



**Bulletin
No. 51**

**Events Date:
20-Nov-2019**

**Issued on:
21-Nov-2019**



MONITORING PADDY RESIDUE BURNING IN NORTH INDIA USING SATELLITE REMOTE SENSING DURING 2019



Prepared by:

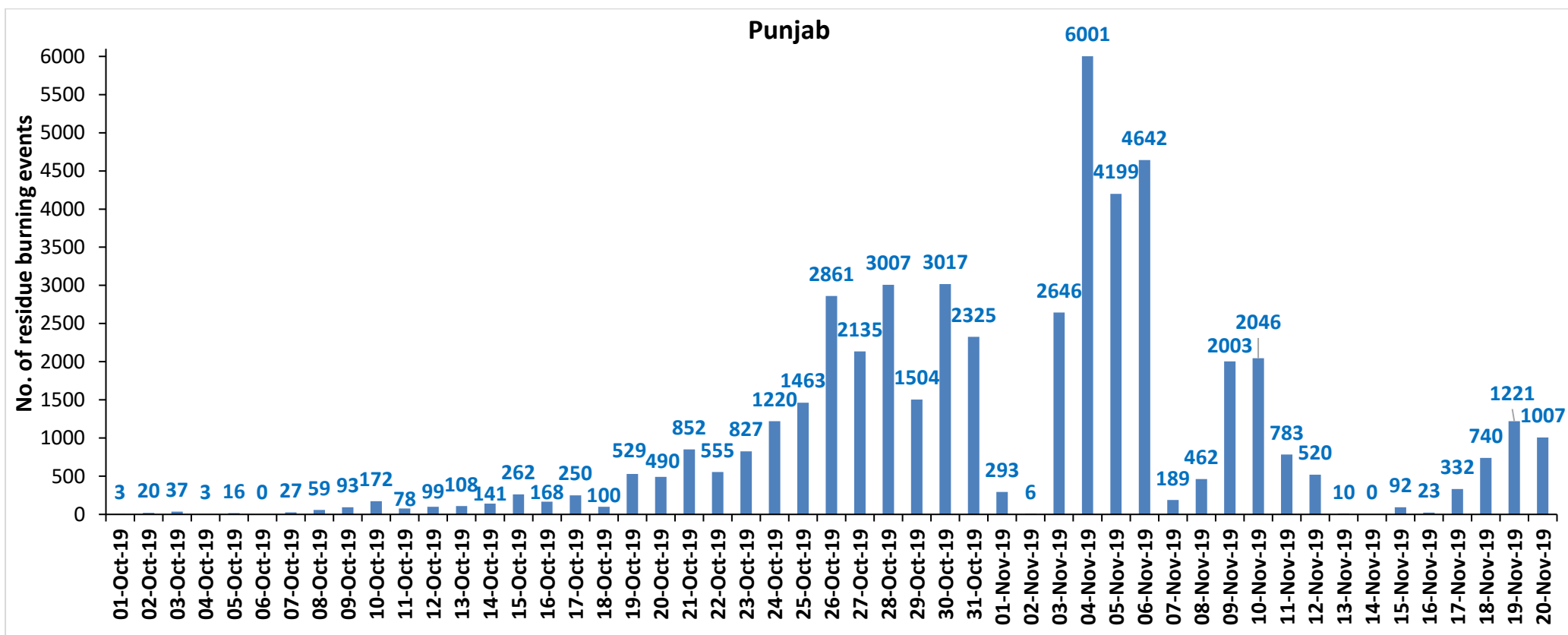
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

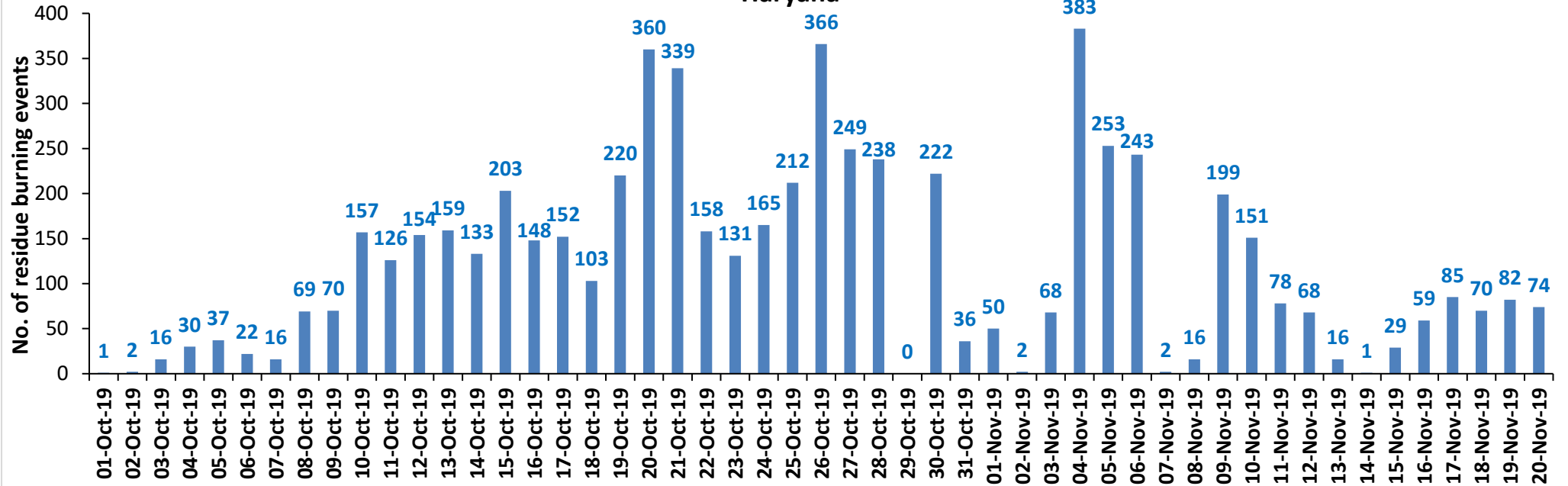
Highlights for 20-November-2019

- Satellites detected **1145** residue burning events in the three study States on **20-Nov-2019**.
- The burning events detected on **20-Nov-2019** are **1007**, **74** and **64** in Punjab, Haryana and UP, respectively.
- The number of events has decreased from **1342** on **19-Nov-2019** to **1145** on **20-Nov-2019** in the three states.
- Total **59284** burning events were detected in the three States between **01-Oct-2019** and **20-Nov-2019**, which are distributed as **49636**, **6223** and **3425** in Punjab, Haryana and UP, respectively.
- Overall, the total burning events recorded in the three states are **17.6%** less than in 2018 till date. UP recorded **37.8%** reduction, Haryana recorded **25.4%** reduction, and Punjab recorded **14.6%** reduction, respectively, in the current season than in 2018.

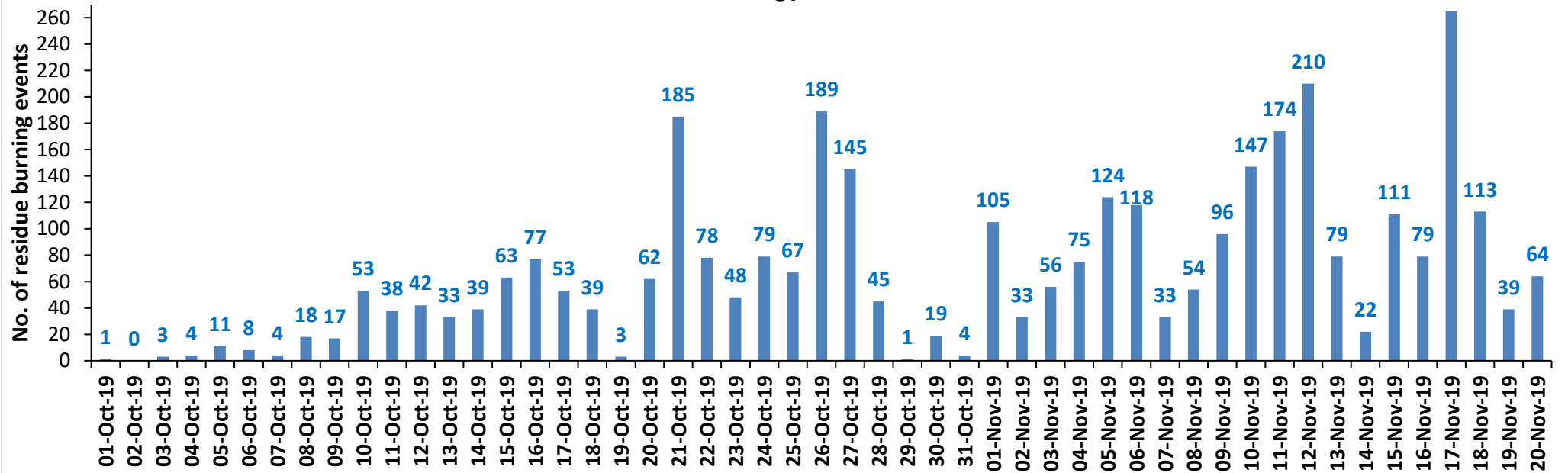
Temporal distribution of residue burning events for the three study States in 2019



Haryana



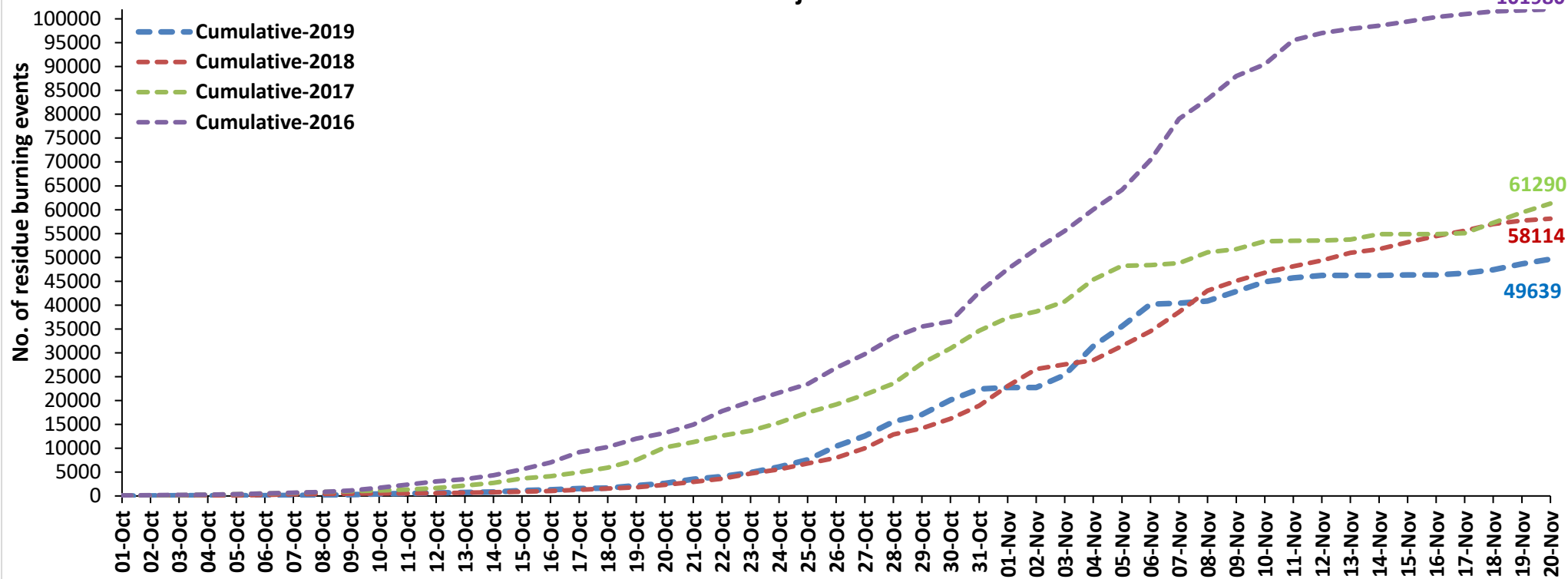
UP



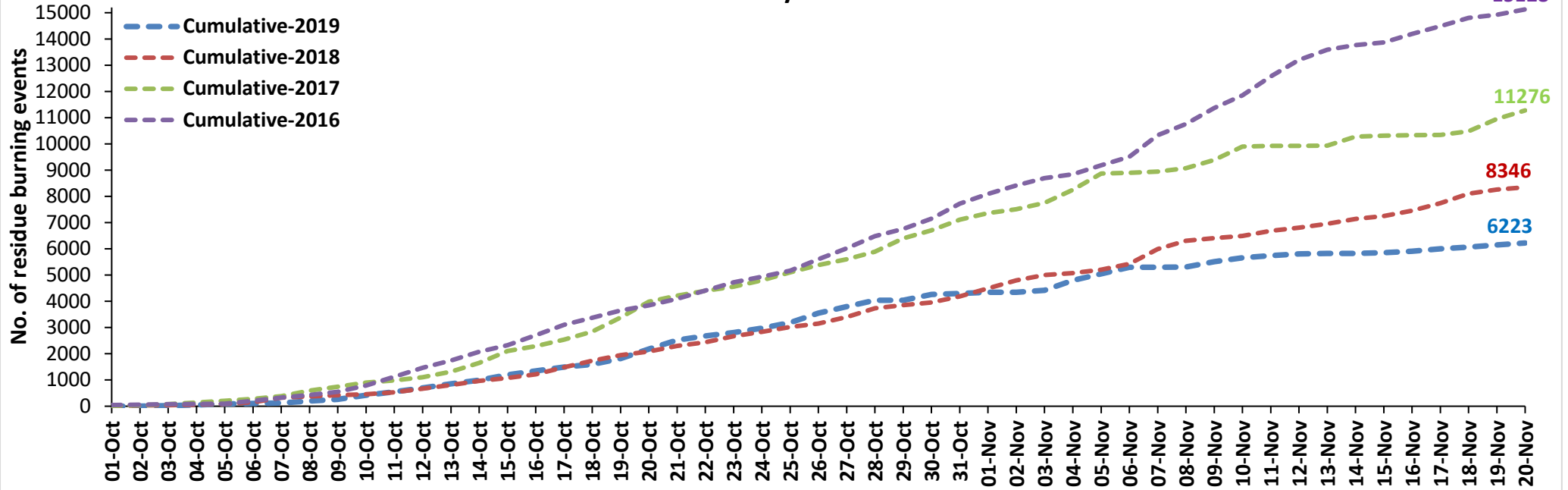
Comparison of residue burning events in current year (2019) with previous years (2018, 2017 & 2016) for the three study States

(01-Oct to 20-Nov)

