



Bulletin No. 40

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10-May-2022

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11-May-2022



MONITORING WHEAT RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2022



Prepared by:

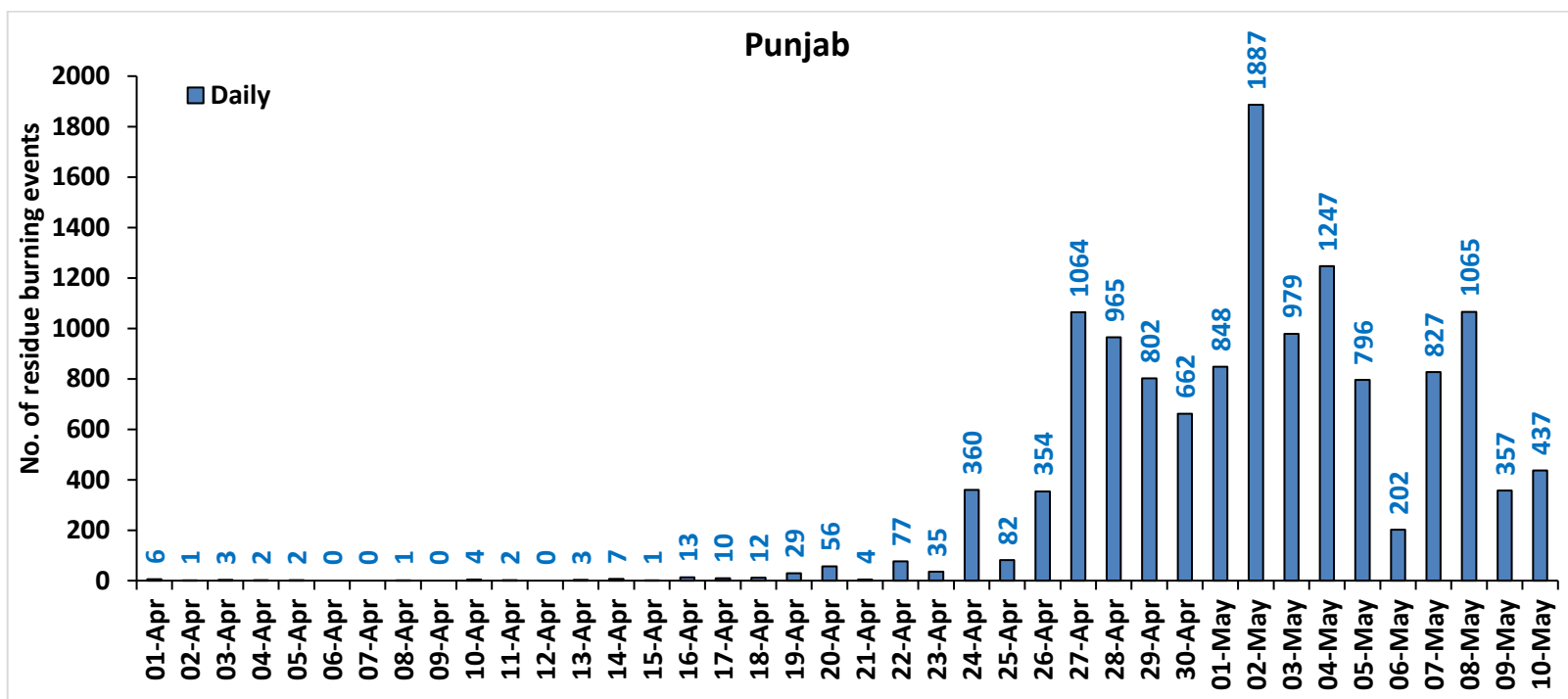
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

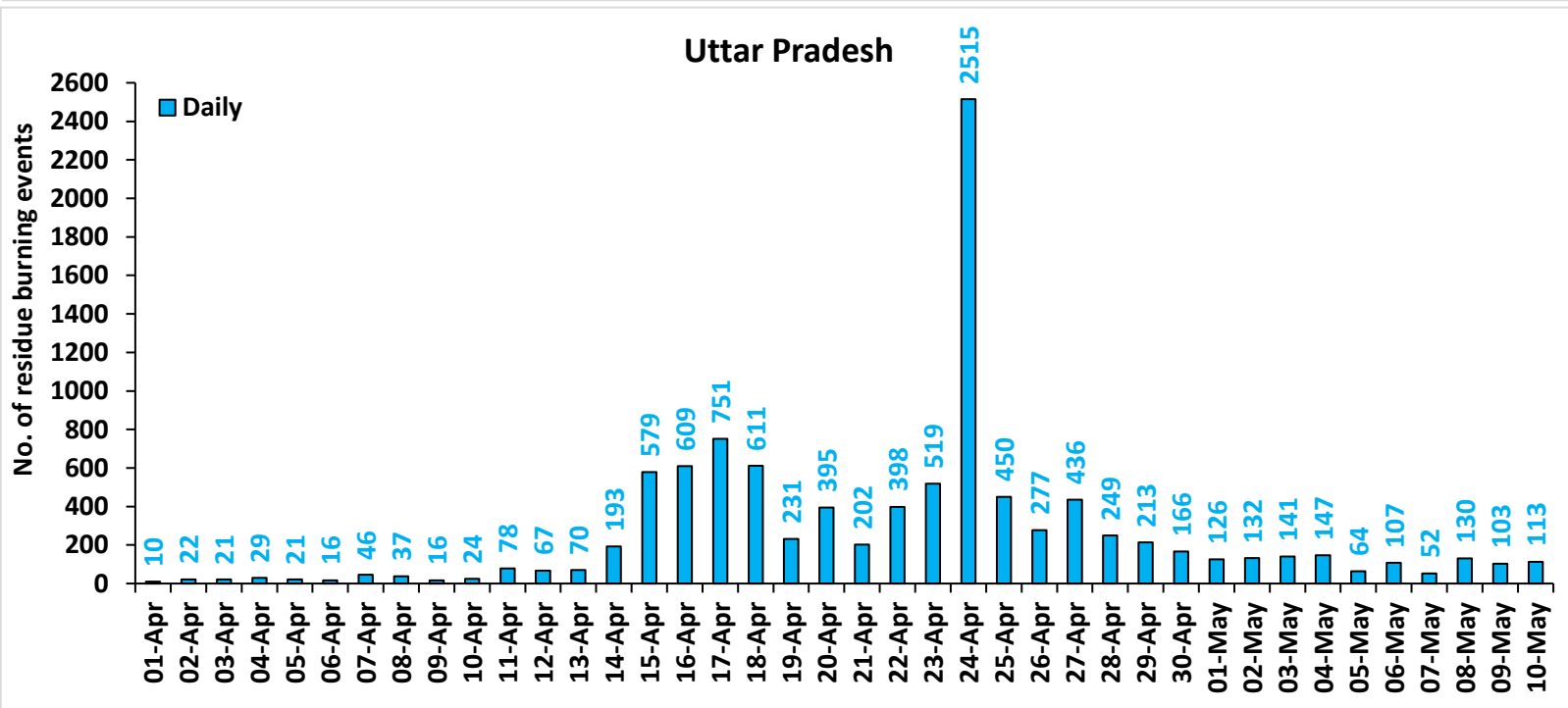
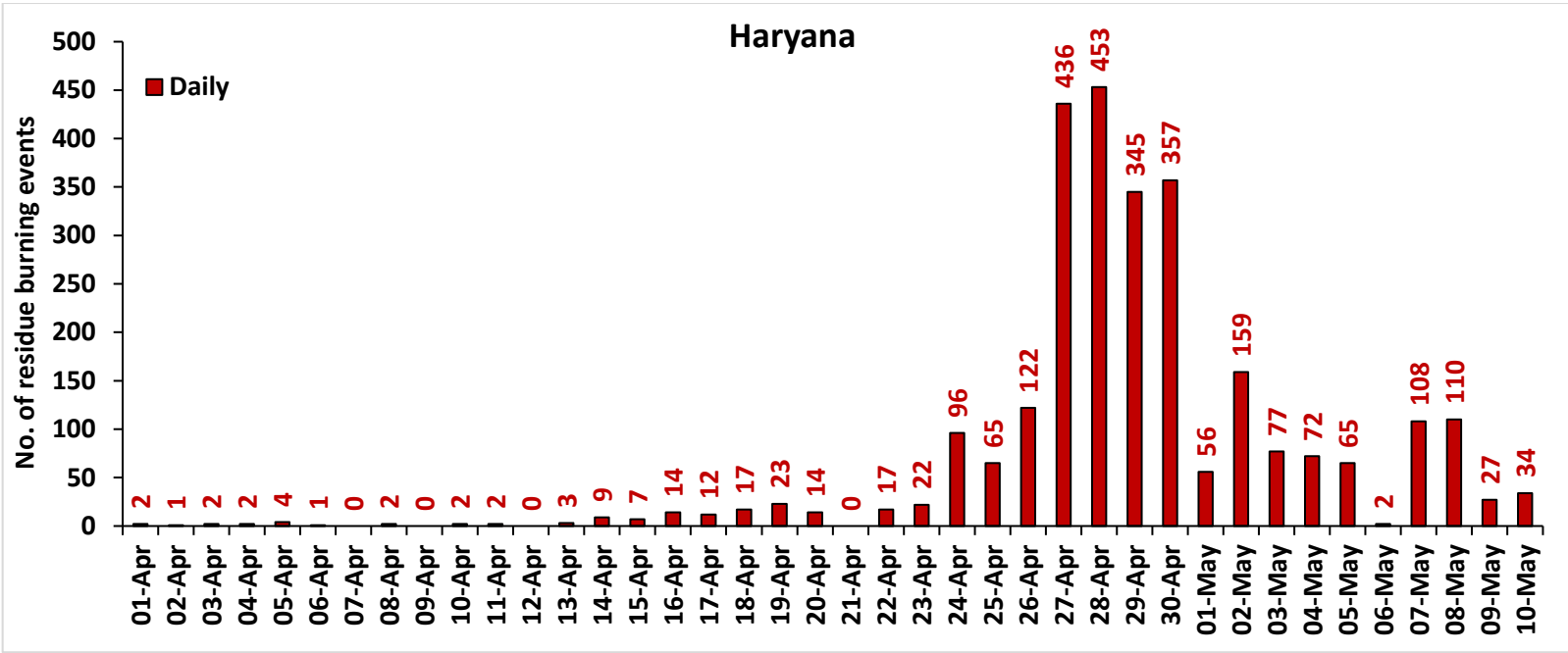
<http://creams.iari.res.in>

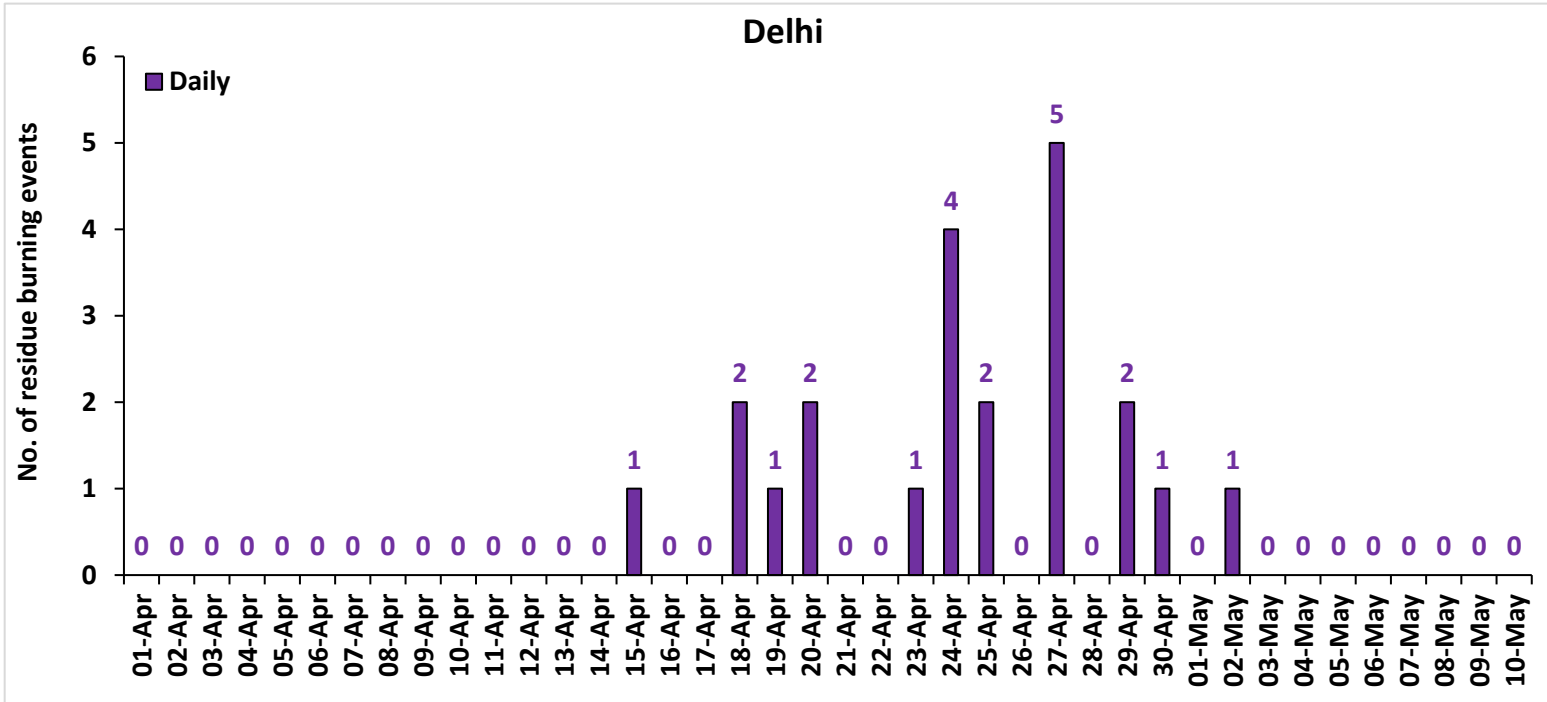
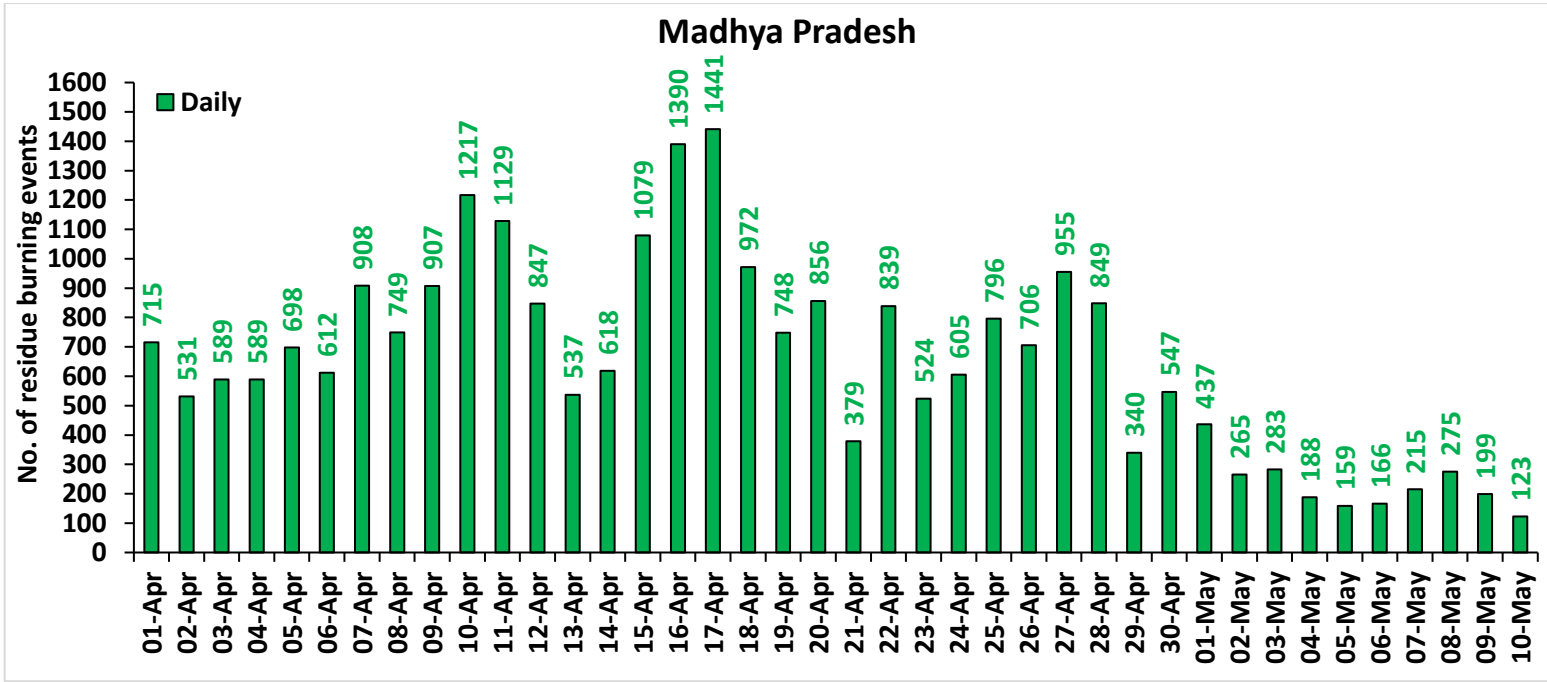
Highlights for 10-May-2022

- 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 **707** residue burning events in the five study States on 10-May-2022.
- The state wise events detected on 10-May-2022 were **437** in Punjab, **34** in Haryana, **00** in Delhi, **113** in Uttar Pradesh and **123** in Madhya Pradesh.
- The number of events has increased from **686** on 09-May-2022 to **707** on 10-May-2022 in the five study states.
- Total **52312** burning events were detected in the five states between 01-Apr-2022 and 10-May-2022, which are distributed as **13202**, **2740**, **10366**, **22**, and **25982** in Punjab, Haryana, UP, Delhi, and MP, respectively.

