning events in current year (2023) with previous year (2022) for the study States**





### Delhi Cumulative



**District-wise cumulative number of wheat residue burning events detected in 2022 and 2023**  
**(Period: 01 April-15 May)**

**(a) Punjab**

District	01 Apr-15 May	
	2022	2023
Amritsar	1228	710
Barnala	471	527
Bathinda	825	559
Faridkot	517	405
Fatehgarh Sahib	70	84
Fazilka	522	360
Firozpur	1416	737
Gurdaspur	1107	770
Hoshiarpur	474	332
Jalandhar	771	334
Kapurthala	700	292
Ludhiana	913	624
Mansa	407	323
Moga	1093	932
Muktsar	697	521
Pathankot	163	76
Patiala	437	392
Rupnagar	64	11
Sangrur	1000	776
SAS NAGAR (Mohali)	25	9
SBS Nagar	207	62
Tarn Taran	1059	413
<b>Total</b>	<b>14166</b>	<b>9249</b>

**(b) Haryana**

District	01 Apr-15 May	
	2022	2023
AMBALA	91	73
BHIWANI	75	22
CHARKHI DADRI	9	7
FARIDABAD	17	16
FATEHABAD	273	265
GURGAON	7	9
HISAR	148	112
JHAJJAR	121	66
JIND	346	151
KAITHAL	296	184
KARNAL	381	220
KURUKSHETRA	136	52
MAHENDRAGARH	0	0
MEWAT	1	8
PALWAL	33	28
PANCHKULA	3	2
PANIPAT	215	107
REWARI	3	3
ROHTAK	210	93
SIRSA	183	243
SONIPAT	274	127
YAMUNANAGAR	22	35
<b>Total</b>	<b>2844</b>	<b>1823</b>



(c) Uttar Pradesh

District	01 Apr-15 May							
	2022	2023						
			GAUTAMBUDHNAGAR	28	24	MUZAFARNAGAR	54	32
			GAZIPUR	101	46	PILHIBHIT	317	62
AGRA	2	0	GHAZIABAD	13	9	PRATAPGARH	24	15
ALIGARH	19	33	GONDA	21	28	RAIBEARELI	94	17
ALLAHABAD	106	35	GORAKHPUR	965	367	RAMPUR	117	28
AMBEDKARNAGAR	11	13	HAMIRPUR	17	35	SANTKABIRNAGAR	684	430
AURAIYA	100	14	HARDOI	101	73	SANTRAVIDASNAGAR	1	2
AZAMGARH	86	73	JALAUN	21	18	SHAHJAHANPUR	326	93
BADAUN	7	5	JAUNPUR	22	6	SHARANPUR	31	21
BAGHPAT	7	3	JHANSI	102	127	SHRAWASTI	85	43
BAHRAICH	107	43	JYOTIBAPHULE NAGAR	9	5	SIDDHARTHANAGAR	2536	1848
BALLIA	143	204	KANNAUJ	0	1	SITAPUR	21	22
BALRAMPUR	239	96	KANPUR	11	2	SONBHADRA	118	30
BANDA	8	3	KANPUR DEHAT	28	19	SULTANPUR	60	27
BARABANKI	8	3	KAUSHAMBI	6	5	UNNAO	58	17
BAREILLY	110	20	KHERI	157	76	VARANASI	1	0
BASTI	426	225	KUSHINAGAR	222	95	<b>Total</b>	<b>10645</b>	<b>6243</b>
BIJNOR	52	26	LACKNOW	13	0			
BULANDSAHAR	8	9	LALITPUR	56	62			
CHANDAULI	291	61	MAHAMAYANAGAR	0	1			
CHITRAKOOT	23	3	MAHARAJGANJ	1494	977			
DEORIA	727	440	MAHOBA	2	44			
ETAH	1	5	MAINPURI	5	6			
ETAWAH	3	5	MATHURA	24	53			
FAIZABAD	4	10	MAU	76	64			
FARRUKHABAD	3	2	MEERUT	18	23			
FATEHPUR	44	30	MIRZAPUR	64	15			
FIROZABAD	1	0	MORADABAD	6	14			

(d) Madhya Pradesh

District	01 Apr-15 May				
	2022	2023	PANNA	155	65
ALIRAJPUR	0	0	RAISEN	2619	1659
ANUPPUR	33	1	RAJGARH	144	176
ASHOKNAGAR	632	229	RATLAM	192	291
BALAGHAT	27	1	REWA	145	55
BARWANI	5	7	SAGAR	742	566
BETUL	184	55	SATNA	866	210
BHIND	58	55	SEHORE	931	653
BHOPAL	952	486	SEONI	1525	801
BURHANPUR	12	3	SHAHDOL	104	8
CHHATARPUR	146	136	SHAJAPUR	378	542
CHHINDWARA	512	265	SHEOPUR	367	447
DAMOH	208	250	SHIVPURI	161	113
DATIA	375	281	SIDHI	25	1
DEWAS	560	567	SINGRAULI	110	3
DHAR	1005	875	TIKAMGARH	29	78
DINDORI	44	5	UJJAIN	1224	1781
EAST NIMAR	82	103	UMARIA	53	8
GUNA	729	389	VIDESHA	3719	1729
GWALIOR	569	394	WEST NIMAR	33	59
HARDA	380	270	<b>Total</b>	<b>26661</b>	<b>18282</b>
HOSHANGABAD	4063	2757			
INDORE	968	1009			
JABALPUR	881	476			
JHABUA	2	6			
KATNI	289	125			
MANDLA	175	42			
MANDSAUR	63	109			
MORENA	35	1			
NARSHIMAPURA	129	99			
NIMACH	21	41			

**(e) Delhi**

District	01 Apr-15 May	
	2022	2023
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	18	2
NORTH EAST	1	0
NORTH WEST DELHI	1	0
SHAHADRA	0	0
SOUTH	1	0
SOUTH EAST	0	0
SOUTH WEST DELHI	1	2
WEST DELHI	1	1
<b>Total</b>	<b>23</b>	<b>5</b>

**State-wise and date-wise number of wheat residue burning events detected in 2022 and 2023**  
**(Period: 01 April-15 May)**

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

<b>26-Apr</b>	354	22	122	16	277	77	0	0	706	409
<b>27-Apr</b>	1064	28	436	69	436	158	5	0	955	195
<b>28-Apr</b>	965	12	453	9	249	67	0	0	849	122
<b>29-Apr</b>	802	20	345	1	213	43	2	0	340	24
<b>30-Apr</b>	662	52	357	6	166	4	1	0	547	38
<b>01-May</b>	848	3	56	0	126	32	0	0	437	8
<b>02-May</b>	1887	31	159	38	132	13	1	0	265	107
<b>03-May</b>	979	24	77	12	141	26	0	1	283	51
<b>04-May</b>	1247	343	72	94	147	25	0	0	188	151
<b>05-May</b>	796	892	65	368	64	45	0	0	159	186
<b>06-May</b>	202	1221	2	224	107	113	0	0	166	555
<b>07-May</b>	827	502	108	194	52	89	0	0	215	279
<b>08-May</b>	1065	604	110	133	130	66	0	0	275	171
<b>09-May</b>	357	331	27	34	103	34	0	0	199	71
<b>10-May</b>	437	1019	34	124	113	42	0	0	123	197
<b>11-May</b>	67	1554	6	186	101	63	0	0	99	299
<b>12-May</b>	289	752	29	63	17	56	0	0	94	174
<b>13-May</b>	253	1113	29	47	60	57	0	0	173	83
<b>14-May</b>	306	98	35	16	63	51	1	0	214	76
<b>15-May</b>	49	507	5	27	38	15	0	0	99	69
<b>Total</b>	<b>14166</b>	<b>9249</b>	<b>2844</b>	<b>1823</b>	<b>10645</b>	<b>6243</b>	<b>23</b>	<b>5</b>	<b>26661</b>	<b>18282</b>

