



**Bulletin
No. 42**

**Events Date:
12-May-2022**

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13-May-2022**



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



Prepared by:

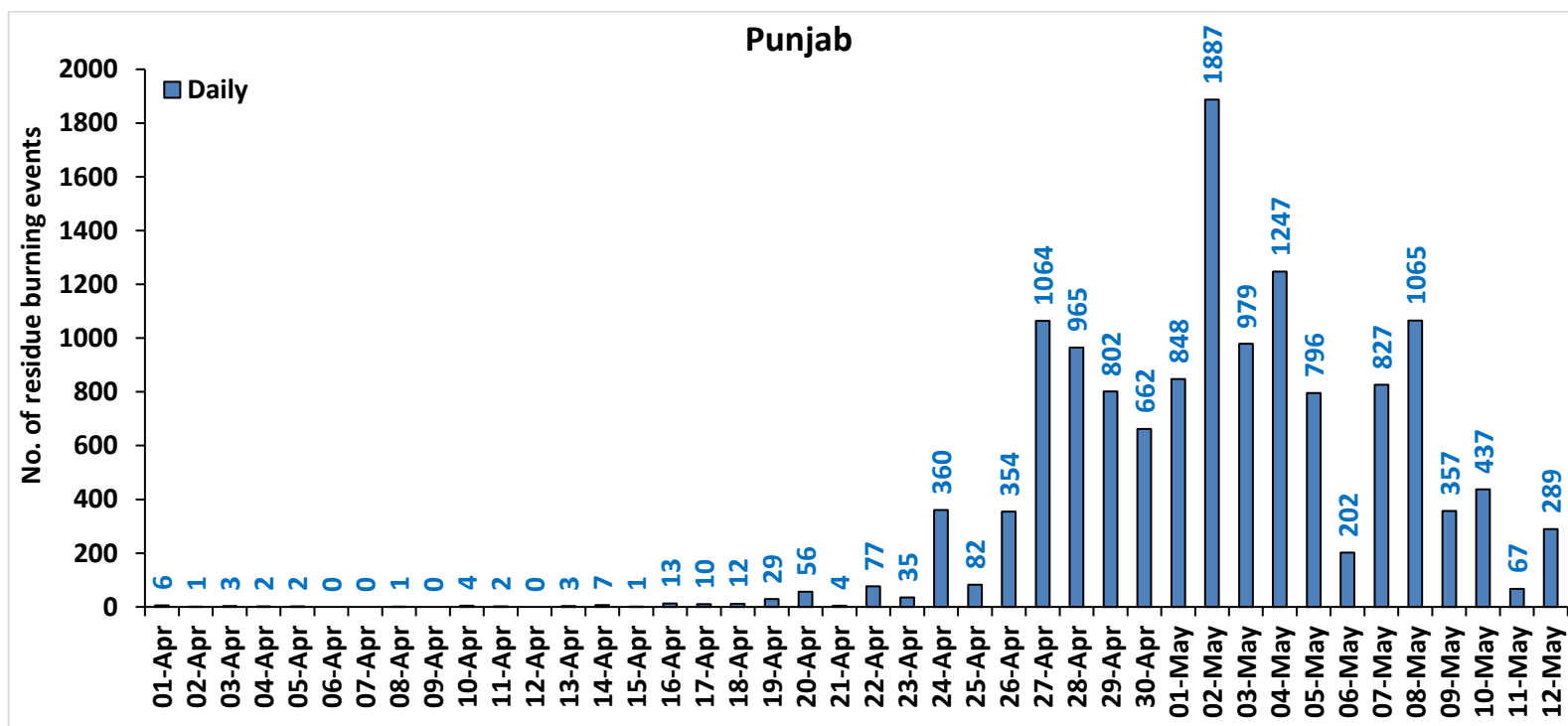
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

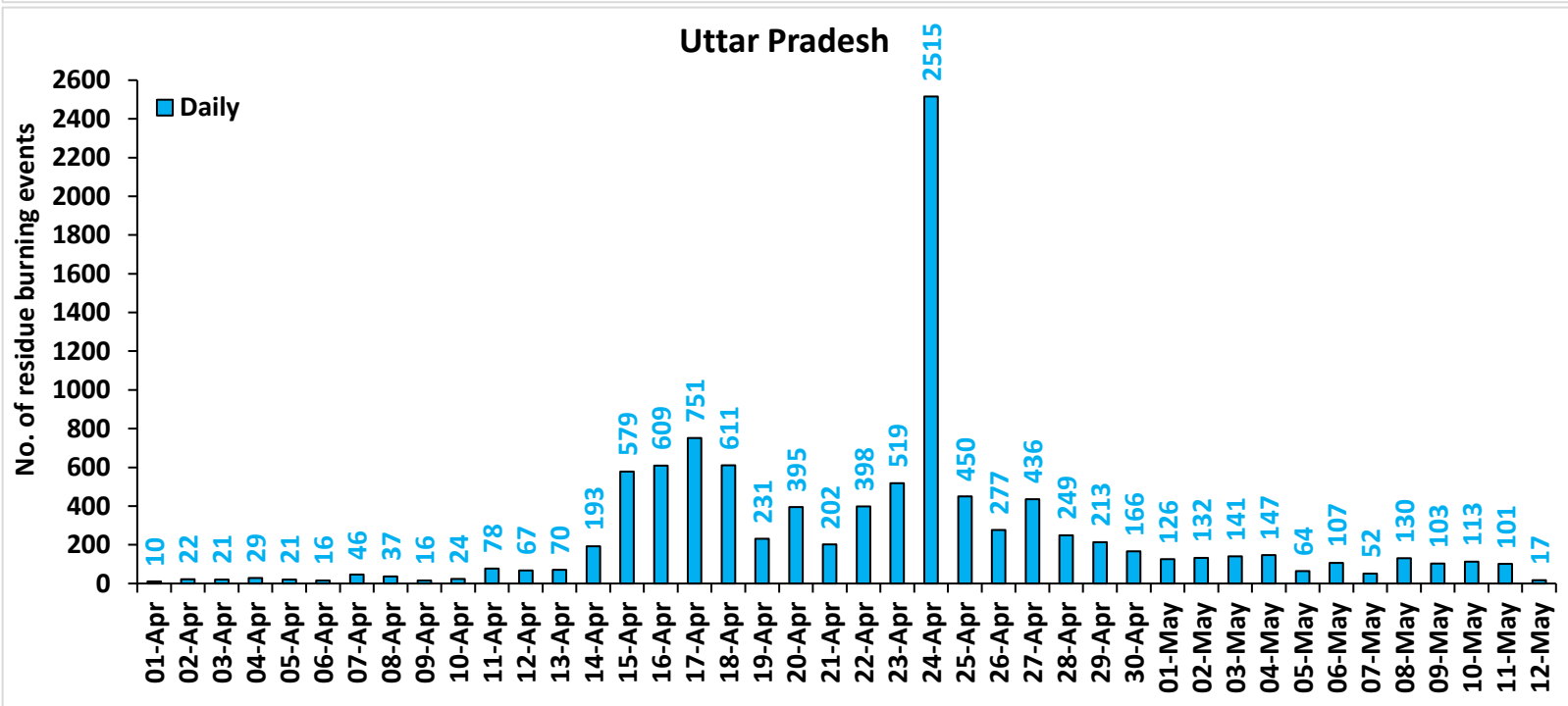
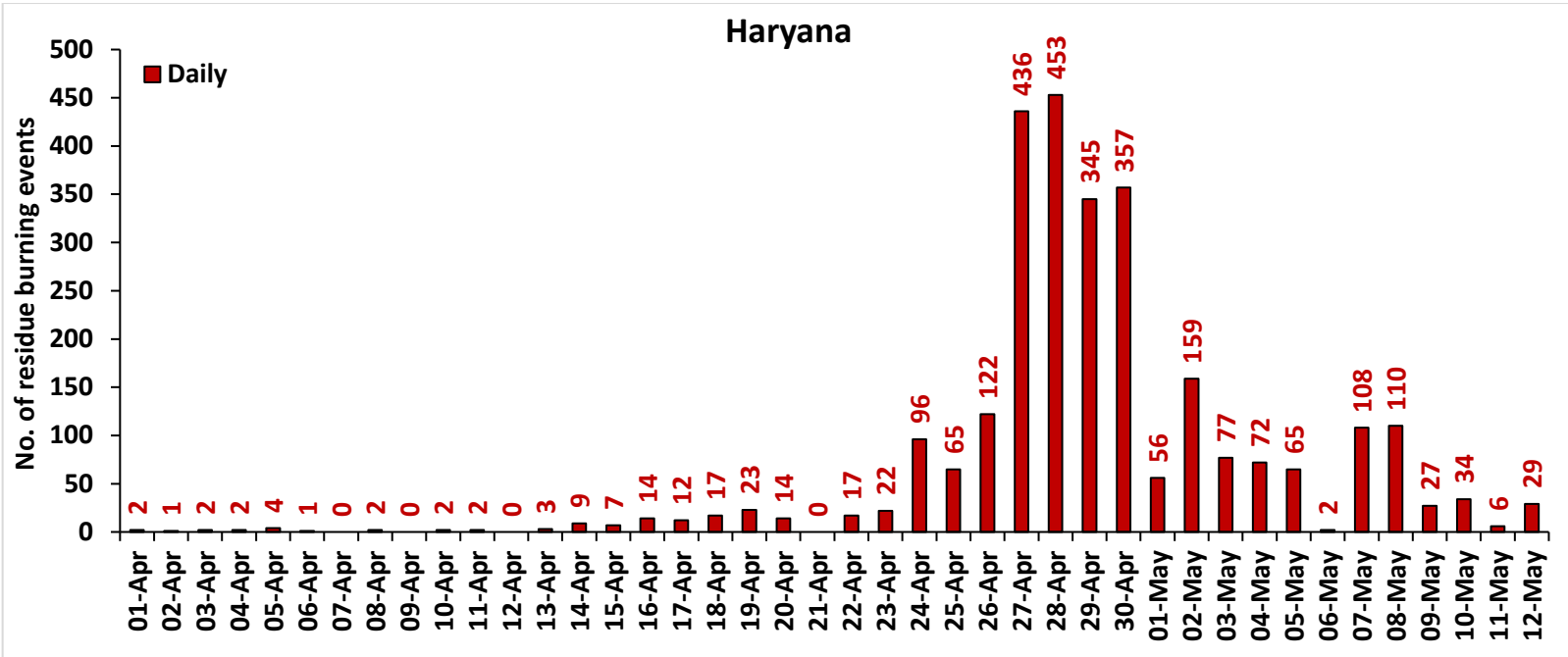
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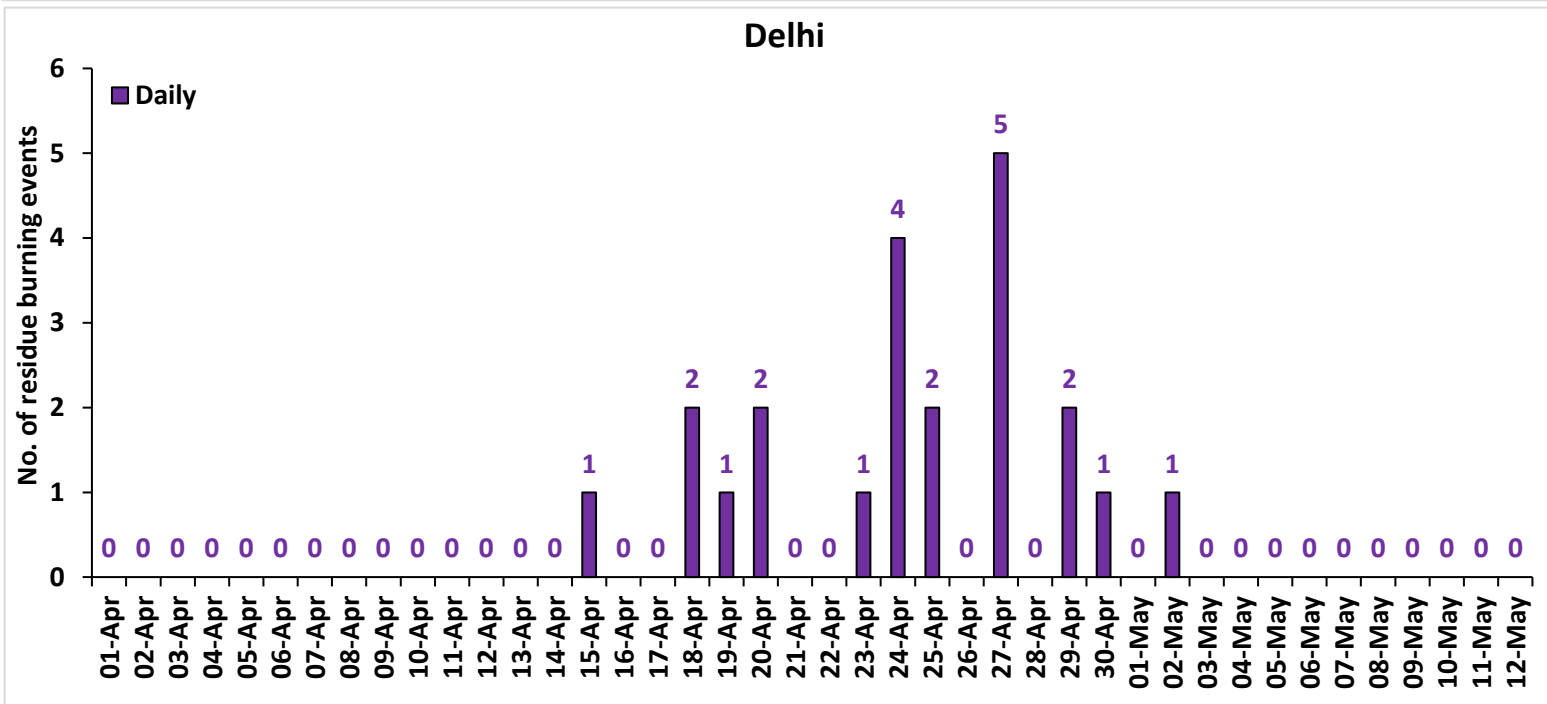
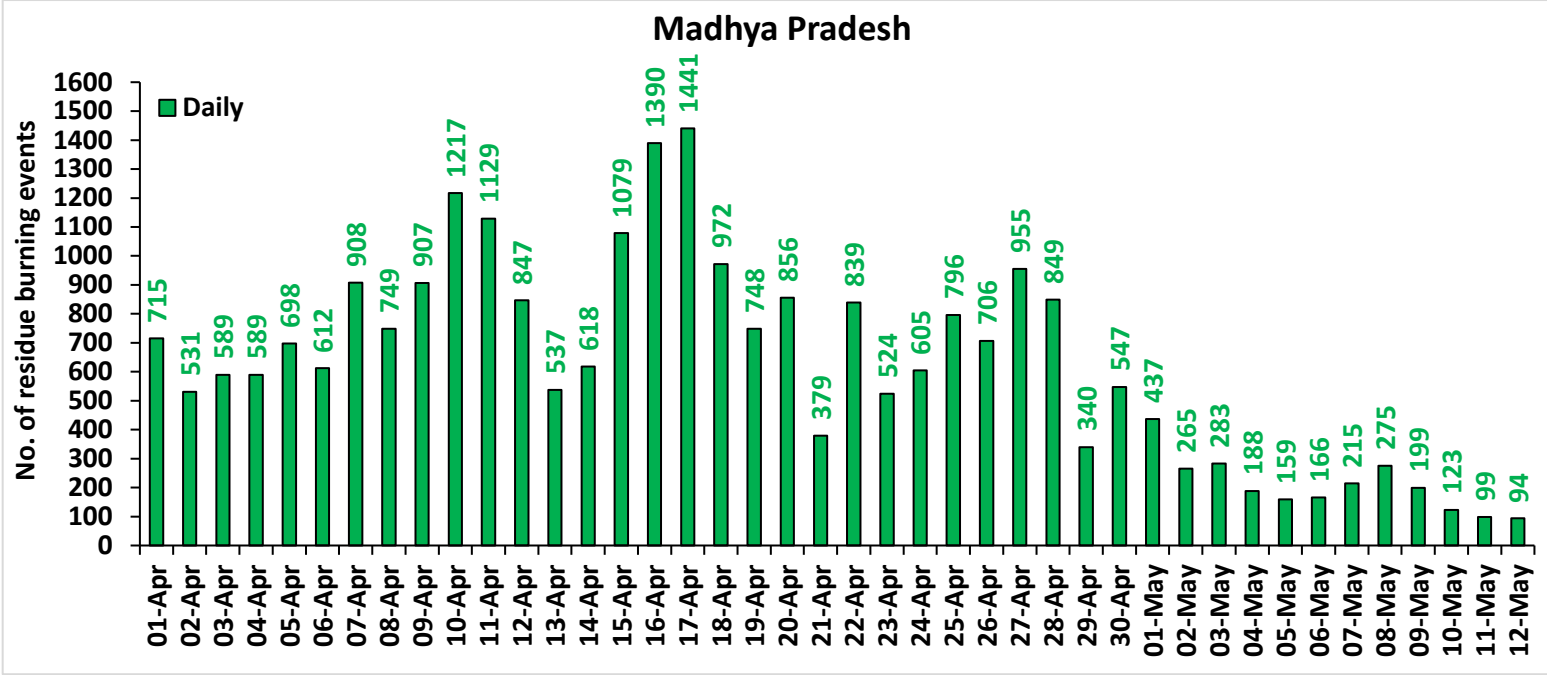
Highlights for 12-May-2022