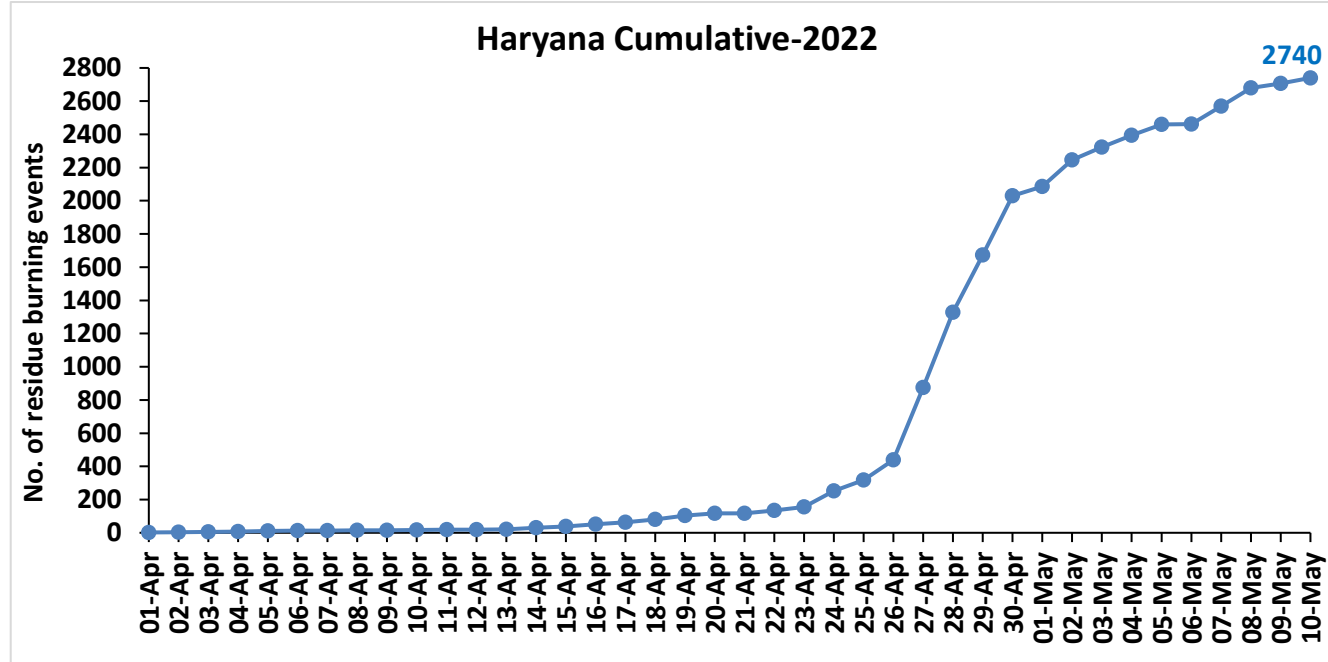
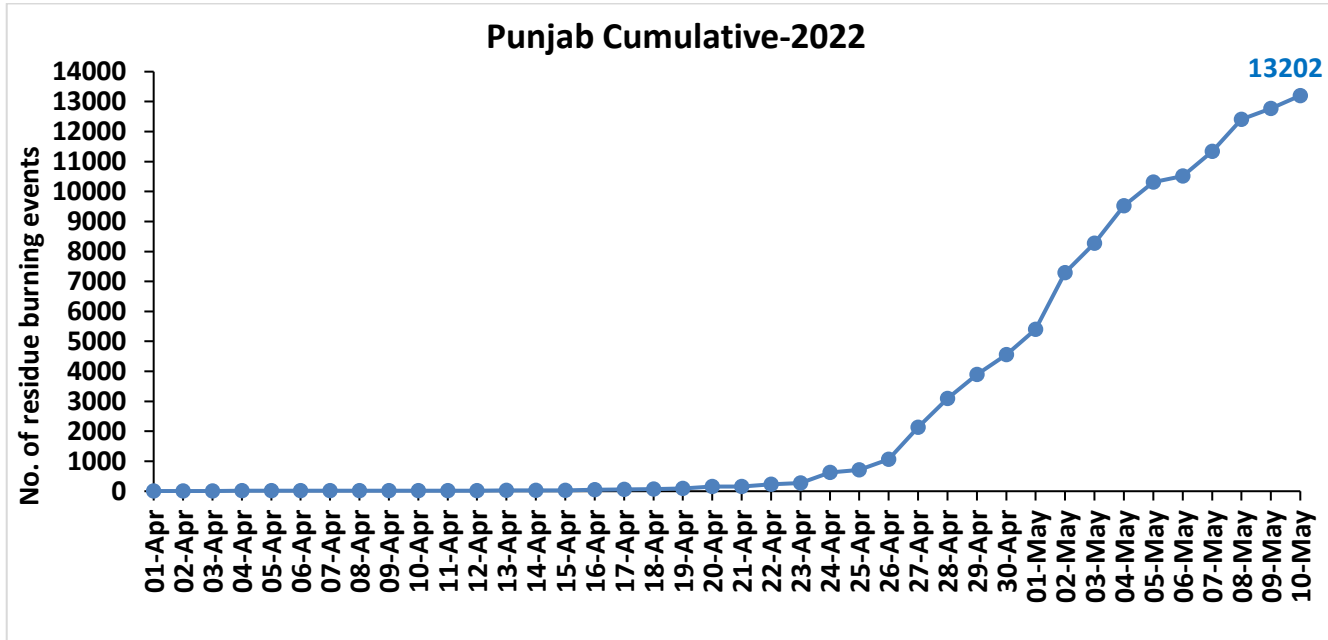
Temporal distribution of wheat residue burning events for the study States in 2022



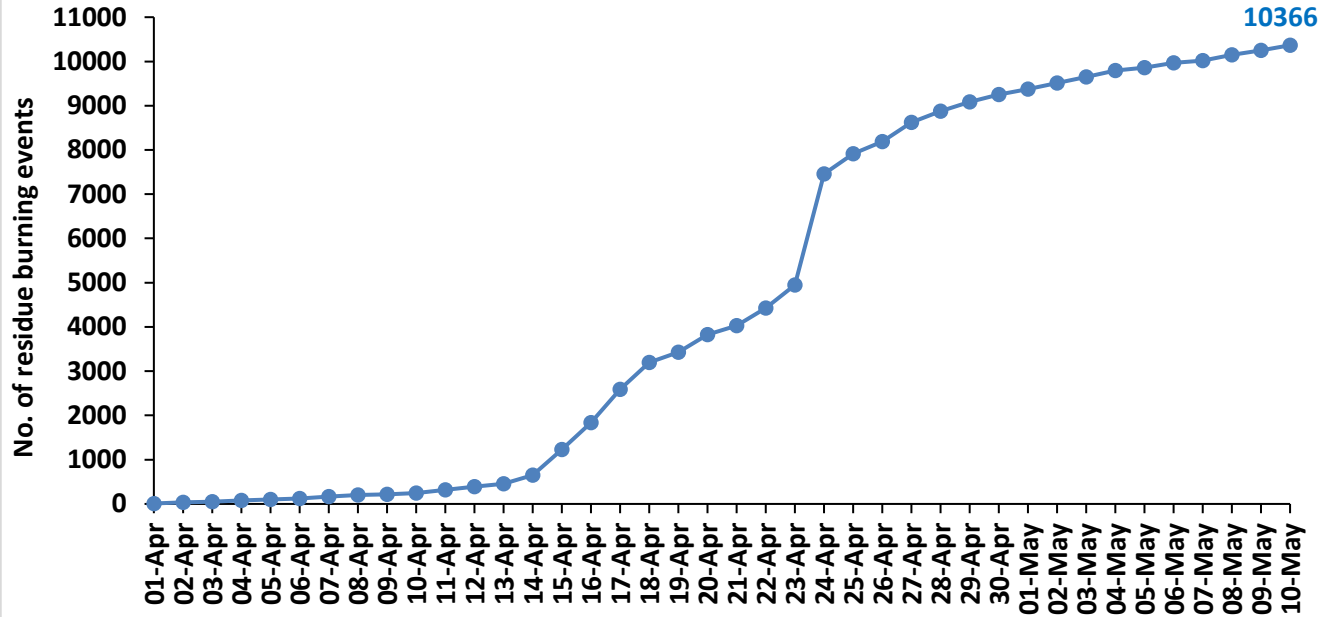




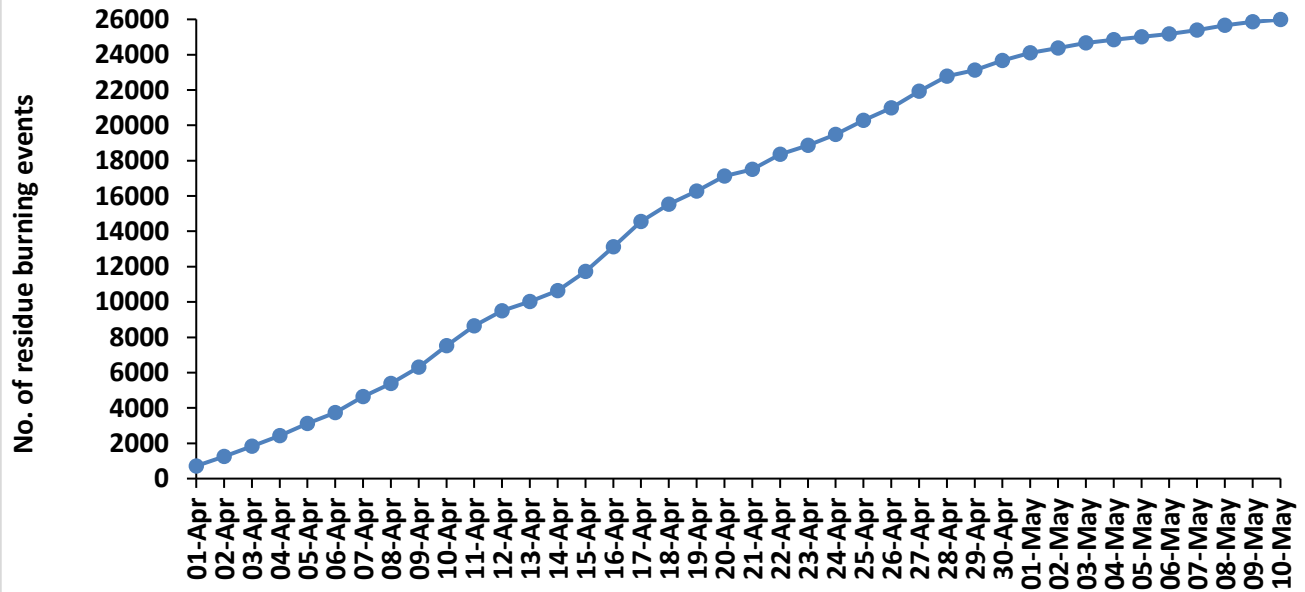
Cumulative Wheat Residue burning events in current year (2022) for the study States



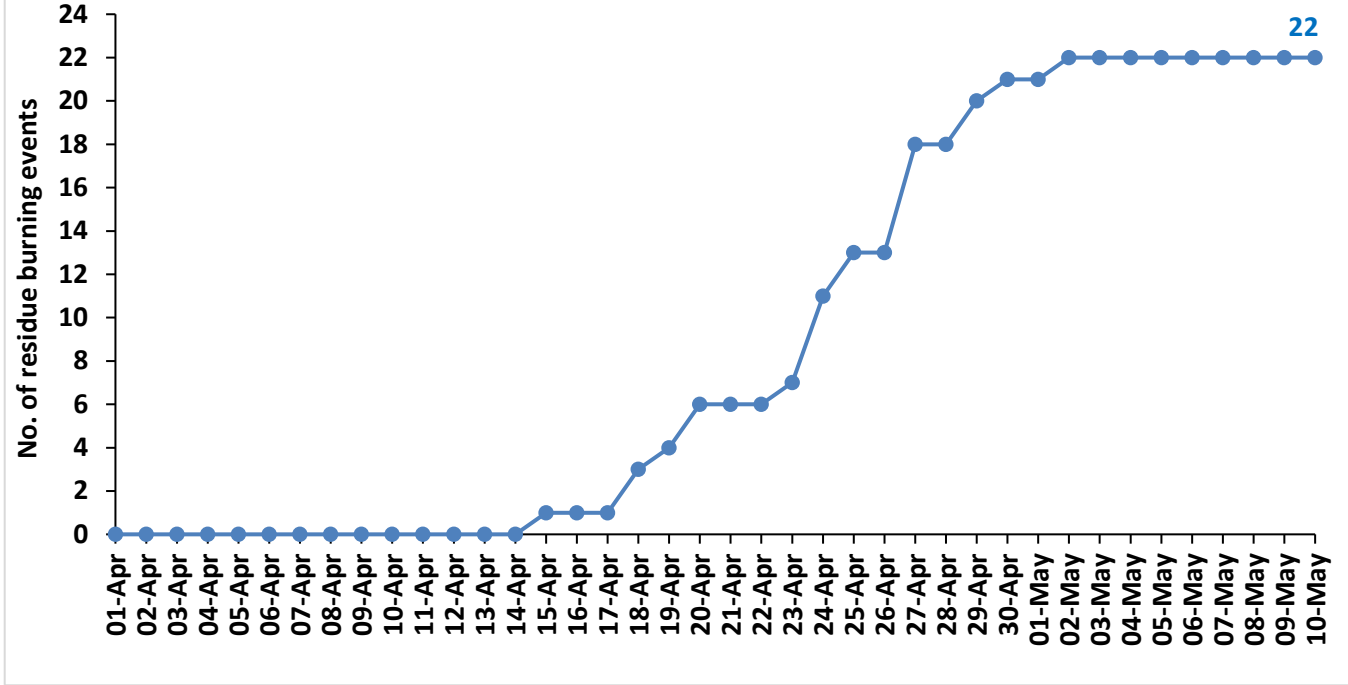
Uttar Pradesh Cumulative-2022



Madhya Pradesh Cumulative-2022

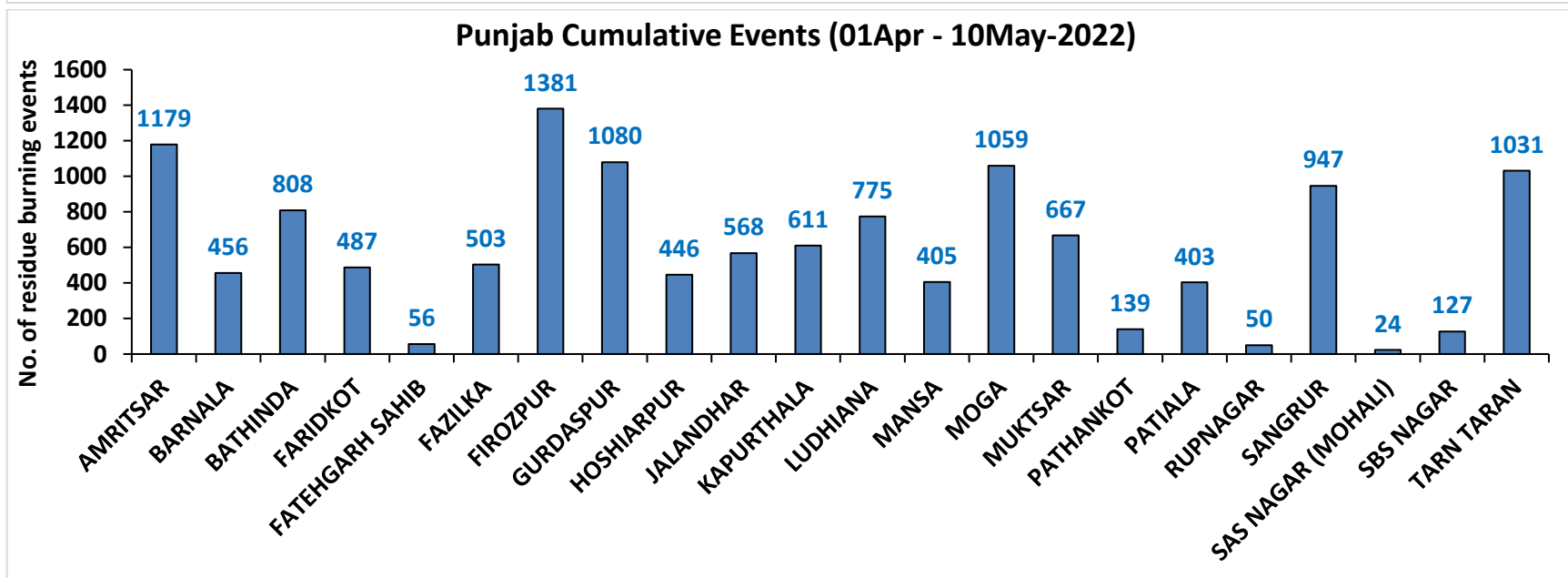
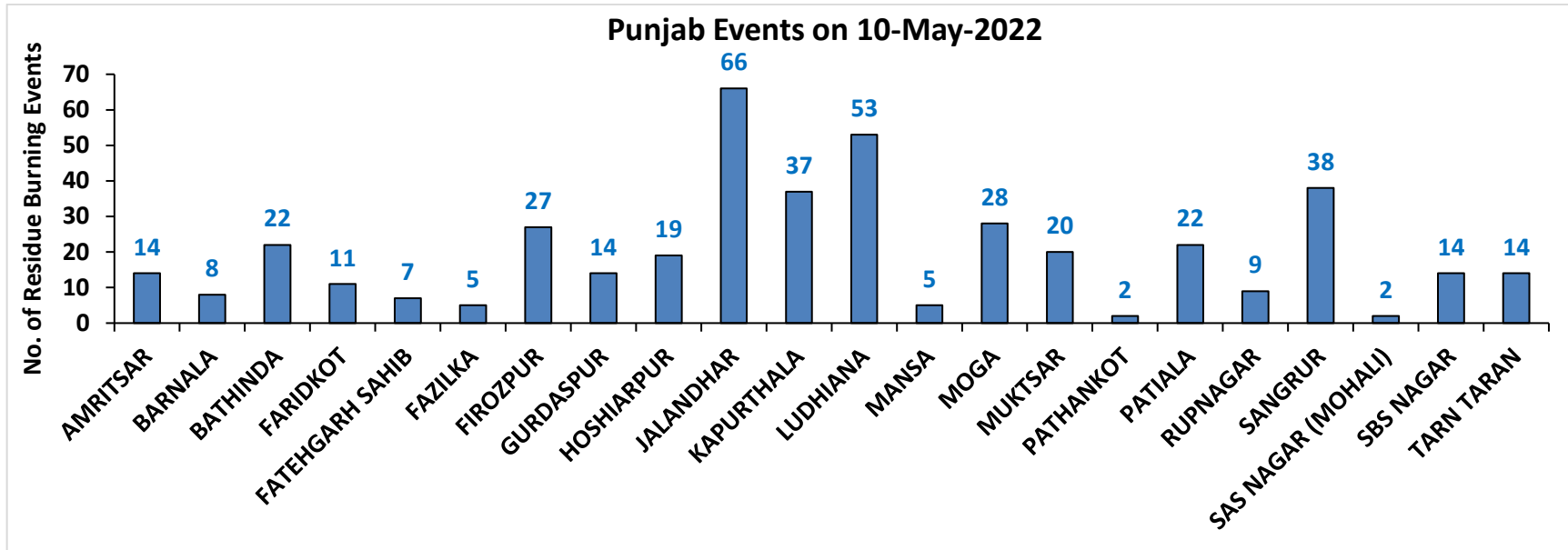