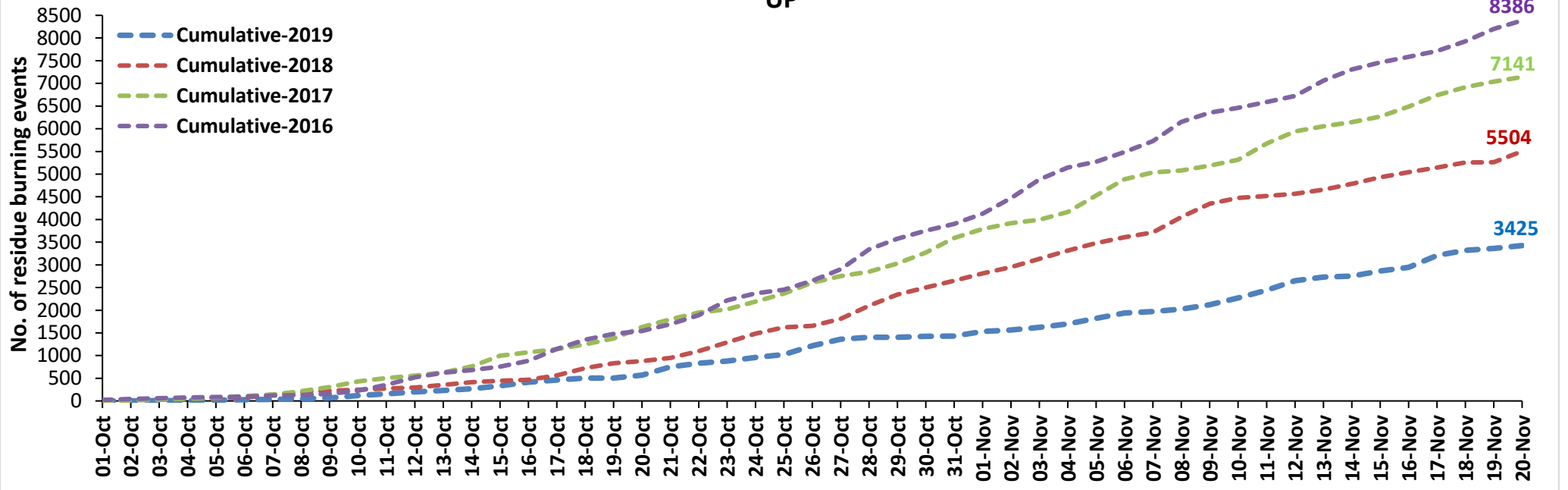
Punjab



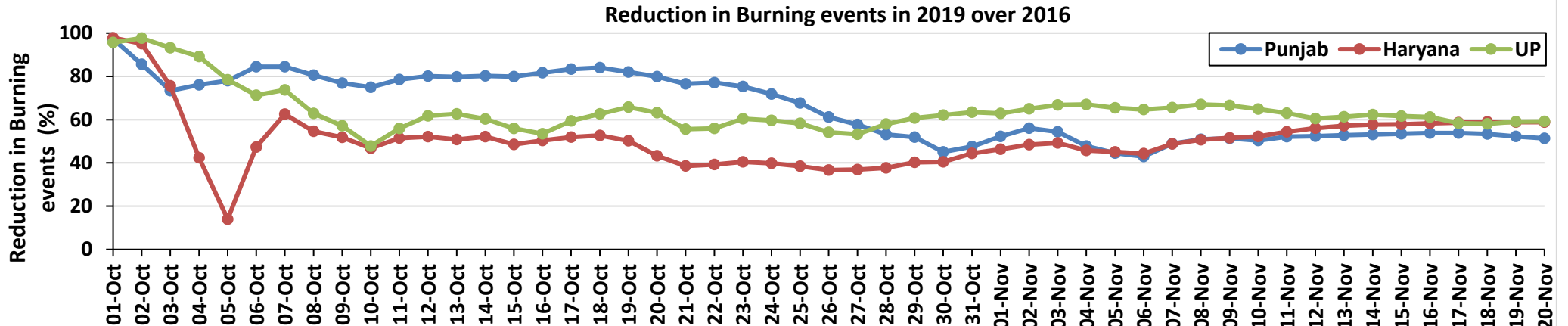
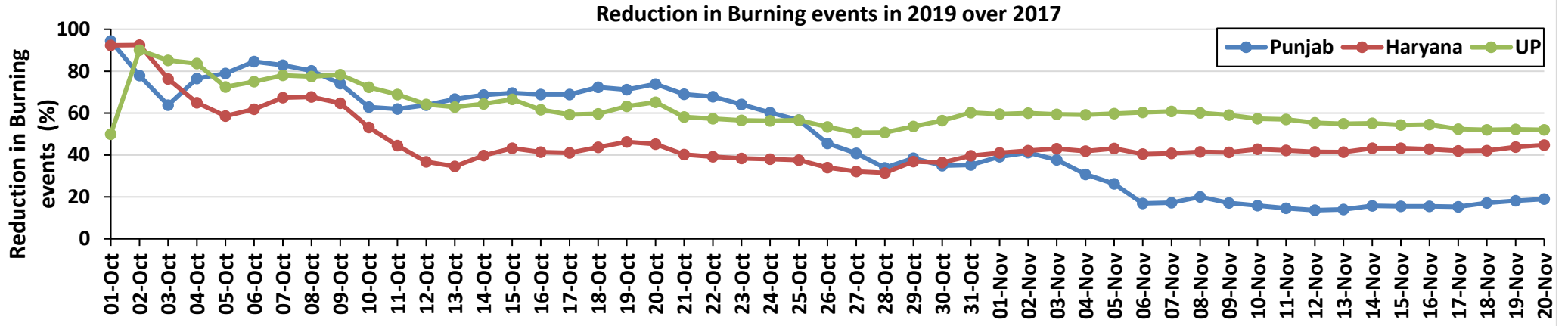
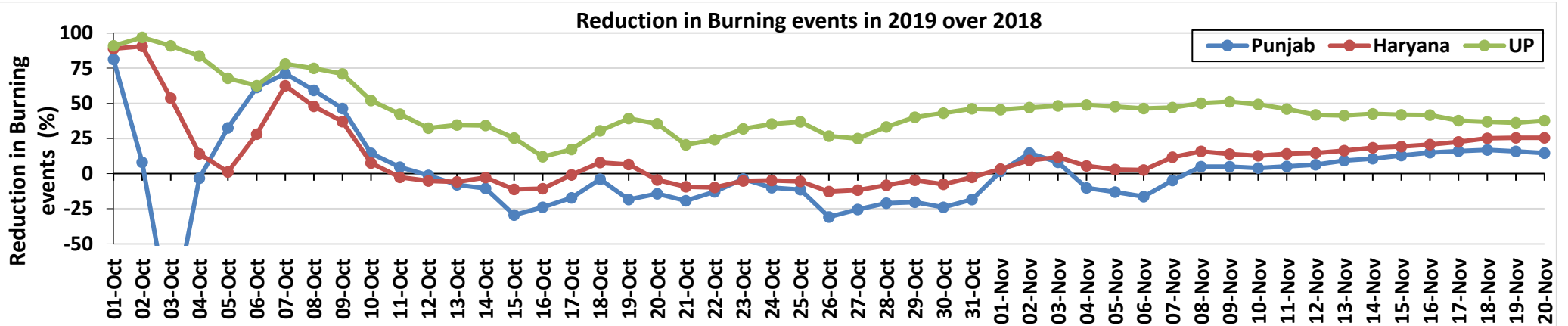
Haryana



UP

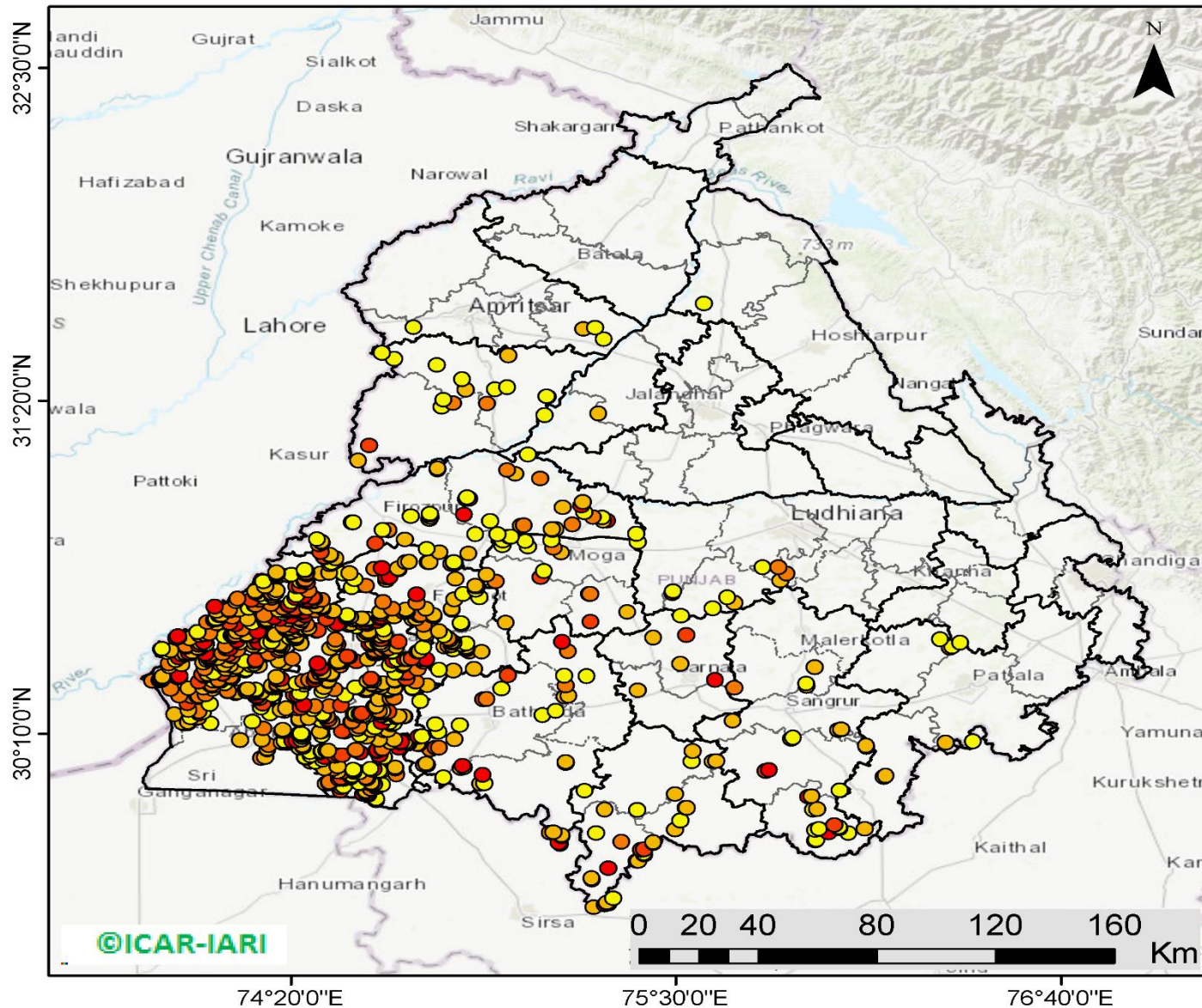


Percent Reduction in Burning events in 2019 over 2018, 2017 and 2016 (Daily Cumulative)



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



1007 burning events detected in Punjab on 20th November 2019

Fire Intensity (W/m²)

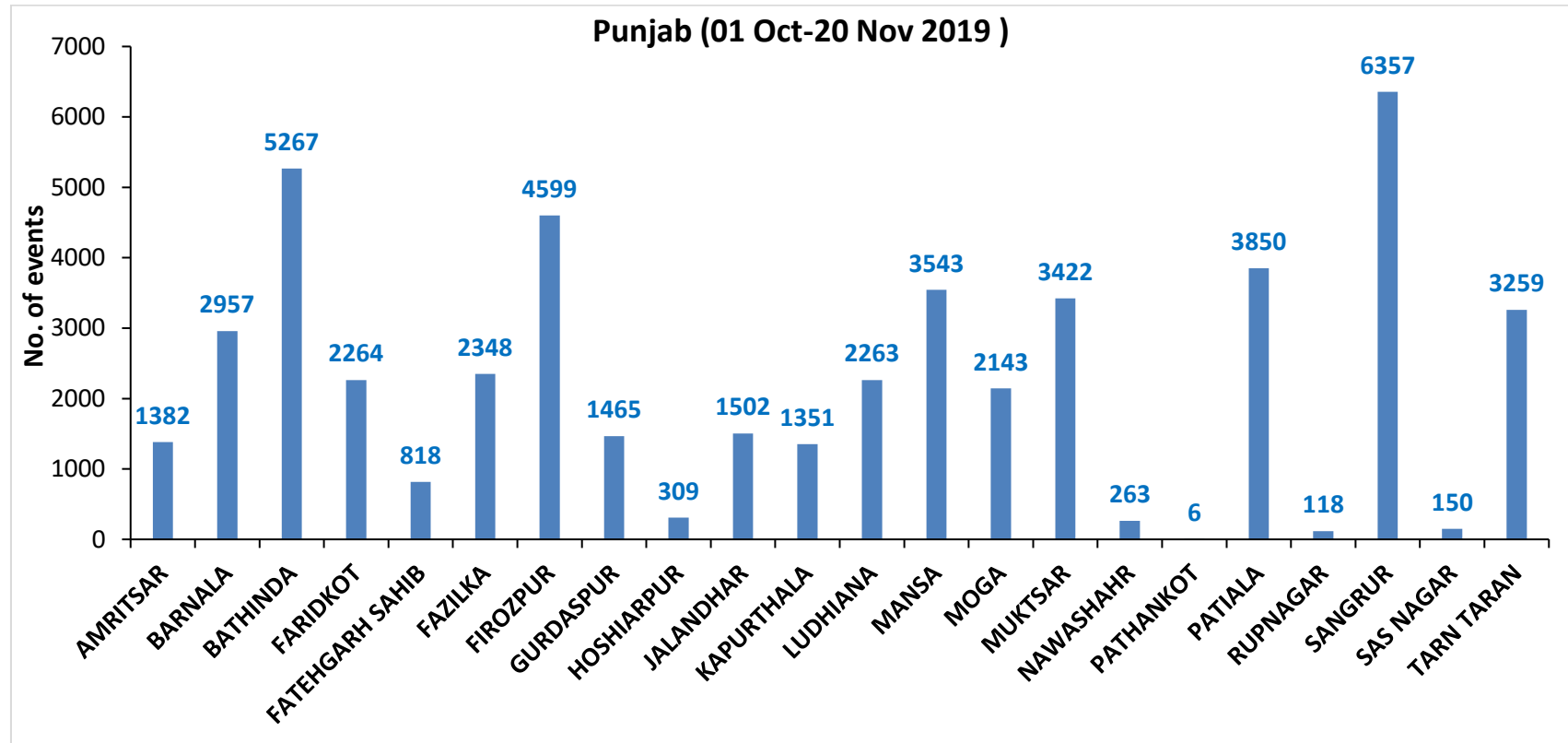
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

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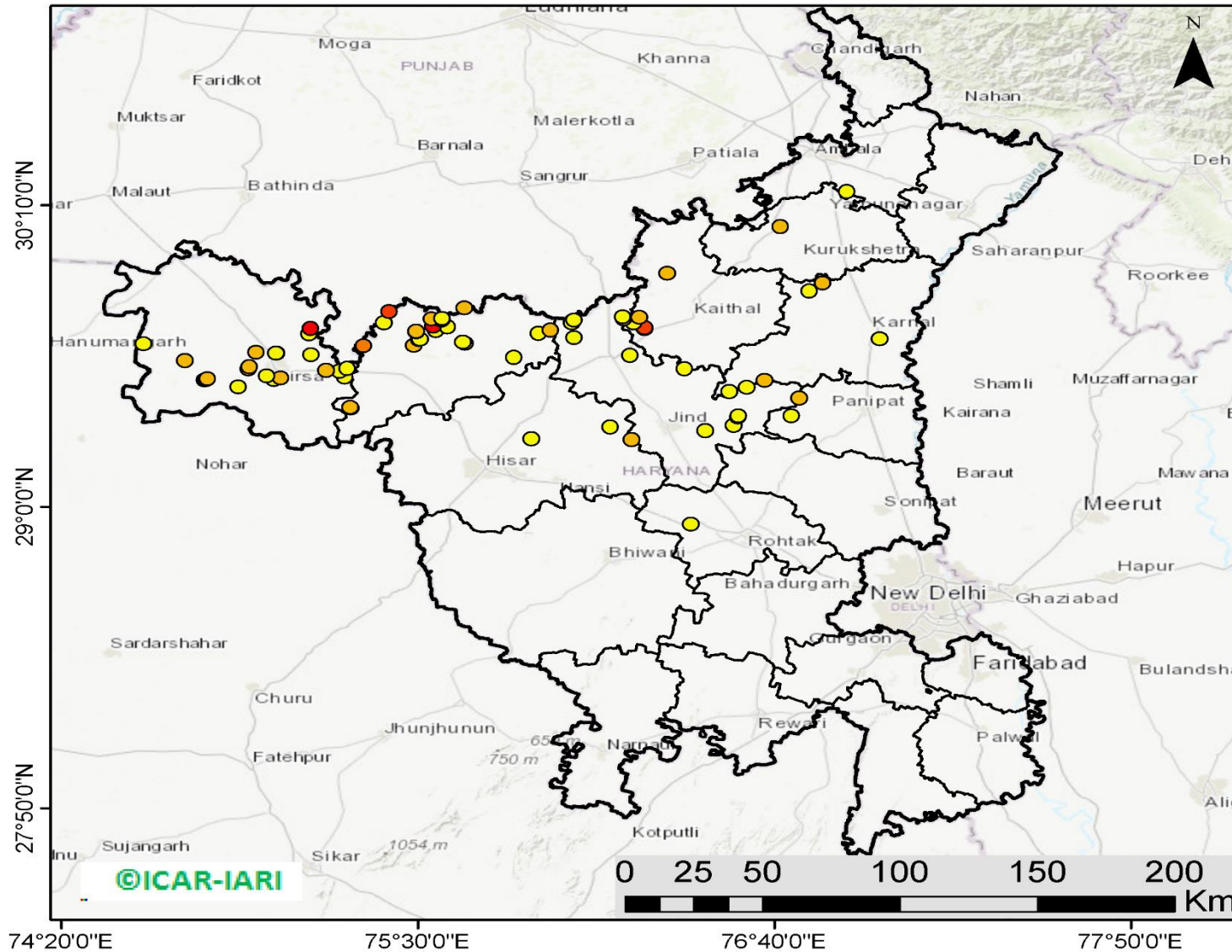
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District-wise cumulative number of residues burning events in Punjab (01 Oct to 20-Nov 2019)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



74 burning events detected in Haryana on 20th November 2019

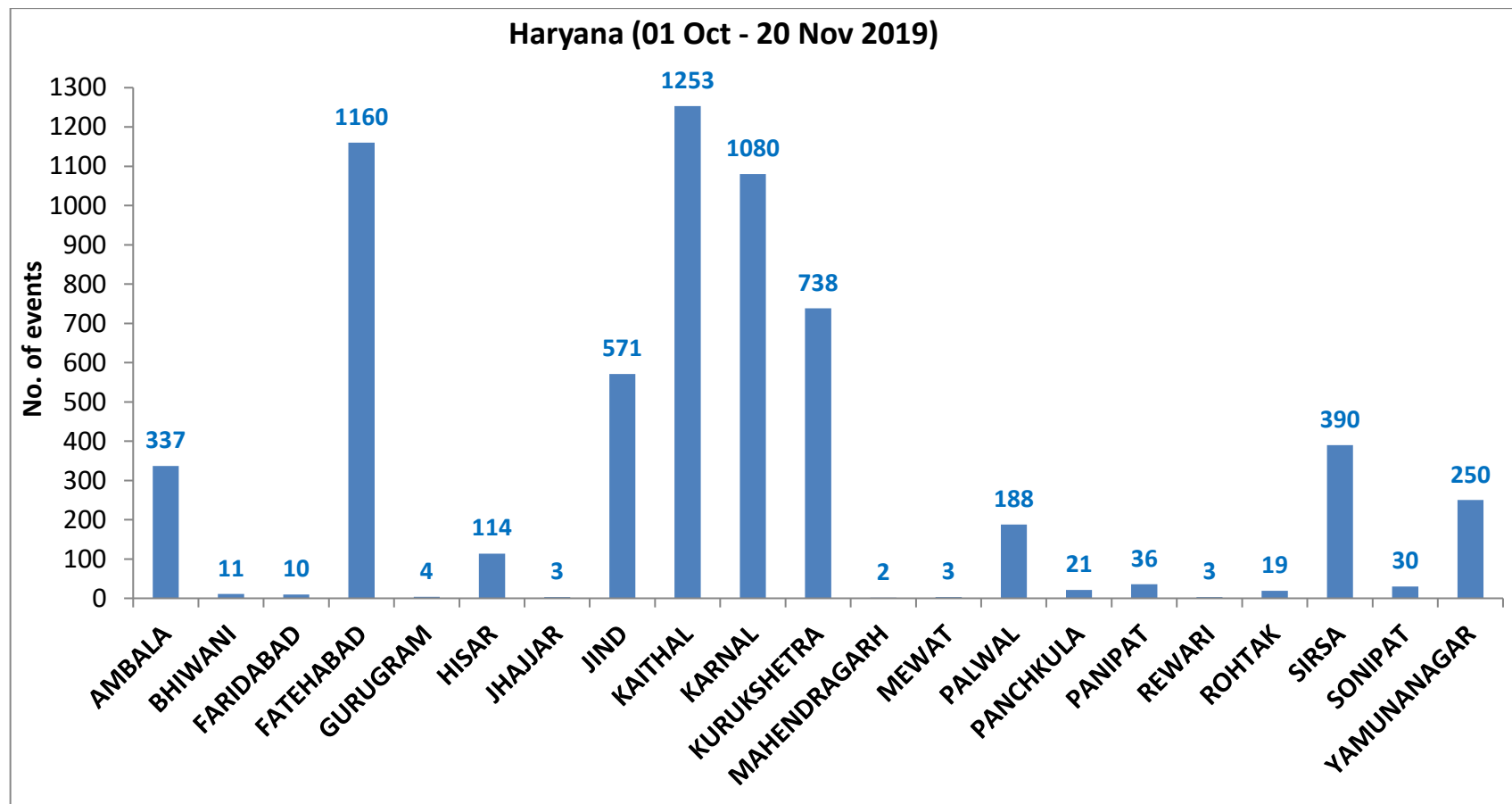
Fire Intensity (W/m²)

- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



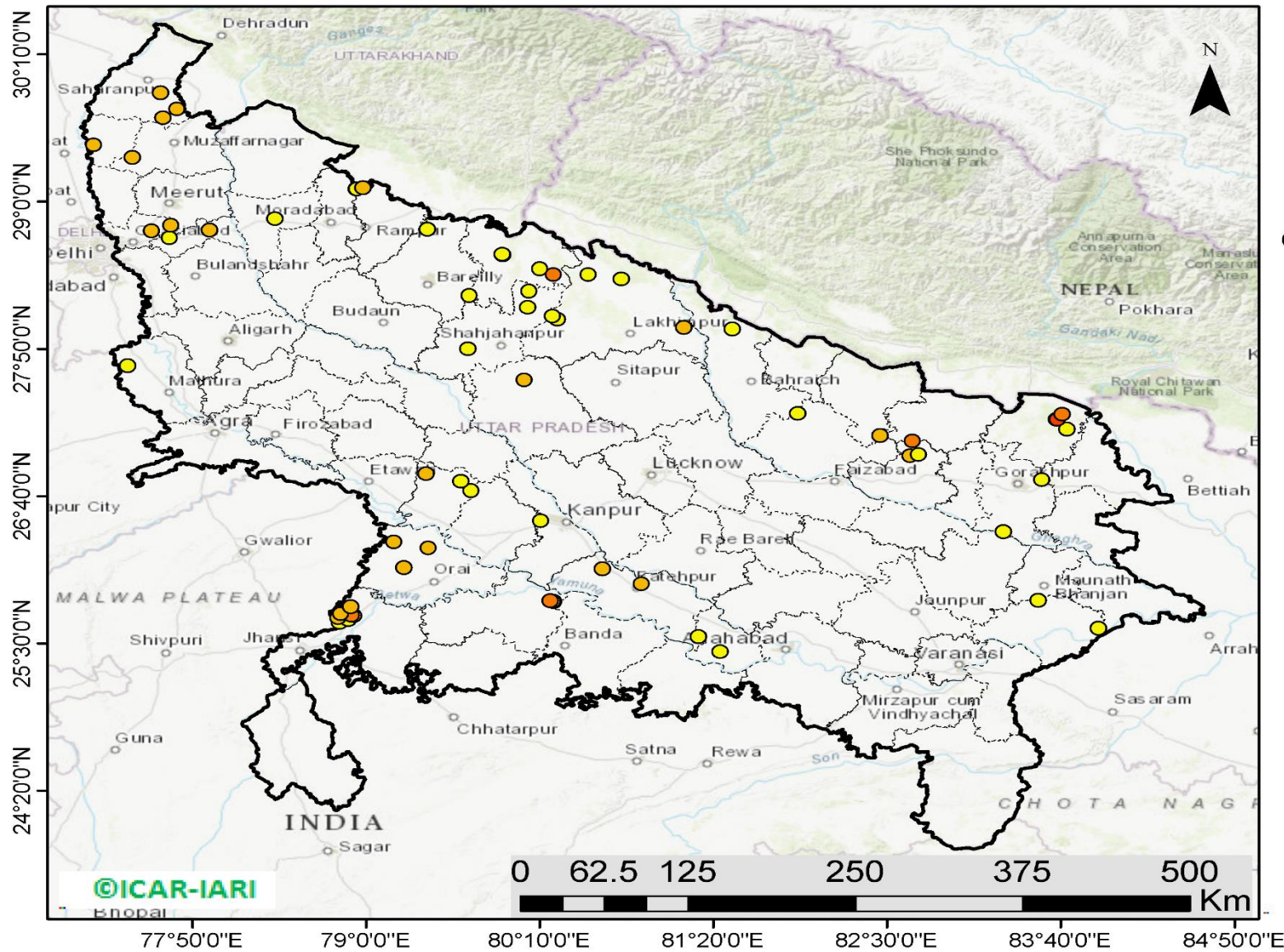
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (01 Oct to 20-Nov 2019)



(c) UP

RICE RESIDUE BURNING IN UTTAR PRADESH



64 burning events detected in Uttar Pradesh on 20th November 2019

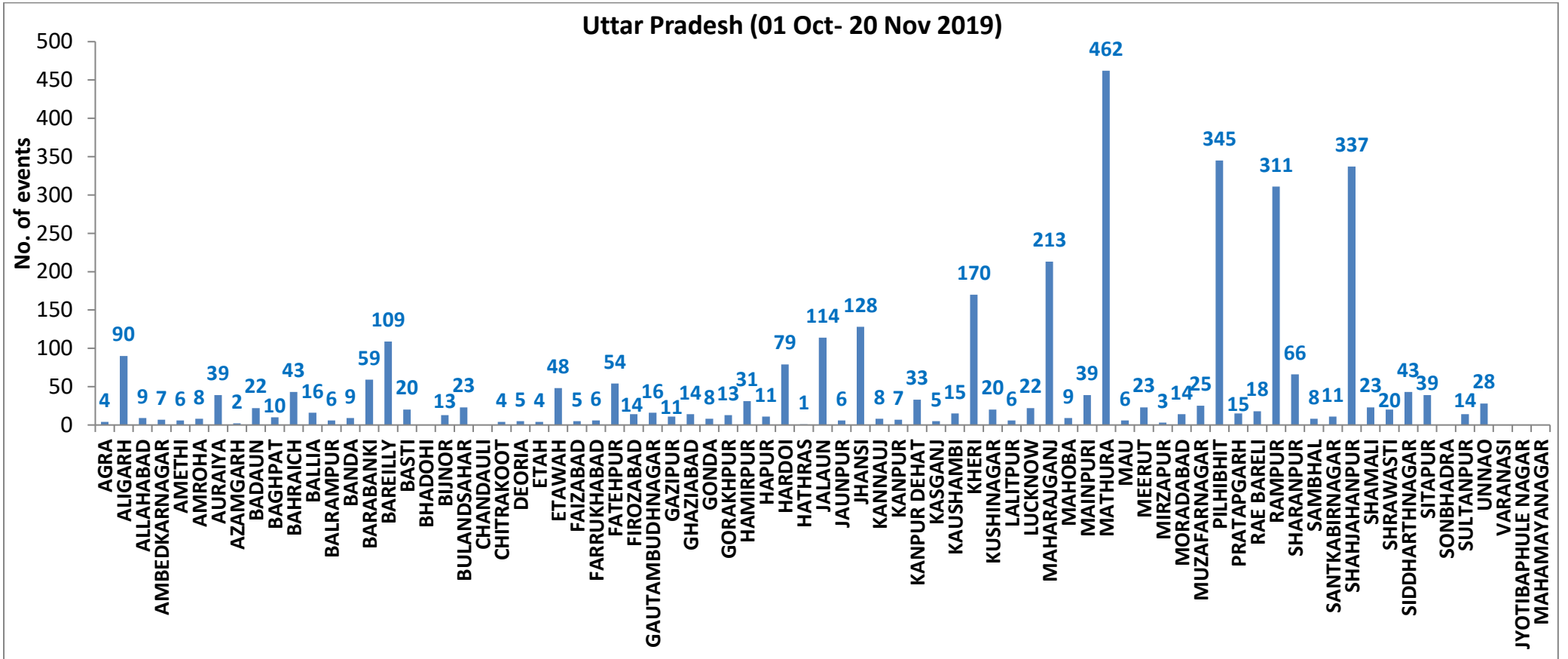
Fire Intensity (W/m²)

- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (01 Oct to 20-Nov 2019)



State-wise, date-wise and district-wise number of residues burning events detected in 2016, 2017, 2018 and 2019
(Period: 01-Oct to 20-Nov)

Date	Punjab				Haryana				UP				Total			
	2019	2018	2017	2016	2019	2018	2017	2016	2019	2018	2017	2016	2019	2018	2017	2016
01-Oct	3	16	54	109	1	9	13	46	1	11	2	23	5	36	69	178
02-Oct	20	9	50	51	2	23	27	16	0	21	8	20	23	53	85	87
03-Oct	37	4	62	66	16	9	40	16	3	12	17	16	56	25	119	98
04-Oct	3	32	103	37	30	16	60	7	4	5	22	15	37	53	185	59
05-Oct	16	56	106	95	37	30	68	15	11	10	20	14	64	96	194	124
06-Oct	0	87	138	152	22	63	75	105	8	13	39	6	30	163	252	263
07-Oct	27	162	105	171	16	180	97	126	4	69	33	24	47	411	235	321
08-Oct	59	39	215	166	69	40	218	94	18	54	76	14	146	133	509	274
09-Oct	93	75	163	270	70	47	148	121	17	32	88	22	180	154	399	413
10-Oct	172	23	164	597	157	37	151	242	53	21	126	74	382	81	441	913
11-Oct	78	30	177	652	126	78	87	336	38	24	74	128	242	131	338	1116
12-Oct	99	67	342	694	154	133	123	338	42	22	51	164	295	222	516	1196
13-Oct	108	62	470	467	159	147	207	284	33	61	69	102	300	270	746	853
14-Oct	141	112	582	812	133	153	333	328	39	57	137	60	313	322	1052	1200
15-Oct	262	90	943	1215	203	110	458	248	63	35	237	76	528	235	1638	1539
16-Oct	168	174	465	1478	148	138	186	385	77	20	71	125	393	332	722	1988
17-Oct	250	272	807	2173	152	268	244	399	53	94	69	261	455	634	1120	2833
18-Oct	100	263	970	1065	103	255	306	270	39	163	108	204	242	681	1384	1539
19-Oct	529	254	1591	1762	220	208	541	276	3	108	128	132	752	570	2260	2170
20-Oct	490	496	2653	1175	360	141	597	188	62	49	255	62	912	686	3505	1425
21-Oct	852	618	1139	1726	339	217	233	257	185	66	168	152	1376	901	1540	2135
22-Oct	555	656	1356	2837	158	134	186	309	78	149	151	194	791	939	1693	3340
23-Oct	827	1113	994	2040	131	232	155	313	48	193	72	331	1006	1538	1221	2684
24-Oct	1220	844	1714	1836	165	166	244	221	79	192	171	152	1464	1202	2129	2209
25-Oct	1463	1247	2104	1813	212	182	303	229	67	142	175	83	1742	1571	2582	2125
26-Oct	2861	1173	1715	3390	366	132	276	434	189	33	240	195	3416	1338	2231	4019
27-Oct	2135	2040	2069	2904	249	252	224	417	145	154	145	255	2529	2446	2438	3576
28-Oct	3007	2864	2318	3493	238	330	292	458	45	290	99	435	3290	3484	2709	4386
29-Oct	1504	1321	4184	2258	0	124	502	278	1	243	180	237	1505	1688	4866	2773
30-Oct	3017	2008	3152	1076	222	103	307	395	19	158	238	175	3258	2269	3697	1646
31-Oct	2325	2715	3743	6132	36	229	413	575	4	148	321	153	2365	3092	4477	6860
01-Nov	293	4140	2736	4843	50	306	250	362	105	161	199	223	448	4607	3185	5428
02-Nov	6	3550	1246	4183	2	306	145	332	33	142	131	345	41	3998	1522	4860

03-Nov	2646	972	2109	3806	68	202	240	275	56	181	75	409	2770	1355	2424	4490
04-Nov	6001	882	4603	4477	383	77	499	146	75	183	168	265	6459	1142	5270	4888
05-Nov	4199	2989	2876	4137	253	129	625	345	124	163	367	125	4576	3281	3868	4607
06-Nov	4642	3071	171	6303	243	222	26	322	118	130	357	215	5003	3423	554	6840
07-Nov	189	4033	420	8575	2	568	46	821	33	108	149	244	224	4709	615	9640
08-Nov	462	4450	2256	4129	16	313	128	432	54	338	43	419	532	5101	2427	4980
09-Nov	2003	2083	675	4857	199	199	311	608	96	294	107	205	2298	2473	1093	5670
10-Nov	2046	1675	1642	2468	151	85	509	484	147	125	131	109	2344	1885	2282	3061
11-Nov	783	1364	103	5040	78	196	29	716	174	45	358	129	1035	1605	490	5885
12-Nov	520	1256	33	1477	68	122	3	634	210	45	269	129	798	1423	305	2240
13-Nov	10	1563	237	885	16	146	7	389	79	94	109	338	105	1803	353	1612
14-Nov	0	765	1101	692	1	189	340	171	22	128	95	247	23	1082	1536	1110
15-Nov	92	1480	5	871	29	107	40	107	111	146	123	154	232	1733	168	1132
16-Nov	23	1250	8	911	59	204	17	318	79	112	218	123	161	1566	243	1352
17-Nov	332	1132	217	638	85	289	12	299	265	103	249	130	682	1524	478	1067
18-Nov	740	1400	2147	568	70	356	139	312	113	111	180	217	923	1867	2466	1097
19-Nov	1221	752	2200	168	82	159	471	125	39	3	122	273	1342	914	2793	566
20-Nov	1007	385	1857	240	74	88	325	204	64	243	101	183	1145	716	2283	627
Total	49636	58114	61290	101980	6223	8346	11276	15128	3425	5504	7141	8386	59284	71964	79707	125494

(a) Punjab

Districts	01Oct-20 Nov			
	2016	2017	2018	2019
AMRITSAR	2163	1283	1262	1382
BARNALA	5689	2965	3226	2957
BATHINDA	8821	5059	6254	5267
FARIDKOT	4621	3282	3015	2264
FATEHGARH SAHIB	2457	1618	851	818
FAZILKA	0	0	0	2348
FIROZPUR	13515	8669	9617	4599
GURDASPUR	2207	1532	1131	1465
HOSHIARPUR	899	480	196	309
JALANDHAR	4658	2016	1364	1502
KAPURTHALA	3134	1564	741	1351
LUDHIANA	9513	4130	2825	2263
MANSA	5618	4284	4259	3543
MOGA	6391	2201	2686	2143
MUKTSAR	6978	4636	5548	3422
NAWASHAHR (SBS Nagar)	1604	800	371	263
PATHANKOT	0	0	0	6
PATIALA	6536	5020	4201	3850
RUPNAGAR	715	326	83	118
SANGRUR	11853	8289	7750	6357
SAS NAGAR	114	107	104	150
TARN TARAN	4494	3029	2630	3259
Total	101980	61290	58114	49636

(b) Haryana

Districts	01Oct-20 Nov			
	2016	2017	2018	2019
AMBALA	530	492	326	337
BHIWANI	74	27	13	11
FARIDABAD	286	341	185	10
FATEHABAD	4746	3283	2293	1160
GURUGRAM	0	0	0	4
HISAR	379	169	173	114
JHAJJAR	28	16	21	3
JIND	850	919	833	571
KAITHAL	1747	1505	1287	1253
KARNAL	1625	1494	841	1080
KURUKSHETRA	1076	1143	680	738
MAHENDRAGARH	0	0	0	2
MEWAT	0	0	0	3
PALWAL	0	0	0	188
PANCHKULA	0	0	3	21
PANIPAT	79	80	56	36
REWARI	0	0	0	3
ROHTAK	85	55	28	19
SIRSA	3303	1386	1386	390
SONIPAT	81	58	30	30
YAMUNANAGAR	239	308	191	250
Total	15128	11276	8346	6223