- 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 **429** residue burning events in the five study States on 12-May-2022.
- The state wise events detected on 11-May-2022 were **289** in Punjab, **29** in Haryana, **00** in Delhi, **17** in Uttar Pradesh and **94** in Madhya Pradesh.
- The number of events has increased from **273** on 11-May-2022 to **429** on 12-May-2022 in the five study states.
- Total **53014** burning events were detected in the five states between 01-Apr-2022 and 12-May-2022, which are distributed as **13558**, **2775**, **10484**, **22**, and **26175** in Punjab, Haryana, UP, Delhi, and MP, respectively.

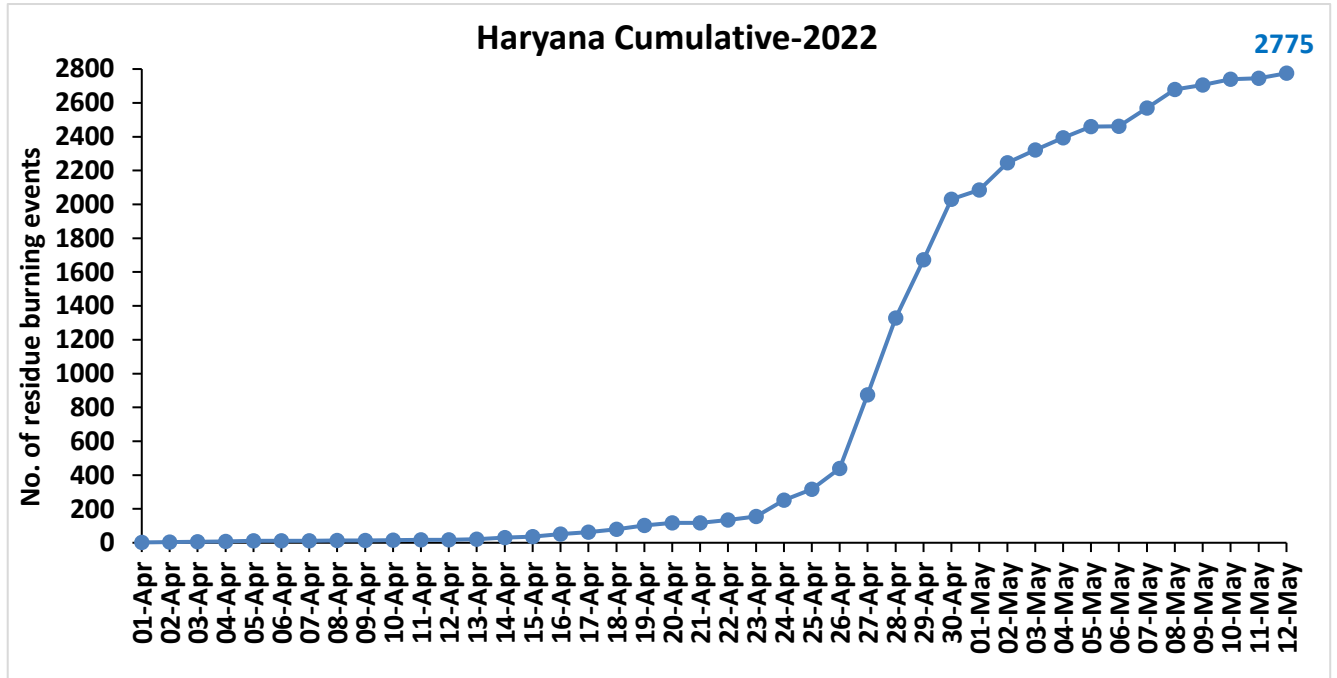
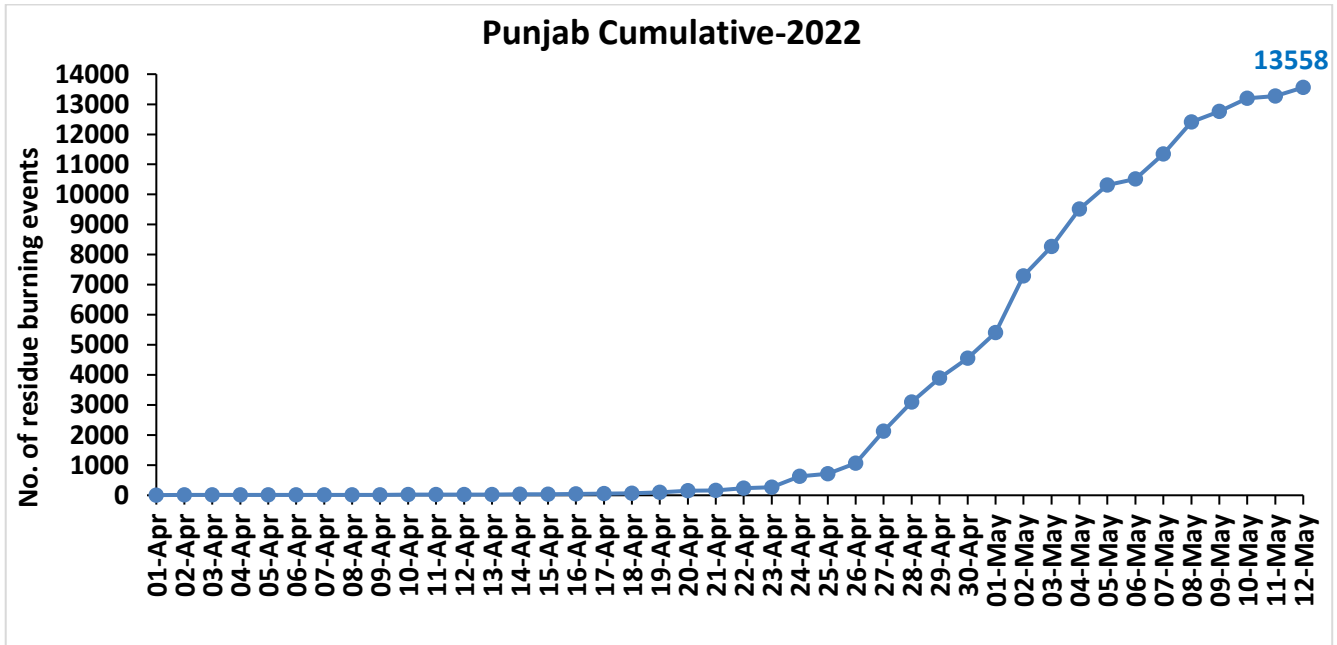
Temporal distribution of wheat residue burning events for the study States in 2022



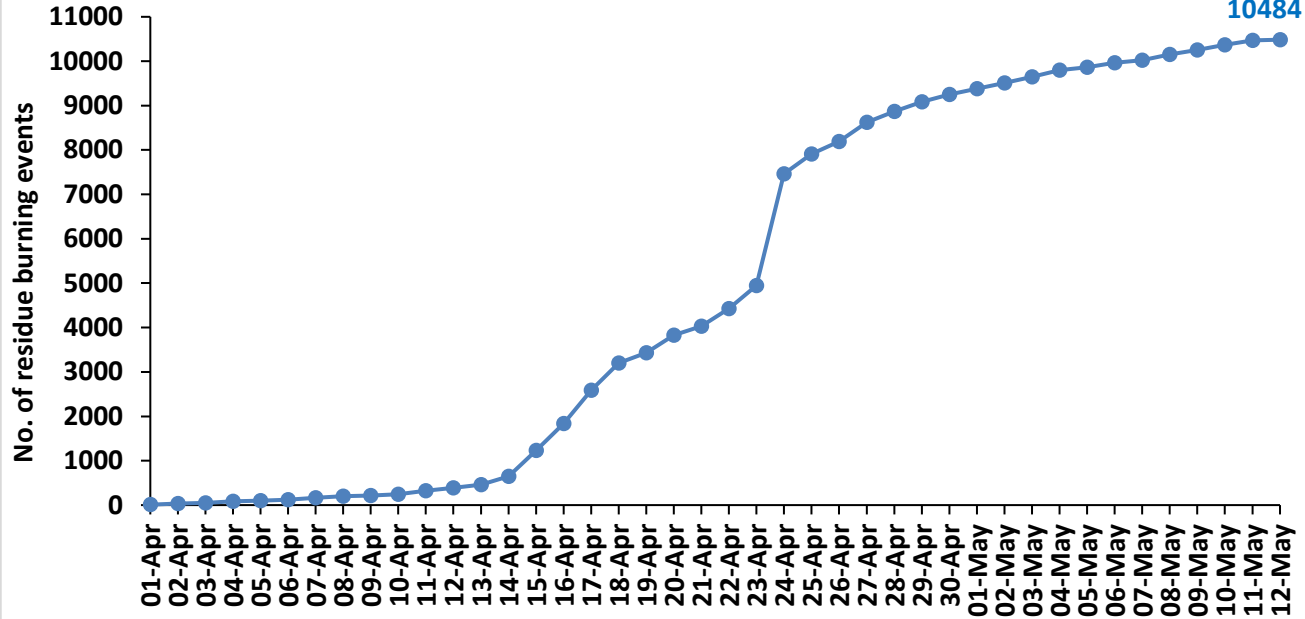




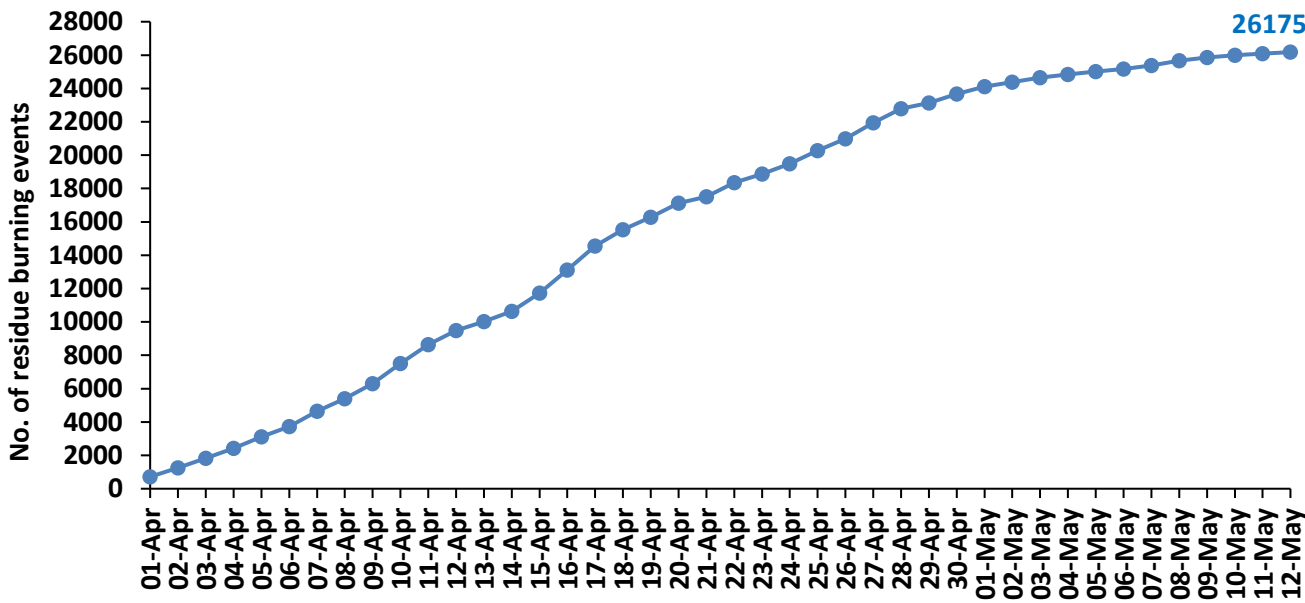
Cumulative Wheat Residue burning events in current year (2022) for the study States