Delhi Cumulative-2022



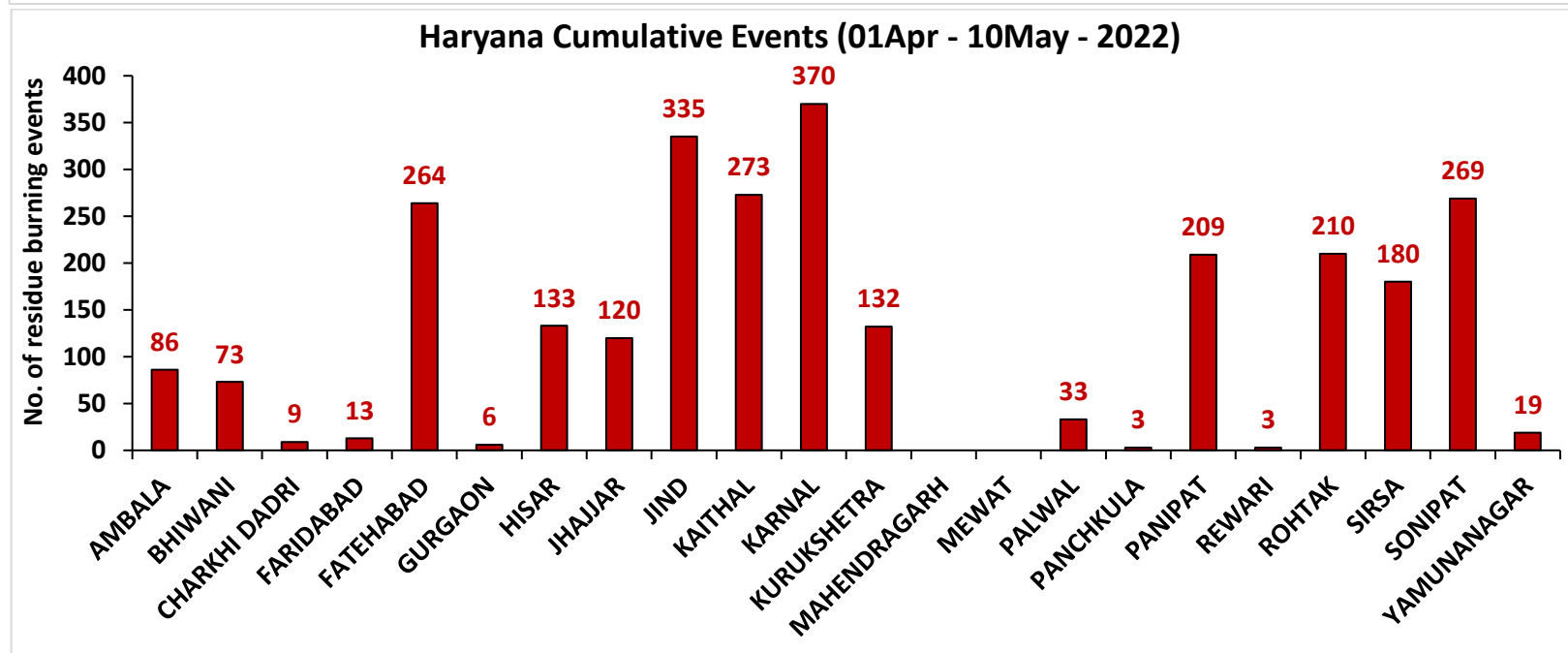
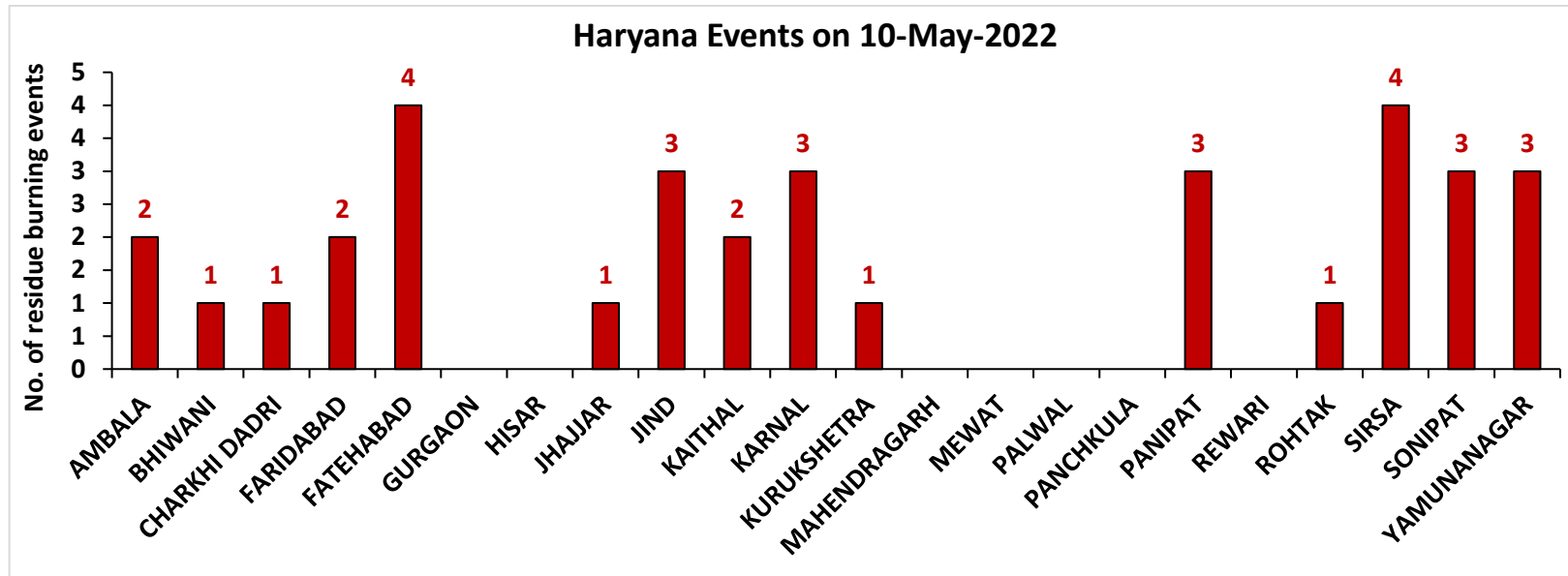
Punjab

District-wise cumulative number of wheat residue burning events in Punjab (01 Apr-10 May-2022)



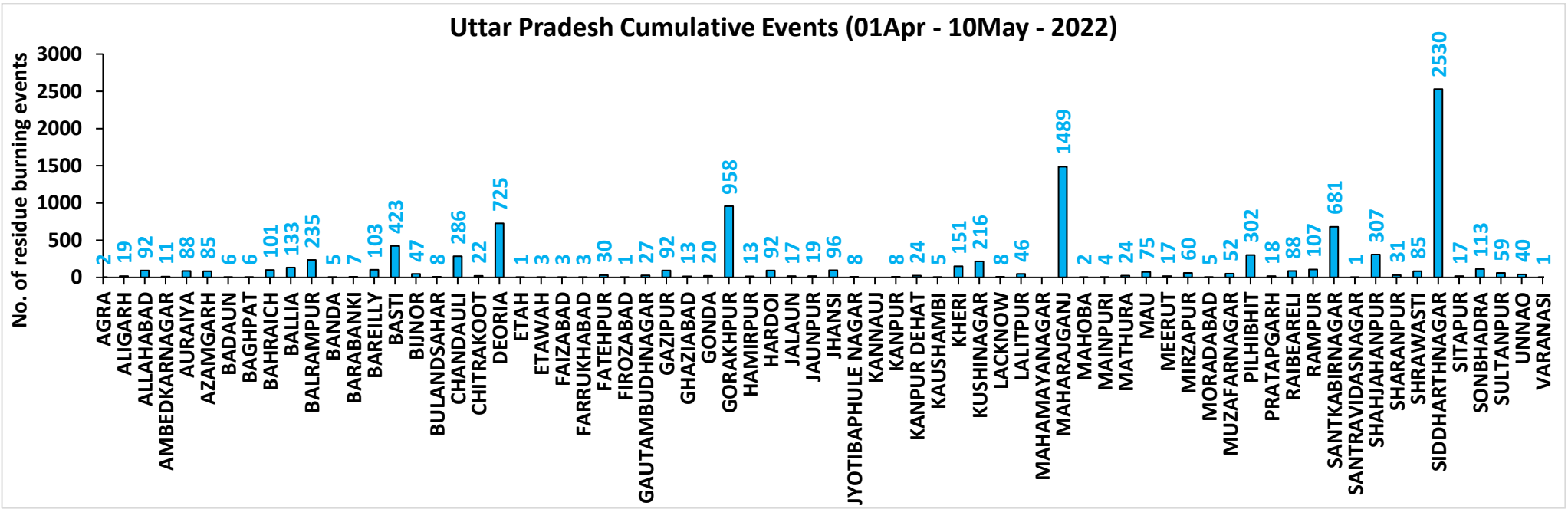
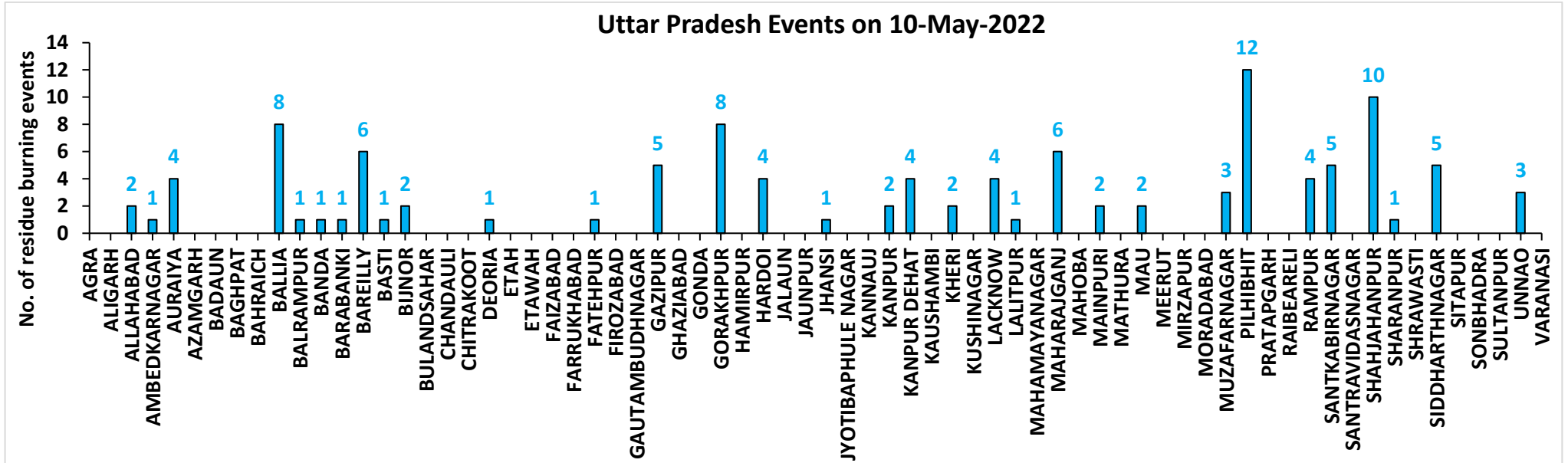
Haryana

District-wise cumulative number of residue burning events in Haryana (01 Apr-10 May-2022)



Uttar Pradesh

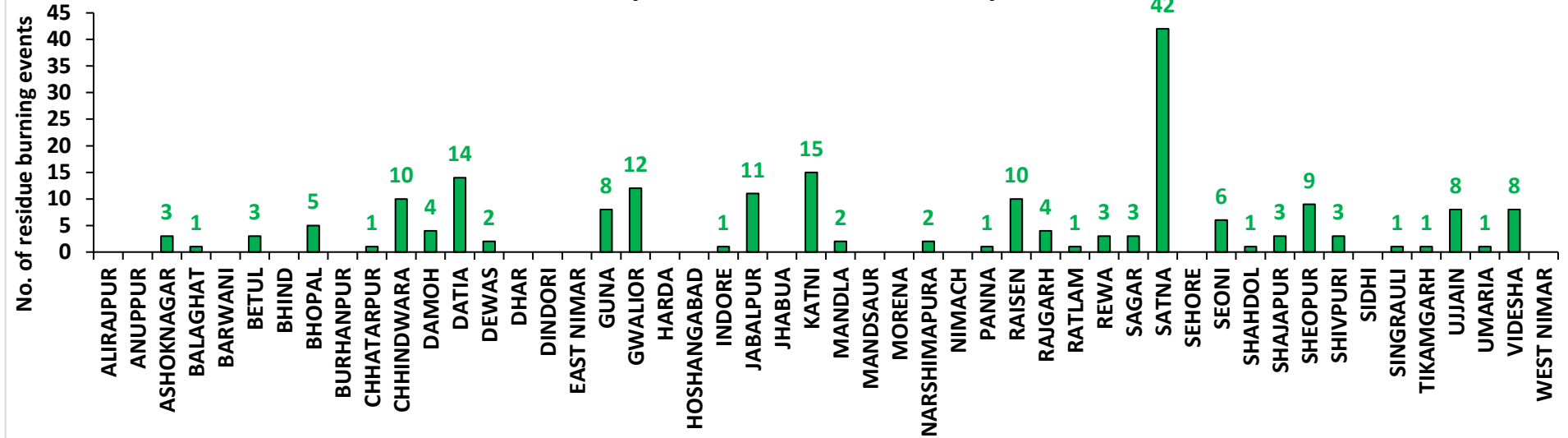
District-wise cumulative number of wheat residue burning events in Uttar Pradesh (01 Apr-10 May-2022)



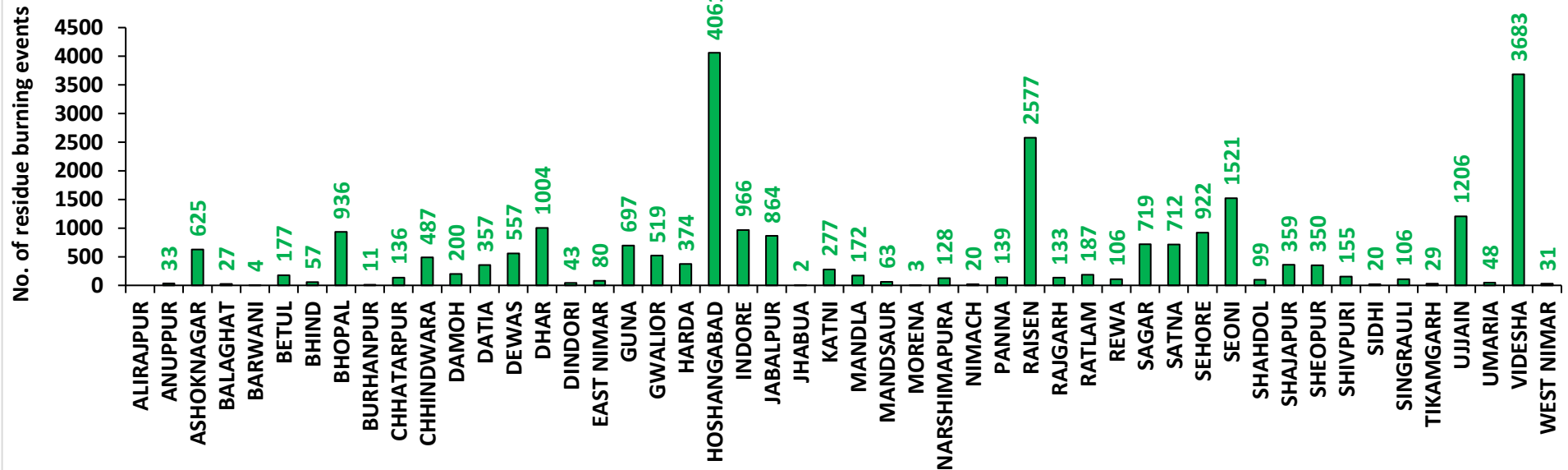
Madhya Pradesh

District-wise cumulative number of wheat residue burning events in Madhya Pradesh (01 Apr-10 May-2022)

Madhya Pradesh Events on 10-May-2022

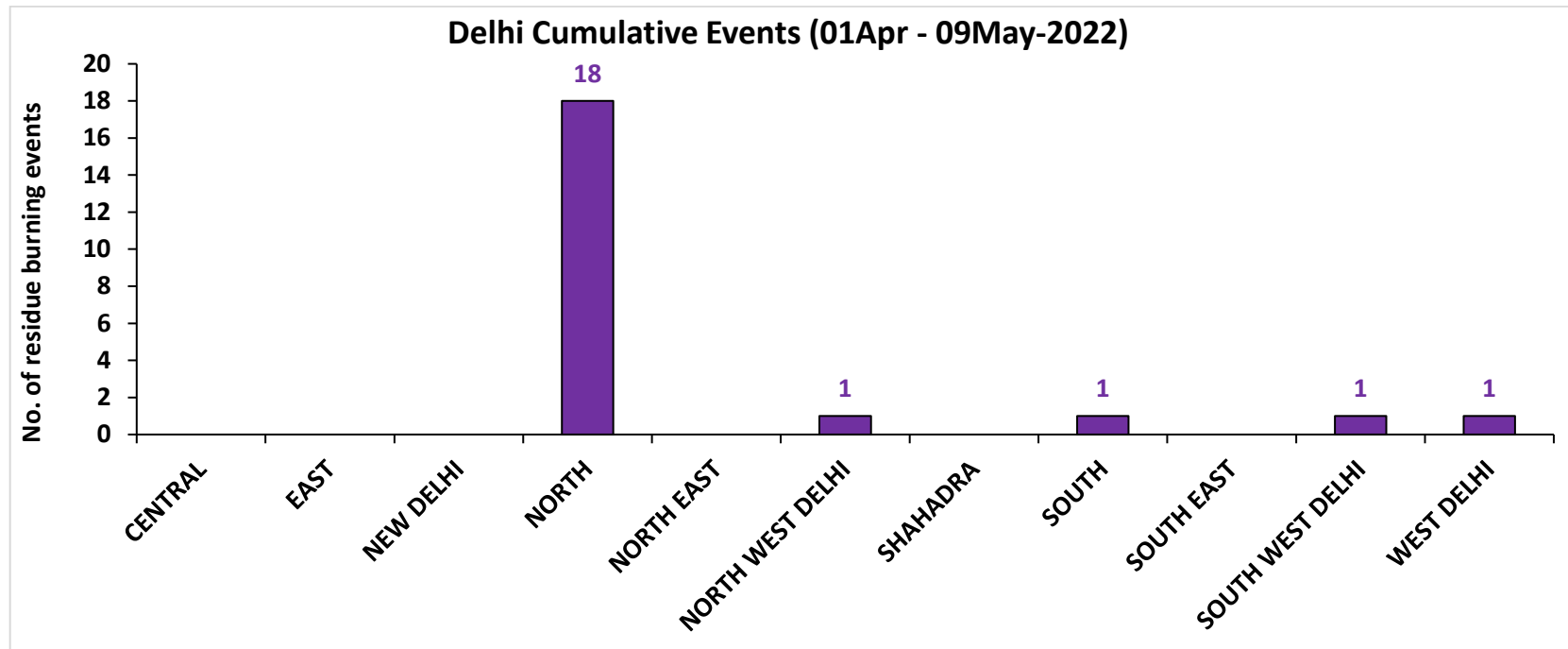


Madhya Pradesh Cumulative Events (01Apr - 10May - 2022)