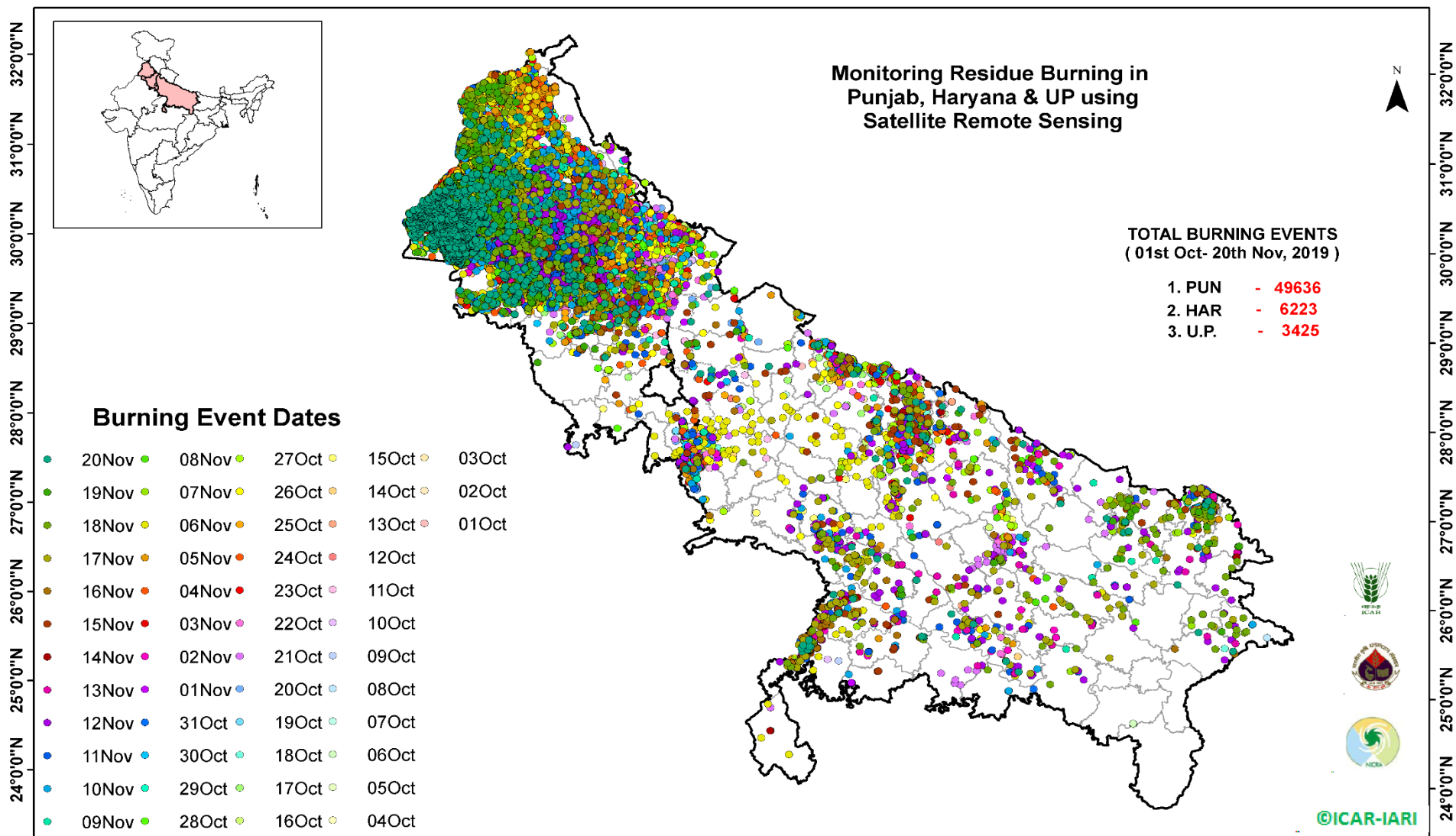
(c) Uttar Pradesh

Districts	01Oct-20 Nov			
	2016	2017	2018	2019
AGRA	0	0	0	4
ALIGARH	53	77	92	90
ALLAHABAD	5	8	13	9
AMBEDKARNAGAR	66	33	15	7
AMETHI	0	0	0	6
AMROHA	0	0	0	8
AURAIYA	213	177	54	39
AZAMGARH	32	26	23	2
BADAUN	6	7	9	22
BAGHPAT	0	0	0	10
BAHRAICH	65	39	57	43
BALLIA	17	22	14	16
BALRAMPUR	33	27	39	6
BANDA	2	14	8	9
BARABANKI	213	152	171	59
BAREILLY	242	201	114	109
BASTI	137	180	111	20
BHADOHI	0	0	0	0
BIJNOR	50	41	8	13
BULANDSAHAR	25	29	13	23
CHANDAULI	7	7	1	0
CHITRAKOOT	0	0	0	4
DEORIA	56	54	47	5
ETAH	17	30	25	4
ETAWAH	127	99	41	48
FAIZABAD	13	10	8	5
FARRUKHABAD	0	0	0	6
FATEHPUR	57	36	72	54
FIROZABAD	23	18	9	14

GAUTAMBUDHNAGAR	20	35	12	16
GAZIPUR	13	11	12	11
GHAZIABAD	68	42	28	14
GONDA	46	33	18	8
GORAKHPUR	59	99	111	13
HAMIRPUR	0	0	1	31
HAPUR	0	0	0	11
HARDOI	235	193	108	79
HATHRAS	0	0	0	1
JALAUN	0	0	0	114
JAUNPUR	15	13	16	6
JHANSI	0	0	2	128
KANNAUJ	28	14	6	8
KANPUR	14	7	12	7
KANPUR DEHAT	49	48	19	33
KASGANJ	0	0	0	5
KAUSHAMBI	20	39	37	15
KHERI	418	256	191	170
KUSHINAGAR	45	95	98	20
LALITPUR	0	0	0	6
LUCKNOW	60	30	26	22
MAHARAJGANJ	595	882	877	213
MAHOBA	0	0	0	9
MAINPURI	79	83	43	39
MATHURA	1442	1082	1048	462
MAU	12	9	10	6
MEERUT	71	69	18	23
MIRZAPUR	4	12	6	3
MORADABAD	46	32	11	14
MUZAFARNAGAR	119	126	39	25
PILHIBHIT	933	713	428	345
PRATAPGARH	36	34	28	15

RAE BARELI	78	61	39	18
RAMPUR	617	619	221	311
SHARANPUR	96	111	58	66
SAMBHAL	0	0	0	8
SANTKABIRNAGAR	53	59	49	11
SHAHJAHANPUR	1127	676	374	337
SHAMALI	0	0	0	23
SHRAWASTI	32	29	36	20
SIDDHARTHANAGAR	237	168	452	43
SITAPUR	120	71	39	39
SONBHADRA	14	13	11	0
SULTANPUR	53	28	25	14
UNNAO	60	47	39	28
VARANASI	1	0	0	0
JYOTIBAPHULE NAGAR	10	13	4	0
MAHAMAYANAGAR	2	2	8	0
Total	8386	7141	5504	3425

Map of Cumulative Burning Events (01 Oct – 20 Nov 2019)



[\(http://geoportal.icar.gov.in:8080/geoexplorer/composer/\)](http://geoportal.icar.gov.in:8080/geoexplorer/composer/)

Details of residue burning events in Punjab on 20-Nov-2019

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m2)
1	AMRITSAR	AMRITSAR II	S-NPP	74.60928	31.50155	13:54:00	D	2.90
2	AMRITSAR	AMRITSAR II	S-NPP	74.70531	31.59007	13:54:00	D	2.70
3	AMRITSAR	BABA BAKALA	S-NPP	75.28152	31.54869	13:54:00	D	3.10
4	AMRITSAR	BABA BAKALA	S-NPP	75.21869	31.58521	13:54:00	D	7.20
5	AMRITSAR	BABA BAKALA	S-NPP	75.25419	31.58877	13:54:00	D	3.60
6	BARNALA	BARNALA	S-NPP	75.51294	30.41185	13:54:00	D	6.90
7	BARNALA	BARNALA	AQUA	75.43100	30.50300	13:40:00	D	7.70
8	BARNALA	BARNALA	S-NPP	75.53172	30.51231	13:54:00	D	16.10
9	BARNALA	BARNALA	S-NPP	75.51541	30.57884	13:54:00	D	4.30
10	BARNALA	TAPPA	S-NPP	75.38450	30.31819	13:54:00	D	7.50
11	BARNALA	TAPPA	S-NPP	75.61925	30.35489	13:54:00	D	21.60
12	BATHINDA	BATHINDA	S-NPP	74.79575	30.01291	13:54:00	D	4.50
13	BATHINDA	BATHINDA	S-NPP	74.85424	30.05295	13:54:00	D	21.20
14	BATHINDA	BATHINDA	AQUA	74.73600	30.05600	13:40:00	D	13.60
15	BATHINDA	BATHINDA	AQUA	74.74700	30.05700	13:40:00	D	5.60
16	BATHINDA	BATHINDA	S-NPP	74.74499	30.05729	13:54:00	D	8.30
17	BATHINDA	BATHINDA	S-NPP	74.74442	30.06127	13:54:00	D	8.30
18	BATHINDA	BATHINDA	S-NPP	74.75528	30.11104	13:54:00	D	10.50
19	BATHINDA	BATHINDA	AQUA	74.77200	30.11700	13:40:00	D	18.00
20	BATHINDA	BATHINDA	AQUA	74.66100	30.11800	13:40:00	D	42.60
21	BATHINDA	BATHINDA	AQUA	74.78200	30.11800	13:40:00	D	10.30
22	BATHINDA	BATHINDA	S-NPP	74.72075	30.12941	13:54:00	D	6.20
23	BATHINDA	BATHINDA	S-NPP	74.71644	30.13092	13:54:00	D	9.20
24	BATHINDA	BATHINDA	AQUA	74.69100	30.13200	13:40:00	D	16.80
25	BATHINDA	BATHINDA	S-NPP	74.68424	30.13353	13:54:00	D	5.20
26	BATHINDA	BATHINDA	S-NPP	74.66605	30.13559	13:54:00	D	3.80
27	BATHINDA	BATHINDA	S-NPP	74.67193	30.13623	13:54:00	D	3.80
28	BATHINDA	BATHINDA	S-NPP	74.63622	30.13636	13:54:00	D	8.60
29	BATHINDA	BATHINDA	S-NPP	74.67780	30.13686	13:54:00	D	5.20
30	BATHINDA	BATHINDA	AQUA	74.66800	30.13800	13:40:00	D	30.40

31	BATHINDA	BATHINDA	S-NPP	74.64676	30.14557	13:54:00	D	5.70
32	BATHINDA	BATHINDA	S-NPP	74.82860	30.14775	13:54:00	D	7.00
33	BATHINDA	BATHINDA	AQUA	74.72000	30.15600	13:40:00	D	23.10
34	BATHINDA	BATHINDA	AQUA	74.73000	30.15700	13:40:00	D	4.10
35	BATHINDA	BATHINDA	S-NPP	74.77485	30.17171	13:54:00	D	3.60
36	BATHINDA	BATHINDA	S-NPP	74.78080	30.17237	13:54:00	D	4.50
37	BATHINDA	BATHINDA	S-NPP	74.84529	30.19569	13:54:00	D	4.10
38	BATHINDA	BATHINDA	S-NPP	74.77084	30.19967	13:54:00	D	4.00
39	BATHINDA	BATHINDA	AQUA	75.09600	30.23200	13:40:00	D	4.60
40	BATHINDA	BATHINDA	AQUA	75.13600	30.24700	13:40:00	D	5.00
41	BATHINDA	BATHINDA	AQUA	74.91600	30.28700	13:40:00	D	16.50
42	BATHINDA	BATHINDA	AQUA	74.92700	30.28800	13:40:00	D	10.60
43	BATHINDA	BATHINDA	S-NPP	74.97070	30.32425	13:54:00	D	1.90
44	BATHINDA	BATHINDA	AQUA	75.16600	30.33400	13:40:00	D	10.70
45	BATHINDA	BATHINDA	S-NPP	75.16177	30.36984	13:54:00	D	1.80
46	BATHINDA	BATHINDA	AQUA	74.99000	30.37200	13:40:00	D	19.40
47	BATHINDA	BATHINDA	S-NPP	74.82626	30.38702	13:54:00	D	5.20
48	BATHINDA	RAMPURA PHUL	AQUA	75.16300	30.29600	13:40:00	D	8.00
49	BATHINDA	RAMPURA PHUL	AQUA	75.17400	30.29800	13:40:00	D	8.80
50	BATHINDA	RAMPURA PHUL	S-NPP	75.23026	30.36894	13:54:00	D	3.00
51	BATHINDA	RAMPURA PHUL	AQUA	75.17300	30.45500	13:40:00	D	12.50
52	BATHINDA	RAMPURA PHUL	AQUA	75.15500	30.48900	13:40:00	D	25.50
53	BATHINDA	TALWANDI SABO	S-NPP	75.14919	29.78095	13:54:00	D	19.00
54	BATHINDA	TALWANDI SABO	S-NPP	75.14452	29.78457	13:54:00	D	32.10
55	BATHINDA	TALWANDI SABO	S-NPP	75.15398	29.80620	13:54:00	D	7.20
56	BATHINDA	TALWANDI SABO	S-NPP	75.15341	29.81026	13:54:00	D	7.20
57	BATHINDA	TALWANDI SABO	AQUA	75.11800	29.81900	13:40:00	D	11.90
58	BATHINDA	TALWANDI SABO	AQUA	75.12800	29.82100	13:40:00	D	7.60
59	BATHINDA	TALWANDI SABO	AQUA	74.90800	29.99100	13:40:00	D	7.30
60	BATHINDA	TALWANDI SABO	AQUA	74.91900	29.99200	13:40:00	D	4.50
61	BATHINDA	TALWANDI SABO	S-NPP	74.91470	30.02219	13:54:00	D	48.60
62	BATHINDA	TALWANDI SABO	AQUA	74.84800	30.04500	13:40:00	D	7.70
63	BATHINDA	TALWANDI SABO	AQUA	74.85800	30.04700	13:40:00	D	7.00

64	BATHINDA	TALWANDI SABO	S-NPP	75.16573	30.06241	13:54:00	D	5.60
65	BATHINDA	TALWANDI SABO	S-NPP	75.16517	30.06649	13:54:00	D	5.60
66	FARIDKOT	FARIDKOT	AQUA	74.81000	30.50100	13:40:00	D	10.10
67	FARIDKOT	FARIDKOT	S-NPP	74.79723	30.51094	13:54:00	D	2.10
68	FARIDKOT	FARIDKOT	S-NPP	74.74490	30.51335	13:54:00	D	6.50
69	FARIDKOT	FARIDKOT	AQUA	74.74000	30.51900	13:40:00	D	6.20
70	FARIDKOT	FARIDKOT	S-NPP	74.78285	30.52567	13:54:00	D	8.90
71	FARIDKOT	FARIDKOT	AQUA	74.73500	30.54600	13:40:00	D	11.30
72	FARIDKOT	FARIDKOT	S-NPP	74.84920	30.54933	13:54:00	D	3.00
73	FARIDKOT	FARIDKOT	S-NPP	74.84863	30.55336	13:54:00	D	1.70
74	FARIDKOT	FARIDKOT	AQUA	74.70300	30.56700	13:40:00	D	9.00
75	FARIDKOT	FARIDKOT	AQUA	74.71300	30.56900	13:40:00	D	9.60
76	FARIDKOT	FARIDKOT	AQUA	74.76600	30.57700	13:40:00	D	9.50
77	FARIDKOT	FARIDKOT	S-NPP	74.76335	30.57759	13:54:00	D	2.50
78	FARIDKOT	FARIDKOT	AQUA	74.72200	30.58000	13:40:00	D	68.30
79	FARIDKOT	FARIDKOT	S-NPP	74.72108	30.58118	13:54:00	D	16.50
80	FARIDKOT	FARIDKOT	S-NPP	74.72708	30.58183	13:54:00	D	10.80
81	FARIDKOT	FARIDKOT	S-NPP	74.76680	30.58203	13:54:00	D	5.60
82	FARIDKOT	FARIDKOT	AQUA	74.67600	30.59100	13:40:00	D	15.70
83	FARIDKOT	FARIDKOT	AQUA	74.68600	30.59300	13:40:00	D	13.10
84	FARIDKOT	FARIDKOT	S-NPP	74.68230	30.59727	13:54:00	D	12.90
85	FARIDKOT	FARIDKOT	S-NPP	74.82162	30.60016	13:54:00	D	6.20
86	FARIDKOT	FARIDKOT	S-NPP	74.68172	30.60126	13:54:00	D	5.70
87	FARIDKOT	FARIDKOT	S-NPP	74.74225	30.60381	13:54:00	D	6.20
88	FARIDKOT	FARIDKOT	S-NPP	74.82104	30.60418	13:54:00	D	6.20
89	FARIDKOT	FARIDKOT	S-NPP	74.71479	30.62521	13:54:00	D	13.30
90	FARIDKOT	FARIDKOT	S-NPP	74.82864	30.63773	13:54:00	D	7.20
91	FARIDKOT	FARIDKOT	AQUA	74.90500	30.64500	13:40:00	D	3.80
92	FARIDKOT	FARIDKOT	S-NPP	74.71445	30.65442	13:54:00	D	25.10
93	FARIDKOT	FARIDKOT	S-NPP	74.85487	30.65699	13:54:00	D	2.00
94	FARIDKOT	FARIDKOT	S-NPP	74.89459	30.66958	13:54:00	D	3.40
95	FARIDKOT	FARIDKOT	AQUA	74.51800	30.67900	13:40:00	D	2.60
96	FARIDKOT	FARIDKOT	S-NPP	74.89285	30.68137	13:54:00	D	9.60