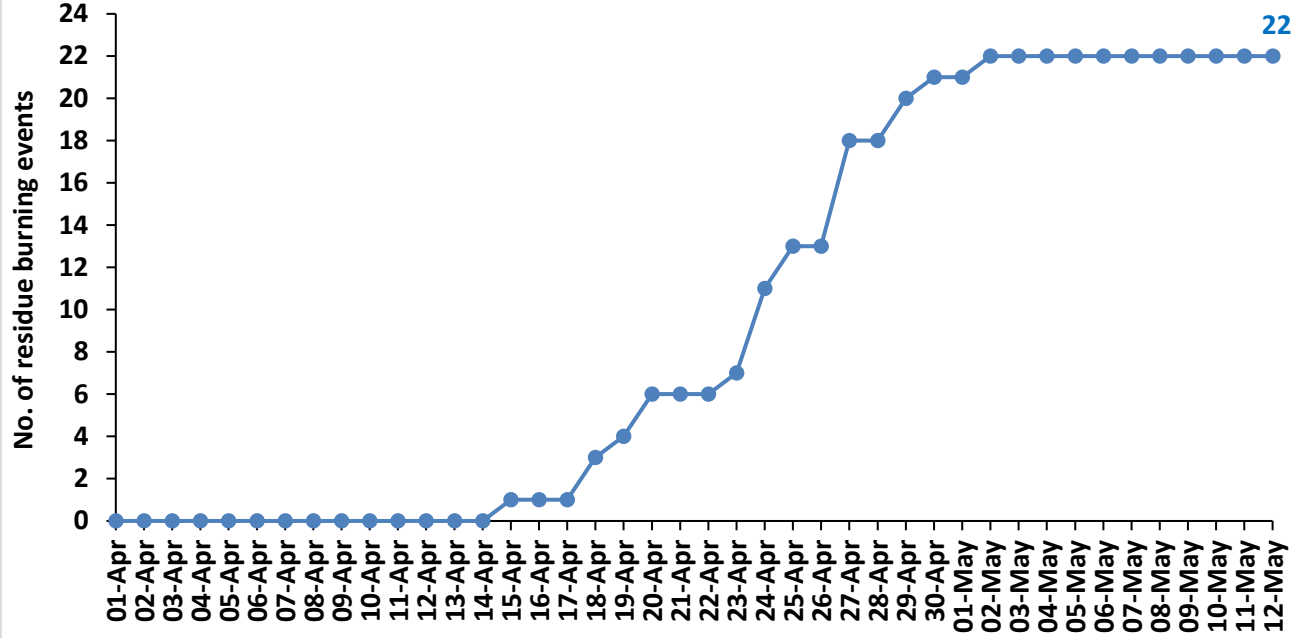
Uttar Pradesh Cumulative-2022



Madhya Pradesh Cumulative-2022

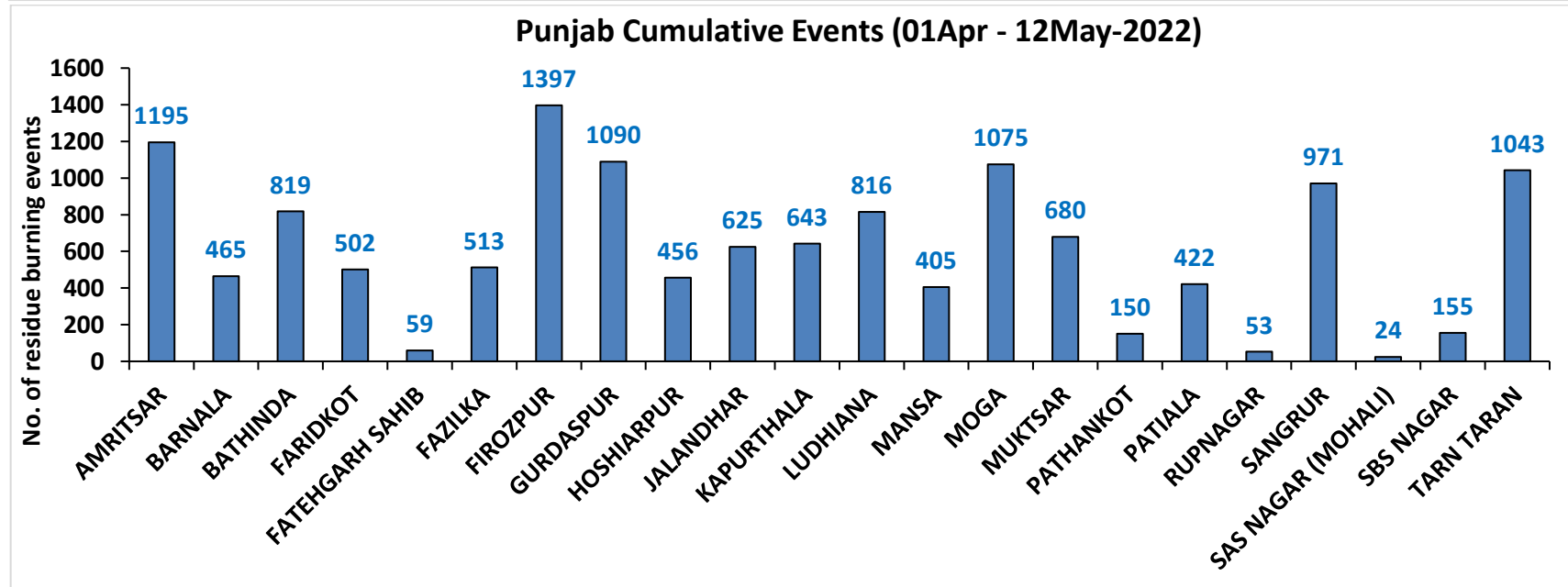
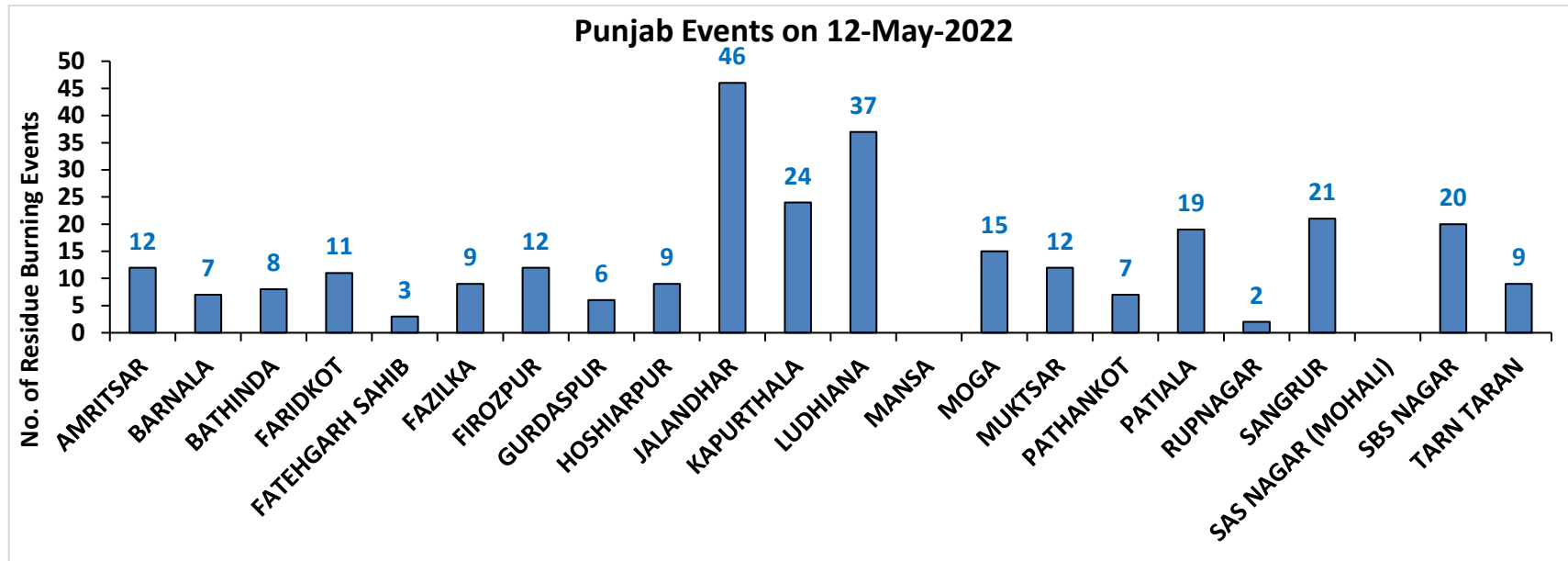


Delhi Cumulative-2022



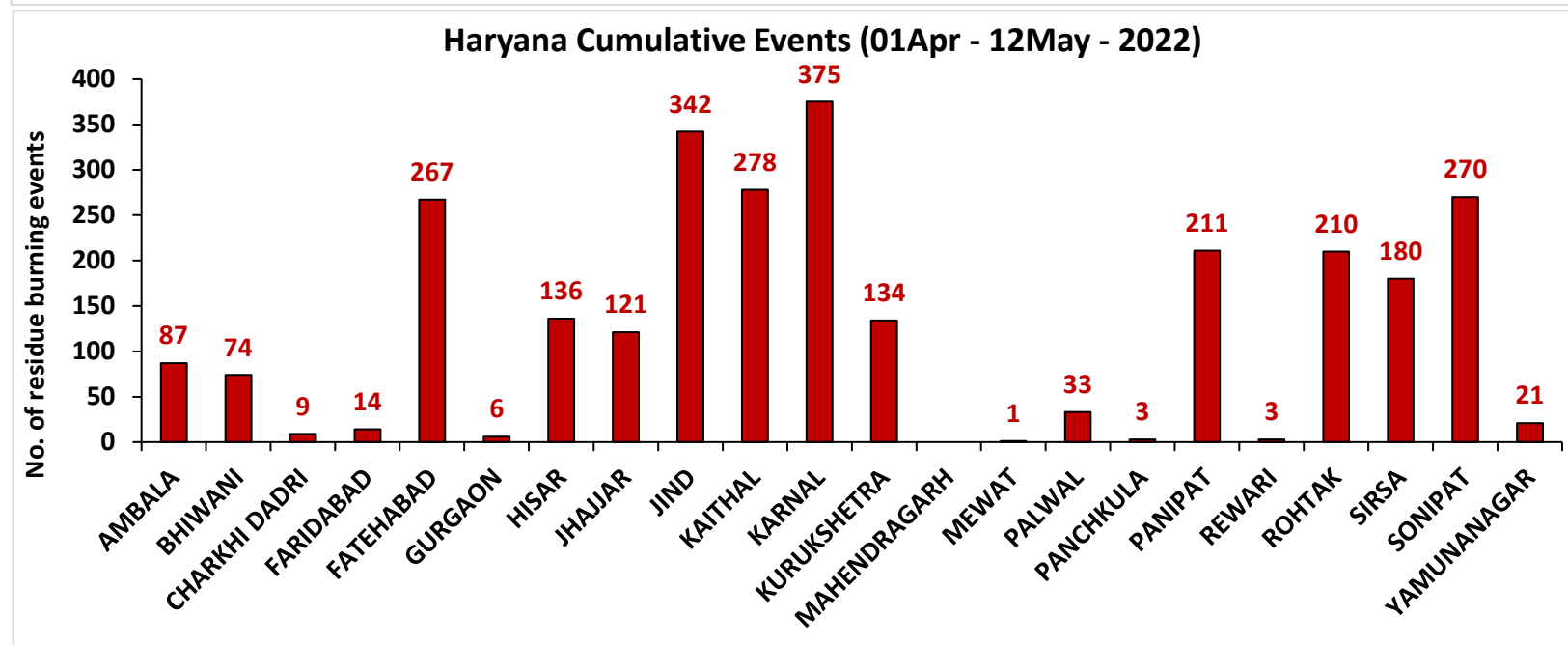
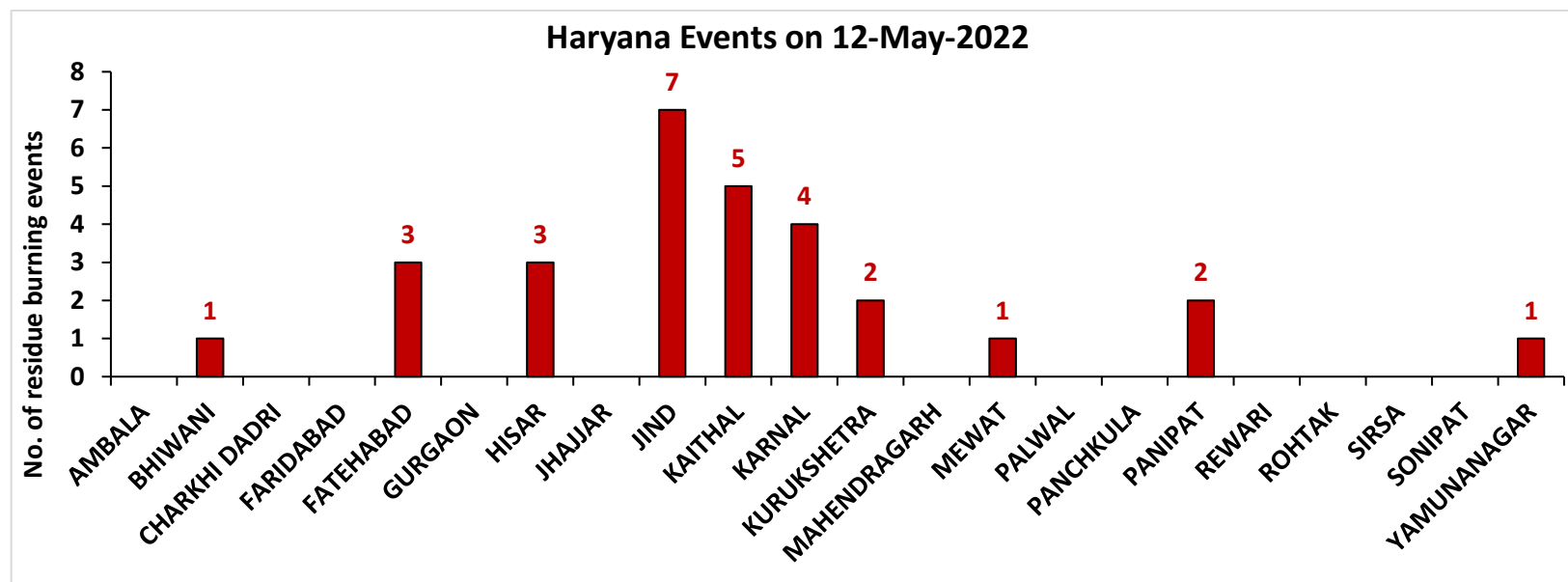
Punjab