Delhi

District-wise cumulative number of wheat residue burning events in Delhi (01 Apr-10 May-2022)



District-wise cumulative number of wheat residue burning events detected in 2022

(Period: 01 April – 10 May)

(a) Punjab

District	01Apr-10 May
	Year 2022
Amritsar	1179
Barnala	456
Bathinda	808
Faridkot	487
Fatehgarh Sahib	56
Fazilka	503
Firozpur	1381
Gurdaspur	1080
Hoshiarpur	446
Jalandhar	568
Kapurthala	611
Ludhiana	775
Mansa	405
Moga	1059
Muktsar	667
Pathankot	139
Patiala	403
Rupnagar	50
Sangrur	947
SAS NAGAR (Mohali)	24
SBS Nagar	127
Tarn Taran	1031
Total	13202

(b) Haryana

District	01Apr-10 May
	Year 2022
Ambala	86
Bhiwani	73
Charkhi Dadri	9
Faridabad	13
Fatehabad	264
Gurgaon	6
Hisar	133
Jhajjar	120
Jind	335
Kaithal	273
Karnal	370
Kurukshetra	132
Mahendragarh	0
Mewat	0
Palwal	33
Panchkula	3
Panipat	209
Rewari	3
Rohtak	210
Sirsa	180
Sonipat	269
Yamunanagar	19
Total	2740

(c) Uttar Pradesh

District	01Apr-10 May				
	Year 2022				
		GAUTAMBUDHNAGAR	27	MUZAFARNAGAR	52
		GAZIPUR	92	PILHIBHIT	302
AGRA	2	GHAZIABAD	13	PRATAPGARH	18
ALIGARH	19	GONDA	20	RAIBEARELI	88
ALLAHABAD	92	GORAKHPUR	958	RAMPUR	107
AMBEDKARNAGAR	11	HAMIRPUR	13	SANTKABIRNAGAR	681
AURAIYA	88	HARDOI	92	SANTRAVIDASNAGAR	1
AZAMGARH	85	JALAUN	17	SHAHJAHANPUR	307
BADAUN	6	JAUNPUR	19	SHARANPUR	31
BAGHPAT	6	JHANSI	96	SHRAWASTI	85
BAHRAICH	101	JYOTIBAPHULE NAGAR	8	SIDDHARTHANAGAR	2530
BALLIA	133	KANNAUJ	0	SITAPUR	17
BALRAMPUR	235	KANPUR	8	SONBHADRA	113
BANDA	5	KANPUR DEHAT	24	SULTANPUR	59
BARABANKI	7	KAUSHAMBI	5	UNNAO	40
BAREILLY	103	KHERI	151	VARANASI	1
BASTI	423	KUSHINAGAR	216	Total	10366
BIJNOR	47	LACKNOW	8		
BULANDSAHAR	8	LALITPUR	46		
CHANDAULI	286	MAHAMAYANAGAR	0		
CHITRAKOOT	22	MAHARAJGANJ	1489		
DEORIA	725	MAHOBA	2		
ETAH	1	MAINPURI	4		
ETAWAH	3	MATHURA	24		
FAIZABAD	3	MAU	75		
FARRUKHABAD	3	MEERUT	17		
FATEHPUR	30	MIRZAPUR	60		
FIROZABAD	1	MORADABAD	5		

(f) Madhya Pradesh

District	01Apr-10 May	
	Year 2022	
ALIRAJPUR	0	PANNA 139
ANUPPUR	33	RAISEN 2577
ASHOKNAGAR	625	RAJGARH 133
BALAGHAT	27	RATLAM 187
BARWANI	4	REWA 106
BETUL	177	SAGAR 719
BHIND	57	SATNA 712
BHOPAL	936	SEHORE 922
BURHANPUR	11	SEONI 1521
CHHATARPUR	136	SHAHDOL 99
CHHINDWARA	487	SHAJAPUR 359
DAMOH	200	SHEOPUR 350
DATIA	357	SHIVPURI 155
DEWAS	557	SIDHI 20
DHAR	1004	SINGRAULI 106
DINDORI	43	TIKAMGARH 29
EAST NIMAR	80	UJJAIN 1206
GUNA	697	UMARIA 48
GWALIOR	519	VIDESHA 3683
HARDA	374	WEST NIMAR 31
HOSHANGABAD	4061	Total 25982
INDORE	966	
JABALPUR	864	
JHABUA	2	
KATNI	277	
MANDLA	172	
MANDSAUR	63	
MORENA	3	
NARSHIMAPURA	128	
NIMACH	20	

(g) Delhi

District	01Apr-10 May
	2022
CENTRAL	0
EAST	0
NEW DELHI	0
NORTH	18
NORTH EAST	0
NORTH WEST DELHI	1
SHAHADRA	0
SOUTH	1
SOUTH EAST	0
SOUTH WEST DELHI	1
WEST DELHI	1
Total	22

State-wise and date-wise number of wheat residue burning events detected in 2022

(Period: 01 April – 10 May)

Date	Punjab	Haryana	UP	MP	Delhi
1-Apr	6	2	10	715	0
2-Apr	1	1	22	531	0
3-Apr	3	2	21	589	0
4-Apr	2	2	29	589	0
5-Apr	2	4	21	698	0
6-Apr	0	1	16	612	0
7-Apr	0	0	46	908	0
8-Apr	1	2	37	749	0
9-Apr	0	0	16	907	0
10-Apr	4	2	24	1217	0
11-Apr	2	2	78	1129	0
12-Apr	0	0	67	847	0
13-Apr	3	3	70	537	0
14-Apr	7	9	193	618	0
15-Apr	1	7	579	1079	1
16-Apr	13	14	609	1390	0
17-Apr	10	12	751	1441	0
18-Apr	12	17	611	972	2
19-Apr	29	23	231	748	1
20-Apr	56	14	395	856	2
21-Apr	4	0	202	379	0
22-Apr	77	17	398	839	0
23-Apr	35	22	519	524	1
24-Apr	360	96	2515	605	4
25-Apr	82	65	450	796	2
26-Apr	354	122	277	706	0
27-Apr	1064	436	436	955	5
28-Apr	965	453	249	849	0
29-Apr	802	345	213	340	2
30-Apr	662	357	166	547	1
01-May	848	56	126	437	0

02-May	1887	159	132	265	1
03-May	979	77	141	283	0
04-May	1247	72	147	188	0
05-May	796	65	64	159	0
06-May	202	2	107	166	0
07-May	827	108	52	215	0
08-May	1065	110	130	275	0
09-May	357	27	103	199	0
10-May	437	34	113	123	0
Total	13202	2740	10366	25982	22

Details of wheat residue burning events in Punjab on 10-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	npp	31.90210	74.74700	5/10/2022	13:40:51	D	4.70
2	AMRITSAR	AJNALA	npp	31.93140	74.86210	5/10/2022	13:40:51	D	5.10
3	AMRITSAR	AJNALA	npp	31.95420	74.87200	5/10/2022	13:40:51	D	5.80
4	AMRITSAR	HARSHA CHHINA	npp	31.78600	74.87200	5/10/2022	13:40:51	D	5.40
5	AMRITSAR	JANDIALA GURU	npp	31.57760	74.95260	5/10/2022	13:40:51	D	5.00
6	AMRITSAR	JANDIALA GURU	npp	31.59110	75.08530	5/10/2022	13:40:51	D	16.40
7	AMRITSAR	MAJITHA	npp	31.70210	75.02960	5/10/2022	13:40:51	D	5.40
8	AMRITSAR	MAJITHA	npp	31.70210	75.08590	5/10/2022	13:40:51	D	5.50
9	AMRITSAR	RAYYA	npp	31.58570	75.21340	5/10/2022	13:40:51	D	5.60
10	AMRITSAR	RAYYA	npp	31.59920	75.20630	5/10/2022	13:40:51	D	3.80
11	AMRITSAR	TARSIKKA	npp	31.65420	75.04620	5/10/2022	13:40:51	D	3.40
12	AMRITSAR	TARSIKKA	npp	31.70500	75.13720	5/10/2022	13:40:51	D	3.30
13	AMRITSAR	TARSIKKA	npp	31.70970	75.14580	5/10/2022	13:40:51	D	5.30
14	AMRITSAR	VERKA	Terra	31.63600	74.96000	5/10/2022	11:23:22	D	9.00
15	BARNALA	BARNALA	Terra	30.33000	75.43900	5/10/2022	11:23:22	D	25.30
16	BARNALA	BARNALA	npp	30.22100	75.50610	5/10/2022	13:40:51	D	3.90
17	BARNALA	BARNALA	npp	30.41030	75.52780	5/10/2022	13:40:51	D	5.30
18	BARNALA	MAHAL KALAN	npp	30.50380	75.61670	5/10/2022	13:40:51	D	2.60
19	BARNALA	MAHAL KALAN	npp	30.51320	75.57740	5/10/2022	13:40:51	D	7.70
20	BARNALA	MAHAL KALAN	npp	30.54460	75.59560	5/10/2022	13:40:51	D	6.80
21	BARNALA	SEHNA	npp	30.37260	75.37630	5/10/2022	13:40:51	D	6.10
22	BARNALA	SEHNA	npp	30.37620	75.37570	5/10/2022	13:40:51	D	6.10
23	BATHINDA	BATHINDA	npp	30.15170	74.98620	5/10/2022	13:40:51	D	4.20
24	BATHINDA	BATHINDA	npp	30.15280	74.87580	5/10/2022	13:40:51	D	11.80
25	BATHINDA	BATHINDA	npp	30.21420	74.88700	5/10/2022	13:40:51	D	9.60
26	BATHINDA	BHAGTA BHAI KA	Terra	30.52600	75.08700	5/10/2022	11:23:22	D	13.10
27	BATHINDA	BHAGTA BHAI KA	npp	30.41890	75.15410	5/10/2022	13:40:51	D	6.60
28	BATHINDA	GONIANA MANDI	Terra	30.29900	74.90600	5/10/2022	11:23:22	D	17.90
29	BATHINDA	MAUR	npp	30.10280	75.28740	5/10/2022	13:40:51	D	4.80
30	BATHINDA	NATHANA	npp	30.15650	75.07480	5/10/2022	13:40:51	D	5.40

31	BATHINDA	NATHANA	npp	30.16000	75.07420	5/10/2022	13:40:51	D	11.60
32	BATHINDA	NATHANA	npp	30.24520	75.17280	5/10/2022	13:40:51	D	4.70
33	BATHINDA	NATHANA	npp	30.28080	75.10920	5/10/2022	13:40:51	D	3.10
34	BATHINDA	NATHANA	npp	30.28280	75.10750	5/10/2022	13:40:51	D	2.50
35	BATHINDA	PHUL	npp	30.32190	75.20630	5/10/2022	13:40:51	D	6.60
36	BATHINDA	PHUL	npp	30.32250	75.21070	5/10/2022	13:40:51	D	7.60
37	BATHINDA	PHUL	npp	30.43870	75.25110	5/10/2022	13:40:51	D	3.80
38	BATHINDA	RAMPURA	npp	30.23480	75.25640	5/10/2022	13:40:51	D	3.80
39	BATHINDA	SANGAT	npp	30.03640	74.88130	5/10/2022	13:40:51	D	8.10
40	BATHINDA	SANGAT	npp	30.03890	74.88190	5/10/2022	13:40:51	D	11.00
41	BATHINDA	TALWANDI SABO	npp	29.91940	75.07310	5/10/2022	13:40:51	D	2.40
42	BATHINDA	TALWANDI SABO	npp	29.95100	75.04530	5/10/2022	13:40:51	D	6.10
43	BATHINDA	TALWANDI SABO	npp	29.95220	75.04240	5/10/2022	13:40:51	D	6.60
44	BATHINDA	TALWANDI SABO	npp	29.98150	75.05060	5/10/2022	13:40:51	D	5.10
45	FARIDKOT	FARIDKOT	Terra	30.75900	74.80600	5/10/2022	11:23:22	D	12.80
46	FARIDKOT	FARIDKOT	npp	30.71580	74.87100	5/10/2022	13:40:51	D	4.90
47	FARIDKOT	JAITON	Terra	30.47700	74.83400	5/10/2022	11:23:22	D	21.20
48	FARIDKOT	JAITON	npp	30.39160	74.83980	5/10/2022	13:40:51	D	3.90
49	FARIDKOT	JAITON	npp	30.47830	74.78630	5/10/2022	13:40:51	D	6.30
50	FARIDKOT	JAITON	npp	30.48120	74.78130	5/10/2022	13:40:51	D	9.90
51	FARIDKOT	JAITON	npp	30.50650	74.83910	5/10/2022	13:40:51	D	13.40
52	FARIDKOT	JAITON	npp	30.51070	74.95020	5/10/2022	13:40:51	D	10.60
53	FARIDKOT	JAITON	npp	30.53900	74.97660	5/10/2022	13:40:51	D	5.50
54	FARIDKOT	KOT KAPURA	npp	30.50710	74.84340	5/10/2022	13:40:51	D	13.40
55	FARIDKOT	KOT KAPURA	npp	30.59170	74.93680	5/10/2022	13:40:51	D	4.30
56	FATEHGARH SAHIB	AMLOH	npp	30.54690	76.10750	5/10/2022	13:40:51	D	5.00
57	FATEHGARH SAHIB	AMLOH	npp	30.54750	76.11240	5/10/2022	13:40:51	D	5.50
58	FATEHGARH SAHIB	BASSI PATHANAN	npp	30.65970	76.44700	5/10/2022	13:40:51	D	3.10
59	FATEHGARH SAHIB	KHAMANON	Terra	30.85600	76.33100	5/10/2022	11:23:22	D	10.00
60	FATEHGARH SAHIB	KHAMANON	npp	30.75250	76.35850	5/10/2022	13:40:51	D	4.30

61	FATEHGARH SAHIB	KHAMANON	npp	30.75820	76.43440	5/10/2022	13:40:51	D	1.50
62	FATEHGARH SAHIB	KHERA	npp	30.59250	76.51440	5/10/2022	13:40:51	D	4.30
63	FAZILKA	ABOHAR	npp	30.09240	74.17660	5/10/2022	13:40:51	D	12.70
64	FAZILKA	FAZILKA	npp	30.41080	73.96330	5/10/2022	13:40:51	D	13.10
65	FAZILKA	FAZILKA	npp	30.43330	73.97610	5/10/2022	13:40:51	D	10.50
66	FAZILKA	FAZILKA	npp	30.43660	73.97540	5/10/2022	13:40:51	D	10.50
67	FAZILKA	JALALABAD	Terra	30.55500	74.09100	5/10/2022	11:23:22	D	9.10
68	FIROZPUR	FIROZPUR	Terra	31.03100	74.75800	5/10/2022	11:23:22	D	21.50
69	FIROZPUR	FIROZPUR	Terra	31.09700	74.80200	5/10/2022	11:23:22	D	8.10
70	FIROZPUR	FIROZPUR	npp	30.83110	74.53540	5/10/2022	13:40:51	D	5.80
71	FIROZPUR	FIROZPUR	npp	30.83460	74.53470	5/10/2022	13:40:51	D	8.30
72	FIROZPUR	FIROZPUR	npp	30.96570	74.53120	5/10/2022	13:40:51	D	2.40
73	FIROZPUR	FIROZPUR	npp	31.04140	74.62410	5/10/2022	13:40:51	D	9.60
74	FIROZPUR	FIROZPUR	npp	31.05530	74.67520	5/10/2022	13:40:51	D	14.40
75	FIROZPUR	FIROZPUR	npp	31.08610	74.77300	5/10/2022	13:40:51	D	7.50
76	FIROZPUR	FIROZPUR	npp	31.08620	74.80010	5/10/2022	13:40:51	D	6.00
77	FIROZPUR	FIROZPUR	npp	31.08670	74.77740	5/10/2022	13:40:51	D	10.20
78	FIROZPUR	GHALL KHURD	npp	30.97620	74.78270	5/10/2022	13:40:51	D	3.70
79	FIROZPUR	MAKHU	npp	31.09240	74.95340	5/10/2022	13:40:51	D	23.60
80	FIROZPUR	MAKHU	npp	31.10600	75.02880	5/10/2022	13:40:51	D	11.40
81	FIROZPUR	MAKHU	npp	31.10910	74.91850	5/10/2022	13:40:51	D	7.90
82	FIROZPUR	MAKHU	npp	31.10950	75.02820	5/10/2022	13:40:51	D	9.00
83	FIROZPUR	MAKHU	npp	31.11870	74.87250	5/10/2022	13:40:51	D	6.00
84	FIROZPUR	MAMDOT	Terra	30.91500	74.43000	5/10/2022	11:23:22	D	15.80
85	FIROZPUR	MAMDOT	npp	30.84380	74.47760	5/10/2022	13:40:51	D	13.70
86	FIROZPUR	MAMDOT	npp	30.84400	74.47580	5/10/2022	13:40:51	D	6.40
87	FIROZPUR	MAMDOT	npp	30.84440	74.48190	5/10/2022	13:40:51	D	10.70
88	FIROZPUR	MAMDOT	npp	30.84460	74.48010	5/10/2022	13:40:51	D	19.70
89	FIROZPUR	MAMDOT	npp	30.87350	74.51620	5/10/2022	13:40:51	D	3.10
90	FIROZPUR	MAMDOT	npp	30.92460	74.42770	5/10/2022	13:40:51	D	10.00
91	FIROZPUR	MAMDOT	npp	30.92520	74.43200	5/10/2022	13:40:51	D	7.20
92	FIROZPUR	ZIRA	Terra	31.00800	74.89800	5/10/2022	11:23:22	D	8.70