97	FARIDKOT	FARIDKOT	S-NPP	74.89696	30.68180	13:54:00	D	9.60
98	FARIDKOT	FARIDKOT	S-NPP	74.89699	30.68217	13:54:00	D	14.90
99	FARIDKOT	FARIDKOT	AQUA	74.56100	30.68500	13:40:00	D	12.00
100	FARIDKOT	FARIDKOT	S-NPP	74.89227	30.68541	13:54:00	D	9.60
101	FARIDKOT	FARIDKOT	AQUA	74.62300	30.70400	13:40:00	D	6.20
102	FARIDKOT	FARIDKOT	S-NPP	74.52559	30.70677	13:54:00	D	3.20
103	FARIDKOT	FARIDKOT	AQUA	74.83100	30.70800	13:40:00	D	8.40
104	FARIDKOT	FARIDKOT	AQUA	74.62200	30.71300	13:40:00	D	45.00
105	FARIDKOT	FARIDKOT	AQUA	74.63200	30.71500	13:40:00	D	27.20
106	FARIDKOT	FARIDKOT	S-NPP	74.49275	30.72724	13:54:00	D	4.90
107	FARIDKOT	FARIDKOT	S-NPP	74.51038	30.72922	13:54:00	D	7.00
108	FARIDKOT	FARIDKOT	S-NPP	74.65920	30.74186	13:54:00	D	3.50
109	FARIDKOT	FARIDKOT	AQUA	74.58700	30.74400	13:40:00	D	10.70
110	FARIDKOT	FARIDKOT	S-NPP	74.65863	30.74585	13:54:00	D	5.50
111	FARIDKOT	FARIDKOT	AQUA	74.60900	30.74700	13:40:00	D	37.60
112	FARIDKOT	FARIDKOT	AQUA	74.82000	30.76200	13:40:00	D	12.00
113	FARIDKOT	FARIDKOT	AQUA	74.83000	30.76400	13:40:00	D	13.10
114	FARIDKOT	FARIDKOT	S-NPP	74.82709	30.76455	13:54:00	D	3.00
115	FARIDKOT	FARIDKOT	AQUA	74.68200	30.76800	13:40:00	D	7.00
116	FARIDKOT	FARIDKOT	S-NPP	74.74826	30.76807	13:54:00	D	7.40
117	FARIDKOT	FARIDKOT	S-NPP	74.75230	30.76852	13:54:00	D	7.40
118	FARIDKOT	FARIDKOT	S-NPP	74.82652	30.76858	13:54:00	D	3.00
119	FARIDKOT	FARIDKOT	AQUA	74.69200	30.76900	13:40:00	D	6.00
120	FARIDKOT	FARIDKOT	S-NPP	74.74612	30.81364	13:54:00	D	3.10
121	FARIDKOT	JAITO	AQUA	74.88800	30.39400	13:40:00	D	5.90
122	FARIDKOT	JAITO	S-NPP	74.87424	30.45357	13:54:00	D	13.60
123	FARIDKOT	JAITO	S-NPP	74.91140	30.45359	13:54:00	D	9.90
124	FARIDKOT	JAITO	S-NPP	74.82404	30.46022	13:54:00	D	5.10
125	FARIDKOT	JAITO	S-NPP	74.86500	30.46072	13:54:00	D	3.50
126	FARIDKOT	JAITO	S-NPP	74.82483	30.46088	13:54:00	D	4.30
127	FARIDKOT	JAITO	S-NPP	74.86443	30.46475	13:54:00	D	6.90
128	FARIDKOT	JAITO	S-NPP	74.86530	30.46516	13:54:00	D	5.50
129	FARIDKOT	JAITO	S-NPP	74.86386	30.46878	13:54:00	D	6.90

130	FARIDKOT	JAITO	S-NPP	74.86472	30.46919	13:54:00	D	5.50
131	FARIDKOT	JAITO	S-NPP	74.79893	30.47036	13:54:00	D	5.40
132	FARIDKOT	JAITO	AQUA	74.81100	30.47400	13:40:00	D	14.90
133	FARIDKOT	JAITO	AQUA	74.82200	30.47600	13:40:00	D	6.20
134	FARIDKOT	JAITO	AQUA	74.85300	30.48000	13:40:00	D	4.50
135	FARIDKOT	JAITO	AQUA	74.86400	30.48200	13:40:00	D	4.50
136	FARIDKOT	JAITO	S-NPP	74.82140	30.48500	13:54:00	D	7.00
137	FARIDKOT	JAITO	S-NPP	74.82543	30.48543	13:54:00	D	7.00
138	FARIDKOT	JAITO	S-NPP	74.82082	30.48902	13:54:00	D	7.00
139	FARIDKOT	JAITO	S-NPP	74.81563	30.49662	13:54:00	D	7.40
140	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.36098	30.48608	13:54:00	D	3.80
141	FAZILKA	ABOHAR	S-NPP	74.37802	30.07996	13:54:00	D	2.80
142	FAZILKA	ABOHAR	AQUA	74.24400	30.08100	13:40:00	D	10.90
143	FAZILKA	ABOHAR	AQUA	74.25500	30.08300	13:40:00	D	6.30
144	FAZILKA	ABOHAR	S-NPP	74.26281	30.11076	13:54:00	D	9.90
145	FAZILKA	ABOHAR	S-NPP	74.26224	30.11464	13:54:00	D	9.90
146	FAZILKA	ABOHAR	AQUA	74.36000	30.11800	13:40:00	D	9.90
147	FAZILKA	ABOHAR	AQUA	74.37100	30.12000	13:40:00	D	6.70
148	FAZILKA	ABOHAR	S-NPP	74.36895	30.12669	13:54:00	D	5.20
149	FAZILKA	ABOHAR	S-NPP	74.26608	30.12691	13:54:00	D	10.40
150	FAZILKA	ABOHAR	S-NPP	74.32211	30.13328	13:54:00	D	16.10
151	FAZILKA	ABOHAR	AQUA	74.30600	30.13500	13:40:00	D	6.30
152	FAZILKA	ABOHAR	AQUA	74.31700	30.13700	13:40:00	D	6.40
153	FAZILKA	ABOHAR	S-NPP	74.31535	30.14042	13:54:00	D	4.80
154	FAZILKA	ABOHAR	AQUA	74.33900	30.14100	13:40:00	D	21.00
155	FAZILKA	ABOHAR	AQUA	74.35000	30.14200	13:40:00	D	31.40
156	FAZILKA	ABOHAR	AQUA	74.17900	30.14400	13:40:00	D	5.50
157	FAZILKA	ABOHAR	AQUA	74.24700	30.14500	13:40:00	D	5.30
158	FAZILKA	ABOHAR	S-NPP	74.36608	30.14619	13:54:00	D	4.80
159	FAZILKA	ABOHAR	AQUA	74.30900	30.17400	13:40:00	D	17.30
160	FAZILKA	ABOHAR	S-NPP	74.30959	30.17932	13:54:00	D	8.80
161	FAZILKA	ABOHAR	AQUA	74.25000	30.18400	13:40:00	D	11.20
162	FAZILKA	ABOHAR	S-NPP	74.21732	30.20851	13:54:00	D	3.00

163	FAZILKA	ABOHAR	S-NPP	74.26975	30.23813	13:54:00	D	3.30
164	FAZILKA	FAZILKA	AQUA	74.01100	30.20000	13:40:00	D	7.80
165	FAZILKA	FAZILKA	S-NPP	74.08900	30.20177	13:54:00	D	4.30
166	FAZILKA	FAZILKA	AQUA	74.02200	30.20200	13:40:00	D	5.30
167	FAZILKA	FAZILKA	S-NPP	74.00538	30.20387	13:54:00	D	6.80
168	FAZILKA	FAZILKA	S-NPP	74.02168	30.20575	13:54:00	D	8.70
169	FAZILKA	FAZILKA	S-NPP	74.04722	30.22041	13:54:00	D	10.30
170	FAZILKA	FAZILKA	S-NPP	74.05268	30.22105	13:54:00	D	10.30
171	FAZILKA	FAZILKA	S-NPP	74.03027	30.22235	13:54:00	D	3.80
172	FAZILKA	FAZILKA	AQUA	73.98100	30.23400	13:40:00	D	6.90
173	FAZILKA	FAZILKA	S-NPP	74.05583	30.23704	13:54:00	D	16.20
174	FAZILKA	FAZILKA	S-NPP	74.06620	30.24216	13:54:00	D	4.50
175	FAZILKA	FAZILKA	S-NPP	74.05468	30.24472	13:54:00	D	12.90
176	FAZILKA	FAZILKA	AQUA	74.02400	30.25000	13:40:00	D	6.50
177	FAZILKA	FAZILKA	S-NPP	74.24388	30.25886	13:54:00	D	4.80
178	FAZILKA	FAZILKA	S-NPP	74.08772	30.26980	13:54:00	D	4.30
179	FAZILKA	FAZILKA	S-NPP	74.24775	30.27115	13:54:00	D	15.80
180	FAZILKA	FAZILKA	S-NPP	74.02025	30.27392	13:54:00	D	16.60
181	FAZILKA	FAZILKA	S-NPP	74.23929	30.28991	13:54:00	D	6.20
182	FAZILKA	FAZILKA	S-NPP	74.23086	30.29364	13:54:00	D	4.70
183	FAZILKA	FAZILKA	S-NPP	74.03374	30.29497	13:54:00	D	13.20
184	FAZILKA	FAZILKA	S-NPP	74.22694	30.29635	13:54:00	D	25.90
185	FAZILKA	FAZILKA	S-NPP	74.05016	30.29684	13:54:00	D	11.70
186	FAZILKA	FAZILKA	S-NPP	74.23254	30.29700	13:54:00	D	25.90
187	FAZILKA	FAZILKA	S-NPP	74.05564	30.29747	13:54:00	D	11.70
188	FAZILKA	FAZILKA	S-NPP	74.23028	30.29752	13:54:00	D	39.10
189	FAZILKA	FAZILKA	AQUA	73.99600	30.29900	13:40:00	D	11.70
190	FAZILKA	FAZILKA	S-NPP	74.27738	30.30227	13:54:00	D	2.90
191	FAZILKA	FAZILKA	AQUA	74.07600	30.30300	13:40:00	D	14.50
192	FAZILKA	FAZILKA	AQUA	74.22300	30.30700	13:40:00	D	20.60
193	FAZILKA	FAZILKA	AQUA	74.16600	30.30800	13:40:00	D	9.50
194	FAZILKA	FAZILKA	AQUA	74.23400	30.30900	13:40:00	D	16.30
195	FAZILKA	FAZILKA	S-NPP	74.17159	30.31063	13:54:00	D	7.20

196	FAZILKA	FAZILKA	AQUA	74.24500	30.31100	13:40:00	D	6.10
197	FAZILKA	FAZILKA	AQUA	74.14200	30.31300	13:40:00	D	12.00
198	FAZILKA	FAZILKA	AQUA	74.19900	30.31300	13:40:00	D	9.40
199	FAZILKA	FAZILKA	S-NPP	74.22796	30.31304	13:54:00	D	14.60
200	FAZILKA	FAZILKA	S-NPP	74.14267	30.31521	13:54:00	D	14.40
201	FAZILKA	FAZILKA	S-NPP	74.22738	30.31693	13:54:00	D	14.60
202	FAZILKA	FAZILKA	S-NPP	74.22681	30.32080	13:54:00	D	2.70
203	FAZILKA	FAZILKA	S-NPP	74.19828	30.32152	13:54:00	D	4.00
204	FAZILKA	FAZILKA	S-NPP	74.09674	30.32174	13:54:00	D	6.10
205	FAZILKA	FAZILKA	S-NPP	74.20386	30.32215	13:54:00	D	6.40
206	FAZILKA	FAZILKA	S-NPP	73.96857	30.32255	13:54:00	D	10.70
207	FAZILKA	FAZILKA	S-NPP	74.02364	30.32505	13:54:00	D	9.70
208	FAZILKA	FAZILKA	S-NPP	74.06806	30.32627	13:54:00	D	7.90
209	FAZILKA	FAZILKA	S-NPP	74.27736	30.32650	13:54:00	D	4.10
210	FAZILKA	FAZILKA	AQUA	74.28700	30.32700	13:40:00	D	18.00
211	FAZILKA	FAZILKA	S-NPP	74.28864	30.32776	13:54:00	D	7.10
212	FAZILKA	FAZILKA	S-NPP	74.27679	30.33039	13:54:00	D	4.10
213	FAZILKA	FAZILKA	S-NPP	74.09500	30.33330	13:54:00	D	9.70
214	FAZILKA	FAZILKA	S-NPP	74.10052	30.33393	13:54:00	D	5.30
215	FAZILKA	FAZILKA	S-NPP	74.27621	30.33428	13:54:00	D	5.80
216	FAZILKA	FAZILKA	S-NPP	74.29312	30.33619	13:54:00	D	10.40
217	FAZILKA	FAZILKA	S-NPP	74.08891	30.33651	13:54:00	D	12.80
218	FAZILKA	FAZILKA	S-NPP	74.09442	30.33715	13:54:00	D	12.80
219	FAZILKA	FAZILKA	S-NPP	74.29254	30.34008	13:54:00	D	10.40
220	FAZILKA	FAZILKA	S-NPP	74.13311	30.34161	13:54:00	D	3.20
221	FAZILKA	FAZILKA	S-NPP	74.30951	30.34200	13:54:00	D	6.50
222	FAZILKA	FAZILKA	AQUA	74.05500	30.34700	13:40:00	D	17.90
223	FAZILKA	FAZILKA	S-NPP	73.91461	30.35121	13:54:00	D	12.90
224	FAZILKA	FAZILKA	S-NPP	74.11478	30.35127	13:54:00	D	35.70
225	FAZILKA	FAZILKA	S-NPP	74.12031	30.35191	13:54:00	D	14.50
226	FAZILKA	FAZILKA	S-NPP	74.09763	30.35320	13:54:00	D	3.80
227	FAZILKA	FAZILKA	S-NPP	73.91790	30.35367	13:54:00	D	90.70
228	FAZILKA	FAZILKA	S-NPP	73.93624	30.35377	13:54:00	D	6.40

229	FAZILKA	FAZILKA	S-NPP	73.94165	30.35441	13:54:00	D	7.80
230	FAZILKA	FAZILKA	S-NPP	74.11420	30.35513	13:54:00	D	14.60
231	FAZILKA	FAZILKA	AQUA	74.29200	30.35600	13:40:00	D	23.60
232	FAZILKA	FAZILKA	AQUA	74.30300	30.35800	13:40:00	D	41.00
233	FAZILKA	FAZILKA	S-NPP	73.93898	30.35994	13:54:00	D	5.90
234	FAZILKA	FAZILKA	S-NPP	73.94050	30.36205	13:54:00	D	17.90
235	FAZILKA	FAZILKA	S-NPP	73.94592	30.36270	13:54:00	D	17.90
236	FAZILKA	FAZILKA	AQUA	74.15400	30.36300	13:40:00	D	7.90
237	FAZILKA	FAZILKA	S-NPP	73.98999	30.36404	13:54:00	D	5.40
238	FAZILKA	FAZILKA	S-NPP	73.94383	30.36437	13:54:00	D	22.10
239	FAZILKA	FAZILKA	S-NPP	73.99544	30.36468	13:54:00	D	22.10
240	FAZILKA	FAZILKA	AQUA	74.29000	30.36500	13:40:00	D	5.50
241	FAZILKA	FAZILKA	S-NPP	73.99342	30.36608	13:54:00	D	38.40
242	FAZILKA	FAZILKA	S-NPP	73.94534	30.36653	13:54:00	D	6.50
243	FAZILKA	FAZILKA	S-NPP	74.15183	30.36737	13:54:00	D	12.30
244	FAZILKA	FAZILKA	S-NPP	73.99487	30.36851	13:54:00	D	22.10
245	FAZILKA	FAZILKA	AQUA	74.07300	30.36900	13:40:00	D	21.90
246	FAZILKA	FAZILKA	S-NPP	74.07271	30.36988	13:54:00	D	2.80
247	FAZILKA	FAZILKA	S-NPP	74.07082	30.37085	13:54:00	D	5.60
248	FAZILKA	FAZILKA	S-NPP	74.07764	30.37438	13:54:00	D	7.40
249	FAZILKA	FAZILKA	AQUA	74.06500	30.37500	13:40:00	D	19.70
250	FAZILKA	FAZILKA	S-NPP	74.08127	30.37593	13:54:00	D	7.70
251	FAZILKA	FAZILKA	S-NPP	74.12793	30.37637	13:54:00	D	4.70
252	FAZILKA	FAZILKA	S-NPP	74.12612	30.37701	13:54:00	D	18.80
253	FAZILKA	FAZILKA	S-NPP	74.09911	30.38083	13:54:00	D	1.90
254	FAZILKA	FAZILKA	AQUA	74.19500	30.38800	13:40:00	D	13.10
255	FAZILKA	FAZILKA	S-NPP	74.15949	30.39187	13:54:00	D	6.40
256	FAZILKA	FAZILKA	S-NPP	74.15774	30.39232	13:54:00	D	5.60
257	FAZILKA	FAZILKA	S-NPP	74.19740	30.39280	13:54:00	D	3.00
258	FAZILKA	FAZILKA	S-NPP	74.13672	30.39312	13:54:00	D	7.60
259	FAZILKA	FAZILKA	S-NPP	74.07285	30.39457	13:54:00	D	14.60
260	FAZILKA	FAZILKA	AQUA	74.16300	30.40000	13:40:00	D	22.60
261	FAZILKA	FAZILKA	S-NPP	74.16216	30.40069	13:54:00	D	6.40