District-wise cumulative number of wheat residue burning events in Punjab (01 Apr-12 May-2022)



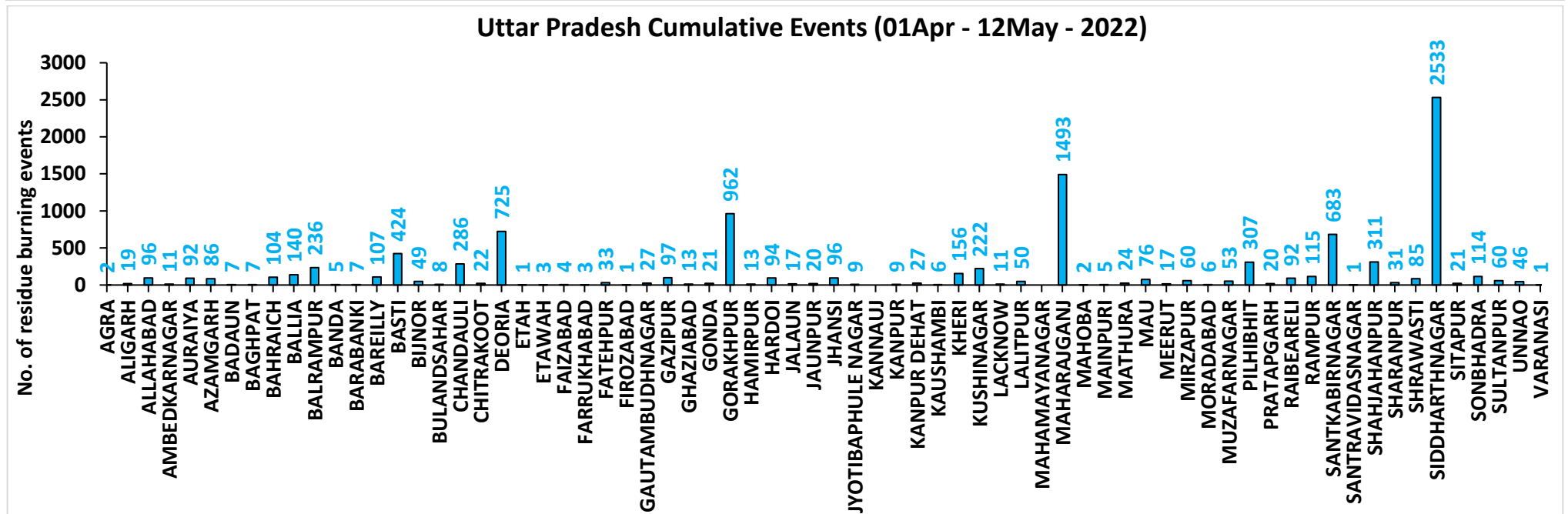
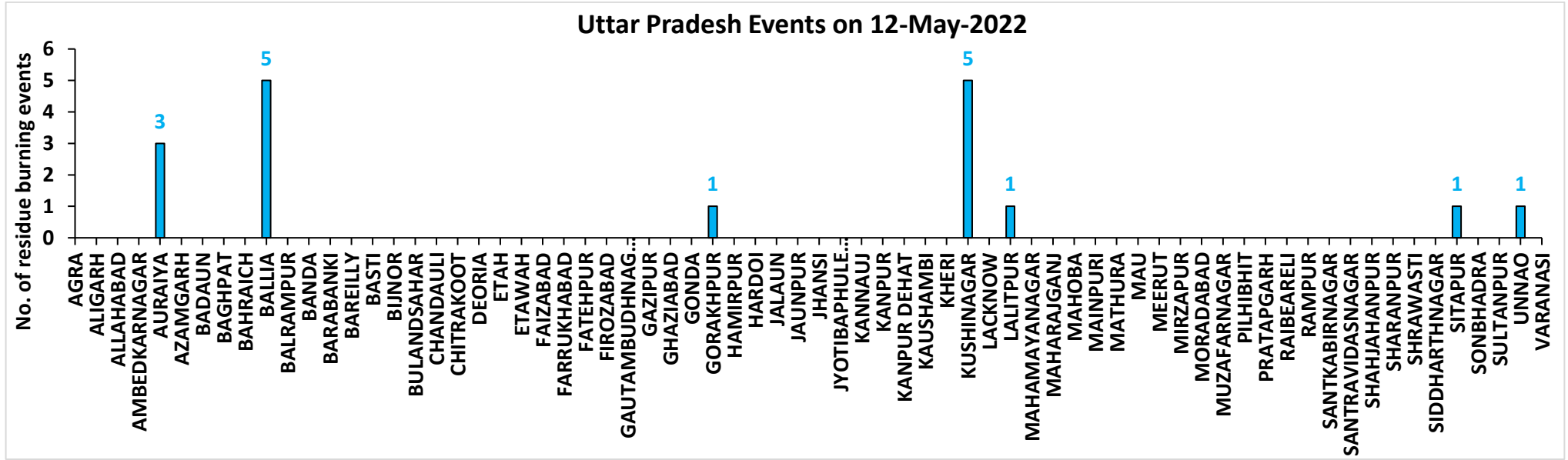
Haryana

District-wise cumulative number of residue burning events in Haryana (01 Apr-12 May-2022)



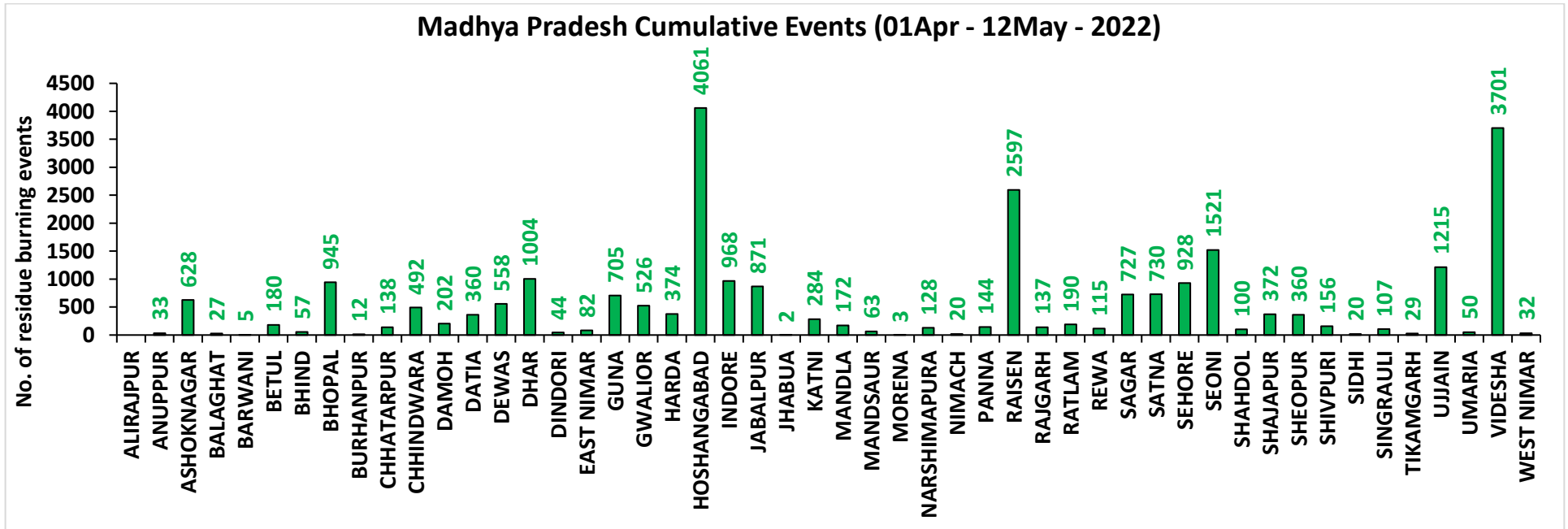
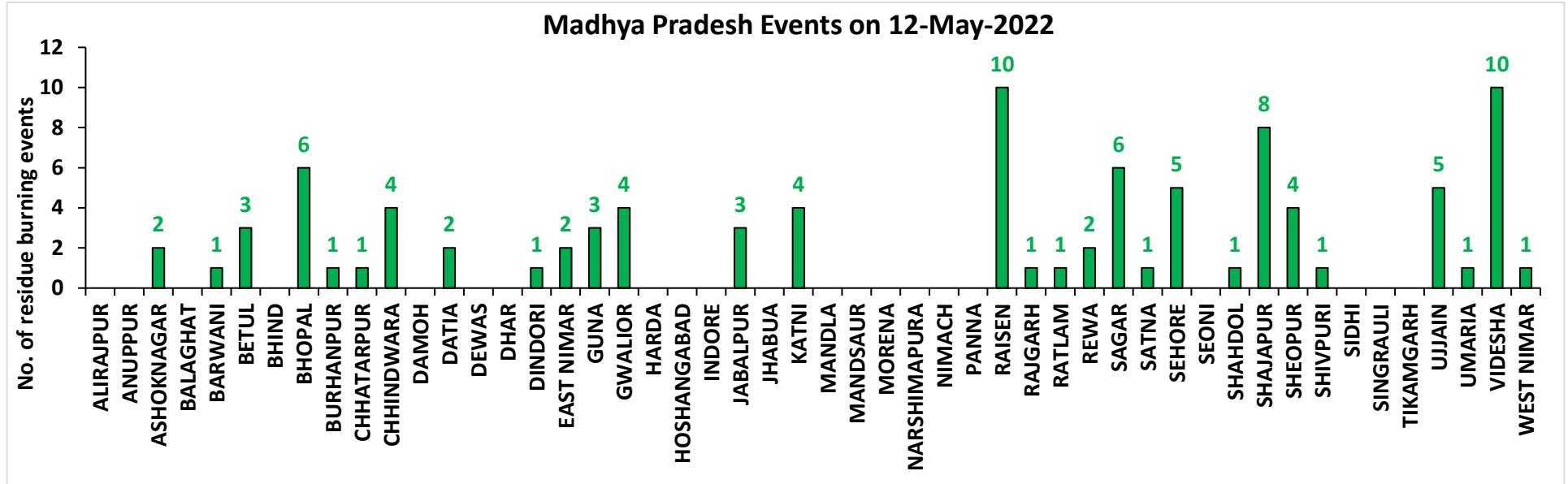
Uttar Pradesh

District-wise cumulative number of wheat residue burning events in Uttar Pradesh (01 Apr-12 May-2022)



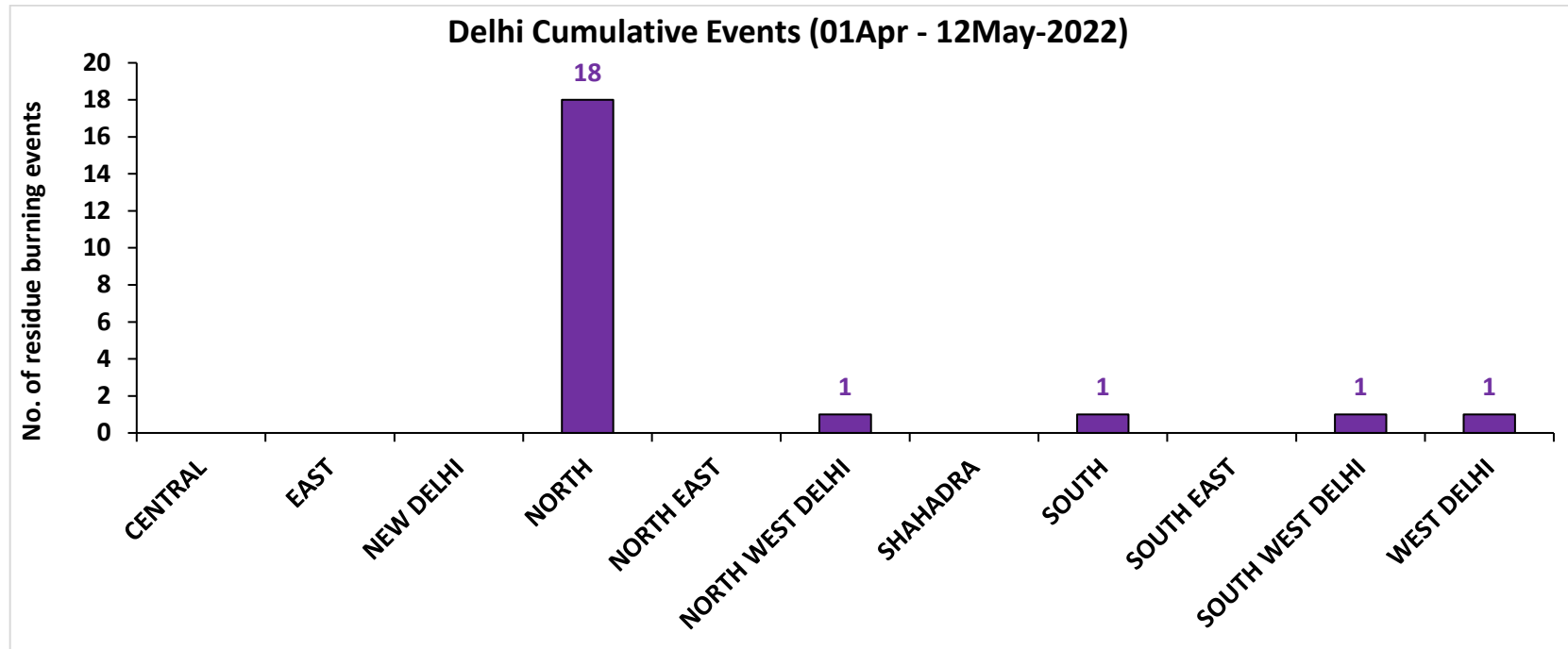
Madhya Pradesh

District-wise cumulative number of wheat residue burning events in Madhya Pradesh (01 Apr-12 May-2022)