### Details of residue burning events in Punjab on 15-May-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	S-NPP	31.84232	74.84334	13:05:30	D	9.00
2	AMRITSAR	AJNALA	S-NPP	31.84345	74.89048	13:05:30	D	9.90
3	AMRITSAR	AJNALA	S-NPP	31.84439	74.89495	13:05:30	D	9.90
4	AMRITSAR	AJNALA	S-NPP	31.88972	74.79649	13:05:30	D	13.10
5	AMRITSAR	AJNALA	S-NPP	31.89257	74.66063	13:05:30	D	5.50
6	AMRITSAR	AJNALA	S-NPP	31.89352	74.66522	13:05:30	D	7.90
7	AMRITSAR	AJNALA	S-NPP	31.89546	74.66133	13:05:30	D	7.90
8	AMRITSAR	AJNALA	S-NPP	31.90180	74.85495	13:05:30	D	8.30
9	AMRITSAR	AJNALA	S-NPP	31.92556	74.84474	13:05:30	D	7.80
10	AMRITSAR	AJNALA	S-NPP	31.92662	74.78738	13:05:30	D	6.30
11	AMRITSAR	AJNALA	S-NPP	31.92664	74.84789	13:05:30	D	6.90
12	AMRITSAR	AJNALA	S-NPP	31.92745	74.85367	13:05:30	D	9.30
13	AMRITSAR	AJNALA	S-NPP	31.92803	74.83324	13:05:30	D	4.30
14	AMRITSAR	AJNALA	S-NPP	31.93195	74.83345	13:05:30	D	7.50
15	AMRITSAR	AJNALA	S-NPP	31.93215	74.87475	13:05:30	D	11.80
16	AMRITSAR	AJNALA	S-NPP	31.93217	74.87599	13:05:30	D	10.50
17	AMRITSAR	AJNALA	S-NPP	31.95259	74.93136	13:05:30	D	6.60
18	AMRITSAR	AJNALA	S-NPP	31.95311	74.93469	13:05:30	D	8.10
19	AMRITSAR	AJNALA	S-NPP	31.95671	74.93019	13:05:30	D	6.60
20	AMRITSAR	AJNALA	S-NPP	32.02261	74.91153	13:05:30	D	8.50
21	AMRITSAR	ATTARI	S-NPP	31.54612	74.64101	13:05:30	D	17.00
22	AMRITSAR	ATTARI	S-NPP	31.55324	74.65379	13:05:30	D	21.50
23	AMRITSAR	ATTARI	S-NPP	31.55618	74.65447	13:05:30	D	20.30
24	AMRITSAR	ATTARI	S-NPP	31.55746	74.65257	13:05:30	D	21.50
25	AMRITSAR	ATTARI	S-NPP	31.55842	74.65723	13:05:30	D	14.70
26	AMRITSAR	ATTARI	AQUA	31.54100	74.65700	13:25:51	D	23.30
27	AMRITSAR	CHOGAWAN	S-NPP	31.67954	74.63551	13:05:30	D	17.70
28	AMRITSAR	CHOGAWAN	S-NPP	31.84617	74.69334	13:05:30	D	5.60
29	AMRITSAR	CHOGAWAN	S-NPP	31.85262	74.68180	13:05:30	D	4.60

30	AMRITSAR	HARSHA CHHINA	S-NPP	31.80007	74.72299	13:05:30	D	6.20
31	AMRITSAR	JANDIALA GURU	S-NPP	31.54039	75.05948	13:05:30	D	4.50
32	AMRITSAR	JANDIALA GURU	S-NPP	31.54085	75.06026	13:05:30	D	3.80
33	AMRITSAR	JANDIALA GURU	S-NPP	31.54127	75.04146	13:05:30	D	10.10
34	AMRITSAR	JANDIALA GURU	S-NPP	31.55828	75.06009	13:05:30	D	6.80
35	AMRITSAR	JANDIALA GURU	S-NPP	31.61657	74.98273	13:05:30	D	11.30
36	AMRITSAR	JANDIALA GURU	S-NPP	31.62071	74.98157	13:05:30	D	7.60
37	AMRITSAR	JANDIALA GURU	S-NPP	31.63719	75.01566	13:05:30	D	3.70
38	AMRITSAR	JANDIALA GURU	S-NPP	31.64036	75.01364	13:05:30	D	10.00
39	AMRITSAR	MAJITHA	S-NPP	31.72134	75.08525	13:05:30	D	10.00
40	AMRITSAR	MAJITHA	S-NPP	31.73703	74.96978	13:05:30	D	3.50
41	AMRITSAR	MAJITHA	S-NPP	31.73763	74.97332	13:05:30	D	4.90
42	AMRITSAR	MAJITHA	S-NPP	31.74436	74.96304	13:05:30	D	20.50
43	AMRITSAR	MAJITHA	S-NPP	31.74849	74.96188	13:05:30	D	7.50
44	AMRITSAR	MAJITHA	S-NPP	31.76184	75.09241	13:05:30	D	10.70
45	AMRITSAR	MAJITHA	S-NPP	31.76289	75.09295	13:05:30	D	14.80
46	AMRITSAR	MAJITHA	S-NPP	31.76513	75.04134	13:05:30	D	10.30
47	AMRITSAR	MAJITHA	S-NPP	31.81724	74.99871	13:05:30	D	4.90
48	AMRITSAR	RAYYA	S-NPP	31.55367	75.29546	13:05:30	D	11.50
49	AMRITSAR	RAYYA	S-NPP	31.57831	75.19800	13:05:30	D	5.90
50	AMRITSAR	RAYYA	S-NPP	31.58330	75.20120	13:05:30	D	6.80
51	AMRITSAR	RAYYA	S-NPP	31.58739	75.20006	13:05:30	D	7.80
52	AMRITSAR	RAYYA	S-NPP	31.61461	75.31085	13:05:30	D	20.00
53	AMRITSAR	RAYYA	AQUA	31.57000	75.30300	13:25:51	D	23.80
54	AMRITSAR	RAYYA	AQUA	31.57800	75.30800	13:25:51	D	51.90
55	AMRITSAR	TARSIKKA	S-NPP	31.61527	75.14632	13:05:30	D	4.30
56	AMRITSAR	TARSIKKA	S-NPP	31.63736	75.19073	13:05:30	D	7.70
57	AMRITSAR	TARSIKKA	S-NPP	31.68302	75.10989	13:05:30	D	9.90
58	BARNALA	BARNALA	S-NPP	30.37868	75.65836	13:05:30	D	4.70
59	BARNALA	MAHAL KALAN	S-NPP	30.57798	75.47563	13:05:30	D	5.30
60	BARNALA	SEHNA	S-NPP	30.44663	75.45421	13:05:30	D	5.00
61	BATHINDA	GONIANA MANDI	S-NPP	30.26924	74.89186	13:05:30	D	7.80
62	BATHINDA	GONIANA MANDI	S-NPP	30.32988	75.00076	13:05:30	D	5.70

63	BATHINDA	RAMPURA	S-NPP	30.17777	75.21411	13:05:30	D	7.00
64	BATHINDA	RAMPURA	S-NPP	30.19239	75.34814	13:05:30	D	8.80
65	BATHINDA	SANGAT	S-NPP	30.12712	74.92934	13:05:30	D	7.60
66	BATHINDA	TALWANDI SABO	S-NPP	30.00260	75.09535	13:05:30	D	10.60
67	BATHINDA	TALWANDI SABO	S-NPP	30.00514	75.09320	13:05:30	D	23.80
68	BATHINDA	TALWANDI SABO	S-NPP	30.00685	75.09420	13:05:30	D	10.60
69	FARIDKOT	FARIDKOT	S-NPP	30.64048	74.67561	13:05:30	D	8.00
70	FARIDKOT	FARIDKOT	S-NPP	30.64149	74.68040	13:05:30	D	15.30
71	FARIDKOT	FARIDKOT	S-NPP	30.69497	74.74105	13:05:30	D	9.50
72	FARIDKOT	FARIDKOT	S-NPP	30.69570	74.73740	13:05:30	D	8.90
73	FARIDKOT	FARIDKOT	S-NPP	30.70370	74.84833	13:05:30	D	5.20
74	FARIDKOT	FARIDKOT	S-NPP	30.72757	74.82327	13:05:30	D	8.40
75	FARIDKOT	FARIDKOT	S-NPP	30.79297	74.77020	13:05:30	D	7.20
76	FARIDKOT	FARIDKOT	AQUA	30.63400	74.66300	13:25:51	D	38.30
77	FARIDKOT	FARIDKOT	AQUA	30.63900	74.68600	13:25:51	D	81.40
78	FARIDKOT	JAITON	S-NPP	30.38907	75.04807	13:05:30	D	4.70
79	FARIDKOT	JAITON	S-NPP	30.42289	75.03874	13:05:30	D	3.70
80	FARIDKOT	JAITON	S-NPP	30.44231	74.77833	13:05:30	D	11.10
81	FARIDKOT	JAITON	S-NPP	30.44512	74.94199	13:05:30	D	7.00
82	FARIDKOT	JAITON	S-NPP	30.48334	74.93141	13:05:30	D	3.80
83	FARIDKOT	KOT KAPURA	S-NPP	30.50159	74.80200	13:05:30	D	7.00
84	FARIDKOT	KOT KAPURA	S-NPP	30.50245	74.79842	13:05:30	D	12.00
85	FARIDKOT	KOT KAPURA	S-NPP	30.50257	74.80675	13:05:30	D	7.20
86	FARIDKOT	KOT KAPURA	S-NPP	30.50346	74.80315	13:05:30	D	12.00
87	FARIDKOT	KOT KAPURA	S-NPP	30.54729	74.86080	13:05:30	D	7.10
88	FARIDKOT	KOT KAPURA	S-NPP	30.54827	74.86549	13:05:30	D	9.80
89	FARIDKOT	KOT KAPURA	S-NPP	30.59544	74.83245	13:05:30	D	7.20
90	FARIDKOT	KOT KAPURA	S-NPP	30.60017	74.92024	13:05:30	D	7.10
91	FARIDKOT	KOT KAPURA	S-NPP	30.60440	74.91907	13:05:30	D	5.00
92	FARIDKOT	KOT KAPURA	S-NPP	30.60537	74.92371	13:05:30	D	5.00
93	FARIDKOT	KOT KAPURA	S-NPP	30.60844	74.87352	13:05:30	D	6.00
94	FARIDKOT	KOT KAPURA	S-NPP	30.61250	74.86378	13:05:30	D	6.10
95	FARIDKOT	KOT KAPURA	S-NPP	30.62963	74.92312	13:05:30	D	8.20