262	FAZILKA	FAZILKA	S-NPP	74.16773	30.40131	13:54:00	D	6.40
263	FAZILKA	FAZILKA	S-NPP	73.96577	30.40191	13:54:00	D	5.60
264	FAZILKA	FAZILKA	S-NPP	74.23151	30.40427	13:54:00	D	2.50
265	FAZILKA	FAZILKA	S-NPP	74.23549	30.40492	13:54:00	D	5.30
266	FAZILKA	FAZILKA	S-NPP	74.21247	30.40631	13:54:00	D	7.40
267	FAZILKA	FAZILKA	S-NPP	74.14429	30.40655	13:54:00	D	3.90
268	FAZILKA	FAZILKA	S-NPP	74.14986	30.40718	13:54:00	D	6.20
269	FAZILKA	FAZILKA	S-NPP	74.12148	30.40791	13:54:00	D	11.80
270	FAZILKA	FAZILKA	S-NPP	74.13258	30.40916	13:54:00	D	5.50
271	FAZILKA	FAZILKA	S-NPP	74.00343	30.41013	13:54:00	D	6.00
272	FAZILKA	FAZILKA	S-NPP	74.22311	30.41144	13:54:00	D	4.60
273	FAZILKA	FAZILKA	S-NPP	73.96404	30.41340	13:54:00	D	12.40
274	FAZILKA	FAZILKA	AQUA	74.06800	30.41400	13:40:00	D	7.00
275	FAZILKA	FAZILKA	S-NPP	74.22196	30.41921	13:54:00	D	8.50
276	FAZILKA	FAZILKA	S-NPP	74.19337	30.41994	13:54:00	D	4.60
277	FAZILKA	FAZILKA	AQUA	74.22700	30.42000	13:40:00	D	17.90
278	FAZILKA	FAZILKA	S-NPP	74.14197	30.42201	13:54:00	D	5.80
279	FAZILKA	FAZILKA	S-NPP	74.07982	30.42279	13:54:00	D	4.90
280	FAZILKA	FAZILKA	S-NPP	73.98470	30.42359	13:54:00	D	2.70
281	FAZILKA	FAZILKA	S-NPP	74.22701	30.42373	13:54:00	D	17.90
282	FAZILKA	FAZILKA	AQUA	74.08900	30.42600	13:40:00	D	24.40
283	FAZILKA	FAZILKA	AQUA	74.10000	30.42800	13:40:00	D	31.90
284	FAZILKA	FAZILKA	S-NPP	74.11246	30.43045	13:54:00	D	6.70
285	FAZILKA	FAZILKA	AQUA	73.99600	30.43100	13:40:00	D	51.40
286	FAZILKA	FAZILKA	S-NPP	74.08419	30.43113	13:54:00	D	6.80
287	FAZILKA	FAZILKA	S-NPP	73.99448	30.43252	13:54:00	D	22.20
288	FAZILKA	FAZILKA	AQUA	74.19000	30.43300	13:40:00	D	111.70
289	FAZILKA	FAZILKA	AQUA	74.08700	30.43500	13:40:00	D	28.60
290	FAZILKA	FAZILKA	AQUA	74.14400	30.43500	13:40:00	D	67.60
291	FAZILKA	FAZILKA	AQUA	74.15500	30.43700	13:40:00	D	13.60
292	FAZILKA	FAZILKA	S-NPP	74.14465	30.44199	13:54:00	D	19.80
293	FAZILKA	FAZILKA	AQUA	74.00500	30.44200	13:40:00	D	11.00
294	FAZILKA	FAZILKA	AQUA	74.01600	30.44300	13:40:00	D	17.50

295	FAZILKA	FAZILKA	AQUA	74.07300	30.44300	13:40:00	D	14.30
296	FAZILKA	FAZILKA	S-NPP	74.08798	30.44334	13:54:00	D	13.50
297	FAZILKA	FAZILKA	AQUA	74.02700	30.44500	13:40:00	D	26.90
298	FAZILKA	FAZILKA	AQUA	74.26700	30.44500	13:40:00	D	13.00
299	FAZILKA	FAZILKA	S-NPP	74.07635	30.44592	13:54:00	D	27.50
300	FAZILKA	FAZILKA	S-NPP	74.01465	30.44659	13:54:00	D	6.30
301	FAZILKA	FAZILKA	S-NPP	74.12679	30.44781	13:54:00	D	11.10
302	FAZILKA	FAZILKA	S-NPP	74.02563	30.44787	13:54:00	D	36.00
303	FAZILKA	FAZILKA	S-NPP	73.95824	30.45170	13:54:00	D	2.70
304	FAZILKA	FAZILKA	S-NPP	74.03605	30.45299	13:54:00	D	6.70
305	FAZILKA	FAZILKA	S-NPP	73.96858	30.45681	13:54:00	D	6.10
306	FAZILKA	FAZILKA	AQUA	74.17300	30.45900	13:40:00	D	13.40
307	FAZILKA	FAZILKA	S-NPP	73.94019	30.46126	13:54:00	D	4.20
308	FAZILKA	FAZILKA	AQUA	74.13800	30.46300	13:40:00	D	14.00
309	FAZILKA	FAZILKA	S-NPP	74.05691	30.46325	13:54:00	D	6.80
310	FAZILKA	FAZILKA	S-NPP	73.94293	30.46370	13:54:00	D	4.40
311	FAZILKA	FAZILKA	AQUA	74.14900	30.46400	13:40:00	D	44.90
312	FAZILKA	FAZILKA	S-NPP	74.05081	30.46646	13:54:00	D	6.80
313	FAZILKA	FAZILKA	AQUA	74.01600	30.46900	13:40:00	D	13.90
314	FAZILKA	FAZILKA	S-NPP	74.01667	30.47028	13:54:00	D	3.40
315	FAZILKA	FAZILKA	AQUA	74.13600	30.47200	13:40:00	D	13.60
316	FAZILKA	FAZILKA	S-NPP	74.01609	30.47412	13:54:00	D	10.10
317	FAZILKA	FAZILKA	S-NPP	74.07477	30.47845	13:54:00	D	2.90
318	FAZILKA	FAZILKA	S-NPP	74.05460	30.47866	13:54:00	D	21.20
319	FAZILKA	FAZILKA	S-NPP	74.07668	30.48126	13:54:00	D	3.00
320	FAZILKA	FAZILKA	AQUA	74.05900	30.48500	13:40:00	D	6.20
321	FAZILKA	FAZILKA	S-NPP	74.17795	30.48522	13:54:00	D	1.50
322	FAZILKA	FAZILKA	AQUA	74.07000	30.48700	13:40:00	D	35.80
323	FAZILKA	FAZILKA	AQUA	74.17100	30.49300	13:40:00	D	30.90
324	FAZILKA	FAZILKA	S-NPP	74.02652	30.50045	13:54:00	D	5.70
325	FAZILKA	FAZILKA	AQUA	73.98600	30.50200	13:40:00	D	23.70
326	FAZILKA	FAZILKA	S-NPP	73.99237	30.50439	13:54:00	D	3.20
327	FAZILKA	FAZILKA	AQUA	74.07700	30.50700	13:40:00	D	111.70

328	FAZILKA	FAZILKA	S-NPP	73.99179	30.50823	13:54:00	D	20.60
329	FAZILKA	FAZILKA	S-NPP	74.13242	30.50845	13:54:00	D	2.90
330	FAZILKA	FAZILKA	S-NPP	74.05848	30.51190	13:54:00	D	13.50
331	FAZILKA	FAZILKA	AQUA	74.07500	30.51600	13:40:00	D	6.00
332	FAZILKA	FAZILKA	AQUA	74.08600	30.51800	13:40:00	D	13.30
333	FAZILKA	FAZILKA	S-NPP	74.05120	30.52283	13:54:00	D	4.20
334	FAZILKA	JALALABAD	S-NPP	74.29694	30.45536	13:54:00	D	17.40
335	FAZILKA	JALALABAD	S-NPP	74.30145	30.46380	13:54:00	D	6.60
336	FAZILKA	JALALABAD	S-NPP	74.30597	30.47226	13:54:00	D	12.60
337	FAZILKA	JALALABAD	S-NPP	74.24260	30.47294	13:54:00	D	4.50
338	FAZILKA	JALALABAD	S-NPP	74.21951	30.47424	13:54:00	D	8.40
339	FAZILKA	JALALABAD	S-NPP	74.29973	30.47552	13:54:00	D	15.40
340	FAZILKA	JALALABAD	S-NPP	74.27649	30.47682	13:54:00	D	15.90
341	FAZILKA	JALALABAD	S-NPP	74.29915	30.47942	13:54:00	D	15.40
342	FAZILKA	JALALABAD	S-NPP	74.36240	30.48265	13:54:00	D	7.90
343	FAZILKA	JALALABAD	S-NPP	74.29858	30.48332	13:54:00	D	7.20
344	FAZILKA	JALALABAD	AQUA	74.22400	30.48600	13:40:00	D	12.10
345	FAZILKA	JALALABAD	AQUA	74.23500	30.48700	13:40:00	D	22.30
346	FAZILKA	JALALABAD	S-NPP	74.26346	30.48722	13:54:00	D	4.30
347	FAZILKA	JALALABAD	S-NPP	74.27477	30.48852	13:54:00	D	4.00
348	FAZILKA	JALALABAD	S-NPP	74.34809	30.50092	13:54:00	D	5.30
349	FAZILKA	JALALABAD	S-NPP	74.33041	30.50287	13:54:00	D	3.90
350	FAZILKA	JALALABAD	AQUA	74.34400	30.50400	13:40:00	D	23.50
351	FAZILKA	JALALABAD	S-NPP	74.34752	30.50484	13:54:00	D	7.40
352	FAZILKA	JALALABAD	S-NPP	74.15533	30.50708	13:54:00	D	7.00
353	FAZILKA	JALALABAD	S-NPP	74.34695	30.50875	13:54:00	D	7.40
354	FAZILKA	JALALABAD	S-NPP	74.35060	30.50884	13:54:00	D	7.30
355	FAZILKA	JALALABAD	S-NPP	74.21995	30.50987	13:54:00	D	45.20
356	FAZILKA	JALALABAD	S-NPP	74.21766	30.51008	13:54:00	D	48.90
357	FAZILKA	JALALABAD	S-NPP	74.15475	30.51096	13:54:00	D	33.30
358	FAZILKA	JALALABAD	S-NPP	74.19457	30.51146	13:54:00	D	8.40
359	FAZILKA	JALALABAD	S-NPP	74.16035	30.51158	13:54:00	D	13.80
360	FAZILKA	JALALABAD	S-NPP	74.20020	30.51209	13:54:00	D	8.40

361	FAZILKA	JALALABAD	S-NPP	74.16595	30.51221	13:54:00	D	13.80
362	FAZILKA	JALALABAD	S-NPP	74.28046	30.51307	13:54:00	D	10.70
363	FAZILKA	JALALABAD	S-NPP	74.28265	30.51323	13:54:00	D	25.00
364	FAZILKA	JALALABAD	S-NPP	74.28614	30.51369	13:54:00	D	8.40
365	FAZILKA	JALALABAD	S-NPP	74.19962	30.51597	13:54:00	D	5.50
366	FAZILKA	JALALABAD	S-NPP	74.33324	30.52308	13:54:00	D	5.70
367	FAZILKA	JALALABAD	S-NPP	74.33685	30.52325	13:54:00	D	5.30
368	FAZILKA	JALALABAD	S-NPP	74.23285	30.52363	13:54:00	D	38.50
369	FAZILKA	JALALABAD	S-NPP	74.16982	30.52447	13:54:00	D	6.30
370	FAZILKA	JALALABAD	S-NPP	74.35344	30.52905	13:54:00	D	7.20
371	FAZILKA	JALALABAD	S-NPP	74.37639	30.53158	13:54:00	D	9.10
372	FAZILKA	JALALABAD	AQUA	74.18500	30.53300	13:40:00	D	12.10
373	FAZILKA	JALALABAD	S-NPP	74.31799	30.53309	13:54:00	D	7.90
374	FAZILKA	JALALABAD	S-NPP	74.32370	30.53373	13:54:00	D	7.90
375	FAZILKA	JALALABAD	S-NPP	74.37006	30.53487	13:54:00	D	12.30
376	FAZILKA	JALALABAD	S-NPP	74.37582	30.53550	13:54:00	D	7.90
377	FAZILKA	JALALABAD	AQUA	74.38700	30.53700	13:40:00	D	7.60
378	FAZILKA	JALALABAD	AQUA	74.33100	30.53800	13:40:00	D	17.40
379	FAZILKA	JALALABAD	S-NPP	74.32883	30.53827	13:54:00	D	7.20
380	FAZILKA	JALALABAD	S-NPP	74.33968	30.54346	13:54:00	D	41.00
381	FAZILKA	JALALABAD	S-NPP	74.31055	30.54419	13:54:00	D	10.10
382	FAZILKA	JALALABAD	S-NPP	74.16634	30.54774	13:54:00	D	33.70
383	FAZILKA	JALALABAD	S-NPP	74.37983	30.54791	13:54:00	D	12.50
384	FAZILKA	JALALABAD	S-NPP	74.10874	30.55297	13:54:00	D	7.40
385	FAZILKA	JALALABAD	S-NPP	74.21693	30.55348	13:54:00	D	3.20
386	FAZILKA	JALALABAD	S-NPP	74.14838	30.55357	13:54:00	D	17.10
387	FAZILKA	JALALABAD	S-NPP	74.36145	30.55384	13:54:00	D	6.10
388	FAZILKA	JALALABAD	S-NPP	74.07980	30.55750	13:54:00	D	13.70
389	FAZILKA	JALALABAD	S-NPP	74.25651	30.55796	13:54:00	D	5.20
390	FAZILKA	JALALABAD	S-NPP	74.36603	30.56232	13:54:00	D	8.00
391	FAZILKA	JALALABAD	S-NPP	74.26160	30.56250	13:54:00	D	5.60
392	FAZILKA	JALALABAD	S-NPP	74.10144	30.56392	13:54:00	D	7.20
393	FAZILKA	JALALABAD	S-NPP	74.32478	30.56566	13:54:00	D	6.40

394	FAZILKA	JALALABAD	AQUA	74.10300	30.56600	13:40:00	D	8.00
395	FAZILKA	JALALABAD	S-NPP	74.26102	30.56640	13:54:00	D	5.60
396	FAZILKA	JALALABAD	S-NPP	74.30138	30.56700	13:54:00	D	35.40
397	FAZILKA	JALALABAD	S-NPP	74.20335	30.56775	13:54:00	D	5.50
398	FAZILKA	JALALABAD	AQUA	74.11400	30.56800	13:40:00	D	15.90
399	FAZILKA	JALALABAD	S-NPP	74.10642	30.56843	13:54:00	D	4.30
400	FAZILKA	JALALABAD	S-NPP	74.35915	30.56952	13:54:00	D	10.70
401	FAZILKA	JALALABAD	S-NPP	74.28316	30.57288	13:54:00	D	28.70
402	FAZILKA	JALALABAD	S-NPP	74.15668	30.57424	13:54:00	D	11.70
403	FAZILKA	JALALABAD	AQUA	74.33400	30.57600	13:40:00	D	22.10
404	FAZILKA	JALALABAD	S-NPP	74.11584	30.58133	13:54:00	D	6.90
405	FAZILKA	JALALABAD	S-NPP	74.25304	30.58135	13:54:00	D	14.80
406	FAZILKA	JALALABAD	S-NPP	74.12141	30.58197	13:54:00	D	6.90
407	FAZILKA	JALALABAD	S-NPP	74.30991	30.58784	13:54:00	D	4.30
408	FAZILKA	JALALABAD	AQUA	74.36500	30.59000	13:40:00	D	25.00
409	FAZILKA	JALALABAD	AQUA	74.37600	30.59200	13:40:00	D	26.30
410	FAZILKA	JALALABAD	AQUA	74.34100	30.59600	13:40:00	D	21.70
411	FAZILKA	JALALABAD	S-NPP	74.10795	30.59615	13:54:00	D	9.40
412	FAZILKA	JALALABAD	S-NPP	74.31446	30.59631	13:54:00	D	7.60
413	FAZILKA	JALALABAD	S-NPP	74.14762	30.59685	13:54:00	D	11.80
414	FAZILKA	JALALABAD	S-NPP	74.15058	30.59745	13:54:00	D	15.30
415	FAZILKA	JALALABAD	S-NPP	74.32589	30.59761	13:54:00	D	7.20
416	FAZILKA	JALALABAD	S-NPP	74.29678	30.59826	13:54:00	D	8.00
417	FAZILKA	JALALABAD	S-NPP	74.17306	30.59993	13:54:00	D	8.50
418	FAZILKA	JALALABAD	S-NPP	74.17566	30.60011	13:54:00	D	9.40
419	FAZILKA	JALALABAD	S-NPP	74.34879	30.60023	13:54:00	D	8.10
420	FAZILKA	JALALABAD	S-NPP	74.14704	30.60072	13:54:00	D	11.80
421	FAZILKA	JALALABAD	S-NPP	74.32532	30.60153	13:54:00	D	32.10
422	FAZILKA	JALALABAD	S-NPP	74.34248	30.60350	13:54:00	D	111.70
423	FAZILKA	JALALABAD	AQUA	74.34400	30.60400	13:40:00	D	18.10
424	FAZILKA	JALALABAD	S-NPP	74.20629	30.60755	13:54:00	D	3.40
425	FAZILKA	JALALABAD	AQUA	74.31000	30.60800	13:40:00	D	10.60
426	FAZILKA	JALALABAD	S-NPP	74.38271	30.60809	13:54:00	D	5.50