Delhi

District-wise cumulative number of wheat residue burning events in Delhi (01 Apr-1 May-2022)



District-wise cumulative number of wheat residue burning events detected in 2022
(Period: 01 April – 12 May)

(a) Punjab

District	01Apr-12 May
	Year 2022
Amritsar	1195
Barnala	465
Bathinda	819
Faridkot	502
Fatehgarh Sahib	59
Fazilka	513
Firozpur	1397
Gurdaspur	1090
Hoshiarpur	456
Jalandhar	625
Kapurthala	643
Ludhiana	816
Mansa	405
Moga	1075
Muktsar	680
Pathankot	150
Patiala	422
Rupnagar	53
Sangrur	971
SAS NAGAR (Mohali)	24
SBS Nagar	155
Tarn Taran	1043
Total	13558

(b) Haryana

District	01Apr-12 May
	Year 2022
Ambala	87
Bhiwani	74
Charkhi Dadri	9
Faridabad	14
Fatehabad	267
Gurgaon	6
Hisar	136
Jhajjar	121
Jind	342
Kaithal	278
Karnal	375
Kurukshetra	134
Mahendragarh	0
Mewat	1
Palwal	33
Panchkula	3
Panipat	211
Rewari	3
Rohtak	210
Sirsa	180
Sonipat	270
Yamunanagar	21
Total	2775

(c) Uttar Pradesh

District	01Apr-12 May				
	Year 2022				
		GAUTAMBUDHNAGAR	27	MUZAFARNAGAR	53
		GAZIPUR	97	PILHIBHIT	307
AGRA	2	GHAZIABAD	13	PRATAPGARH	20
ALIGARH	19	GONDA	21	RAIBEARELI	92
ALLAHABAD	96	GORAKHPUR	962	RAMPUR	115
AMBEDKARNAGAR	11	HAMIRPUR	13	SANTKABIRNAGAR	683
AURAIYA	92	HARDOI	94	SANTRAVIDASNAGAR	1
AZAMGARH	86	JALAUN	17	SHAHJAHANPUR	311
BADAUN	7	JAUNPUR	20	SHARANPUR	31
BAGHPAT	7	JHANSI	96	SHRAWASTI	85
BAHRAICH	104	JYOTIBAPHULE NAGAR	9	SIDDHARTHANAGAR	2533
BALLIA	140	KANNAUJ	0	SITAPUR	21
BALRAMPUR	236	KANPUR	9	SONBHADRA	114
BANDA	5	KANPUR DEHAT	27	SULTANPUR	60
BARABANKI	7	KAUSHAMBI	6	UNNAO	46
BAREILLY	107	KHERI	156	VARANASI	1
BASTI	424	KUSHINAGAR	222	Total	10484
BIJNOR	49	LACKNOW	11		
BULANDSAHAR	8	LALITPUR	50		
CHANDAULI	286	MAHAMAYANAGAR	0		
CHITRAKOOT	22	MAHARAJGANJ	1493		
DEORIA	725	MAHOBA	2		
ETAH	1	MAINPURI	5		
ETAWAH	3	MATHURA	24		
FAIZABAD	4	MAU	76		
FARRUKHABAD	3	MEERUT	17		
FATEHPUR	33	MIRZAPUR	60		
FIROZABAD	1	MORADABAD	6		

(f) Madhya Pradesh

District	01Apr-12 May	
	Year 2022	
ALIRAJPUR	0	PANNA 144
ANUPPUR	33	RAISEN 2597
ASHOKNAGAR	628	RAJGARH 137
BALAGHAT	27	RATLAM 190
BARWANI	5	REWA 115
BETUL	180	SAGAR 727
BHIND	57	SATNA 730
BHOPAL	945	SEHORE 928
BURHANPUR	12	SEONI 1521
CHHATARPUR	138	SHAHDOL 100
CHHINDWARA	492	SHAJAPUR 372
DAMOH	202	SHEOPUR 360
DATIA	360	SHIVPURI 156
DEWAS	558	SIDHI 20
DHAR	1004	SINGRAULI 107
DINDORI	44	TIKAMGARH 29
EAST NIMAR	82	UJJAIN 1215
GUNA	705	UMARIA 50
GWALIOR	526	VIDESHA 3701
HARDA	374	WEST NIMAR 32
HOSHANGABAD	4061	Total 26175
INDORE	968	
JABALPUR	871	
JHABUA	2	
KATNI	284	
MANDLA	172	
MANDSAUR	63	
MORENA	3	
NARSHIMAPURA	128	
NIMACH	20	

(g) Delhi

District	01Apr-12 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 – 12 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
11-May	67	6	101	99	0
12-May	289	29	17	94	0
Total	13558	2775	10484	26175	22

Details of wheat residue burning events in Punjab on 12-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DAT E	ACQ_TIM E	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AJNALA	npp	31.92330	74.78300	5/12/2022	13:03:43	D	6.90
2	AMRITSAR	AJNALA	npp	31.92650	74.77730	5/12/2022	13:03:43	D	24.40
3	AMRITSAR	AJNALA	npp	31.92750	74.78180	5/12/2022	13:03:43	D	24.40
4	AMRITSAR	CHOGAWAN	npp	31.83370	74.61030	5/12/2022	13:03:43	D	6.30
5	AMRITSAR	CHOGAWAN	npp	31.83460	74.60840	5/12/2022	13:03:43	D	8.80
6	AMRITSAR	MAJITHA	npp	31.75900	74.92100	5/12/2022	13:03:43	D	1.90
7	AMRITSAR	RAYYA	npp	31.49350	75.22930	5/12/2022	13:03:43	D	25.70
8	AMRITSAR	RAYYA	npp	31.61920	75.22280	5/12/2022	13:03:43	D	21.40
9	AMRITSAR	RAYYA	npp	31.64070	75.30760	5/12/2022	13:03:43	D	7.30
10	AMRITSAR	TARSIKKA	npp	31.60800	75.18920	5/12/2022	13:03:43	D	8.80
11	AMRITSAR	VERKA	npp	31.63930	74.95820	5/12/2022	13:03:43	D	7.00
12	AMRITSAR	VERKA	npp	31.70170	74.96080	5/12/2022	13:03:43	D	5.20
13	BARNALA	BARNALA	Terra	30.28300	75.63000	5/12/2022	11:10:31	D	8.30
14	BARNALA	BARNALA	npp	30.25080	75.69220	5/12/2022	13:03:43	D	7.00
15	BARNALA	BARNALA	npp	30.48730	75.60730	5/12/2022	13:03:43	D	5.90
16	BARNALA	MAHAL KALAN	npp	30.42000	75.55290	5/12/2022	13:03:43	D	9.70
17	BARNALA	MAHAL KALAN	npp	30.47130	75.57090	5/12/2022	13:03:43	D	5.90
18	BARNALA	MAHAL KALAN	npp	30.50280	75.59860	5/12/2022	13:03:43	D	9.30
19	BARNALA	MAHAL KALAN	npp	30.50440	75.55490	5/12/2022	13:03:43	D	9.00
20	BATHINDA	BATHINDA	Terra	30.20400	74.72800	5/12/2022	11:10:31	D	11.70
21	BATHINDA	BHAGTA BHAI KA	Terra	30.44900	75.13000	5/12/2022	11:10:31	D	9.80
22	BATHINDA	GONIANA MANDI	Terra	30.33300	74.98000	5/12/2022	11:10:31	D	9.90
23	BATHINDA	MAUR	npp	30.04040	75.22230	5/12/2022	13:03:43	D	6.40
24	BATHINDA	RAMPURA	npp	30.28410	75.25380	5/12/2022	13:03:43	D	5.60
25	BATHINDA	SANGAT	Terra	30.02600	74.74500	5/12/2022	11:10:31	D	18.60
26	BATHINDA	SANGAT	npp	30.03150	74.70280	5/12/2022	13:03:43	D	6.70
27	BATHINDA	SANGAT	npp	30.03260	74.70770	5/12/2022	13:03:43	D	6.70
28	FARIDKOT	FARIDKOT	Terra	30.60700	74.74300	5/12/2022	11:10:31	D	8.70
29	FARIDKOT	FARIDKOT	Terra	30.73500	74.54900	5/12/2022	11:10:31	D	10.60
30	FARIDKOT	FARIDKOT	npp	30.63870	74.80730	5/12/2022	13:03:43	D	9.20

31	FARIDKOT	JAITON	npp	30.50290	74.96200	5/12/2022	13:03:43	D	5.90
32	FARIDKOT	JAITON	npp	30.50640	74.93650	5/12/2022	13:03:43	D	3.00
33	FARIDKOT	JAITON	npp	30.52080	74.96190	5/12/2022	13:03:43	D	5.10
34	FARIDKOT	KOT KAPURA	Terra	30.55000	74.88100	5/12/2022	11:10:31	D	11.90
35	FARIDKOT	KOT KAPURA	Terra	30.59500	74.95300	5/12/2022	11:10:31	D	17.00
36	FARIDKOT	KOT KAPURA	npp	30.57410	74.87320	5/12/2022	13:03:43	D	6.20
37	FARIDKOT	KOT KAPURA	npp	30.57530	74.86970	5/12/2022	13:03:43	D	9.40
38	FARIDKOT	KOT KAPURA	npp	30.60480	74.94520	5/12/2022	13:03:43	D	9.50
39	FATEHGARH SAHIB	AMLOH	npp	30.71100	76.32630	5/12/2022	13:03:43	D	9.50
40	FATEHGARH SAHIB	KHAMANON	Terra	30.79000	76.36400	5/12/2022	11:10:31	D	9.60
41	FATEHGARH SAHIB	KHAMANON	npp	30.77790	76.30040	5/12/2022	13:03:43	D	6.70
42	FAZILKA	FAZILKA	Aqua	30.36700	73.99600	5/12/2022	14:20:50	D	20.40
43	FAZILKA	JALALABAD	Terra	30.51600	74.34000	5/12/2022	11:10:31	D	23.70
44	FAZILKA	JALALABAD	Terra	30.51700	74.33000	5/12/2022	11:10:31	D	26.50
45	FAZILKA	JALALABAD	npp	30.52830	74.34970	5/12/2022	13:03:43	D	20.00
46	FAZILKA	JALALABAD	npp	30.52940	74.35480	5/12/2022	13:03:43	D	13.80
47	FAZILKA	JALALABAD	npp	30.53270	74.34850	5/12/2022	13:03:43	D	20.00
48	FAZILKA	KHUIAN SARWAR	npp	30.19910	73.99520	5/12/2022	13:03:43	D	10.00
49	FAZILKA	KHUIAN SARWAR	npp	30.20030	74.00050	5/12/2022	13:03:43	D	10.00
50	FAZILKA	KHUIAN SARWAR	npp	30.23210	74.05880	5/12/2022	13:03:43	D	7.40
51	FIROZPUR	GHALL KHURD	Terra	30.85000	74.64700	5/12/2022	11:10:31	D	13.40
52	FIROZPUR	GURUHAR SAHAI	npp	30.76820	74.44500	5/12/2022	13:03:43	D	12.20
53	FIROZPUR	GURUHAR SAHAI	npp	30.76930	74.44990	5/12/2022	13:03:43	D	14.90
54	FIROZPUR	MAKHU	Terra	31.06000	74.98700	5/12/2022	11:10:31	D	17.40
55	FIROZPUR	MAKHU	npp	31.04130	75.01280	5/12/2022	13:03:43	D	7.60
56	FIROZPUR	MAKHU	npp	31.04130	75.01420	5/12/2022	13:03:43	D	17.80
57	FIROZPUR	MAKHU	npp	31.12890	74.82660	5/12/2022	13:03:43	D	49.90
58	FIROZPUR	MAKHU	npp	31.13310	74.82540	5/12/2022	13:03:43	D	23.80
59	FIROZPUR	MAMDOT	Terra	30.79700	74.30300	5/12/2022	11:10:31	D	23.30
60	FIROZPUR	MAMDOT	npp	30.80090	74.32250	5/12/2022	13:03:43	D	18.70
61	FIROZPUR	MAMDOT	npp	30.88970	74.37070	5/12/2022	13:03:43	D	10.00