93	FIROZPUR	ZIRA	npp	30.97680	75.00010	5/10/2022	13:40:51	D	10.10
94	FIROZPUR	ZIRA	npp	31.03330	74.96380	5/10/2022	13:40:51	D	5.50
95	GURDASPUR	DERA BABA NANAK	npp	31.90420	75.12510	5/10/2022	13:40:51	D	6.20
96	GURDASPUR	DERA BABA NANAK	npp	31.95580	75.04980	5/10/2022	13:40:51	D	4.10
97	GURDASPUR	DERA BABA NANAK	npp	32.01560	74.95620	5/10/2022	13:40:51	D	10.10
98	GURDASPUR	DERA BABA NANAK	npp	32.02090	74.94120	5/10/2022	13:40:51	D	6.60
99	GURDASPUR	DERA BABA NANAK	npp	32.02150	74.94580	5/10/2022	13:40:51	D	5.30
100	GURDASPUR	DHARIWAL	npp	31.87200	75.29070	5/10/2022	13:40:51	D	12.90
101	GURDASPUR	DHARIWAL	npp	31.91390	75.22120	5/10/2022	13:40:51	D	5.60
102	GURDASPUR	KALANAUR	npp	31.98720	75.18200	5/10/2022	13:40:51	D	6.60
103	GURDASPUR	KALANAUR	npp	32.07460	75.13510	5/10/2022	13:40:51	D	5.70
104	GURDASPUR	KALANAUR	npp	32.07810	75.13450	5/10/2022	13:40:51	D	4.30
105	GURDASPUR	KALANAUR	npp	32.07870	75.13920	5/10/2022	13:40:51	D	4.30
106	GURDASPUR	QADIAN	npp	31.80570	75.41600	5/10/2022	13:40:51	D	4.00
107	GURDASPUR	QADIAN	npp	31.83830	75.31100	5/10/2022	13:40:51	D	5.00
108	GURDASPUR	SRI HARGOBINDPUR	npp	31.69160	75.44860	5/10/2022	13:40:51	D	8.10
109	HOSHIARPUR	GARH SHANKAR	npp	31.18650	76.12670	5/10/2022	13:40:51	D	5.40
110	HOSHIARPUR	GARH SHANKAR	npp	31.27460	76.08910	5/10/2022	13:40:51	D	3.50
111	HOSHIARPUR	GARH SHANKAR	npp	31.28380	76.04220	5/10/2022	13:40:51	D	5.20
112	HOSHIARPUR	HAIJPUR	npp	32.00370	75.66190	5/10/2022	13:40:51	D	4.40
113	HOSHIARPUR	HOSHIARPUR-1	npp	31.49080	75.76690	5/10/2022	13:40:51	D	4.60
114	HOSHIARPUR	HOSHIARPUR-1	npp	31.49440	75.76630	5/10/2022	13:40:51	D	4.60
115	HOSHIARPUR	HOSHIARPUR-2	Terra	31.38000	75.80800	5/10/2022	11:23:22	D	15.60
116	HOSHIARPUR	HOSHIARPUR-2	npp	31.41770	75.92640	5/10/2022	13:40:51	D	12.20
117	HOSHIARPUR	HOSHIARPUR-2	npp	31.55370	76.00620	5/10/2022	13:40:51	D	5.40
118	HOSHIARPUR	MAHILPUR	Aqua	31.28700	75.87200	5/10/2022	12:55:49	D	45.10
119	HOSHIARPUR	MAHILPUR	Terra	31.29900	75.97800	5/10/2022	11:23:22	D	12.60
120	HOSHIARPUR	MAHILPUR	Terra	31.30000	75.97100	5/10/2022	11:23:22	D	12.50
121	HOSHIARPUR	MAHILPUR	npp	31.28880	75.93110	5/10/2022	13:40:51	D	9.80
122	HOSHIARPUR	MAHILPUR	npp	31.30090	75.96900	5/10/2022	13:40:51	D	3.40
123	HOSHIARPUR	MAHILPUR	npp	31.31780	75.95610	5/10/2022	13:40:51	D	6.00
124	HOSHIARPUR	MAHILPUR	npp	31.32940	75.98930	5/10/2022	13:40:51	D	5.50
125	HOSHIARPUR	MAHILPUR	npp	31.34200	75.91220	5/10/2022	13:40:51	D	2.00

126	HOSHIARPUR	MAHILPUR	npp	31.36470	76.06390	5/10/2022	13:40:51	D	5.50
127	HOSHIARPUR	MAHILPUR	npp	31.38000	76.09680	5/10/2022	13:40:51	D	2.30
128	JALANDHAR	ADAMPUR	npp	31.39650	75.78580	5/10/2022	13:40:51	D	3.60
129	JALANDHAR	ADAMPUR	npp	31.40900	75.68050	5/10/2022	13:40:51	D	3.60
130	JALANDHAR	ADAMPUR	npp	31.43040	75.63470	5/10/2022	13:40:51	D	2.20
131	JALANDHAR	ADAMPUR	npp	31.44470	75.69100	5/10/2022	13:40:51	D	2.90
132	JALANDHAR	BHOGPUR	Terra	31.49900	75.65700	5/10/2022	11:23:22	D	10.10
133	JALANDHAR	BHOGPUR	npp	31.46800	75.64300	5/10/2022	13:40:51	D	9.20
134	JALANDHAR	BHOGPUR	npp	31.50090	75.58380	5/10/2022	13:40:51	D	2.90
135	JALANDHAR	BHOGPUR	npp	31.51120	75.72400	5/10/2022	13:40:51	D	4.30
136	JALANDHAR	JALANDHAR EAST	npp	31.23140	75.70390	5/10/2022	13:40:51	D	1.70
137	JALANDHAR	JALANDHAR EAST	npp	31.34190	75.73100	5/10/2022	13:40:51	D	1.60
138	JALANDHAR	JALANDHAR EAST	npp	31.34790	75.74960	5/10/2022	13:40:51	D	4.00
139	JALANDHAR	JALANDHAR WEST	npp	31.41410	75.54830	5/10/2022	13:40:51	D	3.50
140	JALANDHAR	JALANDHAR WEST	npp	31.45970	75.51810	5/10/2022	13:40:51	D	4.10
141	JALANDHAR	LOHIAN	npp	31.11500	75.17980	5/10/2022	13:40:51	D	2.10
142	JALANDHAR	LOHIAN	npp	31.11560	75.18430	5/10/2022	13:40:51	D	15.00
143	JALANDHAR	LOHIAN	npp	31.12610	75.18250	5/10/2022	13:40:51	D	8.00
144	JALANDHAR	MEHATPUR	Terra	31.02900	75.51800	5/10/2022	11:23:22	D	9.90
145	JALANDHAR	MEHATPUR	npp	30.97920	75.54300	5/10/2022	13:40:51	D	3.10
146	JALANDHAR	MEHATPUR	npp	30.98140	75.54040	5/10/2022	13:40:51	D	4.50
147	JALANDHAR	MEHATPUR	npp	30.99340	75.46230	5/10/2022	13:40:51	D	4.10
148	JALANDHAR	MEHATPUR	npp	30.99740	75.52340	5/10/2022	13:40:51	D	5.20
149	JALANDHAR	MEHATPUR	npp	31.02640	75.43770	5/10/2022	13:40:51	D	8.20
150	JALANDHAR	MEHATPUR	npp	31.07380	75.46750	5/10/2022	13:40:51	D	2.00
151	JALANDHAR	NAKODAR	npp	31.03120	75.47480	5/10/2022	13:40:51	D	4.40
152	JALANDHAR	NAKODAR	npp	31.14840	75.55170	5/10/2022	13:40:51	D	4.60
153	JALANDHAR	NAKODAR	npp	31.21970	75.52210	5/10/2022	13:40:51	D	8.50
154	JALANDHAR	NUR MAHAL	Terra	31.03400	75.66300	5/10/2022	11:23:22	D	10.50
155	JALANDHAR	NUR MAHAL	npp	30.98770	75.60850	5/10/2022	13:40:51	D	4.80
156	JALANDHAR	NUR MAHAL	npp	31.00700	75.70160	5/10/2022	13:40:51	D	5.00
157	JALANDHAR	NUR MAHAL	npp	31.00850	75.69920	5/10/2022	13:40:51	D	8.60
158	JALANDHAR	NUR MAHAL	npp	31.01200	75.69860	5/10/2022	13:40:51	D	8.60

159	JALANDHAR	NUR MAHAL	npp	31.02470	75.53780	5/10/2022	13:40:51	D	3.10
160	JALANDHAR	NUR MAHAL	npp	31.02710	75.58520	5/10/2022	13:40:51	D	5.80
161	JALANDHAR	NUR MAHAL	npp	31.04480	75.52480	5/10/2022	13:40:51	D	4.40
162	JALANDHAR	NUR MAHAL	npp	31.04540	75.52950	5/10/2022	13:40:51	D	4.40
163	JALANDHAR	NUR MAHAL	npp	31.06630	75.63630	5/10/2022	13:40:51	D	3.10
164	JALANDHAR	NUR MAHAL	npp	31.09840	75.61790	5/10/2022	13:40:51	D	2.30
165	JALANDHAR	NUR MAHAL	npp	31.13290	75.60240	5/10/2022	13:40:51	D	6.00
166	JALANDHAR	PHILLAUR	Terra	31.13000	75.82400	5/10/2022	11:23:22	D	12.20
167	JALANDHAR	PHILLAUR	npp	31.02680	75.81780	5/10/2022	13:40:51	D	9.50
168	JALANDHAR	PHILLAUR	npp	31.02960	75.90090	5/10/2022	13:40:51	D	5.60
169	JALANDHAR	PHILLAUR	npp	31.03040	75.81720	5/10/2022	13:40:51	D	5.90
170	JALANDHAR	PHILLAUR	npp	31.05660	75.94080	5/10/2022	13:40:51	D	3.20
171	JALANDHAR	PHILLAUR	npp	31.06810	75.88460	5/10/2022	13:40:51	D	3.50
172	JALANDHAR	PHILLAUR	npp	31.07700	75.84970	5/10/2022	02:31:34	N	1.90
173	JALANDHAR	PHILLAUR	npp	31.08860	75.81230	5/10/2022	13:40:51	D	3.20
174	JALANDHAR	PHILLAUR	npp	31.08920	75.81710	5/10/2022	13:40:51	D	4.20
175	JALANDHAR	PHILLAUR	npp	31.14340	75.86390	5/10/2022	13:40:51	D	7.00
176	JALANDHAR	PHILLAUR	npp	31.14400	75.86870	5/10/2022	13:40:51	D	6.40
177	JALANDHAR	PHILLAUR	npp	31.15720	75.85670	5/10/2022	13:40:51	D	10.30
178	JALANDHAR	PHILLAUR	npp	31.15780	75.86150	5/10/2022	13:40:51	D	10.30
179	JALANDHAR	PHILLAUR	npp	31.16080	75.85610	5/10/2022	13:40:51	D	10.30
180	JALANDHAR	PHILLAUR	npp	31.16140	75.86090	5/10/2022	13:40:51	D	10.30
181	JALANDHAR	PHILLAUR	npp	31.16320	75.84580	5/10/2022	13:40:51	D	4.60
182	JALANDHAR	PHILLAUR	npp	31.16390	75.85060	5/10/2022	13:40:51	D	4.60
183	JALANDHAR	PHILLAUR	npp	31.18070	75.77900	5/10/2022	13:40:51	D	4.60
184	JALANDHAR	RURKA KALAN	npp	31.10340	75.69770	5/10/2022	13:40:51	D	5.20
185	JALANDHAR	RURKA KALAN	npp	31.12870	75.62720	5/10/2022	13:40:51	D	4.30
186	JALANDHAR	RURKA KALAN	npp	31.12930	75.63200	5/10/2022	13:40:51	D	4.30
187	JALANDHAR	RURKA KALAN	npp	31.19020	75.65070	5/10/2022	13:40:51	D	29.10
188	JALANDHAR	SHAHKOT	npp	31.03400	75.35620	5/10/2022	13:40:51	D	2.40
189	JALANDHAR	SHAHKOT	npp	31.03750	75.32740	5/10/2022	13:40:51	D	5.30
190	JALANDHAR	SHAHKOT	npp	31.06470	75.39800	5/10/2022	13:40:51	D	5.90
191	JALANDHAR	SHAHKOT	npp	31.09520	75.27650	5/10/2022	13:40:51	D	5.50

192	JALANDHAR	SHAHKOT	npp	31.09810	75.27130	5/10/2022	13:40:51	D	6.10
193	JALANDHAR	SHAHKOT	npp	31.09870	75.27590	5/10/2022	13:40:51	D	6.10
194	KAPURTHALA	DHILWAN	npp	31.42000	75.34750	5/10/2022	13:40:51	D	8.30
195	KAPURTHALA	DHILWAN	npp	31.47130	75.32430	5/10/2022	13:40:51	D	12.40
196	KAPURTHALA	DHILWAN	npp	31.47190	75.32900	5/10/2022	13:40:51	D	12.40
197	KAPURTHALA	DHILWAN	npp	31.49150	75.36850	5/10/2022	13:40:51	D	6.80
198	KAPURTHALA	DHILWAN	npp	31.49560	75.34400	5/10/2022	13:40:51	D	5.90
199	KAPURTHALA	DHILWAN	npp	31.49740	75.35800	5/10/2022	13:40:51	D	7.50
200	KAPURTHALA	DHILWAN	npp	31.49990	75.35970	5/10/2022	13:40:51	D	5.90
201	KAPURTHALA	DHILWAN	npp	31.50110	75.34040	5/10/2022	13:40:51	D	12.40
202	KAPURTHALA	DHILWAN	npp	31.50700	75.35850	5/10/2022	13:40:51	D	5.70
203	KAPURTHALA	DHILWAN	npp	31.52120	75.35600	5/10/2022	13:40:51	D	2.90
204	KAPURTHALA	DHILWAN	npp	31.56680	75.37210	5/10/2022	13:40:51	D	3.40
205	KAPURTHALA	KAPURTHALA	npp	31.42940	75.36490	5/10/2022	13:40:51	D	6.50
206	KAPURTHALA	KAPURTHALA	npp	31.43890	75.41100	5/10/2022	13:40:51	D	13.70
207	KAPURTHALA	NADALA	npp	31.51280	75.46310	5/10/2022	13:40:51	D	6.80
208	KAPURTHALA	NADALA	npp	31.53540	75.41110	5/10/2022	13:40:51	D	5.30
209	KAPURTHALA	NADALA	npp	31.53600	75.41580	5/10/2022	13:40:51	D	5.30
210	KAPURTHALA	NADALA	npp	31.60180	75.41890	5/10/2022	13:40:51	D	7.00
211	KAPURTHALA	NADALA	npp	31.60660	75.42770	5/10/2022	13:40:51	D	7.80
212	KAPURTHALA	NADALA	npp	31.61310	75.42180	5/10/2022	13:40:51	D	6.60
213	KAPURTHALA	PHAGWARA	Terra	31.23000	75.72100	5/10/2022	11:23:22	D	9.00
214	KAPURTHALA	PHAGWARA	Terra	31.24800	75.79700	5/10/2022	11:23:22	D	21.90
215	KAPURTHALA	PHAGWARA	Terra	31.33000	75.73700	5/10/2022	11:23:22	D	11.60
216	KAPURTHALA	PHAGWARA	npp	31.20290	75.75080	5/10/2022	13:40:51	D	3.60
217	KAPURTHALA	PHAGWARA	npp	31.31170	75.84770	5/10/2022	13:40:51	D	10.10
218	KAPURTHALA	PHAGWARA	npp	31.31280	75.70980	5/10/2022	13:40:51	D	4.20
219	KAPURTHALA	PHAGWARA	npp	31.35380	75.82760	5/10/2022	13:40:51	D	5.50
220	KAPURTHALA	PHAGWARA	npp	31.35740	75.82700	5/10/2022	13:40:51	D	5.50
221	KAPURTHALA	SULTANPUR LODHI	Terra	31.19600	75.14300	5/10/2022	11:23:22	D	14.00
222	KAPURTHALA	SULTANPUR LODHI	npp	31.15470	75.06770	5/10/2022	13:40:51	D	8.90
223	KAPURTHALA	SULTANPUR LODHI	npp	31.22580	75.06440	5/10/2022	13:40:51	D	23.00
224	KAPURTHALA	SULTANPUR LODHI	npp	31.22640	75.06890	5/10/2022	13:40:51	D	23.00

225	KAPURTHALA	SULTANPUR LODHI	npp	31.22930	75.06380	5/10/2022	13:40:51	D	24.40
226	KAPURTHALA	SULTANPUR LODHI	npp	31.22990	75.06830	5/10/2022	13:40:51	D	24.40
227	KAPURTHALA	SULTANPUR LODHI	npp	31.27850	75.11200	5/10/2022	13:40:51	D	7.20
228	KAPURTHALA	SULTANPUR LODHI	npp	31.27910	75.11650	5/10/2022	13:40:51	D	7.20
229	KAPURTHALA	SULTANPUR LODHI	npp	31.28730	75.23660	5/10/2022	13:40:51	D	4.80
230	KAPURTHALA	SULTANPUR LODHI	npp	31.28790	75.24120	5/10/2022	13:40:51	D	7.00
231	LUDHIANA	DORAHA	npp	30.71300	75.95490	5/10/2022	13:40:51	D	4.70
232	LUDHIANA	DORAHA	npp	30.71370	75.95650	5/10/2022	13:40:51	D	4.40
233	LUDHIANA	DORAHA	npp	30.77500	76.03500	5/10/2022	13:40:51	D	4.80
234	LUDHIANA	JAGRAON	npp	30.76280	75.45540	5/10/2022	13:40:51	D	4.90
235	LUDHIANA	JAGRAON	npp	30.78640	75.44190	5/10/2022	13:40:51	D	10.70
236	LUDHIANA	JAGRAON	npp	30.81170	75.44230	5/10/2022	13:40:51	D	7.30
237	LUDHIANA	KHANNA	npp	30.63280	76.08150	5/10/2022	13:40:51	D	3.80
238	LUDHIANA	KHANNA	npp	30.74350	76.07990	5/10/2022	13:40:51	D	3.80
239	LUDHIANA	LUDHIANA-1	npp	30.87170	75.68410	5/10/2022	13:40:51	D	7.90
240	LUDHIANA	LUDHIANA-1	npp	30.87950	75.68770	5/10/2022	13:40:51	D	7.10
241	LUDHIANA	LUDHIANA-2	Terra	30.93700	76.10100	5/10/2022	11:23:22	D	12.60
242	LUDHIANA	LUDHIANA-2	Terra	30.94200	76.07500	5/10/2022	11:23:22	D	11.40
243	LUDHIANA	LUDHIANA-2	npp	30.90680	75.66060	5/10/2022	13:40:51	D	6.80
244	LUDHIANA	LUDHIANA-2	npp	30.91530	76.02890	5/10/2022	13:40:51	D	6.30
245	LUDHIANA	LUDHIANA-2	npp	30.93160	75.98160	5/10/2022	13:40:51	D	3.30
246	LUDHIANA	LUDHIANA-2	npp	30.93190	75.98340	5/10/2022	13:40:51	D	6.40
247	LUDHIANA	LUDHIANA-2	npp	30.93520	75.98100	5/10/2022	13:40:51	D	3.30
248	LUDHIANA	LUDHIANA-2	npp	30.93550	75.98280	5/10/2022	13:40:51	D	5.30
249	LUDHIANA	LUDHIANA-2	npp	30.95370	75.95010	5/10/2022	13:40:51	D	4.50
250	LUDHIANA	LUDHIANA-2	npp	30.95430	75.95490	5/10/2022	13:40:51	D	5.60
251	LUDHIANA	LUDHIANA-2	npp	30.95730	75.94940	5/10/2022	13:40:51	D	4.50
252	LUDHIANA	LUDHIANA-2	npp	30.97340	76.14140	5/10/2022	13:40:51	D	6.70
253	LUDHIANA	LUDHIANA-2	npp	30.97960	75.77410	5/10/2022	13:40:51	D	4.00
254	LUDHIANA	LUDHIANA-2	npp	30.98690	75.91990	5/10/2022	13:40:51	D	5.60
255	LUDHIANA	LUDHIANA-2	npp	30.99500	75.69390	5/10/2022	13:40:51	D	27.30
256	LUDHIANA	MACHHIWARA	npp	31.00070	76.21280	5/10/2022	13:40:51	D	5.40
257	LUDHIANA	MALOUD	npp	30.60310	76.05380	5/10/2022	13:40:51	D	3.80