96	FARIDKOT	KOT KAPURA	S-NPP	30.63175	74.92130	13:05:30	D	8.20
97	FARIDKOT	KOT KAPURA	S-NPP	30.63885	74.93405	13:05:30	D	5.00
98	FARIDKOT	KOT KAPURA	S-NPP	30.64006	74.93004	13:05:30	D	11.60
99	FARIDKOT	KOT KAPURA	S-NPP	30.67426	74.90088	13:05:30	D	8.80
100	FAZILKA	ABOHAR	S-NPP	30.04510	74.23181	13:05:30	D	4.60
101	FAZILKA	ABOHAR	S-NPP	30.04515	74.23457	13:05:30	D	10.60
102	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.29147	74.24511	13:05:30	D	7.70
103	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.29259	74.25024	13:05:30	D	8.50
104	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.31029	74.28860	13:05:30	D	9.50
105	FAZILKA	ARNIWALA SHEIKH SUBANPUR	S-NPP	30.31470	74.28735	13:05:30	D	6.70
106	FAZILKA	JALALABAD	S-NPP	30.52815	74.38618	13:05:30	D	5.50
107	FAZILKA	JALALABAD	S-NPP	30.55032	74.29478	13:05:30	D	6.30
108	FAZILKA	JALALABAD	AQUA	30.58200	74.10800	13:25:51	D	28.40
109	FIROZPUR	FIROZPUR	S-NPP	30.88093	74.51562	13:05:30	D	8.30
110	FIROZPUR	FIROZPUR	S-NPP	30.93867	74.50663	13:05:30	D	2.90
111	FIROZPUR	FIROZPUR	S-NPP	30.97723	74.66820	13:05:30	D	5.90
112	FIROZPUR	FIROZPUR	S-NPP	31.00777	74.59583	13:05:30	D	1.90
113	FIROZPUR	FIROZPUR	S-NPP	31.02769	74.69397	13:05:30	D	5.80
114	FIROZPUR	FIROZPUR	S-NPP	31.03106	74.79715	13:05:30	D	8.60
115	FIROZPUR	FIROZPUR	S-NPP	31.04122	74.56107	13:05:30	D	5.40
116	FIROZPUR	FIROZPUR	S-NPP	31.09383	74.81049	13:05:30	D	4.10
117	FIROZPUR	FIROZPUR	S-NPP	31.09480	74.81512	13:05:30	D	4.10
118	FIROZPUR	FIROZPUR	S-NPP	31.10719	74.76742	13:05:30	D	2.90
119	FIROZPUR	GHALL KHURD	S-NPP	30.94763	74.65646	13:05:30	D	11.00
120	FIROZPUR	GHALL KHURD	S-NPP	30.96270	74.79169	13:05:30	D	5.30
121	FIROZPUR	GHALL KHURD	S-NPP	30.99530	74.73302	13:05:30	D	5.40
122	FIROZPUR	GHALL KHURD	S-NPP	30.99628	74.73771	13:05:30	D	6.20
123	FIROZPUR	MAKHU	S-NPP	31.05194	74.85503	13:05:30	D	5.20
124	FIROZPUR	MAKHU	S-NPP	31.06624	74.82804	13:05:30	D	9.00
125	FIROZPUR	MAKHU	S-NPP	31.06722	74.83265	13:05:30	D	9.00
126	FIROZPUR	MAKHU	S-NPP	31.07857	74.84413	13:05:30	D	15.80
127	FIROZPUR	MAKHU	S-NPP	31.08051	75.10173	13:05:30	D	11.60
128	FIROZPUR	MAKHU	S-NPP	31.15071	75.04073	13:05:30	D	9.90

129	FIROZPUR	MAKHU	S-NPP	31.15164	75.04521	13:05:30	D	17.10
130	FIROZPUR	MAMDOT	S-NPP	30.79738	74.31526	13:05:30	D	10.10
131	FIROZPUR	MAMDOT	S-NPP	30.82944	74.34021	13:05:30	D	11.30
132	FIROZPUR	MAMDOT	S-NPP	30.82988	74.33762	13:05:30	D	7.20
133	FIROZPUR	MAMDOT	S-NPP	30.84024	74.36867	13:05:30	D	6.10
134	FIROZPUR	MAMDOT	S-NPP	30.84049	74.36618	13:05:30	D	3.70
135	FIROZPUR	MAMDOT	S-NPP	30.85349	74.47188	13:05:30	D	5.80
136	FIROZPUR	MAMDOT	S-NPP	30.88060	74.51283	13:05:30	D	8.30
137	FIROZPUR	ZIRA	S-NPP	30.99072	74.81834	13:05:30	D	7.20
138	FIROZPUR	ZIRA	S-NPP	31.00007	75.09565	13:05:30	D	7.00
139	FIROZPUR	ZIRA	S-NPP	31.00092	75.09875	13:05:30	D	12.70
140	FIROZPUR	ZIRA	S-NPP	31.00101	75.10013	13:05:30	D	7.00
141	FIROZPUR	ZIRA	S-NPP	31.00423	75.09451	13:05:30	D	7.00
142	FIROZPUR	ZIRA	S-NPP	31.00517	75.09898	13:05:30	D	7.00
143	GURDASPUR	BATALA	S-NPP	31.70232	75.22382	13:05:30	D	21.50
144	GURDASPUR	BATALA	S-NPP	31.88526	75.26862	13:05:30	D	8.60
145	GURDASPUR	BATALA	S-NPP	31.89669	75.14513	13:05:30	D	10.00
146	GURDASPUR	BATALA	S-NPP	31.90077	75.14399	13:05:30	D	10.00
147	GURDASPUR	BATALA	AQUA	31.87500	75.24400	13:25:51	D	20.90
148	GURDASPUR	DERA BABA NANAK	S-NPP	31.90444	75.12006	13:05:30	D	7.50
149	GURDASPUR	DERA BABA NANAK	S-NPP	31.90852	75.11891	13:05:30	D	8.70
150	GURDASPUR	DERA BABA NANAK	S-NPP	31.95394	75.08774	13:05:30	D	16.40
151	GURDASPUR	DERA BABA NANAK	S-NPP	31.95695	75.01762	13:05:30	D	7.10
152	GURDASPUR	DERA BABA NANAK	S-NPP	31.95802	75.08658	13:05:30	D	16.40
153	GURDASPUR	DERA BABA NANAK	S-NPP	31.97184	74.93997	13:05:30	D	6.10
154	GURDASPUR	DERA BABA NANAK	S-NPP	31.97595	74.93880	13:05:30	D	6.10
155	GURDASPUR	DERA BABA NANAK	S-NPP	31.98375	74.95529	13:05:30	D	9.50
156	GURDASPUR	DERA BABA NANAK	S-NPP	31.98881	75.00041	13:05:30	D	15.60
157	GURDASPUR	DERA BABA NANAK	S-NPP	32.03072	74.99321	13:05:30	D	5.60
158	GURDASPUR	DERA BABA NANAK	S-NPP	32.05447	75.08795	13:05:30	D	23.40
159	GURDASPUR	DERA BABA NANAK	AQUA	31.98100	74.92400	13:25:51	D	29.20
160	GURDASPUR	DHARIWAL	S-NPP	31.84735	75.29269	13:05:30	D	12.00
161	GURDASPUR	DHARIWAL	S-NPP	31.85140	75.29156	13:05:30	D	8.50

162	GURDASPUR	DHARIWAL	S-NPP	31.86874	75.31367	13:05:30	D	5.80
163	GURDASPUR	DHARIWAL	S-NPP	31.86961	75.31792	13:05:30	D	5.80
164	GURDASPUR	DHARIWAL	S-NPP	31.88439	75.26435	13:05:30	D	8.60
165	GURDASPUR	DHARIWAL	S-NPP	31.88585	75.25042	13:05:30	D	6.80
166	GURDASPUR	DHARIWAL	S-NPP	31.88931	75.26748	13:05:30	D	9.60
167	GURDASPUR	DHARIWAL	S-NPP	31.88991	75.24929	13:05:30	D	6.80
168	GURDASPUR	DHARIWAL	S-NPP	31.94366	75.39285	13:05:30	D	3.60
169	GURDASPUR	DHARIWAL	S-NPP	31.99924	75.31070	13:05:30	D	5.90
170	GURDASPUR	DINA NAGAR	S-NPP	32.11712	75.54220	13:05:30	D	7.20
171	GURDASPUR	DORANGALA	S-NPP	32.07499	75.27237	13:05:30	D	10.70
172	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.79154	75.12643	13:05:30	D	16.00
173	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.80805	75.03860	13:05:30	D	13.80
174	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.87670	74.96577	13:05:30	D	5.20
175	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.88451	75.06585	13:05:30	D	18.10
176	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.88542	75.07021	13:05:30	D	18.10
177	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.88861	75.06470	13:05:30	D	4.90
178	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.88952	75.06906	13:05:30	D	4.90
179	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.90092	75.01952	13:05:30	D	11.40
180	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.90503	75.01836	13:05:30	D	10.70
181	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.92111	74.90620	13:05:30	D	11.10
182	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.92524	74.90502	13:05:30	D	11.10
183	GURDASPUR	FATEHGARH CHURIAN	AQUA	31.83000	75.08400	13:25:51	D	24.10
184	GURDASPUR	FATEHGARH CHURIAN	AQUA	31.87800	75.07000	13:25:51	D	25.40
185	GURDASPUR	FATEHGARH CHURIAN	AQUA	31.89400	75.02200	13:25:51	D	22.40
186	GURDASPUR	FATEHGARH CHURIAN	AQUA	31.89700	75.01400	13:25:51	D	28.30
187	GURDASPUR	GURDASPUR	S-NPP	32.02215	75.33992	13:05:30	D	8.10
188	GURDASPUR	GURDASPUR	S-NPP	32.02468	75.35254	13:05:30	D	11.30
189	GURDASPUR	GURDASPUR	S-NPP	32.08350	75.37669	13:05:30	D	9.60
190	GURDASPUR	GURDASPUR	S-NPP	32.09137	75.43610	13:05:30	D	9.60
191	GURDASPUR	GURDASPUR	AQUA	32.03400	75.44200	13:25:51	D	26.50
192	GURDASPUR	KAHNUWAN	S-NPP	31.80518	75.45533	13:05:30	D	9.90
193	GURDASPUR	KAHNUWAN	S-NPP	31.81891	75.46035	13:05:30	D	14.60
194	GURDASPUR	KAHNUWAN	S-NPP	31.82059	75.46870	13:05:30	D	11.10