427	FAZILKA	JALALABAD	S-NPP	74.10291	30.61183	13:54:00	D	20.60
428	FAZILKA	JALALABAD	S-NPP	74.15386	30.61358	13:54:00	D	58.20
429	FAZILKA	JALALABAD	S-NPP	74.41098	30.61531	13:54:00	D	6.50
430	FAZILKA	JALALABAD	S-NPP	74.32635	30.61676	13:54:00	D	16.50
431	FAZILKA	JALALABAD	S-NPP	74.22463	30.61769	13:54:00	D	13.40
432	FAZILKA	JALALABAD	S-NPP	74.22775	30.61783	13:54:00	D	11.90
433	FAZILKA	JALALABAD	S-NPP	74.32874	30.61785	13:54:00	D	25.10
434	FAZILKA	JALALABAD	AQUA	74.27300	30.62100	13:40:00	D	13.80
435	FAZILKA	JALALABAD	AQUA	74.38400	30.62900	13:40:00	D	15.70
436	FAZILKA	JALALABAD	S-NPP	74.33610	30.62976	13:54:00	D	4.10
437	FAZILKA	JALALABAD	S-NPP	74.40289	30.63038	13:54:00	D	3.40
438	FAZILKA	JALALABAD	S-NPP	74.38273	30.63088	13:54:00	D	17.70
439	FAZILKA	JALALABAD	S-NPP	74.16840	30.63099	13:54:00	D	9.30
440	FAZILKA	JALALABAD	S-NPP	74.37925	30.63165	13:54:00	D	14.90
441	FAZILKA	JALALABAD	S-NPP	74.38502	30.63232	13:54:00	D	25.40
442	FAZILKA	JALALABAD	S-NPP	74.40006	30.63277	13:54:00	D	10.70
443	FAZILKA	JALALABAD	S-NPP	74.38215	30.63481	13:54:00	D	47.00
444	FAZILKA	JALALABAD	AQUA	74.23600	30.63500	13:40:00	D	16.30
445	FAZILKA	JALALABAD	AQUA	74.42700	30.63600	13:40:00	D	13.80
446	FAZILKA	JALALABAD	S-NPP	74.21353	30.63604	13:54:00	D	15.40
447	FAZILKA	JALALABAD	S-NPP	74.38445	30.63624	13:54:00	D	25.40
448	FAZILKA	JALALABAD	S-NPP	74.17287	30.63939	13:54:00	D	10.50
449	FAZILKA	JALALABAD	AQUA	74.34700	30.64200	13:40:00	D	33.40
450	FAZILKA	JALALABAD	AQUA	74.40400	30.64200	13:40:00	D	21.40
451	FAZILKA	JALALABAD	S-NPP	74.27599	30.64301	13:54:00	D	10.80
452	FAZILKA	JALALABAD	S-NPP	74.25263	30.64437	13:54:00	D	4.20
453	FAZILKA	JALALABAD	S-NPP	74.39833	30.64457	13:54:00	D	17.80
454	FAZILKA	JALALABAD	S-NPP	74.36887	30.64532	13:54:00	D	21.80
455	FAZILKA	JALALABAD	S-NPP	74.37406	30.64989	13:54:00	D	30.50
456	FAZILKA	JALALABAD	S-NPP	74.27483	30.65082	13:54:00	D	13.10
457	FAZILKA	JALALABAD	S-NPP	74.35043	30.65127	13:54:00	D	4.50
458	FAZILKA	JALALABAD	S-NPP	74.23954	30.65480	13:54:00	D	2.40
459	FAZILKA	JALALABAD	S-NPP	74.27367	30.65863	13:54:00	D	3.80

460	FAZILKA	JALALABAD	AQUA	74.27600	30.66000	13:40:00	D	11.10
461	FAZILKA	JALALABAD	AQUA	74.28700	30.66100	13:40:00	D	9.60
462	FAZILKA	JALALABAD	S-NPP	74.22704	30.66132	13:54:00	D	4.60
463	FAZILKA	JALALABAD	S-NPP	74.22646	30.66521	13:54:00	D	7.50
464	FAZILKA	JALALABAD	AQUA	74.38700	30.66700	13:40:00	D	10.20
465	FAZILKA	JALALABAD	S-NPP	74.28963	30.66837	13:54:00	D	7.40
466	FAZILKA	JALALABAD	AQUA	74.35000	30.68100	13:40:00	D	16.50
467	FAZILKA	JALALABAD	AQUA	74.25500	30.68200	13:40:00	D	9.10
468	FAZILKA	JALALABAD	AQUA	74.36100	30.68200	13:40:00	D	18.00
469	FAZILKA	JALALABAD	AQUA	74.37000	30.69300	13:40:00	D	63.10
470	FAZILKA	JALALABAD	AQUA	74.38100	30.69500	13:40:00	D	18.20
471	FAZILKA	JALALABAD	AQUA	74.36300	30.69900	13:40:00	D	8.50
472	FAZILKA	JALALABAD	S-NPP	74.25023	30.69964	13:54:00	D	3.90
473	FAZILKA	JALALABAD	AQUA	74.37400	30.70100	13:40:00	D	6.60
474	FAZILKA	JALALABAD	S-NPP	74.37753	30.70619	13:54:00	D	14.80
475	FAZILKA	JALALABAD	AQUA	74.29200	30.71600	13:40:00	D	10.90
476	FAZILKA	JALALABAD	S-NPP	74.29725	30.72065	13:54:00	D	1.50
477	FAZILKA	JALALABAD	AQUA	74.32500	30.72100	13:40:00	D	10.70
478	FAZILKA	JALALABAD	S-NPP	74.38099	30.72257	13:54:00	D	7.00
479	FAZILKA	JALALABAD	AQUA	74.33600	30.72300	13:40:00	D	5.00
480	FAZILKA	JALALABAD	AQUA	74.29000	30.72500	13:40:00	D	18.30
481	FAZILKA	JALALABAD	S-NPP	74.37851	30.72549	13:54:00	D	12.30
482	FAZILKA	JALALABAD	S-NPP	74.38042	30.72650	13:54:00	D	7.00
483	FAZILKA	JALALABAD	S-NPP	74.29036	30.72786	13:54:00	D	11.00
484	FAZILKA	JALALABAD	AQUA	74.42400	30.72800	13:40:00	D	6.80
485	FAZILKA	JALALABAD	S-NPP	74.37792	30.72942	13:54:00	D	12.30
486	FAZILKA	JALALABAD	S-NPP	74.37984	30.73044	13:54:00	D	10.50
487	FAZILKA	JALALABAD	S-NPP	74.45068	30.73051	13:54:00	D	8.00
488	FAZILKA	JALALABAD	S-NPP	74.28978	30.73177	13:54:00	D	8.00
489	FAZILKA	JALALABAD	AQUA	74.37700	30.73900	13:40:00	D	14.30
490	FAZILKA	JALALABAD	S-NPP	74.37619	30.74122	13:54:00	D	3.20
491	FAZILKA	JALALABAD	AQUA	74.45100	30.76000	13:40:00	D	11.80
492	FAZILKA	JALALABAD	S-NPP	74.45539	30.76589	13:54:00	D	4.80

493	FIROZPUR	FIROZPUR	AQUA	74.46900	30.78100	13:40:00	D	5.40
494	FIROZPUR	FIROZPUR	S-NPP	74.43496	30.78371	13:54:00	D	20.20
495	FIROZPUR	FIROZPUR	S-NPP	74.43439	30.78765	13:54:00	D	15.30
496	FIROZPUR	FIROZPUR	S-NPP	74.45193	30.78959	13:54:00	D	6.70
497	FIROZPUR	FIROZPUR	S-NPP	74.45135	30.79355	13:54:00	D	6.70
498	FIROZPUR	FIROZPUR	AQUA	74.87200	30.79700	13:40:00	D	7.20
499	FIROZPUR	FIROZPUR	AQUA	74.42400	30.80200	13:40:00	D	19.10
500	FIROZPUR	FIROZPUR	AQUA	74.78400	30.80200	13:40:00	D	9.00
501	FIROZPUR	FIROZPUR	AQUA	74.41900	30.82900	13:40:00	D	13.40
502	FIROZPUR	FIROZPUR	AQUA	74.42900	30.83100	13:40:00	D	69.50
503	FIROZPUR	FIROZPUR	S-NPP	74.58960	30.83308	13:54:00	D	19.20
504	FIROZPUR	FIROZPUR	S-NPP	74.42747	30.83503	13:54:00	D	9.30
505	FIROZPUR	FIROZPUR	S-NPP	74.42689	30.83898	13:54:00	D	9.30
506	FIROZPUR	FIROZPUR	S-NPP	74.67889	30.84704	13:54:00	D	6.00
507	FIROZPUR	FIROZPUR	S-NPP	74.41235	30.84779	13:54:00	D	3.30
508	FIROZPUR	FIROZPUR	S-NPP	74.89220	30.86636	13:54:00	D	1.80
509	FIROZPUR	FIROZPUR	S-NPP	74.63033	30.87929	13:54:00	D	2.10
510	FIROZPUR	FIROZPUR	AQUA	74.62900	30.88000	13:40:00	D	14.40
511	FIROZPUR	FIROZPUR	S-NPP	74.61175	30.88136	13:54:00	D	2.60
512	FIROZPUR	FIROZPUR	S-NPP	74.69506	30.89027	13:54:00	D	67.10
513	FIROZPUR	FIROZPUR	S-NPP	74.69909	30.89070	13:54:00	D	53.60
514	FIROZPUR	FIROZPUR	AQUA	74.51800	30.90800	13:40:00	D	6.60
515	FIROZPUR	FIROZPUR	S-NPP	74.52311	30.90814	13:54:00	D	4.00
516	FIROZPUR	FIROZPUR	AQUA	74.75300	30.91800	13:40:00	D	6.00
517	FIROZPUR	FIROZPUR	S-NPP	74.75587	30.92535	13:54:00	D	5.10
518	FIROZPUR	FIROZPUR	AQUA	74.69600	30.92800	13:40:00	D	4.40
519	FIROZPUR	FIROZPUR	S-NPP	74.75471	30.93340	13:54:00	D	2.60
520	FIROZPUR	FIROZPUR	S-NPP	74.75414	30.93743	13:54:00	D	2.80
521	FIROZPUR	FIROZPUR	S-NPP	74.77824	31.09224	13:54:00	D	6.80
522	FIROZPUR	FIROZPUR	S-NPP	74.77766	31.09628	13:54:00	D	4.70
523	FIROZPUR	FIROZPUR	S-NPP	74.77771	31.09632	13:54:00	D	5.30
524	FIROZPUR	ZIRA	S-NPP	74.95969	30.86542	13:54:00	D	3.00
525	FIROZPUR	ZIRA	S-NPP	75.38033	30.86778	13:54:00	D	3.30

526	FIROZPUR	ZIRA	AQUA	75.12600	30.88100	13:40:00	D	36.40
527	FIROZPUR	ZIRA	AQUA	75.13600	30.88300	13:40:00	D	7.70
528	FIROZPUR	ZIRA	S-NPP	75.12378	30.88301	13:54:00	D	8.70
529	FIROZPUR	ZIRA	AQUA	75.03000	30.89500	13:40:00	D	8.90
530	FIROZPUR	ZIRA	AQUA	75.04000	30.89700	13:40:00	D	14.60
531	FIROZPUR	ZIRA	AQUA	75.18700	30.90000	13:40:00	D	13.90
532	FIROZPUR	ZIRA	S-NPP	74.93744	30.91173	13:54:00	D	4.60
533	FIROZPUR	ZIRA	S-NPP	75.28986	30.91324	13:54:00	D	20.40
534	FIROZPUR	ZIRA	AQUA	75.28000	30.91400	13:40:00	D	6.30
535	FIROZPUR	ZIRA	S-NPP	75.27515	30.92431	13:54:00	D	3.50
536	FIROZPUR	ZIRA	S-NPP	75.24857	30.92568	13:54:00	D	11.30
537	FIROZPUR	ZIRA	AQUA	74.85900	30.93400	13:40:00	D	24.40
538	FIROZPUR	ZIRA	S-NPP	75.22162	30.94107	13:54:00	D	2.90
539	FIROZPUR	ZIRA	AQUA	75.15700	30.96000	13:40:00	D	5.20
540	FIROZPUR	ZIRA	S-NPP	75.21387	30.96545	13:54:00	D	23.00
541	FIROZPUR	ZIRA	AQUA	75.21800	30.97900	13:40:00	D	9.70
542	FIROZPUR	ZIRA	AQUA	74.86400	30.98900	13:40:00	D	7.90
543	FIROZPUR	ZIRA	AQUA	74.87400	30.99100	13:40:00	D	22.80
544	FIROZPUR	ZIRA	S-NPP	74.86678	30.99487	13:54:00	D	2.70
545	FIROZPUR	ZIRA	AQUA	75.08800	31.06000	13:40:00	D	10.70
546	FIROZPUR	ZIRA	AQUA	75.01300	31.07700	13:40:00	D	8.40
547	FIROZPUR	ZIRA	S-NPP	74.98958	31.09051	13:54:00	D	14.70
548	FIROZPUR	ZIRA	S-NPP	75.05103	31.14538	13:54:00	D	3.70
549	HOSHIARPUR	DASUYA	S-NPP	75.58417	31.67325	13:54:00	D	2.40
550	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.10229	31.28278	13:54:00	D	2.10
551	KAPURTHALA	SULTANPUR LODHI	AQUA	75.26500	31.28900	13:40:00	D	7.70
552	LUDHIANA	JAGRAON	S-NPP	75.38351	30.83747	13:54:00	D	2.60
553	LUDHIANA	LUDHIANA EAST	AQUA	75.83600	30.72800	13:40:00	D	10.10
554	LUDHIANA	LUDHIANA EAST	S-NPP	75.76351	30.74973	13:54:00	D	3.20
555	LUDHIANA	LUDHIANA EAST	S-NPP	75.81020	30.75020	13:54:00	D	12.20
556	LUDHIANA	RAIKOT	S-NPP	75.61117	30.60578	13:54:00	D	4.40
557	LUDHIANA	RAIKOT	S-NPP	75.67705	30.62544	13:54:00	D	7.00
558	LUDHIANA	RAIKOT	S-NPP	75.65616	30.64472	13:54:00	D	3.90

559	LUDHIANA	RAIKOT	AQUA	75.48900	30.65900	13:40:00	D	21.40
560	LUDHIANA	RAIKOT	S-NPP	75.49118	30.66611	13:54:00	D	4.90
561	LUDHIANA	RAIKOT	S-NPP	75.81638	30.70319	13:54:00	D	5.10
562	MANSA	BUDHLADA	S-NPP	75.43194	29.78372	13:54:00	D	3.70
563	MANSA	BUDHLADA	S-NPP	75.43220	29.78592	13:54:00	D	5.20
564	MANSA	BUDHLADA	AQUA	75.49700	29.83000	13:40:00	D	6.40
565	MANSA	BUDHLADA	S-NPP	75.51295	29.86164	13:54:00	D	2.60
566	MANSA	BUDHLADA	S-NPP	75.52901	29.90652	13:54:00	D	7.40
567	MANSA	BUDHLADA	S-NPP	75.53334	29.90697	13:54:00	D	9.60
568	MANSA	BUDHLADA	S-NPP	75.49633	29.95369	13:54:00	D	5.30
569	MANSA	MANSA	S-NPP	75.38230	29.89970	13:54:00	D	3.70
570	MANSA	MANSA	S-NPP	75.22396	29.96598	13:54:00	D	2.20
571	MANSA	MANSA	AQUA	75.54700	30.06800	13:40:00	D	4.80
572	MANSA	MANSA	AQUA	75.61100	30.06900	13:40:00	D	5.10
573	MANSA	MANSA	AQUA	75.62100	30.07000	13:40:00	D	8.50
574	MANSA	MANSA	AQUA	75.55100	30.10600	13:40:00	D	5.40
575	MANSA	SARDULGARH	S-NPP	75.25098	29.55776	13:54:00	D	5.30
576	MANSA	SARDULGARH	AQUA	75.28400	29.56700	13:40:00	D	22.70
577	MANSA	SARDULGARH	AQUA	75.29500	29.56900	13:40:00	D	36.20
578	MANSA	SARDULGARH	S-NPP	75.29114	29.57031	13:54:00	D	8.10
579	MANSA	SARDULGARH	S-NPP	75.29057	29.57439	13:54:00	D	8.40
580	MANSA	SARDULGARH	S-NPP	75.30960	29.58887	13:54:00	D	2.10
581	MANSA	SARDULGARH	S-NPP	75.24570	29.65539	13:54:00	D	1.90
582	MANSA	SARDULGARH	S-NPP	75.24562	29.65646	13:54:00	D	6.80
583	MANSA	SARDULGARH	S-NPP	75.24512	29.65946	13:54:00	D	6.50
584	MANSA	SARDULGARH	S-NPP	75.29505	29.69378	13:54:00	D	25.70
585	MANSA	SARDULGARH	S-NPP	75.38067	29.71960	13:54:00	D	2.90
586	MANSA	SARDULGARH	S-NPP	75.38489	29.72005	13:54:00	D	6.60
587	MANSA	SARDULGARH	S-NPP	75.40314	29.74291	13:54:00	D	4.00
588	MANSA	SARDULGARH	S-NPP	75.40258	29.74703	13:54:00	D	4.00
589	MANSA	SARDULGARH	AQUA	75.39400	29.75900	13:40:00	D	18.40
590	MANSA	SARDULGARH	AQUA	75.40400	29.76100	13:40:00	D	18.70
591	MANSA	SARDULGARH	AQUA	75.33500	29.78700	13:40:00	D	13.10