62	FIROZPUR	MAMDOT	npp	30.93400	74.42790	5/12/2022	13:03:43	D	14.10
63	GURDASPUR	DERA BABA NANAK	npp	31.95000	74.97360	5/12/2022	13:03:43	D	8.90
64	GURDASPUR	DHARIWAL	npp	31.91520	75.21210	5/12/2022	13:03:43	D	10.60
65	GURDASPUR	DINA NAGAR	npp	32.11880	75.54950	5/12/2022	13:03:43	D	2.40
66	GURDASPUR	KAHNUWAN	Terra	31.92400	75.45000	5/12/2022	11:10:31	D	8.60
67	GURDASPUR	SRI HARGOBINDPUR	Terra	31.68400	75.45500	5/12/2022	11:10:31	D	10.20
68	GURDASPUR	SRI HARGOBINDPUR	npp	31.68460	75.44820	5/12/2022	13:03:43	D	4.30
69	HOSHIARPUR	DASUYA	npp	31.83900	75.77430	5/12/2022	13:03:43	D	6.40
70	HOSHIARPUR	GARH SHANKAR	npp	31.13750	76.20640	5/12/2022	13:03:43	D	3.80
71	HOSHIARPUR	GARH SHANKAR	npp	31.14230	76.16800	5/12/2022	13:03:43	D	3.60
72	HOSHIARPUR	GARH SHANKAR	npp	31.28850	76.13140	5/12/2022	13:03:43	D	1.80
73	HOSHIARPUR	HAJIPUR	npp	31.97700	75.66120	5/12/2022	13:03:43	D	11.60
74	HOSHIARPUR	MAHILPUR	npp	31.30290	75.89180	5/12/2022	13:03:43	D	7.30
75	HOSHIARPUR	MAHILPUR	npp	31.30690	75.89070	5/12/2022	13:03:43	D	7.30
76	HOSHIARPUR	MAHILPUR	npp	31.35200	76.00630	5/12/2022	13:03:43	D	8.10
77	HOSHIARPUR	MUKERIAN	Terra	32.03000	75.67700	5/12/2022	11:10:31	D	10.90
78	JALANDHAR	ADAMPUR	npp	31.39090	75.70070	5/12/2022	13:03:43	D	4.70
79	JALANDHAR	ADAMPUR	npp	31.41520	75.80180	5/12/2022	13:03:43	D	3.50
80	JALANDHAR	BHOGPUR	npp	31.47800	75.60780	5/12/2022	13:03:43	D	4.50
81	JALANDHAR	BHOGPUR	npp	31.48630	75.67090	5/12/2022	13:03:43	D	4.50
82	JALANDHAR	BHOGPUR	npp	31.49550	75.57380	5/12/2022	13:03:43	D	2.10
83	JALANDHAR	JALANDHAR EAST	Terra	31.26400	75.67900	5/12/2022	11:10:31	D	9.80
84	JALANDHAR	JALANDHAR EAST	npp	31.30810	75.66680	5/12/2022	13:03:43	D	3.80
85	JALANDHAR	JALANDHAR EAST	npp	31.31210	75.66570	5/12/2022	13:03:43	D	3.80
86	JALANDHAR	JALANDHAR WEST	npp	31.43540	75.60640	5/12/2022	13:03:43	D	6.60
87	JALANDHAR	JALANDHAR WEST	npp	31.51750	75.51490	5/12/2022	13:03:43	D	17.00
88	JALANDHAR	MEHATPUR	npp	31.05220	75.40610	5/12/2022	13:03:43	D	9.80
89	JALANDHAR	NAKODAR	Terra	31.18000	75.56000	5/12/2022	11:10:31	D	11.10
90	JALANDHAR	NAKODAR	Terra	31.18100	75.55000	5/12/2022	11:10:31	D	11.70
91	JALANDHAR	NAKODAR	npp	31.13060	75.53780	5/12/2022	13:03:43	D	4.90
92	JALANDHAR	NAKODAR	npp	31.13900	75.46010	5/12/2022	13:03:43	D	3.40
93	JALANDHAR	NAKODAR	npp	31.13990	75.46440	5/12/2022	13:03:43	D	3.40
94	JALANDHAR	NAKODAR	npp	31.20190	75.53680	5/12/2022	13:03:43	D	11.70

95	JALANDHAR	NAKODAR	npp	31.20390	75.56740	5/12/2022	13:03:43	D	6.10
96	JALANDHAR	NUR MAHAL	Terra	31.00600	75.67300	5/12/2022	11:10:31	D	12.50
97	JALANDHAR	NUR MAHAL	npp	31.00860	75.62390	5/12/2022	13:03:43	D	7.90
98	JALANDHAR	NUR MAHAL	npp	31.02090	75.64270	5/12/2022	13:03:43	D	8.50
99	JALANDHAR	NUR MAHAL	npp	31.02180	75.64690	5/12/2022	13:03:43	D	8.50
100	JALANDHAR	NUR MAHAL	npp	31.02230	75.71260	5/12/2022	13:03:43	D	8.30
101	JALANDHAR	NUR MAHAL	npp	31.02440	75.57510	5/12/2022	13:03:43	D	4.50
102	JALANDHAR	NUR MAHAL	npp	31.03760	75.52300	5/12/2022	13:03:43	D	9.00
103	JALANDHAR	NUR MAHAL	npp	31.03940	75.52190	5/12/2022	13:03:43	D	5.70
104	JALANDHAR	NUR MAHAL	npp	31.05000	75.63920	5/12/2022	13:03:43	D	15.90
105	JALANDHAR	NUR MAHAL	npp	31.05040	75.56420	5/12/2022	13:03:43	D	8.40
106	JALANDHAR	NUR MAHAL	npp	31.05360	75.62100	5/12/2022	13:03:43	D	15.20
107	JALANDHAR	NUR MAHAL	npp	31.05480	75.62020	5/12/2022	13:03:43	D	13.90
108	JALANDHAR	NUR MAHAL	npp	31.05560	75.62440	5/12/2022	13:03:43	D	13.90
109	JALANDHAR	NUR MAHAL	npp	31.08300	75.63950	5/12/2022	13:03:43	D	17.10
110	JALANDHAR	NUR MAHAL	npp	31.11970	75.58970	5/12/2022	13:03:43	D	4.60
111	JALANDHAR	PHILLAUR	Terra	31.01800	75.90000	5/12/2022	11:10:31	D	9.80
112	JALANDHAR	PHILLAUR	Terra	31.04000	75.94300	5/12/2022	11:10:31	D	8.80
113	JALANDHAR	PHILLAUR	Terra	31.06100	75.92500	5/12/2022	11:10:31	D	9.20
114	JALANDHAR	PHILLAUR	npp	31.01390	75.87950	5/12/2022	13:03:43	D	8.50
115	JALANDHAR	PHILLAUR	npp	31.02120	75.89470	5/12/2022	13:03:43	D	13.00
116	JALANDHAR	PHILLAUR	npp	31.02200	75.89880	5/12/2022	13:03:43	D	13.00
117	JALANDHAR	PHILLAUR	npp	31.04290	75.77250	5/12/2022	13:03:43	D	4.60
118	JALANDHAR	PHILLAUR	npp	31.12940	75.78410	5/12/2022	13:03:43	D	5.10
119	JALANDHAR	RURKA KALAN	npp	31.13270	75.80050	5/12/2022	13:03:43	D	14.90
120	JALANDHAR	RURKA KALAN	npp	31.13340	75.78300	5/12/2022	13:03:43	D	5.10
121	JALANDHAR	SHAHKOT	npp	31.00570	75.35420	5/12/2022	13:03:43	D	5.40
122	JALANDHAR	SHAHKOT	npp	31.00700	75.35470	5/12/2022	13:03:43	D	5.70
123	JALANDHAR	SHAHKOT	npp	31.09870	75.26600	5/12/2022	13:03:43	D	5.20
124	KAPURTHALA	DHILWAN	Terra	31.46400	75.31900	5/12/2022	11:10:31	D	8.40
125	KAPURTHALA	DHILWAN	npp	31.40710	75.31970	5/12/2022	13:03:43	D	6.00
126	KAPURTHALA	DHILWAN	npp	31.42860	75.34100	5/12/2022	13:03:43	D	5.00
127	KAPURTHALA	DHILWAN	npp	31.43270	75.33980	5/12/2022	13:03:43	D	5.00

128	KAPURTHALA	DHILWAN	npp	31.43460	75.34110	5/12/2022	13:03:43	D	4.50
129	KAPURTHALA	DHILWAN	npp	31.43650	75.31610	5/12/2022	13:03:43	D	3.40
130	KAPURTHALA	DHILWAN	npp	31.43670	75.33870	5/12/2022	13:03:43	D	3.20
131	KAPURTHALA	DHILWAN	npp	31.43740	75.31320	5/12/2022	13:03:43	D	4.70
132	KAPURTHALA	DHILWAN	npp	31.46040	75.32040	5/12/2022	13:03:43	D	4.00
133	KAPURTHALA	DHILWAN	npp	31.51480	75.35500	5/12/2022	13:03:43	D	7.50
134	KAPURTHALA	DHILWAN	npp	31.54750	75.36850	5/12/2022	13:03:43	D	6.70
135	KAPURTHALA	DHILWAN	npp	31.55020	75.36860	5/12/2022	13:03:43	D	6.40
136	KAPURTHALA	KAPURTHALA	npp	31.41400	75.35410	5/12/2022	13:03:43	D	7.50
137	KAPURTHALA	KAPURTHALA	npp	31.41840	75.37540	5/12/2022	13:03:43	D	7.40
138	KAPURTHALA	NADALA	Terra	31.61500	75.42500	5/12/2022	11:10:31	D	12.90
139	KAPURTHALA	NADALA	npp	31.54480	75.41850	5/12/2022	13:03:43	D	9.30
140	KAPURTHALA	PHAGWARA	Terra	31.23600	75.80200	5/12/2022	11:10:31	D	7.40
141	KAPURTHALA	PHAGWARA	npp	31.27880	75.81300	5/12/2022	13:03:43	D	3.70
142	KAPURTHALA	PHAGWARA	npp	31.31390	75.84200	5/12/2022	13:03:43	D	6.00
143	KAPURTHALA	PHAGWARA	npp	31.34580	75.76910	5/12/2022	13:03:43	D	5.60
144	KAPURTHALA	SULTANPUR LODHI	npp	31.17340	75.01650	5/12/2022	13:03:43	D	7.10
145	KAPURTHALA	SULTANPUR LODHI	npp	31.20870	75.14340	5/12/2022	13:03:43	D	5.10
146	KAPURTHALA	SULTANPUR LODHI	npp	31.24080	75.17180	5/12/2022	13:03:43	D	3.60
147	KAPURTHALA	SULTANPUR LODHI	npp	31.24090	75.08750	5/12/2022	13:03:43	D	5.20
148	LUDHIANA	DORAHA	Terra	30.71600	76.00300	5/12/2022	11:10:31	D	20.50
149	LUDHIANA	JAGRAON	Terra	30.75400	75.51000	5/12/2022	11:10:31	D	9.70
150	LUDHIANA	LUDHIANA-1	npp	30.85760	75.77250	5/12/2022	13:03:43	D	7.10
151	LUDHIANA	LUDHIANA-2	Terra	30.95200	76.03600	5/12/2022	11:10:31	D	8.60
152	LUDHIANA	LUDHIANA-2	Terra	30.98100	75.90300	5/12/2022	11:10:31	D	9.40
153	LUDHIANA	LUDHIANA-2	npp	30.92960	75.96490	5/12/2022	13:03:43	D	4.80
154	LUDHIANA	LUDHIANA-2	npp	30.93190	75.68280	5/12/2022	13:03:43	D	5.60
155	LUDHIANA	LUDHIANA-2	npp	30.94180	76.02510	5/12/2022	13:03:43	D	7.20
156	LUDHIANA	LUDHIANA-2	npp	30.94260	76.02910	5/12/2022	13:03:43	D	7.20
157	LUDHIANA	LUDHIANA-2	npp	30.94650	76.02810	5/12/2022	13:03:43	D	7.20
158	LUDHIANA	LUDHIANA-2	npp	30.94730	76.03210	5/12/2022	13:03:43	D	9.10
159	LUDHIANA	LUDHIANA-2	npp	30.95820	75.94010	5/12/2022	13:03:43	D	5.80
160	LUDHIANA	LUDHIANA-2	npp	30.96470	75.78330	5/12/2022	13:03:43	D	4.40

161	LUDHIANA	LUDHIANA-2	npp	30.97640	75.92670	5/12/2022	13:03:43	D	6.80
162	LUDHIANA	LUDHIANA-2	npp	30.97830	76.06170	5/12/2022	13:03:43	D	9.90
163	LUDHIANA	LUDHIANA-2	npp	30.97990	76.04870	5/12/2022	13:03:43	D	7.30
164	LUDHIANA	LUDHIANA-2	npp	30.98660	75.85100	5/12/2022	13:03:43	D	9.80
165	LUDHIANA	LUDHIANA-2	npp	30.98780	76.04650	5/12/2022	13:03:43	D	4.90
166	LUDHIANA	MACHHIWARA	npp	30.85280	76.29100	5/12/2022	13:03:43	D	5.90
167	LUDHIANA	MACHHIWARA	npp	30.96990	76.16510	5/12/2022	13:03:43	D	14.80
168	LUDHIANA	RAIKOT	npp	30.64460	75.55830	5/12/2022	13:03:43	D	6.60
169	LUDHIANA	RAIKOT	npp	30.64550	75.56260	5/12/2022	13:03:43	D	14.50
170	LUDHIANA	RAIKOT	npp	30.64870	75.55720	5/12/2022	13:03:43	D	6.60
171	LUDHIANA	RAIKOT	npp	30.67110	75.64550	5/12/2022	13:03:43	D	9.40
172	LUDHIANA	SIDHWAN BET	Terra	30.94400	75.65500	5/12/2022	11:10:31	D	11.50
173	LUDHIANA	SIDHWAN BET	Terra	30.94700	75.57100	5/12/2022	11:10:31	D	10.10
174	LUDHIANA	SIDHWAN BET	Terra	30.96500	75.63800	5/12/2022	11:10:31	D	9.10
175	LUDHIANA	SIDHWAN BET	Terra	30.96600	75.62800	5/12/2022	11:10:31	D	7.10
176	LUDHIANA	SIDHWAN BET	npp	30.95370	75.64760	5/12/2022	13:03:43	D	10.30
177	LUDHIANA	SIDHWAN BET	npp	30.95430	75.64570	5/12/2022	13:03:43	D	9.00
178	LUDHIANA	SIDHWAN BET	npp	30.95510	75.64990	5/12/2022	13:03:43	D	10.90
179	LUDHIANA	SIDHWAN BET	npp	30.95690	75.64230	5/12/2022	13:03:43	D	7.70
180	LUDHIANA	SIDHWAN BET	npp	30.95780	75.64650	5/12/2022	13:03:43	D	7.70
181	LUDHIANA	SIDHWAN BET	npp	30.95900	75.54830	5/12/2022	13:03:43	D	6.30
182	LUDHIANA	SIDHWAN BET	npp	30.96010	75.44890	5/12/2022	13:03:43	D	7.30
183	LUDHIANA	SUDHAR	Terra	30.71500	75.58700	5/12/2022	11:10:31	D	15.40
184	LUDHIANA	SUDHAR	npp	30.77370	75.69410	5/12/2022	13:03:43	D	5.00
185	MOGA	BAGHA PURANA	npp	30.64730	75.18870	5/12/2022	13:03:43	D	15.00
186	MOGA	BAGHA PURANA	npp	30.72120	74.91430	5/12/2022	13:03:43	D	5.30
187	MOGA	KOT ISE KHAN AT DHARAMKOT	Terra	30.90600	75.10000	5/12/2022	11:10:31	D	15.80
188	MOGA	KOT ISE KHAN AT DHARAMKOT	Terra	30.90700	75.09000	5/12/2022	11:10:31	D	12.90
189	MOGA	KOT ISE KHAN AT DHARAMKOT	Terra	30.96300	75.34000	5/12/2022	11:10:31	D	7.30
190	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.90190	75.27210	5/12/2022	13:03:43	D	8.40