195	GURDASPUR	KAHNUWAN	S-NPP	31.86988	75.34022	13:05:30	D	9.10
196	GURDASPUR	KAHNUWAN	S-NPP	31.87649	75.35175	13:05:30	D	6.70
197	GURDASPUR	KAHNUWAN	S-NPP	31.89734	75.41261	13:05:30	D	9.10
198	GURDASPUR	KAHNUWAN	S-NPP	31.95082	75.46807	13:05:30	D	9.00
199	GURDASPUR	KAHNUWAN	S-NPP	31.95103	75.46989	13:05:30	D	7.30
200	GURDASPUR	KALANAUR	S-NPP	32.00089	75.17053	13:05:30	D	7.20
201	GURDASPUR	KALANAUR	S-NPP	32.00182	75.16666	13:05:30	D	7.60
202	GURDASPUR	KALANAUR	S-NPP	32.00744	75.24560	13:05:30	D	5.60
203	GURDASPUR	KALANAUR	S-NPP	32.00970	75.24578	13:05:30	D	5.20
204	GURDASPUR	KALANAUR	S-NPP	32.04173	75.10986	13:05:30	D	7.40
205	GURDASPUR	KALANAUR	S-NPP	32.04576	75.21315	13:05:30	D	11.40
206	GURDASPUR	QADIAN	S-NPP	31.81373	75.27504	13:05:30	D	8.20
207	GURDASPUR	QADIAN	S-NPP	31.81461	75.27930	13:05:30	D	8.20
208	GURDASPUR	QADIAN	S-NPP	31.82623	75.29408	13:05:30	D	8.00
209	GURDASPUR	QADIAN	S-NPP	31.83116	75.29720	13:05:30	D	16.10
210	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.63960	75.34898	13:05:30	D	8.70
211	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.64047	75.35323	13:05:30	D	8.70
212	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.64278	75.34361	13:05:30	D	10.50
213	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.64771	75.34674	13:05:30	D	14.30
214	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.65060	75.31894	13:05:30	D	12.10
215	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.67474	75.43758	13:05:30	D	11.90
216	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.73256	75.39116	13:05:30	D	10.80
217	HOSHIARPUR	BHUNGA	S-NPP	31.62955	75.79755	13:05:30	D	1.10
218	HOSHIARPUR	HAJIPUR	S-NPP	32.00320	75.66337	13:05:30	D	5.00
219	HOSHIARPUR	MAHILPUR	S-NPP	31.34600	75.98198	13:05:30	D	4.20
220	HOSHIARPUR	MAHILPUR	S-NPP	31.37535	76.02553	13:05:30	D	7.10
221	JALANDHAR	ADAMPUR	S-NPP	31.41132	75.71748	13:05:30	D	5.90
222	JALANDHAR	ADAMPUR	S-NPP	31.45950	75.66576	13:05:30	D	4.40
223	JALANDHAR	BHOGPUR	S-NPP	31.50776	75.69595	13:05:30	D	11.40
224	JALANDHAR	BHOGPUR	S-NPP	31.50939	75.57784	13:05:30	D	2.30
225	JALANDHAR	BHOGPUR	S-NPP	31.57591	75.63561	13:05:30	D	8.40
226	JALANDHAR	BHOGPUR	S-NPP	31.57991	75.63452	13:05:30	D	8.40
227	JALANDHAR	LOHIAN	S-NPP	31.13146	75.15920	13:05:30	D	5.20

228	JALANDHAR	LOHIAN	S-NPP	31.13370	75.10695	13:05:30	D	11.00
229	JALANDHAR	LOHIAN	S-NPP	31.15398	75.16232	13:05:30	D	8.10
230	JALANDHAR	MEHATPUR	S-NPP	30.98831	75.39989	13:05:30	D	7.90
231	JALANDHAR	MEHATPUR	S-NPP	31.00356	75.43212	13:05:30	D	5.30
232	JALANDHAR	MEHATPUR	S-NPP	31.01231	75.41154	13:05:30	D	1.90
233	JALANDHAR	MEHATPUR	S-NPP	31.04691	75.49712	13:05:30	D	15.70
234	JALANDHAR	MEHATPUR	S-NPP	31.05012	75.49175	13:05:30	D	7.60
235	JALANDHAR	MEHATPUR	S-NPP	31.05099	75.49602	13:05:30	D	10.70
236	JALANDHAR	MEHATPUR	S-NPP	31.07135	75.43730	13:05:30	D	3.70
237	JALANDHAR	NAKODAR	S-NPP	31.04259	75.47576	13:05:30	D	6.00
238	JALANDHAR	NAKODAR	S-NPP	31.10027	75.51496	13:05:30	D	14.60
239	JALANDHAR	NAKODAR	S-NPP	31.14431	75.52080	13:05:30	D	6.70
240	JALANDHAR	NAKODAR	S-NPP	31.14836	75.51968	13:05:30	D	7.60
241	JALANDHAR	NAKODAR	S-NPP	31.18288	75.56376	13:05:30	D	7.40
242	JALANDHAR	NAKODAR	S-NPP	31.20064	75.55505	13:05:30	D	7.00
243	JALANDHAR	NUR MAHAL	S-NPP	31.00268	75.61636	13:05:30	D	5.90
244	JALANDHAR	NUR MAHAL	S-NPP	31.01983	75.55384	13:05:30	D	4.80
245	JALANDHAR	NUR MAHAL	S-NPP	31.02168	75.64665	13:05:30	D	10.70
246	JALANDHAR	NUR MAHAL	S-NPP	31.03145	75.73616	13:05:30	D	5.70
247	JALANDHAR	NUR MAHAL	S-NPP	31.03230	75.74030	13:05:30	D	10.40
248	JALANDHAR	NUR MAHAL	S-NPP	31.04251	75.62329	13:05:30	D	10.60
249	JALANDHAR	NUR MAHAL	S-NPP	31.06742	75.59880	13:05:30	D	5.40
250	JALANDHAR	NUR MAHAL	S-NPP	31.07920	75.55108	13:05:30	D	7.30
251	JALANDHAR	NUR MAHAL	AQUA	31.05400	75.61500	13:25:51	D	113.20
252	JALANDHAR	NUR MAHAL	AQUA	31.05800	75.63500	13:25:51	D	94.20
253	JALANDHAR	PHILLAUR	S-NPP	31.11318	75.84842	13:05:30	D	12.70
254	JALANDHAR	PHILLAUR	S-NPP	31.12445	75.88397	13:05:30	D	4.10
255	JALANDHAR	SHAHKOT	S-NPP	31.07151	75.24937	13:05:30	D	4.90
256	JALANDHAR	SHAHKOT	S-NPP	31.07241	75.25375	13:05:30	D	3.90
257	JALANDHAR	SHAHKOT	S-NPP	31.07522	75.22510	13:05:30	D	9.90
258	JALANDHAR	SHAHKOT	S-NPP	31.07935	75.22395	13:05:30	D	7.70
259	KAPURTHALA	DHILWAN	S-NPP	31.45947	75.28746	13:05:30	D	7.10
260	KAPURTHALA	DHILWAN	S-NPP	31.47228	75.27692	13:05:30	D	6.00