258	LUDHIANA	MALOUD	npp	30.61090	75.93270	5/10/2022	13:40:51	D	4.60
259	LUDHIANA	MALOUD	npp	30.66610	75.93330	5/10/2022	13:40:51	D	6.10
260	LUDHIANA	MALOUD	npp	30.67210	75.92250	5/10/2022	13:40:51	D	6.00
261	LUDHIANA	MALOUD	npp	30.67750	75.90700	5/10/2022	13:40:51	D	6.00
262	LUDHIANA	PAKHOWAL	npp	30.79230	75.79220	5/10/2022	13:40:51	D	3.80
263	LUDHIANA	RAIKOT	npp	30.61250	75.62450	5/10/2022	13:40:51	D	8.00
264	LUDHIANA	RAIKOT	npp	30.61480	75.70030	5/10/2022	13:40:51	D	5.40
265	LUDHIANA	RAIKOT	npp	30.65280	75.62720	5/10/2022	13:40:51	D	6.80
266	LUDHIANA	RAIKOT	npp	30.66830	75.69130	5/10/2022	13:40:51	D	4.80
267	LUDHIANA	SAMRALA	npp	30.77900	76.24950	5/10/2022	13:40:51	D	5.40
268	LUDHIANA	SIDHWAN BET	Terra	30.96200	75.60100	5/10/2022	11:23:22	D	16.20
269	LUDHIANA	SIDHWAN BET	npp	30.87220	75.44270	5/10/2022	13:40:51	D	6.70
270	LUDHIANA	SIDHWAN BET	npp	30.87990	75.41780	5/10/2022	13:40:51	D	5.50
271	LUDHIANA	SIDHWAN BET	npp	30.90460	75.58430	5/10/2022	13:40:51	D	4.70
272	LUDHIANA	SIDHWAN BET	npp	30.93120	75.62290	5/10/2022	13:40:51	D	8.20
273	LUDHIANA	SIDHWAN BET	npp	30.93480	75.62230	5/10/2022	13:40:51	D	6.60
274	LUDHIANA	SIDHWAN BET	npp	30.93820	75.42200	5/10/2022	13:40:51	D	8.70
275	LUDHIANA	SIDHWAN BET	npp	30.95310	75.53790	5/10/2022	13:40:51	D	10.50
276	LUDHIANA	SIDHWAN BET	npp	30.95910	75.58460	5/10/2022	13:40:51	D	4.80
277	LUDHIANA	SIDHWAN BET	npp	30.95970	75.58930	5/10/2022	13:40:51	D	4.80
278	LUDHIANA	SIDHWAN BET	npp	30.96030	75.59400	5/10/2022	13:40:51	D	8.40
279	LUDHIANA	SIDHWAN BET	npp	30.97460	75.37110	5/10/2022	13:40:51	D	10.20
280	LUDHIANA	SIDHWAN BET	npp	30.98220	75.40280	5/10/2022	13:40:51	D	8.90
281	LUDHIANA	SIDHWAN BET	npp	30.98340	75.38370	5/10/2022	13:40:51	D	4.60
282	LUDHIANA	SUDHAR	Terra	30.74100	75.63000	5/10/2022	11:23:22	D	13.00
283	LUDHIANA	SUDHAR	Terra	30.74300	75.61700	5/10/2022	11:23:22	D	18.50
284	MANSA	BHIKHI	Terra	30.15100	75.34700	5/10/2022	11:23:22	D	10.60
285	MANSA	BHIKHI	npp	30.16580	75.46910	5/10/2022	13:40:51	D	5.30
286	MANSA	BHIKHI	npp	30.19790	75.38530	5/10/2022	13:40:51	D	4.70
287	MANSA	BUDHLADA	Terra	29.95300	75.59400	5/10/2022	11:23:22	D	13.40
288	MANSA	SARDULGARH	npp	29.69340	75.26270	5/10/2022	13:40:51	D	6.50
289	MOGA	BAGHA PURANA	Terra	30.60200	74.99100	5/10/2022	11:23:22	D	37.60
290	MOGA	BAGHA PURANA	npp	30.56900	74.96240	5/10/2022	13:40:51	D	12.60

291	MOGA	BAGHA PURANA	npp	30.58180	75.00520	5/10/2022	13:40:51	D	6.70
292	MOGA	BAGHA PURANA	npp	30.62000	74.96330	5/10/2022	13:40:51	D	4.60
293	MOGA	BAGHA PURANA	npp	30.64600	74.99930	5/10/2022	13:40:51	D	14.30
294	MOGA	BAGHA PURANA	npp	30.69560	75.13170	5/10/2022	13:40:51	D	6.10
295	MOGA	BAGHA PURANA	npp	30.71990	75.01030	5/10/2022	13:40:51	D	4.70
296	MOGA	BAGHA PURANA	npp	30.72910	74.94530	5/10/2022	13:40:51	D	6.80
297	MOGA	BAGHA PURANA	npp	30.73670	75.03000	5/10/2022	13:40:51	D	3.60
298	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.86820	75.24230	5/10/2022	13:40:51	D	5.20
299	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.90630	75.31490	5/10/2022	13:40:51	D	4.80
300	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.91240	75.11460	5/10/2022	13:40:51	D	3.60
301	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.92960	75.21780	5/10/2022	13:40:51	D	5.40
302	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.94890	75.22600	5/10/2022	13:40:51	D	6.90
303	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.94950	75.23060	5/10/2022	13:40:51	D	6.80
304	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.95700	75.31790	5/10/2022	13:40:51	D	5.50
305	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.95740	75.32010	5/10/2022	13:40:51	D	5.20
306	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.99220	75.19990	5/10/2022	13:40:51	D	7.20
307	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	31.03710	75.15970	5/10/2022	13:40:51	D	24.10
308	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	31.03940	75.15000	5/10/2022	13:40:51	D	11.80
309	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	31.04000	75.15450	5/10/2022	13:40:51	D	11.80
310	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	31.04020	75.15570	5/10/2022	13:40:51	D	16.40
311	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	31.04350	75.15390	5/10/2022	13:40:51	D	11.80
312	MOGA	MOGA-1	npp	30.77580	75.33140	5/10/2022	13:40:51	D	4.60
313	MOGA	MOGA-1	npp	30.86170	75.33190	5/10/2022	13:40:51	D	9.10
314	MOGA	MOGA-1	npp	30.86590	75.27990	5/10/2022	13:40:51	D	5.50

315	MOGA	MOGA-2	npp	30.76280	75.01180	5/10/2022	13:40:51	D	6.10
316	MOGA	NIHAL SINGH	npp	30.64030	75.28380	5/10/2022	13:40:51	D	7.50
317	MUKTSAR	KOT BHAI AT GIDDERBAHA	npp	30.25080	74.69640	5/10/2022	13:40:51	D	7.80
318	MUKTSAR	KOT BHAI AT GIDDERBAHA	npp	30.33080	74.67410	5/10/2022	13:40:51	D	5.40
319	MUKTSAR	KOT BHAI AT GIDDERBAHA	npp	30.38740	74.67710	5/10/2022	13:40:51	D	4.90
320	MUKTSAR	LAMBI	npp	30.08310	74.46000	5/10/2022	13:40:51	D	20.20
321	MUKTSAR	LAMBI	npp	30.08630	74.43420	5/10/2022	13:40:51	D	4.80
322	MUKTSAR	LAMBI	npp	30.12000	74.57930	5/10/2022	13:40:51	D	2.30
323	MUKTSAR	MALOUT	npp	30.15050	74.49580	5/10/2022	13:40:51	D	4.20
324	MUKTSAR	MALOUT	npp	30.15110	74.50000	5/10/2022	13:40:51	D	4.20
325	MUKTSAR	MALOUT	npp	30.19480	74.43690	5/10/2022	13:40:51	D	7.80
326	MUKTSAR	MALOUT	npp	30.19640	74.42360	5/10/2022	13:40:51	D	4.00
327	MUKTSAR	MALOUT	npp	30.24070	74.44150	5/10/2022	13:40:51	D	6.30
328	MUKTSAR	MALOUT	npp	30.25260	74.45230	5/10/2022	13:40:51	D	7.30
329	MUKTSAR	MALOUT	npp	30.30430	74.47320	5/10/2022	13:40:51	D	5.90
330	MUKTSAR	MALOUT	npp	30.30730	74.47330	5/10/2022	13:40:51	D	9.70
331	MUKTSAR	MUKTSAR	npp	30.38240	74.36020	5/10/2022	13:40:51	D	1.90
332	MUKTSAR	MUKTSAR	npp	30.44100	74.58580	5/10/2022	13:40:51	D	6.70
333	MUKTSAR	MUKTSAR	npp	30.44160	74.59010	5/10/2022	13:40:51	D	6.70
334	MUKTSAR	MUKTSAR	npp	30.49820	74.46630	5/10/2022	13:40:51	D	6.60
335	MUKTSAR	MUKTSAR	npp	30.50260	74.60100	5/10/2022	13:40:51	D	4.50
336	MUKTSAR	MUKTSAR	npp	30.56490	74.52470	5/10/2022	13:40:51	D	3.20
337	PATHANKOT	NAROT JAIMAL SINGH	npp	32.21690	75.38260	5/10/2022	13:40:51	D	2.50
338	PATHANKOT	SUJANPUR	npp	32.30090	75.54780	5/10/2022	13:40:51	D	8.90
339	PATIALA	NABHA	Terra	30.43700	76.12100	5/10/2022	11:23:22	D	13.00
340	PATIALA	NABHA	npp	30.31820	76.23520	5/10/2022	13:40:51	D	4.00
341	PATIALA	NABHA	npp	30.31830	76.23340	5/10/2022	13:40:51	D	3.80
342	PATIALA	NABHA	npp	30.34570	76.03850	5/10/2022	13:40:51	D	3.40
343	PATIALA	NABHA	npp	30.36190	76.10940	5/10/2022	13:40:51	D	4.10
344	PATIALA	NABHA	npp	30.39640	76.23740	5/10/2022	13:40:51	D	2.90
345	PATIALA	NABHA	npp	30.45680	76.09590	5/10/2022	13:40:51	D	6.80

346	PATIALA	NABHA	npp	30.45920	76.11520	5/10/2022	13:40:51	D	4.80
347	PATIALA	NABHA	npp	30.46040	76.09530	5/10/2022	13:40:51	D	6.80
348	PATIALA	PATIALA	npp	30.26320	76.20770	5/10/2022	13:40:51	D	5.10
349	PATIALA	PATIALA	npp	30.33870	76.28180	5/10/2022	13:40:51	D	2.60
350	PATIALA	PATRAN	npp	29.87870	76.09780	5/10/2022	13:40:51	D	3.80
351	PATIALA	PATRAN	npp	29.88160	76.15070	5/10/2022	13:40:51	D	2.00
352	PATIALA	PATRAN	npp	29.94120	76.09720	5/10/2022	13:40:51	D	3.50
353	PATIALA	PATRAN	npp	29.97370	76.17950	5/10/2022	13:40:51	D	3.90
354	PATIALA	SAMANA	npp	29.99420	76.19570	5/10/2022	13:40:51	D	3.80
355	PATIALA	SAMANA	npp	29.99510	76.19750	5/10/2022	13:40:51	D	5.00
356	PATIALA	SAMANA	npp	30.19780	76.16200	5/10/2022	13:40:51	D	5.00
357	PATIALA	SAMANA	npp	30.19800	76.15920	5/10/2022	13:40:51	D	5.50
358	PATIALA	SAMANA	npp	30.23000	76.14900	5/10/2022	13:40:51	D	3.70
359	PATIALA	SANAUR	npp	30.13900	76.28520	5/10/2022	13:40:51	D	4.30
360	PATIALA	SANAUR	npp	30.25140	76.35420	5/10/2022	13:40:51	D	4.20
361	RUPNAGAR	CHAMKAUR SAHIB	npp	30.93000	76.42180	5/10/2022	13:40:51	D	3.40
362	RUPNAGAR	CHAMKAUR SAHIB	npp	30.93070	76.36500	5/10/2022	13:40:51	D	3.40
363	RUPNAGAR	MORINDA	npp	30.82400	76.52950	5/10/2022	13:40:51	D	5.70
364	RUPNAGAR	MORINDA	npp	30.84880	76.45290	5/10/2022	13:40:51	D	2.70
365	RUPNAGAR	NURPUR BEDI	npp	31.11320	76.57090	5/10/2022	13:40:51	D	2.30
366	RUPNAGAR	RUPNAGAR	npp	30.92130	76.47500	5/10/2022	13:40:51	D	4.70
367	RUPNAGAR	RUPNAGAR	npp	30.92500	76.47440	5/10/2022	13:40:51	D	9.00
368	RUPNAGAR	RUPNAGAR	npp	31.05390	76.56080	5/10/2022	13:40:51	D	6.00
369	RUPNAGAR	RUPNAGAR	npp	31.11230	76.57260	5/10/2022	13:40:51	D	4.00
370	SANGRUR	ANDANA	npp	29.79570	75.99960	5/10/2022	13:40:51	D	6.80
371	SANGRUR	ANDANA	npp	29.79930	75.99900	5/10/2022	13:40:51	D	4.40
372	SANGRUR	BHAWANIGARH	npp	30.20200	75.98290	5/10/2022	13:40:51	D	5.90
373	SANGRUR	BHAWANIGARH	npp	30.24160	76.00540	5/10/2022	13:40:51	D	4.10
374	SANGRUR	BHAWANIGARH	npp	30.28300	76.04240	5/10/2022	13:40:51	D	5.60
375	SANGRUR	BHAWANIGARH	npp	30.31180	76.12250	5/10/2022	13:40:51	D	5.20
376	SANGRUR	BHAWANIGARH	npp	30.31490	76.11710	5/10/2022	13:40:51	D	7.00
377	SANGRUR	DHURI	Terra	30.37900	75.81700	5/10/2022	11:23:22	D	11.70
378	SANGRUR	DHURI	npp	30.36970	75.96640	5/10/2022	13:40:51	D	5.10

379	SANGRUR	DHURI	npp	30.37330	75.96580	5/10/2022	13:40:51	D	5.10
380	SANGRUR	DHURI	npp	30.39750	75.97350	5/10/2022	13:40:51	D	5.80
381	SANGRUR	DHURI	npp	30.39960	75.81380	5/10/2022	13:40:51	D	3.40
382	SANGRUR	DHURI	npp	30.40550	75.86080	5/10/2022	13:40:51	D	4.00
383	SANGRUR	DIRBA	npp	30.08040	76.07860	5/10/2022	13:40:51	D	2.00
384	SANGRUR	DIRBA	npp	30.08370	76.08040	5/10/2022	13:40:51	D	5.40
385	SANGRUR	DIRBA	npp	30.08400	76.07800	5/10/2022	13:40:51	D	2.00
386	SANGRUR	MALERKOTLA-1	npp	30.41490	75.96570	5/10/2022	13:40:51	D	15.00
387	SANGRUR	MALERKOTLA-1	npp	30.42560	75.99320	5/10/2022	13:40:51	D	4.40
388	SANGRUR	MALERKOTLA-1	npp	30.43110	75.91930	5/10/2022	13:40:51	D	5.80
389	SANGRUR	MALERKOTLA-1	npp	30.45990	76.03150	5/10/2022	13:40:51	D	5.30
390	SANGRUR	MALERKOTLA-1	npp	30.46530	75.98660	5/10/2022	13:40:51	D	3.70
391	SANGRUR	MALERKOTLA-1	npp	30.55190	75.96900	5/10/2022	13:40:51	D	11.50
392	SANGRUR	MALERKOTLA-1	npp	30.57720	75.96490	5/10/2022	13:40:51	D	7.00
393	SANGRUR	MALERKOTLA-1	npp	30.58140	75.96900	5/10/2022	13:40:51	D	3.60
394	SANGRUR	MALERKOTLA-1	npp	30.60130	76.00980	5/10/2022	13:40:51	D	8.50
395	SANGRUR	MALERKOTLA-1	npp	30.61370	76.01550	5/10/2022	13:40:51	D	6.70
396	SANGRUR	MALERKOTLA-2	npp	30.56210	75.81700	5/10/2022	13:40:51	D	7.00
397	SANGRUR	MALERKOTLA-2	npp	30.56570	75.81640	5/10/2022	13:40:51	D	5.30
398	SANGRUR	MALERKOTLA-2	npp	30.57560	75.72350	5/10/2022	13:40:51	D	4.20
399	SANGRUR	MALERKOTLA-2	npp	30.63320	75.81730	5/10/2022	13:40:51	D	6.00
400	SANGRUR	MALERKOTLA-2	npp	30.63620	75.81200	5/10/2022	13:40:51	D	3.30
401	SANGRUR	SANGRUR	npp	30.28020	75.83670	5/10/2022	13:40:51	D	1.40
402	SANGRUR	SANGRUR	npp	30.30150	75.91960	5/10/2022	13:40:51	D	2.20
403	SANGRUR	SHER PUR	npp	30.39310	75.76220	5/10/2022	13:40:51	D	4.80
404	SANGRUR	SHER PUR	npp	30.42940	75.78960	5/10/2022	13:40:51	D	2.40
405	SANGRUR	SHER PUR	npp	30.46430	75.69310	5/10/2022	13:40:51	D	3.70
406	SANGRUR	SUNAM	npp	30.08570	75.88500	5/10/2022	13:40:51	D	2.30
407	SANGRUR	SUNAM	npp	30.09650	75.79750	5/10/2022	13:40:51	D	2.40
408	SAS NAGAR (MOHALI)	KHARAR	npp	30.76380	76.54210	5/10/2022	13:40:51	D	4.40
409	SAS NAGAR (MOHALI)	MAJRI	npp	30.85170	76.69830	5/10/2022	13:40:51	D	3.00
410	SBS NAGAR	AUR	Terra	31.12400	75.97800	5/10/2022	11:23:22	D	16.40