191	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.90880	75.11530	5/12/2022	13:03:43	D	3.00
192	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.91300	75.11410	5/12/2022	13:03:43	D	3.00
193	MOGA	KOT ISE KHAN AT DHARAMKOT	npp	30.95070	75.31880	5/12/2022	13:03:43	D	8.60
194	MOGA	MOGA-1	npp	30.71000	75.36330	5/12/2022	13:03:43	D	7.30
195	MOGA	MOGA-1	npp	30.78530	75.36670	5/12/2022	13:03:43	D	7.70
196	MOGA	MOGA-1	npp	30.78960	75.36920	5/12/2022	13:03:43	D	6.40
197	MOGA	MOGA-1	npp	30.80860	75.37420	5/12/2022	13:03:43	D	5.50
198	MOGA	MOGA-1	npp	30.81270	75.37300	5/12/2022	13:03:43	D	5.50
199	MOGA	NIHAL SINGH	npp	30.63120	75.32330	5/12/2022	13:03:43	D	6.80
200	MUKTSAR	KOT BHAI AT GIDDERBAHA	Terra	30.20900	74.62300	5/12/2022	11:10:31	D	12.80
201	MUKTSAR	KOT BHAI AT GIDDERBAHA	npp	30.31420	74.56880	5/12/2022	13:03:43	D	17.00
202	MUKTSAR	LAMBI	npp	30.00480	74.46900	5/12/2022	13:03:43	D	12.70
203	MUKTSAR	MALOUT	Terra	30.20900	74.36200	5/12/2022	11:10:31	D	9.70
204	MUKTSAR	MALOUT	npp	30.29850	74.45270	5/12/2022	13:03:43	D	8.10
205	MUKTSAR	MUKTSAR	Terra	30.59200	74.65500	5/12/2022	11:10:31	D	10.20
206	MUKTSAR	MUKTSAR	Terra	30.59300	74.64400	5/12/2022	11:10:31	D	12.90
207	MUKTSAR	MUKTSAR	npp	30.37880	74.50370	5/12/2022	13:03:43	D	10.90
208	MUKTSAR	MUKTSAR	npp	30.38210	74.50470	5/12/2022	13:03:43	D	7.20
209	MUKTSAR	MUKTSAR	npp	30.43110	74.49620	5/12/2022	13:03:43	D	6.50
210	MUKTSAR	MUKTSAR	npp	30.43520	74.36320	5/12/2022	13:03:43	D	3.70
211	MUKTSAR	MUKTSAR	npp	30.52750	74.64680	5/12/2022	13:03:43	D	5.30
212	PATHANKOT	BAMIAL	npp	32.30950	75.34460	5/12/2022	13:03:43	D	1.80
213	PATHANKOT	BAMIAL	npp	32.32790	75.37490	5/12/2022	13:03:43	D	3.90
214	PATHANKOT	NAROT JAIMAL SINGH	npp	32.20850	75.36780	5/12/2022	13:03:43	D	6.50
215	PATHANKOT	NAROT JAIMAL SINGH	npp	32.20860	75.36830	5/12/2022	13:03:43	D	6.30
216	PATHANKOT	PATHANKOT	npp	32.22480	75.53330	5/12/2022	13:03:43	D	4.90
217	PATHANKOT	SUJANPUR	npp	32.35060	75.67560	5/12/2022	13:03:43	D	6.70
218	PATHANKOT	SUJANPUR	npp	32.35160	75.57610	5/12/2022	13:03:43	D	4.10
219	PATIALA	BHUNARHERI	npp	30.17600	76.60240	5/12/2022	01:53:00	N	0.80
220	PATIALA	BHUNARHERI	npp	30.17700	76.60350	5/12/2022	01:53:00	N	0.60

221	PATIALA	BHUNARHERI	npp	30.21680	76.45160	5/12/2022	13:03:43	D	6.10
222	PATIALA	BHUNARHERI	npp	30.22070	76.45060	5/12/2022	13:03:43	D	6.10
223	PATIALA	NABHA	npp	30.39820	76.23870	5/12/2022	13:03:43	D	8.20
224	PATIALA	NABHA	npp	30.43700	76.29940	5/12/2022	13:03:43	D	7.70
225	PATIALA	PATIALA	npp	30.25390	76.25140	5/12/2022	13:03:43	D	8.80
226	PATIALA	PATRAN	npp	29.91350	76.10880	5/12/2022	13:03:43	D	6.00
227	PATIALA	PATRAN	npp	29.94630	76.10510	5/12/2022	13:03:43	D	3.70
228	PATIALA	PATRAN	npp	29.94650	76.10440	5/12/2022	13:03:43	D	4.00
229	PATIALA	RAJPURA	Terra	30.56500	76.50600	5/12/2022	11:10:31	D	9.60
230	PATIALA	SAMANA	npp	30.08930	76.18770	5/12/2022	13:03:43	D	8.00
231	PATIALA	SAMANA	npp	30.17610	76.09380	5/12/2022	13:03:43	D	6.80
232	PATIALA	SAMANA	npp	30.22990	76.15220	5/12/2022	13:03:43	D	4.90
233	PATIALA	SANAUR	Terra	30.28700	76.33300	5/12/2022	11:10:31	D	9.30
234	PATIALA	SANAUR	npp	30.12230	76.30970	5/12/2022	13:03:43	D	5.90
235	PATIALA	SHAMBU KALAN	Terra	30.49400	76.54600	5/12/2022	11:10:31	D	15.30
236	PATIALA	SHAMBU KALAN	npp	30.48550	76.62480	5/12/2022	13:03:43	D	10.70
237	PATIALA	SHAMBU KALAN	npp	30.48600	76.62700	5/12/2022	13:03:43	D	9.00
238	RUPNAGAR	ANANDPUR SAHIB	npp	31.29570	76.39350	5/12/2022	13:03:43	D	2.30
239	RUPNAGAR	CHAMKAUR SAHIB	npp	30.90950	76.41020	5/12/2022	13:03:43	D	4.10
240	SANGRUR	BHAWANIGARH	Terra	30.28200	76.00900	5/12/2022	11:10:31	D	11.00
241	SANGRUR	BHAWANIGARH	npp	30.17540	75.98610	5/12/2022	13:03:43	D	5.40
242	SANGRUR	BHAWANIGARH	npp	30.25050	76.04410	5/12/2022	13:03:43	D	4.00
243	SANGRUR	BHAWANIGARH	npp	30.31620	76.12100	5/12/2022	13:03:43	D	12.00
244	SANGRUR	DHURI	npp	30.36090	75.90270	5/12/2022	13:03:43	D	4.30
245	SANGRUR	DIRBA	npp	29.96830	76.00390	5/12/2022	13:03:43	D	4.60
246	SANGRUR	DIRBA	npp	29.96910	76.00810	5/12/2022	13:03:43	D	4.60
247	SANGRUR	DIRBA	npp	29.97800	76.01010	5/12/2022	13:03:43	D	4.70
248	SANGRUR	DIRBA	npp	30.06880	75.96030	5/12/2022	13:03:43	D	4.30
249	SANGRUR	LEHRA GAGA	npp	29.95580	75.96340	5/12/2022	13:03:43	D	11.50
250	SANGRUR	MALERKOTLA-1	npp	30.45480	75.99050	5/12/2022	13:03:43	D	4.50
251	SANGRUR	MALERKOTLA-1	npp	30.45560	75.99460	5/12/2022	13:03:43	D	4.50
252	SANGRUR	MALERKOTLA-1	npp	30.52100	76.00740	5/12/2022	13:03:43	D	5.50
253	SANGRUR	MALERKOTLA-1	npp	30.56420	75.99170	5/12/2022	13:03:43	D	5.80

254	SANGRUR	MALERKOTLA-1	npp	30.56500	75.99570	5/12/2022	13:03:43	D	6.20
255	SANGRUR	SANGRUR	npp	30.21460	75.90590	5/12/2022	13:03:43	D	6.00
256	SANGRUR	SANGRUR	npp	30.28200	75.88830	5/12/2022	13:03:43	D	5.80
257	SANGRUR	SANGRUR	npp	30.28290	75.89240	5/12/2022	13:03:43	D	5.80
258	SANGRUR	SHER PUR	npp	30.33470	75.73310	5/12/2022	13:03:43	D	6.10
259	SANGRUR	SUNAM	npp	29.99520	75.72640	5/12/2022	13:03:43	D	3.90
260	SANGRUR	SUNAM	npp	30.03930	75.77320	5/12/2022	13:03:43	D	5.60
261	SBS NAGAR	AUR	Terra	31.05100	75.98800	5/12/2022	11:10:31	D	9.50
262	SBS NAGAR	AUR	Terra	31.11000	76.02700	5/12/2022	11:10:31	D	8.60
263	SBS NAGAR	AUR	npp	31.04810	76.02750	5/12/2022	13:03:43	D	5.50
264	SBS NAGAR	AUR	npp	31.05200	76.02650	5/12/2022	13:03:43	D	3.50
265	SBS NAGAR	AUR	npp	31.05590	76.00440	5/12/2022	13:03:43	D	10.60
266	SBS NAGAR	AUR	npp	31.08760	76.03800	5/12/2022	13:03:43	D	6.70
267	SBS NAGAR	BALACHAUR	npp	31.02460	76.27410	5/12/2022	13:03:43	D	6.90
268	SBS NAGAR	BANGA	npp	31.13420	76.02130	5/12/2022	13:03:43	D	7.50
269	SBS NAGAR	BANGA	npp	31.14730	76.01790	5/12/2022	13:03:43	D	4.70
270	SBS NAGAR	BANGA	npp	31.15970	75.95550	5/12/2022	13:03:43	D	3.60
271	SBS NAGAR	BANGA	npp	31.19360	75.85280	5/12/2022	13:03:43	D	10.00
272	SBS NAGAR	BANGA	npp	31.19970	75.79580	5/12/2022	13:03:43	D	3.60
273	SBS NAGAR	NAWAN SHAHR	Terra	31.02300	76.17500	5/12/2022	11:10:31	D	14.60
274	SBS NAGAR	NAWAN SHAHR	Terra	31.12100	76.20100	5/12/2022	11:10:31	D	11.70
275	SBS NAGAR	NAWAN SHAHR	Terra	31.12900	76.20300	5/12/2022	11:10:31	D	7.60
276	SBS NAGAR	NAWAN SHAHR	npp	31.04020	76.16500	5/12/2022	13:03:43	D	9.00
277	SBS NAGAR	NAWAN SHAHR	npp	31.07340	76.17400	5/12/2022	13:03:43	D	5.40
278	SBS NAGAR	NAWAN SHAHR	npp	31.13580	76.05020	5/12/2022	13:03:43	D	3.60
279	SBS NAGAR	SAROYA	npp	31.12580	76.20950	5/12/2022	13:03:43	D	6.30
280	SBS NAGAR	SAROYA	npp	31.16640	76.21500	5/12/2022	13:03:43	D	3.20
281	TARN TARAN	BHIKHIWIND	Terra	31.40100	74.59700	5/12/2022	11:10:31	D	10.10
282	TARN TARAN	CHOHLA SAHIB	npp	31.31890	75.12320	5/12/2022	13:03:43	D	5.10
283	TARN TARAN	GANDIWIND TATLA	npp	31.49210	74.62650	5/12/2022	13:03:43	D	11.70
284	TARN TARAN	KHADUR SAHIB	npp	31.40790	75.06780	5/12/2022	13:03:43	D	7.80
285	TARN TARAN	KHADUR SAHIB	npp	31.48940	75.23050	5/12/2022	13:03:43	D	25.70
286	TARN TARAN	NAUSHERA PANNUAN	Terra	31.36800	75.02700	5/12/2022	11:10:31	D	7.60

287	TARN TARAN	NAUSHERA PANNUAN	npp	31.35120	75.02500	5/12/2022	13:03:43	D	5.10
288	TARN TARAN	PATTI	npp	31.18070	74.86080	5/12/2022	13:03:43	D	9.50
289	TARN TARAN	PATTI	npp	31.18160	74.86540	5/12/2022	13:03:43	D	9.50

Details of wheat residue burning events in Haryana on 12-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BHIWANI	BAWANI KHERA	Terra	28.88100	76.04900	5/12/2022	11:10:31	D	9.90
2	FATEHABAD	RATIA	npp	29.65620	75.65430	5/12/2022	13:03:43	D	6.80
3	FATEHABAD	RATIA	npp	29.67060	75.46840	5/12/2022	13:03:43	D	7.70
4	FATEHABAD	RATIA	npp	29.71880	75.40930	5/12/2022	13:03:43	D	4.50
5	HISAR	HANSI-II	npp	29.11890	76.15330	5/12/2022	13:03:43	D	1.40
6	HISAR	NARNAUND	npp	29.15900	76.16060	5/12/2022	13:03:43	D	6.50
7	HISAR	NARNAUND	npp	29.18000	76.08630	5/12/2022	13:03:43	D	2.60
8	JIND	JULANA	npp	29.14040	76.47060	5/12/2022	13:03:43	D	7.80
9	JIND	NARWANA	npp	29.75030	76.15540	5/12/2022	13:03:43	D	10.00
10	JIND	PILLUKHERA	npp	29.26960	76.50670	5/12/2022	13:03:43	D	3.50
11	JIND	PILLUKHERA	npp	29.29350	76.52140	5/12/2022	13:03:43	D	4.10
12	JIND	PILLUKHERA	npp	29.33170	76.52420	5/12/2022	13:03:43	D	5.10
13	JIND	SAFIDON	npp	29.34420	76.56680	5/12/2022	13:03:43	D	8.20
14	JIND	SAFIDON	npp	29.47210	76.59620	5/12/2022	13:03:43	D	8.20
15	KAITHAL	KAITHAL	Terra	29.78000	76.26400	5/12/2022	11:10:31	D	8.80
16	KAITHAL	KALAYAT	npp	29.64140	76.19480	5/12/2022	13:03:43	D	4.00
17	KAITHAL	KALAYAT	npp	29.73080	76.28840	5/12/2022	13:03:43	D	7.30
18	KAITHAL	SIWAN	npp	29.90290	76.41620	5/12/2022	13:03:43	D	6.30
19	KAITHAL	SIWAN	npp	29.90370	76.41620	5/12/2022	13:03:43	D	7.00
20	KARNAL	GHARAUNDA	npp	29.51700	77.05770	5/12/2022	13:03:43	D	5.70
21	KARNAL	GHARAUNDA	npp	29.52080	77.05670	5/12/2022	13:03:43	D	6.50