261	KAPURTHALA	DHILWAN	S-NPP	31.49369	75.43593	13:05:30	D	16.00
262	KAPURTHALA	DHILWAN	S-NPP	31.50668	75.38058	13:05:30	D	5.60
263	KAPURTHALA	DHILWAN	S-NPP	31.50837	75.44528	13:05:30	D	19.40
264	KAPURTHALA	DHILWAN	S-NPP	31.51168	75.44630	13:05:30	D	12.20
265	KAPURTHALA	DHILWAN	S-NPP	31.51686	75.40916	13:05:30	D	7.50
266	KAPURTHALA	DHILWAN	S-NPP	31.51773	75.41341	13:05:30	D	7.50
267	KAPURTHALA	DHILWAN	S-NPP	31.51803	75.43565	13:05:30	D	15.10
268	KAPURTHALA	DHILWAN	S-NPP	31.51885	75.37722	13:05:30	D	7.10
269	KAPURTHALA	DHILWAN	S-NPP	31.52121	75.43031	13:05:30	D	12.80
270	KAPURTHALA	DHILWAN	S-NPP	31.52178	75.41229	13:05:30	D	9.90
271	KAPURTHALA	DHILWAN	S-NPP	31.52208	75.43454	13:05:30	D	15.10
272	KAPURTHALA	DHILWAN	S-NPP	31.52291	75.37611	13:05:30	D	10.30
273	KAPURTHALA	DHILWAN	S-NPP	31.52295	75.43877	13:05:30	D	15.10
274	KAPURTHALA	KAPURTHALA	S-NPP	31.39575	75.35503	13:05:30	D	21.80
275	KAPURTHALA	KAPURTHALA	S-NPP	31.43328	75.41229	13:05:30	D	15.20
276	KAPURTHALA	KAPURTHALA	S-NPP	31.43647	75.40693	13:05:30	D	9.00
277	KAPURTHALA	KAPURTHALA	S-NPP	31.44170	75.36946	13:05:30	D	8.40
278	KAPURTHALA	KAPURTHALA	S-NPP	31.44372	75.40043	13:05:30	D	15.00
279	KAPURTHALA	KAPURTHALA	AQUA	31.42700	75.39800	13:25:51	D	34.50
280	KAPURTHALA	KAPURTHALA	AQUA	31.43100	75.41800	13:25:51	D	48.70
281	KAPURTHALA	NADALA	S-NPP	31.53391	75.47135	13:05:30	D	19.10
282	KAPURTHALA	NADALA	S-NPP	31.55013	75.40447	13:05:30	D	9.40
283	KAPURTHALA	NADALA	S-NPP	31.58530	75.43050	13:05:30	D	8.10
284	KAPURTHALA	NADALA	S-NPP	31.61422	75.45409	13:05:30	D	8.90
285	KAPURTHALA	NADALA	S-NPP	31.61545	75.45333	13:05:30	D	9.80
286	KAPURTHALA	NADALA	S-NPP	31.62459	75.44236	13:05:30	D	9.60
287	KAPURTHALA	NADALA	S-NPP	31.62551	75.50367	13:05:30	D	11.70
288	KAPURTHALA	NADALA	S-NPP	31.62774	75.49904	13:05:30	D	11.20
289	KAPURTHALA	NADALA	S-NPP	31.62860	75.50321	13:05:30	D	10.80
290	KAPURTHALA	NADALA	S-NPP	31.63665	75.50100	13:05:30	D	10.60
291	KAPURTHALA	PHAGWARA	S-NPP	31.28316	75.75169	13:05:30	D	4.50
292	KAPURTHALA	PHAGWARA	S-NPP	31.28412	75.77735	13:05:30	D	2.90
293	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.17060	75.03043	13:05:30	D	12.20

294	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.17148	75.11997	13:05:30	D	8.50
295	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.17152	75.03490	13:05:30	D	12.20
296	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.19775	75.09854	13:05:30	D	9.10
297	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.19967	75.06499	13:05:30	D	5.40
298	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.33312	75.26671	13:05:30	D	4.30
299	LUDHIANA	DEHLON	S-NPP	30.71410	75.87568	13:05:30	D	3.30
300	LUDHIANA	DEHLON	S-NPP	30.71425	75.87605	13:05:30	D	3.00
301	LUDHIANA	DEHLON	S-NPP	30.80437	75.92535	13:05:30	D	4.00
302	LUDHIANA	DORAHA	S-NPP	30.72713	76.02687	13:05:30	D	6.00
303	LUDHIANA	DORAHA	S-NPP	30.73111	76.02580	13:05:30	D	6.00
304	LUDHIANA	JAGRAON	S-NPP	30.71241	75.40320	13:05:30	D	13.50
305	LUDHIANA	JAGRAON	S-NPP	30.75281	75.56075	13:05:30	D	6.50
306	LUDHIANA	JAGRAON	S-NPP	30.76051	75.56818	13:05:30	D	8.50
307	LUDHIANA	JAGRAON	S-NPP	30.76268	75.56708	13:05:30	D	8.20
308	LUDHIANA	JAGRAON	S-NPP	30.79107	75.52835	13:05:30	D	8.50
309	LUDHIANA	JAGRAON	S-NPP	30.80915	75.40504	13:05:30	D	5.50
310	LUDHIANA	JAGRAON	S-NPP	30.80974	75.51424	13:05:30	D	9.80
311	LUDHIANA	KHANNA	S-NPP	30.79599	76.09343	13:05:30	D	4.10
312	LUDHIANA	LUDHIANA-1	S-NPP	30.85527	75.76002	13:05:30	D	7.40
313	LUDHIANA	LUDHIANA-2	S-NPP	30.86649	76.04511	13:05:30	D	5.20
314	LUDHIANA	MACHHIWARA	S-NPP	30.90444	76.26527	13:05:30	D	11.20
315	LUDHIANA	MACHHIWARA	S-NPP	30.90722	76.25836	13:05:30	D	6.10
316	LUDHIANA	MACHHIWARA	S-NPP	30.91946	76.18478	13:05:30	D	10.00
317	LUDHIANA	MACHHIWARA	S-NPP	30.92291	76.26428	13:05:30	D	9.50
318	LUDHIANA	PAKHOWAL	S-NPP	30.70775	75.78190	13:05:30	D	14.60
319	LUDHIANA	PAKHOWAL	S-NPP	30.73833	75.76490	13:05:30	D	8.70
320	LUDHIANA	PAKHOWAL	S-NPP	30.73917	75.76907	13:05:30	D	8.70
321	LUDHIANA	PAKHOWAL	S-NPP	30.74321	75.76797	13:05:30	D	5.00
322	LUDHIANA	PAKHOWAL	S-NPP	30.76200	75.79800	13:05:30	D	6.20
323	LUDHIANA	RAIKOT	S-NPP	30.62597	75.56275	13:05:30	D	7.00
324	LUDHIANA	RAIKOT	S-NPP	30.67034	75.57861	13:05:30	D	7.80
325	LUDHIANA	RAIKOT	S-NPP	30.67298	75.65408	13:05:30	D	4.60
326	LUDHIANA	RAIKOT	S-NPP	30.68008	75.68272	13:05:30	D	3.80

327	LUDHIANA	RAIKOT	S-NPP	30.68199	75.65613	13:05:30	D	9.50
328	LUDHIANA	RAIKOT	S-NPP	30.70559	75.58257	13:05:30	D	8.10
329	LUDHIANA	SAMRALA	S-NPP	30.81029	76.18588	13:05:30	D	11.20
330	LUDHIANA	SIDHWAN BET	S-NPP	30.83408	75.42114	13:05:30	D	10.00
331	LUDHIANA	SIDHWAN BET	S-NPP	30.84465	75.40908	13:05:30	D	5.50
332	LUDHIANA	SIDHWAN BET	S-NPP	30.86916	75.39404	13:05:30	D	8.30
333	LUDHIANA	SIDHWAN BET	S-NPP	30.91046	75.59528	13:05:30	D	10.80
334	LUDHIANA	SIDHWAN BET	S-NPP	30.91200	75.45530	13:05:30	D	7.70
335	LUDHIANA	SIDHWAN BET	S-NPP	30.92281	75.46597	13:05:30	D	6.30
336	LUDHIANA	SIDHWAN BET	S-NPP	30.92311	75.63633	13:05:30	D	7.00
337	LUDHIANA	SIDHWAN BET	S-NPP	30.92397	75.64053	13:05:30	D	7.00
338	LUDHIANA	SIDHWAN BET	S-NPP	30.95079	75.64653	13:05:30	D	7.20
339	LUDHIANA	SIDHWAN BET	S-NPP	30.95314	75.63704	13:05:30	D	7.00
340	LUDHIANA	SIDHWAN BET	S-NPP	30.95327	75.40297	13:05:30	D	11.40
341	LUDHIANA	SIDHWAN BET	S-NPP	30.95424	75.57889	13:05:30	D	6.50
342	LUDHIANA	SIDHWAN BET	S-NPP	30.95465	75.40453	13:05:30	D	7.90
343	LUDHIANA	SIDHWAN BET	S-NPP	30.95517	75.38612	13:05:30	D	6.00
344	LUDHIANA	SIDHWAN BET	AQUA	30.82800	75.41400	13:25:51	D	24.00
345	LUDHIANA	SIDHWAN BET	AQUA	30.83600	75.45500	13:25:51	D	28.40
346	LUDHIANA	SUDHAR	S-NPP	30.73992	75.66724	13:05:30	D	8.40
347	LUDHIANA	SUDHAR	S-NPP	30.78784	75.65913	13:05:30	D	2.70
348	MANSA	BUDHLADA	S-NPP	29.93286	75.49330	13:05:30	D	5.30
349	MOGA	BAGHA PURANA	S-NPP	30.58789	75.01167	13:05:30	D	6.20
350	MOGA	BAGHA PURANA	S-NPP	30.66084	75.00719	13:05:30	D	11.90
351	MOGA	BAGHA PURANA	S-NPP	30.73002	74.95396	13:05:30	D	15.00
352	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.89668	75.35892	13:05:30	D	11.60
353	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.92380	75.29812	13:05:30	D	6.80
354	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.93620	75.16869	13:05:30	D	6.70
355	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.96189	75.25050	13:05:30	D	2.70
356	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.97830	75.28777	13:05:30	D	3.50
357	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.00535	75.27104	13:05:30	D	8.40
358	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.02512	75.13126	13:05:30	D	5.80
359	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.04451	75.18224	13:05:30	D	5.40