411	SBS NAGAR	AUR	npp	31.03760	75.97080	5/10/2022	13:40:51	D	4.70
412	SBS NAGAR	AUR	npp	31.03820	75.97570	5/10/2022	13:40:51	D	4.70
413	SBS NAGAR	AUR	npp	31.03840	75.97370	5/10/2022	13:40:51	D	12.40
414	SBS NAGAR	AUR	npp	31.05590	75.99570	5/10/2022	13:40:51	D	5.10
415	SBS NAGAR	AUR	npp	31.08980	76.03000	5/10/2022	13:40:51	D	5.20
416	SBS NAGAR	AUR	npp	31.12730	75.97380	5/10/2022	13:40:51	D	3.60
417	SBS NAGAR	AUR	npp	31.13460	76.00260	5/10/2022	13:40:51	D	6.20
418	SBS NAGAR	AUR	npp	31.14170	75.94160	5/10/2022	13:40:51	D	2.90
419	SBS NAGAR	BALACHAUR	npp	30.99910	76.38710	5/10/2022	13:40:51	D	5.20
420	SBS NAGAR	NAWAN SHAHR	npp	31.03360	76.20740	5/10/2022	13:40:51	D	7.30
421	SBS NAGAR	NAWAN SHAHR	npp	31.05690	76.21370	5/10/2022	13:40:51	D	2.60
422	SBS NAGAR	NAWAN SHAHR	npp	31.11280	76.06630	5/10/2022	13:40:51	D	12.80
423	SBS NAGAR	SAROYA	npp	31.17390	76.24080	5/10/2022	13:40:51	D	3.50
424	TARN TARAN	BHIKHIWIND	npp	31.24320	74.65230	5/10/2022	13:40:51	D	4.40
425	TARN TARAN	CHOHLA SAHIB	npp	31.28540	74.94450	5/10/2022	13:40:51	D	3.70
426	TARN TARAN	CHOHLA SAHIB	npp	31.29400	74.92920	5/10/2022	13:40:51	D	5.30
427	TARN TARAN	CHOHLA SAHIB	npp	31.29460	74.93360	5/10/2022	13:40:51	D	5.80
428	TARN TARAN	CHOHLA SAHIB	npp	31.29810	74.93300	5/10/2022	13:40:51	D	14.60
429	TARN TARAN	CHOHLA SAHIB	npp	31.37950	75.05840	5/10/2022	13:40:51	D	3.50
430	TARN TARAN	NAUSHERA PANNUAN	npp	31.35440	75.03040	5/10/2022	13:40:51	D	2.80
431	TARN TARAN	PATTI	npp	31.15870	74.93380	5/10/2022	13:40:51	D	6.90
432	TARN TARAN	PATTI	npp	31.25670	74.75360	5/10/2022	13:40:51	D	3.90
433	TARN TARAN	PATTI	npp	31.30010	74.81390	5/10/2022	13:40:51	D	9.50
434	TARN TARAN	PATTI	npp	31.30360	74.81330	5/10/2022	13:40:51	D	4.60
435	TARN TARAN	PATTI	npp	31.33530	74.88190	5/10/2022	13:40:51	D	7.50
436	TARN TARAN	TARN TARAN	npp	31.38500	74.82730	5/10/2022	13:40:51	D	8.60
437	TARN TARAN	TARN TARAN	npp	31.46150	74.88880	5/10/2022	13:40:51	D	3.30

Details of wheat residue burning events in Haryana on 10-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA-I	npp	30.34940	76.91780	5/10/2022	13:40:51	D	2.70
2	AMBALA	SHAHZADPUR	npp	30.42870	77.04250	5/10/2022	13:40:51	D	4.00
3	BHIWANI	BAWANI KHERA	npp	29.02470	76.11430	5/10/2022	13:40:51	D	6.50
4	CHARKHI DADRI	DADRI-I	npp	28.56580	76.24300	5/10/2022	13:40:51	D	9.00
5	FARIDABAD	FARIDABAD	npp	28.43930	77.41140	5/10/2022	13:40:51	D	2.70
6	FARIDABAD	FARIDABAD	npp	28.44310	77.41080	5/10/2022	13:40:51	D	2.70
7	FATEHABAD	BHUNA	npp	29.62410	75.66960	5/10/2022	13:40:51	D	3.90
8	FATEHABAD	FATEHABAD	npp	29.56730	75.48040	5/10/2022	13:40:51	D	8.80
9	FATEHABAD	RATIA	npp	29.61250	75.60700	5/10/2022	13:40:51	D	6.70
10	FATEHABAD	TOHANA	npp	29.61800	75.76340	5/10/2022	13:40:51	D	7.30
11	JHAJJAR	MATANHAIL	npp	28.58300	76.43480	5/10/2022	13:40:51	D	10.30
12	JIND	JIND	npp	29.37870	76.24850	5/10/2022	13:40:51	D	4.70
13	JIND	NARWANA	npp	29.67430	76.06590	5/10/2022	13:40:51	D	3.50
14	JIND	UCHANA	npp	29.56410	76.10110	5/10/2022	13:40:51	D	4.10
15	KAITHAL	KAITHAL	npp	29.75460	76.26580	5/10/2022	13:40:51	D	4.10
16	KAITHAL	KAITHAL	npp	29.87250	76.49660	5/10/2022	13:40:51	D	2.70
17	KARNAL	ASSANDH	npp	29.46610	76.53320	5/10/2022	13:40:51	D	2.90
18	KARNAL	ASSANDH	npp	29.57160	76.82700	5/10/2022	13:40:51	D	2.20
19	KARNAL	NILOKHERI	npp	29.84990	76.88200	5/10/2022	13:40:51	D	2.30
20	KURUKSHETRA	PEHOWA	npp	30.06600	76.50480	5/10/2022	13:40:51	D	1.90
21	PANIPAT	ISRANA	npp	29.27000	76.89740	5/10/2022	13:40:51	D	2.90
22	PANIPAT	MADLAUDA	npp	29.44000	76.91510	5/10/2022	13:40:51	D	2.40
23	PANIPAT	MADLAUDA	npp	29.44140	76.91740	5/10/2022	13:40:51	D	4.10
24	ROHTAK	MEHAM	npp	28.91930	76.34250	5/10/2022	13:40:51	D	11.20
25	SIRSA	DABWALI	npp	29.88320	74.57580	5/10/2022	13:40:51	D	2.10
26	SIRSA	DABWALI	npp	29.93560	74.52890	5/10/2022	13:40:51	D	4.40
27	SIRSA	ELLENABAD	npp	29.52180	74.63470	5/10/2022	13:40:51	D	8.50
28	SIRSA	RANIA	npp	29.48310	74.88220	5/10/2022	13:40:51	D	8.70
29	SONIPAT	GOHANA	npp	29.10400	76.83220	5/10/2022	13:40:51	D	3.00

30	SONIPAT	KATHURA	npp	29.11920	76.63610	5/10/2022	13:40:51	D	4.10
31	SONIPAT	MUNDLANA	npp	29.19020	76.78520	5/10/2022	13:40:51	D	6.20
32	YAMUNANAGAR	JAGADHRI	npp	30.16630	77.35320	5/10/2022	13:40:51	D	3.50
33	YAMUNANAGAR	RADAUR	npp	30.01400	77.26830	5/10/2022	13:40:51	D	4.30
34	YAMUNANAGAR	RADAUR	npp	30.11970	77.15140	5/10/2022	13:40:51	D	3.40

Details of wheat residue burning events in Uttar Pradesh on 10-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ALLAHABAD	BARA	npp	25.13740	81.62940	5/10/2022	13:40:51	D	4.60
2	ALLAHABAD	KORAWN	npp	25.01830	82.07780	5/10/2022	00:51:16	N	1.10
3	AMBEDKARNAGAR	AKBARPUR	npp	26.40290	82.69650	5/10/2022	13:40:51	D	3.50
4	AURAIYA	BIDHUNA	npp	26.63920	79.47810	5/10/2022	02:31:34	N	2.50
5	AURAIYA	BIDHUNA	npp	26.63940	79.47720	5/10/2022	02:31:34	N	1.40
6	AURAIYA	BIDHUNA	npp	26.64390	79.47940	5/10/2022	02:31:34	N	2.50
7	AURAIYA	BIDHUNA	npp	26.64410	79.47850	5/10/2022	02:31:34	N	1.40
8	BALLIA	BAIRIA	Aqua	25.77600	84.51300	5/10/2022	12:55:49	D	10.30
9	BALLIA	BAIRIA	Aqua	25.77900	84.52600	5/10/2022	12:55:49	D	14.30
10	BALLIA	BAIRIA	npp	25.77870	84.53080	5/10/2022	13:40:51	D	3.60
11	BALLIA	RASRA	npp	25.87990	83.97950	5/10/2022	12:01:16	D	9.50
12	BALLIA	RASRA	npp	25.88460	83.97660	5/10/2022	12:01:16	D	3.70
13	BALLIA	RASRA	npp	25.95730	83.93140	5/10/2022	13:40:51	D	4.00
14	BALLIA	SIKANDARPUR	npp	26.09620	83.99990	5/10/2022	13:40:51	D	5.90
15	BALLIA	SIKANDARPUR	npp	26.09680	84.00000	5/10/2022	13:40:51	D	6.30
16	BALRAMPUR	TULSIPUR	npp	27.37310	82.52990	5/10/2022	13:40:51	D	3.20
17	BANDA	BANDA	npp	25.61990	80.59230	5/10/2022	13:40:51	D	6.20
18	BARABANKI	HAIDARGARH	npp	26.57620	81.43980	5/10/2022	13:40:51	D	5.50
19	BAREILLY	BAHERI	npp	28.77280	79.53450	5/10/2022	13:40:51	D	2.30
20	BAREILLY	BAHERI	npp	28.81780	79.48780	5/10/2022	13:40:51	D	15.00
21	BAREILLY	FARIDPUR	npp	28.10960	79.64940	5/10/2022	13:40:51	D	5.30
22	BAREILLY	FARIDPUR	npp	28.22920	79.69090	5/10/2022	13:40:51	D	6.80
23	BAREILLY	MIRGANJ	npp	28.64290	79.24410	5/10/2022	13:40:51	D	3.20
24	BAREILLY	NAWABGANJ	npp	28.59940	79.56390	5/10/2022	13:40:51	D	9.70
25	BASTI	BHANPUR	npp	27.08490	82.67680	5/10/2022	13:40:51	D	4.30
26	BIJNOR	NAJIBABAD	npp	29.67970	78.41420	5/10/2022	13:40:51	D	6.10
27	BIJNOR	NAJIBABAD	npp	29.70310	78.40250	5/10/2022	13:40:51	D	3.90
28	DEORIA	BARHAJ	npp	26.32420	83.72970	5/10/2022	13:40:51	D	4.20
29	FATEHPUR	FATEHPUR	npp	25.91150	80.94700	5/10/2022	13:40:51	D	9.20

30	GAZIPUR	MUHAMMADBAD	npp	25.55030	83.86620	5/10/2022	12:01:16	D	3.90
31	GAZIPUR	MUHAMMADBAD	npp	25.61250	83.92610	5/10/2022	13:40:51	D	3.20
32	GAZIPUR	ZAMANIA	npp	25.46770	83.80920	5/10/2022	13:40:51	D	2.20
33	GAZIPUR	ZAMANIA	npp	25.47010	83.80830	5/10/2022	13:40:51	D	2.80
34	GAZIPUR	ZAMANIA	npp	25.53260	83.65310	5/10/2022	13:40:51	D	1.70
35	GORAKHPUR	CAMPIERGANJ	npp	27.08730	83.20980	5/10/2022	13:40:51	D	6.70
36	GORAKHPUR	CAMPIERGANJ	npp	27.08800	83.20860	5/10/2022	13:40:51	D	6.70
37	GORAKHPUR	GOLA	npp	26.28390	83.45810	5/10/2022	12:01:16	D	12.40
38	GORAKHPUR	GOLA	npp	26.28650	83.45830	5/10/2022	12:01:16	D	17.00
39	GORAKHPUR	GOLA	npp	26.32400	83.46680	5/10/2022	13:40:51	D	5.40
40	GORAKHPUR	GORAKHPUR	npp	26.81170	83.32190	5/10/2022	13:40:51	D	3.30
41	GORAKHPUR	SAHJANWA	Aqua	26.85700	83.23200	5/10/2022	12:55:49	D	22.90
42	GORAKHPUR	SAHJANWA	npp	26.68520	83.13030	5/10/2022	13:40:51	D	1.50
43	HARDOI	SHAHABAD	npp	27.68580	80.22650	5/10/2022	13:40:51	D	6.80
44	HARDOI	SIWAIJPUR	npp	27.71490	79.74570	5/10/2022	13:40:51	D	7.50
45	HARDOI	SIWAIJPUR	npp	27.71680	79.74300	5/10/2022	13:40:51	D	4.40
46	HARDOI	SIWAIJPUR	npp	27.71720	79.74760	5/10/2022	13:40:51	D	4.40
47	JHANSI	GARAUTHA	npp	25.76630	79.30990	5/10/2022	13:40:51	D	5.90
48	KANPUR	BILHAUR	npp	26.65410	80.04510	5/10/2022	13:40:51	D	6.20
49	KANPUR	BILHAUR	npp	26.65460	80.04960	5/10/2022	13:40:51	D	11.40
50	KANPUR DEHAT	AKBARPUR	npp	26.40650	79.93050	5/10/2022	13:40:51	D	4.70
51	KANPUR DEHAT	AKBARPUR	npp	26.40700	79.93500	5/10/2022	13:40:51	D	6.20
52	KANPUR DEHAT	AKBARPUR	npp	26.41130	79.93440	5/10/2022	13:40:51	D	5.60
53	KANPUR DEHAT	RASULABAD	npp	26.73730	79.79150	5/10/2022	13:40:51	D	4.30
54	KHERI	PALIA KALAN	npp	28.43630	80.39160	5/10/2022	13:40:51	D	5.50
55	KHERI	PALIA KALAN	npp	28.43800	80.39310	5/10/2022	13:40:51	D	6.10
56	LACKNOW	LUCKNOW	npp	26.75600	80.74980	5/10/2022	13:40:51	D	6.10
57	LACKNOW	LUCKNOW	npp	26.76000	80.74430	5/10/2022	13:40:51	D	8.70
58	LACKNOW	LUCKNOW	npp	26.76130	80.74600	5/10/2022	13:40:51	D	9.40
59	LACKNOW	MOHANLAL GANJ	npp	26.65360	80.92370	5/10/2022	13:40:51	D	2.30
60	LALITPUR	LALITPUR	Terra	24.84200	78.35600	5/10/2022	11:23:22	D	36.20
61	MAHARAJGANJ	PHARENDA	npp	27.08760	83.21350	5/10/2022	13:40:51	D	6.70
62	MAHARAJGANJ	PHARENDA	npp	27.08840	83.21220	5/10/2022	13:40:51	D	6.70

63	MAHARAJGANJ	PHARENDA	npp	27.09230	83.20570	5/10/2022	13:40:51	D	13.60
64	MAHARAJGANJ	PHARENDA	npp	27.09260	83.20930	5/10/2022	13:40:51	D	6.70
65	MAHARAJGANJ	PHARENDA	npp	27.09300	83.20440	5/10/2022	13:40:51	D	7.50
66	MAHARAJGANJ	PHARENDA	npp	27.09330	83.20800	5/10/2022	13:40:51	D	6.70
67	MAINPURI	MAINPURI	npp	27.14130	78.96070	5/10/2022	13:40:51	D	3.30
68	MAINPURI	MAINPURI	npp	27.30950	78.76970	5/10/2022	13:40:51	D	5.70
69	MAU	MADHUBAN	npp	26.03850	83.64880	5/10/2022	00:51:16	N	1.30
70	MAU	MAU	npp	25.91260	83.72510	5/10/2022	13:40:51	D	1.90
71	MUZAFARNAGAR	JANSATH	npp	29.31490	78.02320	5/10/2022	13:40:51	D	4.70
72	MUZAFARNAGAR	KHATOLI	npp	29.38690	77.75180	5/10/2022	13:40:51	D	3.20
73	MUZAFARNAGAR	MUZAFFARNAGAR	npp	29.64270	77.97640	5/10/2022	13:40:51	D	2.90
74	PILHIBHIT	BISALPUR	npp	28.16500	79.92240	5/10/2022	13:40:51	D	7.50
75	PILHIBHIT	BISALPUR	npp	28.16560	79.92470	5/10/2022	13:40:51	D	4.80
76	PILHIBHIT	BISALPUR	npp	28.17470	79.92830	5/10/2022	13:40:51	D	6.50
77	PILHIBHIT	BISALPUR	npp	28.17470	79.93080	5/10/2022	13:40:51	D	5.80
78	PILHIBHIT	BISALPUR	npp	28.18130	79.81850	5/10/2022	13:40:51	D	6.30
79	PILHIBHIT	PURANPUR	npp	28.33560	80.15730	5/10/2022	13:40:51	D	4.80
80	PILHIBHIT	PURANPUR	npp	28.37920	80.05830	5/10/2022	13:40:51	D	15.40
81	PILHIBHIT	PURANPUR	npp	28.49630	80.07420	5/10/2022	13:40:51	D	3.00
82	PILHIBHIT	PURANPUR	npp	28.58490	80.07000	5/10/2022	13:40:51	D	5.60
83	PILHIBHIT	PURANPUR	npp	28.58650	80.08460	5/10/2022	13:40:51	D	5.60
84	PILHIBHIT	PURANPUR	npp	28.61040	80.11320	5/10/2022	13:40:51	D	4.50
85	PILHIBHIT	PURANPUR	npp	28.65180	80.07820	5/10/2022	13:40:51	D	7.70
86	RAMPUR	BILASPUR	npp	28.75540	79.26060	5/10/2022	13:40:51	D	3.50
87	RAMPUR	BILASPUR	npp	28.89300	79.35110	5/10/2022	13:40:51	D	2.70
88	RAMPUR	BILASPUR	npp	28.90580	79.22790	5/10/2022	13:40:51	D	3.90
89	RAMPUR	BILASPUR	npp	28.90630	79.23230	5/10/2022	13:40:51	D	3.90
90	SANTKABIRNAGAR	GHANGHATA	npp	26.65290	83.00630	5/10/2022	13:40:51	D	2.50
91	SANTKABIRNAGAR	GHANGHATA	npp	26.65390	83.00680	5/10/2022	13:40:51	D	2.30
92	SANTKABIRNAGAR	KHALILABAD	npp	26.66650	83.09960	5/10/2022	13:40:51	D	2.00
93	SANTKABIRNAGAR	KHALILABAD	npp	26.66690	83.10030	5/10/2022	13:40:51	D	2.40
94	SANTKABIRNAGAR	KHALILABAD	npp	26.66690	83.10310	5/10/2022	13:40:51	D	4.90
95	SHAHJAHANPUR	JALALABAD	npp	27.69090	79.68510	5/10/2022	13:40:51	D	3.90