22	KARNAL	GHARAUNDA	npp	29.52190	77.06230	5/12/2022	13:03:43	D	6.50
23	KARNAL	INDRI	npp	29.81380	77.15160	5/12/2022	13:03:43	D	5.10
24	KURUKSHETRA	ISMAILABAD	npp	30.11760	76.69190	5/12/2022	13:03:43	D	4.60
25	KURUKSHETRA	THANESAR	npp	30.02520	76.75940	5/12/2022	13:03:43	D	6.40
26	MEWAT	NUH	npp	28.17880	77.15400	5/12/2022	01:53:00	N	1.70
27	PANIPAT	ISRANA	npp	29.30280	76.65160	5/12/2022	13:03:43	D	5.60
28	PANIPAT	MADLAUDA	npp	29.32900	76.79350	5/12/2022	13:03:43	D	9.00
29	YAMUNANAGAR	RADAUR	npp	30.00980	77.16110	5/12/2022	13:03:43	D	3.40

Details of wheat residue burning events in Uttar Pradesh on 12-May-2022

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AURAIYA	BIDHUNA	npp	26.63980	79.47960	5/12/2022	01:53:00	N	2.90
2	AURAIYA	BIDHUNA	npp	26.64040	79.47570	5/12/2022	01:53:00	N	2.60
3	AURAIYA	BIDHUNA	npp	26.64310	79.48020	5/12/2022	01:53:00	N	1.70
4	BALLIA	BALLIA	npp	25.83850	84.05750	5/12/2022	13:03:43	D	7.10
5	BALLIA	SIKANDARPUR	npp	25.93210	84.12030	5/12/2022	13:03:43	D	7.30
6	BALLIA	SIKANDARPUR	npp	25.97690	84.07650	5/12/2022	13:03:43	D	4.50
7	BALLIA	SIKANDARPUR	npp	25.99390	84.08540	5/12/2022	13:03:43	D	8.40
8	BALLIA	SIKANDARPUR	npp	26.09550	84.01570	5/12/2022	13:03:43	D	5.50
9	GORAKHPUR	SAHJANWA	npp	26.75950	83.19860	5/12/2022	01:53:00	N	2.30
10	KUSHINAGAR	KASAYA	npp	26.73200	83.93110	5/12/2022	13:03:43	D	1.90
11	KUSHINAGAR	PADRAUNA	npp	27.01280	83.87760	5/12/2022	01:53:00	N	1.70
12	KUSHINAGAR	PADRAUNA	npp	26.97630	84.00810	5/12/2022	13:03:43	D	2.10
13	KUSHINAGAR	TAMKUHI RAJ	npp	26.63550	84.12050	5/12/2022	13:03:43	D	2.10
14	KUSHINAGAR	TAMKUHI RAJ	npp	26.67330	84.11040	5/12/2022	13:03:43	D	2.20
15	LALITPUR	TALBEHAT	npp	24.98340	78.55880	5/12/2022	01:53:00	N	0.40
16	SITAPUR	MISRIK	npp	27.53180	80.53160	5/12/2022	01:53:00	N	0.80
17	UNNAO	UNNAO	npp	26.45930	80.47780	5/12/2022	01:53:00	N	0.80

Details of wheat residue burning events in Madhya Pradesh on 12-May-2022

S. No.	District	Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day_flag	Fire Power (W/m2)
1	ASHOKNAGAR	CHANDERI	npp	24.60170	77.94500	5/12/2022	13:03:43	D	11.90
2	ASHOKNAGAR	ISAGARH	Terra	24.78000	77.87900	5/12/2022	11:10:31	D	19.20
3	BARWANI	BARWANI	npp	22.06740	74.95740	5/12/2022	13:03:43	D	2.50
4	BETUL	BETUL	npp	21.79830	77.98850	5/12/2022	01:53:00	N	1.00
5	BETUL	BETUL	npp	21.90130	77.67380	5/12/2022	01:53:00	N	1.10
6	BETUL	BETUL	npp	22.09480	78.06020	5/12/2022	01:53:00	N	1.30
7	BHOPAL	BERASIYA	npp	23.47850	77.46830	5/12/2022	01:53:00	N	1.20
8	BHOPAL	BERASIYA	npp	23.63930	77.43450	5/12/2022	01:53:00	N	2.50
9	BHOPAL	BERASIYA	npp	23.63990	77.43040	5/12/2022	01:53:00	N	2.50
10	BHOPAL	BERASIYA	npp	23.64330	77.43090	5/12/2022	01:53:00	N	3.60
11	BHOPAL	BERASIYA	npp	23.70880	77.26830	5/12/2022	01:53:00	N	0.80
12	BHOPAL	HUZUR	npp	23.39570	77.34290	5/12/2022	01:53:00	N	1.10
13	BURHANPUR	KHAKNAR	npp	21.35570	76.53690	5/12/2022	01:53:00	N	6.40
14	CHHATARPUR	BARAMALEHRA	npp	24.55400	79.22080	5/12/2022	13:03:43	D	18.80
15	CHHINDWARA	CHAURAI	npp	22.03590	79.38860	5/12/2022	01:53:00	N	0.90
16	CHHINDWARA	CHHINDWARA	npp	22.19040	78.92110	5/12/2022	01:53:00	N	1.10
17	CHHINDWARA	CHHINDWARA	npp	22.19370	78.92170	5/12/2022	01:53:00	N	2.80
18	CHHINDWARA	JAMAI	npp	22.22160	78.67390	5/12/2022	01:53:00	N	0.50
19	DATIA	BHANDER	npp	25.63500	78.72470	5/12/2022	13:03:43	D	29.90
20	DATIA	DATIA	npp	25.69990	78.63280	5/12/2022	13:03:43	D	21.90
21	DINDORI	AMARPUR	npp	22.45750	80.82550	5/12/2022	01:53:00	N	0.40
22	EAST NIMAR	KHANDWA	npp	22.13520	76.43740	5/12/2022	01:53:00	N	0.50
23	EAST NIMAR	KHANDWA	npp	22.13550	76.43930	5/12/2022	01:53:00	N	0.60
24	GUNA	ARON	npp	24.34050	77.45470	5/12/2022	01:53:00	N	1.40
25	GUNA	GUNA	npp	24.75430	76.99330	5/12/2022	01:53:00	N	0.50
26	GUNA	GUNA	npp	24.88390	77.19810	5/12/2022	01:53:00	N	0.90
27	GWALIOR	BHITARWAR	npp	25.97630	78.14200	5/12/2022	13:03:43	D	61.70
28	GWALIOR	BHITARWAR	npp	25.97650	78.14420	5/12/2022	13:03:43	D	38.90
29	GWALIOR	BHITARWAR	npp	26.00510	78.25550	5/12/2022	13:03:43	D	14.60
30	GWALIOR	BHITARWAR	npp	26.00560	78.25300	5/12/2022	13:03:43	D	18.90
31	JABALPUR	JABALPUR	npp	23.03730	79.99940	5/12/2022	01:53:00	N	0.60
32	JABALPUR	JABALPUR	npp	23.03790	79.99570	5/12/2022	01:53:00	N	0.60

33	JABALPUR	JABALPUR	npp	23.04060	80.00000	5/12/2022	01:53:00	N	1.10
34	KATNI	BAHURIBAND	npp	23.64900	80.03390	5/12/2022	01:53:00	N	0.70
35	KATNI	DHIMERKHEDA	npp	23.60770	80.33560	5/12/2022	01:53:00	N	0.60
36	KATNI	DHIMERKHEDA	npp	23.61020	80.33580	5/12/2022	01:53:00	N	0.60
37	KATNI	RITHI	npp	23.95970	80.01720	5/12/2022	01:53:00	N	0.40
38	RAISEN	BAGAMGANJ	npp	23.52590	78.36420	5/12/2022	01:53:00	N	0.90
39	RAISEN	BAGAMGANJ	npp	23.52740	78.42390	5/12/2022	01:53:00	N	0.90
40	RAISEN	BAGAMGANJ	npp	23.52930	78.36480	5/12/2022	01:53:00	N	0.50
41	RAISEN	BAGAMGANJ	npp	23.59410	78.33020	5/12/2022	13:03:43	D	23.10
42	RAISEN	RAISEN	Terra	23.39600	77.72900	5/12/2022	11:10:31	D	40.00
43	RAISEN	RAISEN	npp	23.40550	77.70820	5/12/2022	01:53:00	N	4.90
44	RAISEN	RAISEN	npp	23.42530	77.76480	5/12/2022	01:53:00	N	0.40
45	RAISEN	RAISEN	npp	23.46160	77.80320	5/12/2022	01:53:00	N	0.60
46	RAISEN	RAISEN	npp	23.40780	77.68960	5/12/2022	13:03:43	D	8.40
47	RAISEN	RAISEN	npp	23.42810	77.88150	5/12/2022	13:03:43	D	15.70
48	RAJGARH	RAJGARH	npp	23.84050	76.73360	5/12/2022	01:53:00	N	0.60
49	RATLAM	JAURA	npp	23.73340	75.22860	5/12/2022	13:03:43	D	13.20
50	REWA	HUZUR	npp	24.42420	81.33010	5/12/2022	01:53:00	N	1.30
51	REWA	SIRMAUR	npp	24.80900	81.53670	5/12/2022	01:53:00	N	0.50
52	SAGAR	GARHAKOTA	npp	23.80840	79.18080	5/12/2022	13:03:43	D	14.40
53	SAGAR	KESALI	npp	23.48840	78.79770	5/12/2022	01:53:00	N	0.50
54	SAGAR	RAHAT GARH	npp	23.87230	78.56480	5/12/2022	01:53:00	N	0.50
55	SAGAR	SAGAR	npp	23.69750	78.52690	5/12/2022	01:53:00	N	0.40
56	SAGAR	SAGAR	npp	23.70740	78.57610	5/12/2022	01:53:00	N	0.40
57	SAGAR	SAGAR	npp	23.80940	78.66420	5/12/2022	01:53:00	N	0.50
58	SATNA	MAIHAR	npp	24.20290	80.80060	5/12/2022	01:53:00	N	1.40
59	SEHORE	AASHTA	npp	22.92740	76.51790	5/12/2022	13:03:43	D	19.30
60	SEHORE	AASHTA	npp	22.97140	76.47950	5/12/2022	13:03:43	D	11.70
61	SEHORE	AASHTA	npp	23.10780	76.82000	5/12/2022	13:03:43	D	13.80
62	SEHORE	NASRULLAHGANJ	npp	22.70770	77.22530	5/12/2022	13:03:43	D	8.10
63	SEHORE	SEHORE	npp	23.38750	77.15090	5/12/2022	01:53:00	N	6.80
64	SHAHNOL	SOHAGPUR	npp	23.43750	81.44090	5/12/2022	01:53:00	N	1.10
65	SHAJAPUR	AGAR	npp	23.58220	75.93740	5/12/2022	13:03:43	D	26.90
66	SHAJAPUR	BAROUD	npp	23.73880	75.81480	5/12/2022	01:53:00	N	2.70
67	SHAJAPUR	GULNA	npp	23.32590	76.55230	5/12/2022	01:53:00	N	1.20

68	SHAJAPUR	NALKHERA	npp	23.83640	76.12160	5/12/2022	01:53:00	N	3.20
69	SHAJAPUR	SHAJAPUR	npp	23.51220	76.32520	5/12/2022	01:53:00	N	1.10
70	SHAJAPUR	SUJALPUR	npp	23.41980	76.58740	5/12/2022	13:03:43	D	19.50
71	SHAJAPUR	SUJALPUR	npp	23.48530	76.61230	5/12/2022	13:03:43	D	24.70
72	SHAJAPUR	SUJALPUR	npp	23.48730	76.60990	5/12/2022	13:03:43	D	17.10
73	SHEOPUR	SHEOPUR	npp	25.66100	76.53040	5/12/2022	13:03:43	D	15.10
74	SHEOPUR	SHEOPUR	npp	25.76930	76.62550	5/12/2022	13:03:43	D	15.50
75	SHEOPUR	SHEOPUR	npp	25.77270	76.62000	5/12/2022	13:03:43	D	14.40
76	SHEOPUR	SHEOPUR	npp	25.77360	76.62440	5/12/2022	13:03:43	D	14.40
77	SHIVPURI	NARWAR	Terra	25.70700	78.10000	5/12/2022	11:10:31	D	22.30
78	UJJAIN	MEHIDPUR	Terra	23.52000	75.81400	5/12/2022	11:10:31	D	22.10
79	UJJAIN	MEHIDPUR	Aqua	23.72300	75.84100	5/12/2022	01:50:25	N	17.10
80	UJJAIN	MEHIDPUR	npp	23.71520	75.83750	5/12/2022	01:53:00	N	4.50
81	UJJAIN	MEHIDPUR	npp	23.71890	75.83810	5/12/2022	01:53:00	N	12.70
82	UJJAIN	MEHIDPUR	npp	23.54130	75.80800	5/12/2022	13:03:43	D	19.60
83	UMARIA	MANPUR	npp	23.95670	80.95560	5/12/2022	01:53:00	N	1.00
84	VIDESHA	BASODA	npp	23.79090	78.04180	5/12/2022	13:03:43	D	19.70
85	VIDESHA	GYARASPUR	Terra	23.60800	78.23400	5/12/2022	11:10:31	D	16.70
86	VIDESHA	GYARASPUR	npp	23.68320	78.07840	5/12/2022	01:53:00	N	0.40
87	VIDESHA	GYARASPUR	npp	23.56600	78.05030	5/12/2022	13:03:43	D	17.00
88	VIDESHA	KORWAI	npp	23.97780	78.04100	5/12/2022	01:53:00	N	0.70
89	VIDESHA	NATERAN	npp	23.95050	77.57490	5/12/2022	01:53:00	N	2.70
90	VIDESHA	NATERAN	npp	23.93020	77.50540	5/12/2022	13:03:43	D	18.60
91	VIDESHA	VIDESHA	npp	23.58250	77.73650	5/12/2022	01:53:00	N	0.60
92	VIDESHA	VIDESHA	npp	23.58300	77.73240	5/12/2022	01:53:00	N	1.20
93	VIDESHA	VIDESHA	npp	23.58650	77.73300	5/12/2022	01:53:00	N	0.70
94	WEST NIMAR	BARWAH	npp	22.14360	76.09280	5/12/2022	01:53:00	N	0.80

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

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

**The 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)