360	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.05832	75.16438	13:05:30	D	5.30
361	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.06247	75.16323	13:05:30	D	5.30
362	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	30.96400	75.09900	13:25:51	D	45.20
363	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	31.01200	75.25700	13:25:51	D	45.60
364	MOGA	KOT ISE KHAN AT DHARAMKOT	AQUA	31.02200	75.26100	13:25:51	D	25.80
365	MOGA	MOGA-1	S-NPP	30.70254	75.16362	13:05:30	D	9.10
366	MOGA	MOGA-1	S-NPP	30.73078	75.32025	13:05:30	D	6.00
367	MOGA	MOGA-1	S-NPP	30.76748	75.32880	13:05:30	D	6.70
368	MOGA	MOGA-1	S-NPP	30.81937	75.13254	13:05:30	D	10.80
369	MOGA	MOGA-1	S-NPP	30.82030	75.13702	13:05:30	D	10.80
370	MOGA	MOGA-1	S-NPP	30.85658	75.33305	13:05:30	D	8.70
371	MOGA	MOGA-1	S-NPP	30.85774	75.21165	13:05:30	D	4.40
372	MOGA	MOGA-1	S-NPP	30.86108	75.35487	13:05:30	D	10.30
373	MOGA	MOGA-2	S-NPP	30.74797	75.08433	13:05:30	D	12.30
374	MOGA	MOGA-2	S-NPP	30.79062	75.01606	13:05:30	D	8.30
375	MOGA	MOGA-2	S-NPP	30.87876	75.03484	13:05:30	D	5.10
376	MOGA	MOGA-2	S-NPP	30.88111	75.03183	13:05:30	D	10.20
377	MOGA	NIHAL SINGH	S-NPP	30.59269	75.29082	13:05:30	D	5.70
378	MOGA	NIHAL SINGH	S-NPP	30.60762	75.25493	13:05:30	D	6.20
379	MOGA	NIHAL SINGH	S-NPP	30.63627	75.26591	13:05:30	D	6.20
380	MOGA	NIHAL SINGH	S-NPP	30.71746	75.23512	13:05:30	D	7.30
381	MUKTSAR	LAMBI	S-NPP	30.01686	74.68829	13:05:30	D	6.30
382	MUKTSAR	LAMBI	S-NPP	30.03885	74.44776	13:05:30	D	20.30
383	MUKTSAR	LAMBI	S-NPP	30.09065	74.48354	13:05:30	D	5.50
384	MUKTSAR	LAMBI	S-NPP	30.10771	74.59757	13:05:30	D	6.60
385	MUKTSAR	LAMBI	S-NPP	30.12021	74.54688	13:05:30	D	10.60
386	MUKTSAR	MALOUT	S-NPP	30.16803	74.36568	13:05:30	D	9.60
387	MUKTSAR	MALOUT	S-NPP	30.25313	74.42454	13:05:30	D	5.20
388	MUKTSAR	MALOUT	S-NPP	30.28251	74.45338	13:05:30	D	9.10
389	MUKTSAR	MALOUT	S-NPP	30.29863	74.48579	13:05:30	D	10.30
390	MUKTSAR	MALOUT	S-NPP	30.31612	74.48087	13:05:30	D	6.30
391	MUKTSAR	MUKTSAR	S-NPP	30.41229	74.44344	13:05:30	D	5.20
392	MUKTSAR	MUKTSAR	S-NPP	30.41271	74.44115	13:05:30	D	14.20

393	MUKTSAR	MUKTSAR	S-NPP	30.41893	74.40988	13:05:30	D	20.00
394	MUKTSAR	MUKTSAR	S-NPP	30.41954	74.40749	13:05:30	D	24.50
395	MUKTSAR	MUKTSAR	S-NPP	30.43591	74.53106	13:05:30	D	19.00
396	MUKTSAR	MUKTSAR	S-NPP	30.43656	74.55484	13:05:30	D	24.90
397	MUKTSAR	MUKTSAR	S-NPP	30.43679	74.53398	13:05:30	D	18.70
398	MUKTSAR	MUKTSAR	S-NPP	30.43686	74.55677	13:05:30	D	14.30
399	MUKTSAR	MUKTSAR	S-NPP	30.46995	74.71494	13:05:30	D	9.50
400	MUKTSAR	MUKTSAR	S-NPP	30.47125	74.71634	13:05:30	D	7.60
401	MUKTSAR	MUKTSAR	S-NPP	30.49553	74.52991	13:05:30	D	14.80
402	MUKTSAR	MUKTSAR	S-NPP	30.51105	74.60310	13:05:30	D	9.50
403	MUKTSAR	MUKTSAR	S-NPP	30.51125	74.58241	13:05:30	D	3.50
404	MUKTSAR	MUKTSAR	S-NPP	30.51558	74.58118	13:05:30	D	6.00
405	PATHANKOT	BAMIAL	S-NPP	32.29176	75.38600	13:05:30	D	12.90
406	PATHANKOT	BAMIAL	AQUA	32.31900	75.34500	13:25:51	D	25.80
407	PATHANKOT	GHAROTA	S-NPP	32.18179	75.48586	13:05:30	D	4.50
408	PATHANKOT	GHAROTA	S-NPP	32.19143	75.49187	13:05:30	D	7.00
409	PATHANKOT	GHAROTA	S-NPP	32.19165	75.51351	13:05:30	D	4.80
410	PATHANKOT	GHAROTA	S-NPP	32.19227	75.49598	13:05:30	D	7.00
411	PATHANKOT	GHAROTA	S-NPP	32.19249	75.51762	13:05:30	D	6.30
412	PATHANKOT	GHAROTA	S-NPP	32.19865	75.49619	01:55:30	N	1.20
413	PATHANKOT	GHAROTA	S-NPP	32.25086	75.55758	13:05:30	D	6.70
414	PATHANKOT	GHAROTA	AQUA	32.15200	75.44500	13:25:51	D	29.00
415	PATHANKOT	GHAROTA	AQUA	32.19000	75.51500	13:25:51	D	22.90
416	PATHANKOT	GHAROTA	AQUA	32.19700	75.50700	13:25:51	D	26.40
417	PATHANKOT	NAROT JAIMAL SINGH	S-NPP	32.19268	75.45671	13:05:30	D	5.50
418	PATHANKOT	NAROT JAIMAL SINGH	S-NPP	32.21383	75.49869	13:05:30	D	5.70
419	PATHANKOT	NAROT JAIMAL SINGH	S-NPP	32.30817	75.42516	13:05:30	D	6.90
420	PATHANKOT	SUJANPUR	S-NPP	32.31665	75.56998	13:05:30	D	4.20
421	PATHANKOT	SUJANPUR	S-NPP	32.31748	75.57404	13:05:30	D	4.20
422	PATHANKOT	SUJANPUR	S-NPP	32.32374	75.56376	13:05:30	D	7.40
423	PATIALA	BHUNARHERI	S-NPP	30.27318	76.56386	13:05:30	D	12.30
424	PATIALA	PATIALA	S-NPP	30.38008	76.30991	13:05:30	D	18.10
425	PATIALA	PATRAN	S-NPP	29.83465	76.17586	13:05:30	D	5.90

426	PATIALA	SAMANA	S-NPP	30.07983	76.09502	13:05:30	D	8.40
427	PATIALA	SAMANA	S-NPP	30.19970	76.23127	13:05:30	D	8.40
428	PATIALA	SAMANA	S-NPP	30.20368	76.23022	13:05:30	D	10.30
429	RUPNAGAR	RUPNAGAR	S-NPP	31.03151	76.60944	13:05:30	D	5.60
430	RUPNAGAR	RUPNAGAR	S-NPP	31.12018	76.58390	13:05:30	D	9.60
431	SANGRUR	BHAWANIGARH	S-NPP	30.29533	75.99272	13:05:30	D	14.20
432	SANGRUR	LEHRA GAGA	S-NPP	29.93695	75.86085	13:05:30	D	3.10
433	SANGRUR	MALERKOTLA-1	S-NPP	30.42161	75.99487	13:05:30	D	8.50
434	SANGRUR	MALERKOTLA-1	S-NPP	30.46791	75.93071	13:05:30	D	6.40
435	SANGRUR	MALERKOTLA-1	S-NPP	30.47100	75.90379	13:05:30	D	5.60
436	SANGRUR	SANGRUR	S-NPP	30.25245	75.94760	13:05:30	D	17.70
437	SANGRUR	SANGRUR	S-NPP	30.26694	75.93504	13:05:30	D	4.30
438	SBS NAGAR	AUR	S-NPP	31.07150	75.97478	13:05:30	D	4.70
439	SBS NAGAR	AUR	S-NPP	31.12853	75.92554	13:05:30	D	7.30
440	SBS NAGAR	BANGA	S-NPP	31.15789	76.03172	13:05:30	D	5.80
441	SBS NAGAR	BANGA	S-NPP	31.17370	76.00647	13:05:30	D	5.50
442	SBS NAGAR	BANGA	AQUA	31.22400	76.00400	13:25:51	D	18.70
443	SBS NAGAR	NAWAN SHAHR	S-NPP	30.99973	76.15098	13:05:30	D	4.50
444	TARN TARAN	BHIKHIWIND	S-NPP	31.26313	74.72190	13:05:30	D	10.40
445	TARN TARAN	BHIKHIWIND	S-NPP	31.31253	74.72270	13:05:30	D	10.50
446	TARN TARAN	BHIKHIWIND	S-NPP	31.32438	74.59838	13:05:30	D	5.10
447	TARN TARAN	BHIKHIWIND	S-NPP	31.37012	74.58038	13:05:30	D	11.90
448	TARN TARAN	BHIKHIWIND	S-NPP	31.37951	74.66723	13:05:30	D	6.50
449	TARN TARAN	BHIKHIWIND	S-NPP	31.39732	74.60262	13:05:30	D	11.20
450	TARN TARAN	BHIKHIWIND	S-NPP	31.42632	74.69834	13:05:30	D	6.10
451	TARN TARAN	CHOHLA SAHIB	S-NPP	31.18938	74.97424	13:05:30	D	14.70
452	TARN TARAN	CHOHLA SAHIB	S-NPP	31.18962	74.97270	13:05:30	D	14.10
453	TARN TARAN	CHOHLA SAHIB	S-NPP	31.20550	74.94583	13:05:30	D	8.30
454	TARN TARAN	CHOHLA SAHIB	S-NPP	31.24782	74.95796	13:05:30	D	7.00
455	TARN TARAN	CHOHLA SAHIB	S-NPP	31.29041	74.91369	13:05:30	D	9.10
456	TARN TARAN	CHOHLA SAHIB	S-NPP	31.29233	74.91669	13:05:30	D	5.40
457	TARN TARAN	CHOHLA SAHIB	S-NPP	31.29463	74.99258	13:05:30	D	8.00
458	TARN TARAN	CHOHLA SAHIB	S-NPP	31.34607	75.07388	13:05:30	D	11.20