96	SHAHJAHANPUR	PUWANYA	npp	28.04460	80.00320	5/10/2022	13:40:51	D	4.40
97	SHAHJAHANPUR	PUWANYA	npp	28.24170	80.02060	5/10/2022	13:40:51	D	3.10
98	SHAHJAHANPUR	SHAHJAHANPUR	Aqua	27.84000	79.62800	5/10/2022	12:55:49	D	36.70
99	SHAHJAHANPUR	SHAHJAHANPUR	npp	27.84250	79.63230	5/10/2022	13:40:51	D	16.30
100	SHAHJAHANPUR	SHAHJAHANPUR	npp	27.84680	79.63170	5/10/2022	13:40:51	D	8.20
101	SHAHJAHANPUR	SHAHJAHANPUR	npp	27.84730	79.63620	5/10/2022	13:40:51	D	9.30
102	SHAHJAHANPUR	TILHAR	npp	28.03370	79.58650	5/10/2022	13:40:51	D	3.60
103	SHAHJAHANPUR	TILHAR	npp	28.04870	79.64830	5/10/2022	13:40:51	D	4.50
104	SHAHJAHANPUR	TILHAR	npp	28.04920	79.65280	5/10/2022	13:40:51	D	4.50
105	SHARANPUR	NAKUR	npp	29.78610	77.15140	5/10/2022	13:40:51	D	4.70
106	SIDDHARTHANAGAR	DOMARIYAGANJ	npp	27.13650	82.54740	5/10/2022	00:51:16	N	1.00
107	SIDDHARTHANAGAR	NAUGARH	npp	27.42520	83.09150	5/10/2022	13:40:51	D	4.10
108	SIDDHARTHANAGAR	SHOHRATGARH	npp	27.35450	82.99630	5/10/2022	13:40:51	D	2.80
109	SIDDHARTHANAGAR	SHOHRATGARH	npp	27.42960	83.01540	5/10/2022	13:40:51	D	3.70
110	SIDDHARTHANAGAR	SHOHRATGARH	npp	27.42990	83.01890	5/10/2022	13:40:51	D	4.10
111	UNNAO	BIGHAPUR	npp	26.22770	80.81610	5/10/2022	13:40:51	D	4.10
112	UNNAO	HASANGANJ	npp	26.65280	80.65470	5/10/2022	13:40:51	D	5.30
113	UNNAO	HASANGANJ	npp	26.65540	80.65670	5/10/2022	13:40:51	D	9.50

Details of wheat residue burning events in Madhya Pradesh on 10-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	ASHOKNAGAR	ASHOKNAGAR	npp	24.63100	77.48820	5/10/2022	13:40:51	D	17.70
2	ASHOKNAGAR	MUNGAOLI	npp	24.36590	78.11930	5/10/2022	02:31:34	N	1.60
3	BALAGHAT	BALAGHAT	npp	21.91720	80.19190	5/10/2022	13:40:51	D	11.20
4	BETUL	AMLAL	npp	21.92020	78.26210	5/10/2022	13:40:51	D	8.00
5	BETUL	AMLAL	npp	21.95190	78.24810	5/10/2022	13:40:51	D	7.40
6	BETUL	BETUL	npp	22.00290	77.67200	5/10/2022	13:40:51	D	17.30
7	BETUL	MULTAI	npp	21.74340	78.10190	5/10/2022	13:40:51	D	26.80
8	BETUL	MULTAI	npp	21.82420	78.04370	5/10/2022	13:40:51	D	17.30
9	BETUL	MULTAI	npp	21.82780	78.04310	5/10/2022	13:40:51	D	17.30

10	BHIND	GOHAD	npp	26.48710	78.27440	5/10/2022	13:40:51	D	3.30
11	BHIND	GOHAD	npp	26.50180	78.25880	5/10/2022	13:40:51	D	5.30
12	BHIND	GOHAD	npp	26.50240	78.26410	5/10/2022	13:40:51	D	5.30
13	BHIND	LAHAR	npp	26.06830	78.85760	5/10/2022	13:40:51	D	8.80
14	BHOPAL	BERASIYA	Terra	23.73600	77.23600	5/10/2022	11:23:22	D	26.90
15	BHOPAL	BERASIYA	npp	23.53120	77.36370	5/10/2022	13:40:51	D	26.70
16	CHHATARPUR	NOWGOAN	npp	25.02630	79.87890	5/10/2022	02:31:34	N	0.80
17	CHHATARPUR	RAJNAGAR	npp	25.02510	79.87860	5/10/2022	02:31:34	N	0.70
18	CHHINDWARA	CHAURAI	npp	21.95510	79.15960	5/10/2022	02:31:34	N	0.70
19	CHHINDWARA	CHAURAI	npp	21.95580	79.15620	5/10/2022	02:31:34	N	0.70
20	CHHINDWARA	CHAURAI	npp	21.96090	79.15750	5/10/2022	02:31:34	N	1.00
21	CHHINDWARA	CHAURAI	npp	22.01560	79.17800	5/10/2022	02:31:34	N	4.90
22	CHHINDWARA	CHAURAI	npp	22.01650	79.17800	5/10/2022	02:31:34	N	4.80
23	CHHINDWARA	CHAURAI	npp	22.04610	79.36370	5/10/2022	02:31:34	N	1.90
24	CHHINDWARA	CHHINDWARA	npp	22.05180	78.90350	5/10/2022	13:40:51	D	9.50
25	CHHINDWARA	PARASIA	npp	22.14090	78.85030	5/10/2022	02:31:34	N	0.70
26	DAMOH	JABERA	npp	23.69690	79.71090	5/10/2022	13:40:51	D	10.80
27	DATIA	DATIA	npp	25.57020	78.30380	5/10/2022	13:40:51	D	19.60
28	DATIA	DATIA	npp	25.62270	78.57600	5/10/2022	13:40:51	D	8.00
29	DATIA	DATIA	npp	25.62660	78.57540	5/10/2022	13:40:51	D	8.00
30	DATIA	DATIA	npp	25.62720	78.58080	5/10/2022	13:40:51	D	8.00
31	GUNA	GUNA	npp	24.71600	77.12620	5/10/2022	02:31:34	N	5.00
32	GUNA	GUNA	npp	24.99760	77.11500	5/10/2022	02:31:34	N	0.50
33	GUNA	GUNA	npp	25.06500	76.99990	5/10/2022	02:31:34	N	1.50
34	HOSHANGABAD	ITARSI	npp	22.50650	77.69860	5/10/2022	13:40:51	D	13.00
35	JABALPUR	JABALPUR	npp	23.03220	80.00180	5/10/2022	13:40:51	D	22.90
36	JABALPUR	JABALPUR	npp	23.15410	79.89090	5/10/2022	13:40:51	D	5.70
37	JABALPUR	PATAN	npp	23.33550	79.78740	5/10/2022	13:40:51	D	8.00
38	KATNI	BARHI	npp	23.91180	80.82380	5/10/2022	13:40:51	D	11.20
39	KATNI	BIJERAGHOGARH	Aqua	23.94200	80.70100	5/10/2022	12:55:49	D	172.70
40	KATNI	BIJERAGHOGARH	Aqua	23.94800	80.72700	5/10/2022	12:55:49	D	65.60
41	KATNI	BIJERAGHOGARH	npp	23.91610	80.82330	5/10/2022	13:40:51	D	11.20
42	KATNI	BIJERAGHOGARH	npp	23.94820	80.71380	5/10/2022	13:40:51	D	18.60

43	KATNI	BIJERAGHOGARH	npp	23.94870	80.71820	5/10/2022	13:40:51	D	16.70
44	KATNI	BIJERAGHOGARH	npp	23.95150	80.70420	5/10/2022	13:40:51	D	9.40
45	KATNI	BIJERAGHOGARH	npp	23.95310	80.71770	5/10/2022	13:40:51	D	8.20
46	KATNI	BIJERAGHOGARH	npp	23.95360	80.72220	5/10/2022	13:40:51	D	8.20
47	MANDLA	BACHHIYA	npp	22.39440	80.78240	5/10/2022	00:51:16	N	0.60
48	MANDLA	MANDLA	npp	22.53070	80.39650	5/10/2022	13:40:51	D	10.40
49	PANNA	GUNAU	npp	24.37550	80.26750	5/10/2022	13:40:51	D	10.70
50	RAISEN	GOHARGANJ	npp	22.99920	77.63420	5/10/2022	02:31:34	N	1.10
51	RAISEN	GOHARGANJ	npp	22.99950	77.63790	5/10/2022	02:31:34	N	1.60
52	RAISEN	RAISEN	npp	23.39170	77.71500	5/10/2022	13:40:51	D	58.60
53	RAISEN	RAISEN	npp	23.44120	77.58420	5/10/2022	02:31:34	N	1.00
54	RAISEN	RAISEN	npp	23.44560	77.58530	5/10/2022	02:31:34	N	1.00
55	RAISEN	RAISEN	npp	23.44640	77.58320	5/10/2022	02:31:34	N	0.60
56	RAISEN	SILVANI	npp	23.19500	78.59610	5/10/2022	13:40:51	D	30.30
57	RAJGARH	BIYAVRA	npp	23.87040	77.19210	5/10/2022	02:31:34	N	1.40
58	RAJGARH	BIYAVRA	npp	23.87130	77.18750	5/10/2022	02:31:34	N	1.70
59	RAJGARH	BIYAVRA	npp	23.87480	77.19320	5/10/2022	02:31:34	N	1.70
60	RAJGARH	BIYAVRA	npp	23.87570	77.18860	5/10/2022	02:31:34	N	3.20
61	RAJGARH	NARSINGGAR	npp	23.67430	76.89640	5/10/2022	02:31:34	N	4.30
62	RAJGARH	NARSINGGAR	npp	23.67520	76.89190	5/10/2022	02:31:34	N	4.50
63	RAJGARH	SARANGPUR	npp	23.62710	76.45430	5/10/2022	13:40:51	D	21.10
64	RATLAM	ALOTOT	npp	23.62540	75.38940	5/10/2022	13:40:51	D	16.30
65	RATLAM	ALOTOT	npp	23.73890	75.40030	5/10/2022	02:31:34	N	2.00
66	REWA	HUZUR	npp	24.47190	81.27180	5/10/2022	13:40:51	D	7.00
67	REWA	HUZUR	npp	24.47290	81.27330	5/10/2022	13:40:51	D	6.50
68	REWA	HUZUR	npp	24.47320	81.24160	5/10/2022	13:40:51	D	10.30
69	REWA	MAUGANJ	npp	24.73800	81.79770	5/10/2022	13:40:51	D	5.50
70	REWA	MAUGANJ	npp	24.74150	81.80020	5/10/2022	13:40:51	D	7.40
71	REWA	SIRMAUR	npp	24.70130	81.20040	5/10/2022	13:40:51	D	14.40
72	REWA	SIRMAUR	npp	24.70180	81.20540	5/10/2022	13:40:51	D	14.40
73	REWA	SIRMAUR	npp	24.70240	81.21030	5/10/2022	13:40:51	D	11.70
74	REWA	SIRMAUR	npp	24.70640	81.20480	5/10/2022	13:40:51	D	5.00
75	REWA	SIRMAUR	npp	24.73770	81.62910	5/10/2022	02:31:34	N	1.00

76	SAGAR	BINA	npp	24.21810	78.19690	5/10/2022	13:40:51	D	10.70
77	SATNA	AMARPATAN	npp	24.34310	80.91620	5/10/2022	13:40:51	D	11.50
78	SATNA	AMARPATAN	npp	24.46070	81.15500	5/10/2022	13:40:51	D	10.90
79	SATNA	AMARPATAN	npp	24.46170	81.07620	5/10/2022	13:40:51	D	12.60
80	SATNA	AMARPATAN	npp	24.46350	81.15320	5/10/2022	13:40:51	D	10.80
81	SATNA	AMARPATAN	npp	24.47060	81.07520	5/10/2022	13:40:51	D	16.40
82	SATNA	AMARPATAN	npp	24.47220	81.08970	5/10/2022	13:40:51	D	4.10
83	SATNA	AMARPATAN	npp	24.47510	81.07470	5/10/2022	13:40:51	D	16.40
84	SATNA	AMARPATAN	npp	24.47560	81.07950	5/10/2022	13:40:51	D	16.40
85	SATNA	AMARPATAN	npp	24.47660	81.08910	5/10/2022	13:40:51	D	4.10
86	SATNA	AMARPATAN	npp	24.48010	81.07890	5/10/2022	13:40:51	D	7.80
87	SATNA	MAIHAR	Aqua	24.33600	80.91000	5/10/2022	12:55:49	D	48.60
88	SATNA	MAIHAR	npp	24.09760	80.57090	5/10/2022	13:40:51	D	12.80
89	SATNA	MAIHAR	npp	24.16820	80.69500	5/10/2022	02:31:34	N	1.30
90	SATNA	MAIHAR	npp	24.33820	80.91210	5/10/2022	13:40:51	D	7.00
91	SATNA	MAIHAR	npp	24.34260	80.91160	5/10/2022	13:40:51	D	7.00
92	SATNA	NAGOD	npp	24.53850	80.54170	5/10/2022	13:40:51	D	8.50
93	SATNA	RAGURAJNAGAR	npp	24.63360	80.96580	5/10/2022	13:40:51	D	4.60
94	SATNA	RAGURAJNAGAR	npp	24.72630	80.67180	5/10/2022	13:40:51	D	11.70
95	SATNA	RAGURAJNAGAR	npp	24.72980	80.67000	5/10/2022	13:40:51	D	14.80
96	SATNA	RAGURAJNAGAR	npp	24.73060	80.67120	5/10/2022	13:40:51	D	14.20
97	SATNA	RAMPURBAGHLEAN	Aqua	24.52100	80.98400	5/10/2022	12:55:49	D	47.10
98	SATNA	RAMPURBAGHLEAN	npp	24.52050	80.99140	5/10/2022	13:40:51	D	10.30
99	SATNA	RAMPURBAGHLEAN	npp	24.52100	80.99620	5/10/2022	13:40:51	D	10.30
100	SATNA	RAMPURBAGHLEAN	npp	24.52150	81.00090	5/10/2022	13:40:51	D	8.90
101	SATNA	RAMPURBAGHLEAN	npp	24.52600	81.00040	5/10/2022	13:40:51	D	10.70
102	SATNA	RAMPURBAGHLEAN	npp	24.64670	81.00310	5/10/2022	13:40:51	D	15.10
103	SATNA	RAMPURBAGHLEAN	npp	24.64880	80.99930	5/10/2022	13:40:51	D	9.60
104	SATNA	RAMPURBAGHLEAN	npp	24.64930	81.00410	5/10/2022	13:40:51	D	9.60
105	SATNA	RAMPURBAGHLEAN	npp	24.64990	81.03200	5/10/2022	13:40:51	D	9.30
106	SATNA	RAMPURBAGHLEAN	npp	24.65120	81.00250	5/10/2022	13:40:51	D	10.00
107	SATNA	RAMPURBAGHLEAN	npp	24.68710	81.06310	5/10/2022	13:40:51	D	9.70
108	SATNA	RAMPURBAGHLEAN	npp	24.69210	81.06740	5/10/2022	13:40:51	D	8.50

109	SATNA	UCHAHAR	npp	24.40000	80.78180	5/10/2022	13:40:51	D	7.70
110	SATNA	UCHAHAR	npp	24.48840	80.86140	5/10/2022	13:40:51	D	12.10
111	SEHORE	SEHORE	npp	23.10770	77.15820	5/10/2022	02:31:34	N	3.40
112	SHAJAPUR	SUJALPUR	npp	23.30420	76.70070	5/10/2022	02:31:34	N	0.80
113	SHAJAPUR	SUJALPUR	npp	23.36040	76.66240	5/10/2022	13:40:51	D	25.40
114	SINGRAULI	CHITRANGI	npp	24.52160	82.66620	5/10/2022	13:40:51	D	3.60
115	UJJAIN	GHATIYA	Terra	23.34600	75.61900	5/10/2022	11:23:22	D	22.10
116	UJJAIN	KACHROD	npp	23.48280	75.22210	5/10/2022	13:40:51	D	18.90
117	UJJAIN	KACHROD	npp	23.49290	75.29090	5/10/2022	02:31:34	N	1.20
118	UMARIA	MANPUR	npp	23.93830	80.94620	5/10/2022	13:40:51	D	11.50
119	VIDESHA	VIDESHA	Terra	23.59200	77.85000	5/10/2022	11:23:22	D	46.90
120	VIDESHA	VIDESHA	npp	23.55270	77.91850	5/10/2022	02:31:34	N	3.50
121	VIDESHA	VIDESHA	npp	23.56510	77.90530	5/10/2022	02:31:34	N	2.50
122	VIDESHA	VIDESHA	npp	23.57620	77.81990	5/10/2022	13:40:51	D	19.40
123	VIDESHA	VIDESHA	npp	23.59600	77.84840	5/10/2022	02:31:34	N	1.60

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 masks for the Punjab and Haryana were provided by MNCFC, MoA&FW, Govt of India
The rabi crop masks for Delhi, Uttar Pradesh and Madhya Pradesh were provided by NRSC (ISRO)**

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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)