459	TARN TARAN	GANDIWIND TATLA	S-NPP	31.42861	74.68785	13:05:30	D	6.40
460	TARN TARAN	GANDIWIND TATLA	S-NPP	31.45200	74.67134	13:05:30	D	4.20
461	TARN TARAN	GANDIWIND TATLA	S-NPP	31.45425	74.67209	13:05:30	D	5.40
462	TARN TARAN	GANDIWIND TATLA	S-NPP	31.47886	74.64043	13:05:30	D	6.30
463	TARN TARAN	GANDIWIND TATLA	S-NPP	31.49704	74.62041	13:05:30	D	7.60
464	TARN TARAN	GANDIWIND TATLA	S-NPP	31.52204	74.76055	13:05:30	D	15.20
465	TARN TARAN	KHADUR SAHIB	S-NPP	31.39104	75.12221	13:05:30	D	7.70
466	TARN TARAN	KHADUR SAHIB	S-NPP	31.39184	75.16834	13:05:30	D	3.60
467	TARN TARAN	KHADUR SAHIB	S-NPP	31.39195	75.12660	13:05:30	D	7.70
468	TARN TARAN	KHADUR SAHIB	S-NPP	31.42418	75.07085	13:05:30	D	11.10
469	TARN TARAN	KHADUR SAHIB	S-NPP	31.42525	75.07295	13:05:30	D	21.30
470	TARN TARAN	KHADUR SAHIB	S-NPP	31.47250	75.15295	13:05:30	D	7.40
471	TARN TARAN	KHADUR SAHIB	S-NPP	31.49312	75.10542	13:05:30	D	4.90
472	TARN TARAN	KHADUR SAHIB	AQUA	31.42200	75.18400	13:25:51	D	27.40
473	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.32497	74.95191	13:05:30	D	6.90
474	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.32592	74.95642	13:05:30	D	6.90
475	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.36665	74.94023	13:05:30	D	22.10
476	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.36759	74.94474	13:05:30	D	22.10
477	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.37306	74.88569	13:05:30	D	8.30
478	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.39721	74.91727	13:05:30	D	7.30
479	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.39736	74.91985	13:05:30	D	6.70
480	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.41236	75.01292	13:05:30	D	8.80
481	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.41309	75.01519	13:05:30	D	7.40
482	TARN TARAN	PATTI	S-NPP	31.17852	74.81779	13:05:30	D	7.70
483	TARN TARAN	PATTI	S-NPP	31.18142	74.76800	13:05:30	D	6.10
484	TARN TARAN	PATTI	S-NPP	31.18176	74.87524	13:05:30	D	10.20
485	TARN TARAN	PATTI	S-NPP	31.18274	74.81661	13:05:30	D	7.70
486	TARN TARAN	PATTI	S-NPP	31.20968	74.94466	13:05:30	D	8.30
487	TARN TARAN	PATTI	S-NPP	31.21918	74.88422	13:05:30	D	9.90
488	TARN TARAN	PATTI	S-NPP	31.26030	74.76055	13:05:30	D	7.60
489	TARN TARAN	PATTI	S-NPP	31.26257	74.76138	13:05:30	D	9.60
490	TARN TARAN	PATTI	S-NPP	31.29205	74.87951	13:05:30	D	6.80
491	TARN TARAN	PATTI	S-NPP	31.31766	74.78989	13:05:30	D	7.80

492	TARN TARAN	TARN TARAN	S-NPP	31.38875	74.81635	13:05:30	D	5.40
493	TARN TARAN	TARN TARAN	S-NPP	31.41548	74.83786	13:05:30	D	6.70
494	TARN TARAN	TARN TARAN	S-NPP	31.43204	74.89576	13:05:30	D	5.00
495	TARN TARAN	TARN TARAN	S-NPP	31.43904	74.90815	13:05:30	D	5.80
496	TARN TARAN	TARN TARAN	S-NPP	31.44668	74.83873	13:05:30	D	10.40
497	TARN TARAN	TARN TARAN	S-NPP	31.45977	74.85912	13:05:30	D	8.30
498	TARN TARAN	TARN TARAN	S-NPP	31.46489	74.86249	13:05:30	D	8.30
499	TARN TARAN	TARN TARAN	S-NPP	31.50323	74.88164	13:05:30	D	3.90
500	TARN TARAN	TARN TARAN	S-NPP	31.51805	75.01415	13:05:30	D	3.40
501	TARN TARAN	TARN TARAN	AQUA	31.46100	74.85500	13:25:51	D	29.30
502	TARN TARAN	VALTOHA	S-NPP	31.08706	74.56327	13:05:30	D	8.70
503	TARN TARAN	VALTOHA	S-NPP	31.10036	74.73476	13:05:30	D	5.30
504	TARN TARAN	VALTOHA	S-NPP	31.10396	74.70896	13:05:30	D	8.90
505	TARN TARAN	VALTOHA	S-NPP	31.11342	74.71124	13:05:30	D	5.80
506	TARN TARAN	VALTOHA	S-NPP	31.15797	74.63583	13:05:30	D	7.90
507	TARN TARAN	VALTOHA	S-NPP	31.19172	74.64627	13:05:30	D	6.50

### Details of residue burning events in Haryana on 15-May-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	FATEHABAD	FATEHABAD	S-NPP	29.61892	75.35757	13:05:30	D	4.30
2	HISAR	AADAMPUR	S-NPP	29.29956	75.36097	13:05:30	D	6.70
3	JHAJJAR	BAHADURGARH	S-NPP	28.52061	76.85558	01:55:30	N	0.80
4	JHAJJAR	JHAJJAR	S-NPP	28.49903	76.79684	13:05:30	D	30.60
5	JIND	NARWANA	S-NPP	29.63471	76.16601	13:05:30	D	1.80
6	KAITHAL	GUHLA	S-NPP	29.96181	76.32543	13:05:30	D	5.40
7	KAITHAL	GUHLA	S-NPP	29.99050	76.23781	13:05:30	D	6.20
8	KAITHAL	GUHLA	S-NPP	30.13193	76.40207	13:05:30	D	5.40
9	KAITHAL	PUNDRI	AQUA	29.87200	76.59100	13:25:51	D	23.30
10	KAITHAL	PUNDRI	AQUA	29.87900	76.58400	13:25:51	D	34.30
11	KAITHAL	RAJOUND	S-NPP	29.57798	76.51498	13:05:30	D	5.80
12	KAITHAL	SIWAN	S-NPP	29.89886	76.22324	13:05:30	D	5.30
13	KARNAL	CHIRAO	S-NPP	29.72176	76.85803	13:05:30	D	16.90
14	KARNAL	KARNAL	S-NPP	29.64139	77.07056	13:05:30	D	5.20
15	KARNAL	KARNAL	S-NPP	29.64164	77.06837	13:05:30	D	6.50
16	KARNAL	KARNAL	S-NPP	29.78218	77.00165	13:05:30	D	9.20
17	KARNAL	KARNAL	S-NPP	29.80068	77.11846	13:05:30	D	4.40
18	ROHTAK	KALANAUR	S-NPP	28.78344	76.47487	13:05:30	D	4.90
19	ROHTAK	LAKHAN MAJRA	S-NPP	29.05375	76.43645	13:05:30	D	8.20
20	SIRSA	BARAGUNDA	S-NPP	29.58373	74.99806	13:05:30	D	9.10
21	SIRSA	DABWALI	S-NPP	29.95072	74.80944	13:05:30	D	3.70
22	SIRSA	DABWALI	S-NPP	29.95081	74.80759	13:05:30	D	5.00
23	SONIPAT	GOHANA	S-NPP	29.02957	76.74335	13:05:30	D	5.10
24	SONIPAT	GOHANA	S-NPP	29.03032	76.74727	13:05:30	D	5.10
25	SONIPAT	GOHANA	S-NPP	29.03062	76.74297	13:05:30	D	5.60
26	SONIPAT	GOHANA	S-NPP	29.03139	76.74687	13:05:30	D	5.60
27	YAMUNANAGAR	MUSTAFABAD	S-NPP	30.25328	77.15508	13:05:30	D	5.90

### Details of residue burning events in Uttar Pradesh on 15-May-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	AURAIYA	AURAIYA	S-NPP	26.61272	79.41893	01:55:30	N	0.60
2	AURAIYA	AURAIYA	S-NPP	26.61331	79.41502	01:55:30	N	0.60
3	FATEHPUR	BINKI	S-NPP	26.03879	80.71862	01:55:30	N	0.70
4	FATEHPUR	FATEHPUR	S-NPP	25.79105	80.65575	01:55:30	N	0.60
5	FATEHPUR	KHAGA	S-NPP	25.68202	80.97879	01:55:30	N	0.80
6	GORAKHPUR	BANSGAON	AQUA	26.46900	83.42200	13:25:51	D	10.10
7	HARDOI	SANDILA	S-NPP	26.94806	80.36736	01:55:30	N	0.70
8	HARDOI	SANDILA	S-NPP	26.95137	80.36801	01:55:30	N	0.70
9	HARDOI	SANDILA	S-NPP	26.95738	80.37314	01:55:30	N	1.40
10	KANPUR DEHAT	DERAPUR	S-NPP	26.42998	79.79715	01:55:30	N	0.40
11	MEERUT	MAWANA	S-NPP	29.09971	78.03037	13:05:30	D	5.60
12	MEERUT	MEERUT	S-NPP	28.90577	77.80598	13:05:30	D	4.40
13	RAMPUR	SUAR	AQUA	29.10300	79.14600	13:25:51	D	9.30
14	UNNAO	BIGHAPUR	S-NPP	26.40734	80.77230	01:55:30	N	0.70
15	UNNAO	SAFIPUR	S-NPP	26.97587	80.25362	01:55:30	N	0.70

## Details of wheat residue burning events in Madhya Pradesh on 15-May-2023

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BETUL	MULTAI	S-NPP	21.76030	78.03529	13:05:30	D	4.30
2	BETUL	MULTAI	S-NPP	21.76534	78.10744	13:05:30	D	1.60
3	BETUL	MULTAI	S-NPP	21.76568	78.10787	13:05:30	D	2.90
4	BHOPAL	BERASIYA	S-NPP	23.56562	77.47652	01:55:30	N	5.20
5	BURHANPUR	KHAKNAR	S-NPP	21.29033	76.33528	13:05:30	D	6.10
6	CHHATARPUR	RAJNAGAR	S-NPP	24.76973	79.93739	01:55:30	N	4.00
7	CHHATARPUR	RAJNAGAR	AQUA	24.89900	79.85900	13:25:51	D	12.70
8	CHHATARPUR	RAJNAGAR	AQUA	24.90300	79.86400	13:25:51	D	13.60
9	CHHINDWARA	AMARWARA	S-NPP	22.57697	79.21165	13:05:30	D	8.40
10	CHHINDWARA	CHAURAI	S-NPP	22.02794	79.18504	13:05:30	D	12.80
11	CHHINDWARA	PARASIA	S-NPP	22.06068	78.84116	13:05:30	D	4.60
12	DATIA	SEONDHA	S-NPP	25.95476	78.65168	13:05:30	D	6.70
13	DHAR	MANAWAR	S-NPP	22.26380	75.13282	01:55:30	N	1.10
14	DINDORI	DINDORI	S-NPP	22.80045	81.30745	13:05:30	D	5.50
15	GUNA	RAGHOGARH	S-NPP	24.43278	77.23126	13:05:30	D	9.30
16	GWALIOR	BHITARWAR	S-NPP	25.72307	78.05901	01:55:30	N	7.10
17	GWALIOR	BHITARWAR	S-NPP	25.72366	78.05487	01:55:30	N	13.60
18	GWALIOR	BHITARWAR	S-NPP	25.72651	78.05959	01:55:30	N	7.10
19	GWALIOR	BHITARWAR	S-NPP	25.76143	78.07670	01:55:30	N	3.20
20	GWALIOR	BHITARWAR	S-NPP	25.76772	78.08201	01:55:30	N	2.60
21	GWALIOR	BHITARWAR	S-NPP	25.77057	78.08672	01:55:30	N	2.60
22	GWALIOR	BHITARWAR	S-NPP	25.77115	78.08260	01:55:30	N	2.60
23	GWALIOR	DABRA	S-NPP	25.95964	78.28419	13:05:30	D	21.40
24	HOSHANGABAD	SEONI MALWA	S-NPP	22.58156	77.50137	13:05:30	D	16.40
25	JABALPUR	JABALPUR	AQUA	23.34300	80.07200	13:25:51	D	20.80
26	JABALPUR	MAJHOULI	S-NPP	23.52415	80.14213	13:05:30	D	9.10
27	MANDLA	NAINPUR	S-NPP	22.45705	80.34380	13:05:30	D	10.10
28	MANDSAUR	SITAMAU	S-NPP	24.00406	75.44389	13:05:30	D	8.30
29	MORENA	KAILARAS	S-NPP	26.32150	77.54830	13:05:30	D	64.40
30	RAISEN	GOHARGANJ	S-NPP	22.97868	77.75631	13:05:30	D	10.80



31	RAISEN	GOHARGANJ	S-NPP	23.21949	77.60439	13:05:30	D	8.50
32	RAJGARH	BIYAVRA	S-NPP	23.81575	77.19479	01:55:30	N	3.50
33	RAJGARH	BIYAVRA	S-NPP	23.81698	77.19340	01:55:30	N	3.90
34	RAJGARH	BIYAVRA	S-NPP	24.06441	77.14531	01:55:30	N	3.20
35	RATLAM	RATLAM	S-NPP	23.51006	75.02861	13:05:30	D	3.80
36	REWA	HUZUR	S-NPP	24.59042	81.30908	01:55:30	N	0.60
37	REWA	HUZUR	S-NPP	24.62778	81.27914	01:55:30	N	0.90
38	SAGAR	BANDA	S-NPP	24.38652	78.98991	13:05:30	D	19.90
39	SATNA	AMARPATAN	S-NPP	24.46350	81.10503	01:55:30	N	0.60
40	SATNA	NAGOD	AQUA	24.63300	80.58700	13:25:51	D	13.00
41	SATNA	RAMPURBAGHLEAN	AQUA	24.55500	81.11400	13:25:51	D	52.60
42	SATNA	RAMPURBAGHLEAN	AQUA	24.55700	81.10800	13:25:51	D	13.10
43	SATNA	RAMPURBAGHLEAN	AQUA	24.55900	81.12000	13:25:51	D	19.20
44	SEONI	KEWLARI	S-NPP	22.42961	79.90348	13:05:30	D	32.50
45	SEONI	SEONI	S-NPP	22.23470	79.74824	13:05:30	D	11.60
46	SEONI	SEONI	S-NPP	22.26200	79.74768	13:05:30	D	13.10
47	SEONI	SEONI	S-NPP	22.31187	79.74487	13:05:30	D	20.10
48	SEONI	SEONI	AQUA	22.25800	79.74900	13:25:51	D	20.40
49	SHAJAPUR	KALA PIPAL	S-NPP	23.19756	76.85352	13:05:30	D	8.30
50	SHAJAPUR	KALA PIPAL	S-NPP	23.30473	76.81592	01:55:30	N	2.50
51	SHAJAPUR	MOMAN BARODIY	S-NPP	23.68164	76.31711	01:55:30	N	0.70
52	SHAJAPUR	SUJALPUR	S-NPP	23.27791	76.66278	13:05:30	D	2.70
53	SHIVPURI	NARWAR	S-NPP	25.60151	78.24893	13:05:30	D	17.30
54	SHIVPURI	SHIVPURI	S-NPP	25.37761	77.65549	13:05:30	D	5.10
55	UJJAIN	GHATIYA	S-NPP	23.38372	75.93505	01:55:30	N	1.50
56	UJJAIN	KACHROD	S-NPP	23.39344	75.26577	01:55:30	N	1.10
57	UJJAIN	KACHROD	S-NPP	23.49066	75.31823	01:55:30	N	1.00
58	UJJAIN	MEHIDPUR	S-NPP	23.51275	75.63367	13:05:30	D	8.50
59	UJJAIN	TARANA	S-NPP	23.52005	75.93979	13:05:30	D	8.10
60	UJJAIN	TARANA	S-NPP	23.52197	75.93669	13:05:30	D	22.20
61	UJJAIN	TARANA	S-NPP	23.52360	75.93340	13:05:30	D	8.10
62	UJJAIN	TARANA	S-NPP	23.52466	75.93867	13:05:30	D	8.10
63	VIDESHA	KORWAI	S-NPP	23.97754	78.12950	01:55:30	N	5.50
64	VIDESHA	VIDESHA	S-NPP	23.49042	77.78703	13:05:30	D	6.90

65	VIDESHA	VIDESHA	S-NPP	23.49121	77.79111	13:05:30	D	12.60
66	VIDESHA	VIDESHA	S-NPP	23.57921	77.72720	01:55:30	N	5.50
67	VIDESHA	VIDESHA	S-NPP	23.59230	77.73351	01:55:30	N	5.00
68	WEST NIMAR	BHIKANGAON	S-NPP	21.79228	75.90952	13:05:30	D	15.00
69	WEST NIMAR	KASRAWAD	S-NPP	22.05595	75.55669	13:05:30	D	11.40

**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)

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