592	MANSA	SARDULGARH	S-NPP	75.25719	29.81740	13:54:00	D	2.50
593	MANSA	SARDULGARH	AQUA	75.28400	29.90000	13:40:00	D	5.50
594	MOGA	BAGHA PURANA	AQUA	74.98400	30.55600	13:40:00	D	6.30
595	MOGA	BAGHA PURANA	AQUA	74.95300	30.69900	13:40:00	D	11.90
596	MOGA	BAGHA PURANA	S-NPP	75.09072	30.71439	13:54:00	D	17.40
597	MOGA	BAGHA PURANA	AQUA	74.92600	30.72300	13:40:00	D	5.20
598	MOGA	BAGHA PURANA	S-NPP	75.10052	30.73619	13:54:00	D	2.90
599	MOGA	MOGA	S-NPP	75.15188	30.79999	13:54:00	D	5.50
600	MOGA	MOGA	AQUA	75.12800	30.81700	13:40:00	D	13.50
601	MOGA	MOGA	S-NPP	75.05077	30.82123	13:54:00	D	4.20
602	MOGA	MOGA	S-NPP	74.97372	30.82559	13:54:00	D	2.00
603	MOGA	MOGA	S-NPP	75.04376	30.84125	13:54:00	D	4.00
604	MOGA	MOGA	S-NPP	74.97561	30.84232	13:54:00	D	2.20
605	MOGA	MOGA	AQUA	75.12300	30.84400	13:40:00	D	5.00
606	MOGA	MOGA	S-NPP	74.99477	30.85678	13:54:00	D	4.10
607	MOGA	MOGA	S-NPP	74.99895	30.85722	13:54:00	D	4.10
608	MOGA	NIHAL SINGH WALA	AQUA	75.24200	30.55800	13:40:00	D	18.70
609	MOGA	NIHAL SINGH WALA	AQUA	75.35300	30.59300	13:40:00	D	6.70
610	MOGA	NIHAL SINGH WALA	S-NPP	75.23643	30.65663	13:54:00	D	11.00
611	MOGA	NIHAL SINGH WALA	S-NPP	75.24072	30.65708	13:54:00	D	11.00
612	MUKTSAR	GIDDARBAHA	AQUA	74.60000	30.14600	13:40:00	D	6.50
613	MUKTSAR	GIDDARBAHA	AQUA	74.61600	30.17700	13:40:00	D	13.20
614	MUKTSAR	GIDDARBAHA	AQUA	74.57700	30.17800	13:40:00	D	9.50
615	MUKTSAR	GIDDARBAHA	AQUA	74.62700	30.17900	13:40:00	D	8.50
616	MUKTSAR	GIDDARBAHA	S-NPP	74.58739	30.18722	13:54:00	D	1.70
617	MUKTSAR	GIDDARBAHA	AQUA	74.63900	30.19700	13:40:00	D	8.60
618	MUKTSAR	GIDDARBAHA	S-NPP	74.64460	30.20172	13:54:00	D	3.30
619	MUKTSAR	GIDDARBAHA	S-NPP	74.63232	30.20436	13:54:00	D	4.60
620	MUKTSAR	GIDDARBAHA	S-NPP	74.60839	30.20567	13:54:00	D	26.50
621	MUKTSAR	GIDDARBAHA	S-NPP	74.62743	30.22198	13:54:00	D	3.10
622	MUKTSAR	GIDDARBAHA	S-NPP	74.65346	30.22288	13:54:00	D	4.20
623	MUKTSAR	GIDDARBAHA	S-NPP	74.65675	30.22514	13:54:00	D	12.20
624	MUKTSAR	GIDDARBAHA	S-NPP	74.67696	30.22555	13:54:00	D	4.70

625	MUKTSAR	GIDDARBAHA	S-NPP	74.65289	30.22685	13:54:00	D	5.90
626	MUKTSAR	GIDDARBAHA	S-NPP	74.67442	30.22704	13:54:00	D	5.80
627	MUKTSAR	GIDDARBAHA	S-NPP	74.65875	30.22752	13:54:00	D	5.90
628	MUKTSAR	GIDDARBAHA	S-NPP	74.61080	30.23009	13:54:00	D	13.50
629	MUKTSAR	GIDDARBAHA	AQUA	74.55500	30.23100	13:40:00	D	9.70
630	MUKTSAR	GIDDARBAHA	S-NPP	74.60815	30.23196	13:54:00	D	14.30
631	MUKTSAR	GIDDARBAHA	S-NPP	74.54817	30.23744	13:54:00	D	17.20
632	MUKTSAR	GIDDARBAHA	AQUA	74.60800	30.23900	13:40:00	D	16.70
633	MUKTSAR	GIDDARBAHA	AQUA	74.61900	30.24100	13:40:00	D	6.80
634	MUKTSAR	GIDDARBAHA	AQUA	74.63000	30.24300	13:40:00	D	16.80
635	MUKTSAR	GIDDARBAHA	S-NPP	74.60641	30.24384	13:54:00	D	4.40
636	MUKTSAR	GIDDARBAHA	S-NPP	74.61226	30.24447	13:54:00	D	4.40
637	MUKTSAR	GIDDARBAHA	S-NPP	74.60000	30.24715	13:54:00	D	12.90
638	MUKTSAR	GIDDARBAHA	S-NPP	74.58602	30.26169	13:54:00	D	3.80
639	MUKTSAR	GIDDARBAHA	S-NPP	74.59185	30.26233	13:54:00	D	8.60
640	MUKTSAR	GIDDARBAHA	S-NPP	74.72667	30.28124	13:54:00	D	3.80
641	MUKTSAR	GIDDARBAHA	S-NPP	74.60009	30.28738	13:54:00	D	9.70
642	MUKTSAR	GIDDARBAHA	AQUA	74.63500	30.29000	13:40:00	D	11.30
643	MUKTSAR	GIDDARBAHA	AQUA	74.64600	30.29100	13:40:00	D	11.80
644	MUKTSAR	GIDDARBAHA	AQUA	74.63000	30.31700	13:40:00	D	10.40
645	MUKTSAR	GIDDARBAHA	S-NPP	74.55820	30.31760	13:54:00	D	5.10
646	MUKTSAR	GIDDARBAHA	S-NPP	74.56404	30.31823	13:54:00	D	9.70
647	MUKTSAR	GIDDARBAHA	S-NPP	74.55994	30.31903	13:54:00	D	21.50
648	MUKTSAR	GIDDARBAHA	S-NPP	74.56346	30.32218	13:54:00	D	9.70
649	MUKTSAR	GIDDARBAHA	S-NPP	74.63066	30.32306	13:54:00	D	4.40
650	MUKTSAR	GIDDARBAHA	S-NPP	74.70258	30.32310	13:54:00	D	4.90
651	MUKTSAR	GIDDARBAHA	S-NPP	74.64829	30.32506	13:54:00	D	4.40
652	MUKTSAR	GIDDARBAHA	S-NPP	74.53317	30.32693	13:54:00	D	6.90
653	MUKTSAR	GIDDARBAHA	S-NPP	74.64613	30.32706	13:54:00	D	5.60
654	MUKTSAR	GIDDARBAHA	S-NPP	74.70200	30.32709	13:54:00	D	4.90
655	MUKTSAR	GIDDARBAHA	S-NPP	74.52916	30.32754	13:54:00	D	3.90
656	MUKTSAR	GIDDARBAHA	S-NPP	74.60607	30.32832	13:54:00	D	6.60
657	MUKTSAR	GIDDARBAHA	S-NPP	74.59153	30.33326	13:54:00	D	31.20

658	MUKTSAR	GIDDARBAHA	S-NPP	74.59739	30.33390	13:54:00	D	12.50
659	MUKTSAR	GIDDARBAHA	AQUA	74.74700	30.33500	13:40:00	D	5.60
660	MUKTSAR	GIDDARBAHA	S-NPP	74.59908	30.33558	13:54:00	D	22.70
661	MUKTSAR	GIDDARBAHA	S-NPP	74.58097	30.33752	13:54:00	D	6.40
662	MUKTSAR	GIDDARBAHA	S-NPP	74.59681	30.33786	13:54:00	D	5.20
663	MUKTSAR	GIDDARBAHA	S-NPP	74.57868	30.33991	13:54:00	D	7.00
664	MUKTSAR	GIDDARBAHA	AQUA	74.61300	30.34300	13:40:00	D	5.60
665	MUKTSAR	GIDDARBAHA	AQUA	74.71100	30.34800	13:40:00	D	11.90
666	MUKTSAR	GIDDARBAHA	S-NPP	74.56525	30.35050	13:54:00	D	5.60
667	MUKTSAR	GIDDARBAHA	S-NPP	74.64856	30.35154	13:54:00	D	5.20
668	MUKTSAR	GIDDARBAHA	S-NPP	74.58279	30.35242	13:54:00	D	6.90
669	MUKTSAR	GIDDARBAHA	S-NPP	74.64799	30.35551	13:54:00	D	5.20
670	MUKTSAR	GIDDARBAHA	AQUA	74.57700	30.35600	13:40:00	D	23.70
671	MUKTSAR	GIDDARBAHA	S-NPP	74.68346	30.35937	13:54:00	D	18.10
672	MUKTSAR	GIDDARBAHA	S-NPP	74.57578	30.35970	13:54:00	D	17.30
673	MUKTSAR	GIDDARBAHA	AQUA	74.67700	30.37900	13:40:00	D	20.20
674	MUKTSAR	GIDDARBAHA	S-NPP	74.68652	30.37993	13:54:00	D	19.50
675	MUKTSAR	GIDDARBAHA	AQUA	74.68800	30.38000	13:40:00	D	16.30
676	MUKTSAR	GIDDARBAHA	S-NPP	74.65044	30.38001	13:54:00	D	3.40
677	MUKTSAR	GIDDARBAHA	S-NPP	74.78198	30.39036	13:54:00	D	3.30
678	MUKTSAR	GIDDARBAHA	AQUA	74.71800	30.39400	13:40:00	D	13.80
679	MUKTSAR	GIDDARBAHA	AQUA	74.67200	30.40600	13:40:00	D	9.40
680	MUKTSAR	GIDDARBAHA	S-NPP	74.67065	30.40650	13:54:00	D	23.10
681	MUKTSAR	GIDDARBAHA	S-NPP	74.63463	30.40652	13:54:00	D	4.80
682	MUKTSAR	GIDDARBAHA	S-NPP	74.67601	30.41114	13:54:00	D	8.20
683	MUKTSAR	GIDDARBAHA	S-NPP	74.73549	30.41776	13:54:00	D	14.70
684	MUKTSAR	GIDDARBAHA	S-NPP	74.64470	30.41977	13:54:00	D	23.00
685	MUKTSAR	GIDDARBAHA	AQUA	74.73400	30.42500	13:40:00	D	11.30
686	MUKTSAR	GIDDARBAHA	S-NPP	74.65595	30.42507	13:54:00	D	4.60
687	MUKTSAR	GIDDARBAHA	AQUA	74.67900	30.42600	13:40:00	D	21.50
688	MUKTSAR	GIDDARBAHA	AQUA	74.74400	30.42600	13:40:00	D	36.30
689	MUKTSAR	GIDDARBAHA	AQUA	74.68900	30.42700	13:40:00	D	8.00
690	MUKTSAR	GIDDARBAHA	AQUA	74.70000	30.42900	13:40:00	D	19.00

691	MUKTSAR	GIDDARBAHA	S-NPP	74.60905	30.44992	13:54:00	D	7.30
692	MUKTSAR	GIDDARBAHA	S-NPP	74.64015	30.45158	13:54:00	D	6.10
693	MUKTSAR	GIDDARBAHA	AQUA	74.60700	30.45200	13:40:00	D	29.10
694	MUKTSAR	GIDDARBAHA	S-NPP	74.71843	30.45238	13:54:00	D	8.50
695	MUKTSAR	GIDDARBAHA	S-NPP	74.63859	30.45312	13:54:00	D	3.90
696	MUKTSAR	GIDDARBAHA	S-NPP	74.71702	30.45346	13:54:00	D	6.50
697	MUKTSAR	GIDDARBAHA	S-NPP	74.60848	30.45389	13:54:00	D	8.20
698	MUKTSAR	GIDDARBAHA	S-NPP	74.72299	30.45411	13:54:00	D	6.50
699	MUKTSAR	GIDDARBAHA	S-NPP	74.61969	30.45915	13:54:00	D	15.50
700	MUKTSAR	GIDDARBAHA	AQUA	74.60900	30.46100	13:40:00	D	11.30
701	MUKTSAR	GIDDARBAHA	S-NPP	74.62502	30.46376	13:54:00	D	6.10
702	MUKTSAR	GIDDARBAHA	S-NPP	74.63094	30.46441	13:54:00	D	12.30
703	MUKTSAR	GIDDARBAHA	S-NPP	74.65405	30.47097	13:54:00	D	8.20
704	MUKTSAR	MALAUT	AQUA	74.59100	29.93200	13:40:00	D	11.00
705	MUKTSAR	MALAUT	S-NPP	74.59277	29.93778	13:54:00	D	4.40
706	MUKTSAR	MALAUT	S-NPP	74.56744	29.95096	13:54:00	D	3.80
707	MUKTSAR	MALAUT	AQUA	74.55300	29.95400	13:40:00	D	23.90
708	MUKTSAR	MALAUT	AQUA	74.56300	29.95600	13:40:00	D	21.20
709	MUKTSAR	MALAUT	S-NPP	74.55997	29.96212	13:54:00	D	10.70
710	MUKTSAR	MALAUT	AQUA	74.56100	29.96500	13:40:00	D	6.60
711	MUKTSAR	MALAUT	S-NPP	74.48387	29.96543	13:54:00	D	19.80
712	MUKTSAR	MALAUT	AQUA	74.57200	29.96700	13:40:00	D	96.30
713	MUKTSAR	MALAUT	S-NPP	74.57607	29.97195	13:54:00	D	13.90
714	MUKTSAR	MALAUT	AQUA	74.48600	29.97900	13:40:00	D	6.70
715	MUKTSAR	MALAUT	AQUA	74.59200	29.97900	13:40:00	D	16.10
716	MUKTSAR	MALAUT	S-NPP	74.49298	29.98242	13:54:00	D	4.20
717	MUKTSAR	MALAUT	S-NPP	74.59801	29.98245	13:54:00	D	8.30
718	MUKTSAR	MALAUT	S-NPP	74.58589	29.98508	13:54:00	D	4.30
719	MUKTSAR	MALAUT	S-NPP	74.60900	29.98771	13:54:00	D	3.80
720	MUKTSAR	MALAUT	S-NPP	74.58532	29.98902	13:54:00	D	13.20
721	MUKTSAR	MALAUT	AQUA	74.43900	29.99100	13:40:00	D	7.40
722	MUKTSAR	MALAUT	AQUA	74.45000	29.99200	13:40:00	D	28.00
723	MUKTSAR	MALAUT	S-NPP	74.54391	29.99227	13:54:00	D	4.50

724	MUKTSAR	MALAUT	S-NPP	74.57898	29.99230	13:54:00	D	43.30
725	MUKTSAR	MALAUT	AQUA	74.57200	29.99300	13:40:00	D	19.40
726	MUKTSAR	MALAUT	S-NPP	74.54103	29.99479	13:54:00	D	4.10
727	MUKTSAR	MALAUT	S-NPP	74.57841	29.99624	13:54:00	D	6.40
728	MUKTSAR	MALAUT	S-NPP	74.44788	29.99653	13:54:00	D	5.40
729	MUKTSAR	MALAUT	S-NPP	74.45357	29.99716	13:54:00	D	5.40
730	MUKTSAR	MALAUT	S-NPP	74.45030	29.99739	13:54:00	D	10.50
731	MUKTSAR	MALAUT	AQUA	74.48000	30.00700	13:40:00	D	16.30
732	MUKTSAR	MALAUT	AQUA	74.49100	30.00800	13:40:00	D	20.40
733	MUKTSAR	MALAUT	S-NPP	74.56234	30.00912	13:54:00	D	5.50
734	MUKTSAR	MALAUT	S-NPP	74.56461	30.01067	13:54:00	D	18.60
735	MUKTSAR	MALAUT	AQUA	74.51300	30.01200	13:40:00	D	6.40
736	MUKTSAR	MALAUT	S-NPP	74.48602	30.01269	13:54:00	D	17.80
737	MUKTSAR	MALAUT	S-NPP	74.56177	30.01306	13:54:00	D	13.70
738	MUKTSAR	MALAUT	S-NPP	74.51463	30.01585	13:54:00	D	4.30
739	MUKTSAR	MALAUT	S-NPP	74.51405	30.01978	13:54:00	D	4.30
740	MUKTSAR	MALAUT	S-NPP	74.51978	30.02042	13:54:00	D	4.30
741	MUKTSAR	MALAUT	AQUA	74.65400	30.02400	13:40:00	D	10.30
742	MUKTSAR	MALAUT	S-NPP	74.54160	30.03083	13:54:00	D	4.70
743	MUKTSAR	MALAUT	S-NPP	74.52379	30.03284	13:54:00	D	11.30
744	MUKTSAR	MALAUT	S-NPP	74.48885	30.03294	13:54:00	D	16.60
745	MUKTSAR	MALAUT	AQUA	74.47500	30.03400	13:40:00	D	8.40
746	MUKTSAR	MALAUT	AQUA	74.59700	30.03400	13:40:00	D	27.60
747	MUKTSAR	MALAUT	AQUA	74.60800	30.03600	13:40:00	D	8.60
748	MUKTSAR	MALAUT	S-NPP	74.52322	30.03677	13:54:00	D	11.30
749	MUKTSAR	MALAUT	S-NPP	74.59935	30.03723	13:54:00	D	4.90
750	MUKTSAR	MALAUT	S-NPP	74.58140	30.03925	13:54:00	D	6.30
751	MUKTSAR	MALAUT	S-NPP	74.52264	30.04071	13:54:00	D	4.50
752	MUKTSAR	MALAUT	AQUA	74.46200	30.04100	13:40:00	D	12.60
753	MUKTSAR	MALAUT	AQUA	74.58400	30.04200	13:40:00	D	20.20
754	MUKTSAR	MALAUT	S-NPP	74.57504	30.04255	13:54:00	D	3.90
755	MUKTSAR	MALAUT	S-NPP	74.43530	30.04284	13:54:00	D	5.70
756	MUKTSAR	MALAUT	AQUA	74.65100	30.04300	13:40:00	D	5.40

757	MUKTSAR	MALAUT	S-NPP	74.65109	30.04696	13:54:00	D	5.20
758	MUKTSAR	MALAUT	S-NPP	74.47456	30.05126	13:54:00	D	8.60
759	MUKTSAR	MALAUT	AQUA	74.39400	30.06700	13:40:00	D	10.40
760	MUKTSAR	MALAUT	S-NPP	74.40860	30.06761	13:54:00	D	2.10
761	MUKTSAR	MALAUT	S-NPP	74.43072	30.07413	13:54:00	D	4.30
762	MUKTSAR	MALAUT	S-NPP	74.60463	30.08196	13:54:00	D	8.30
763	MUKTSAR	MALAUT	AQUA	74.43500	30.08300	13:40:00	D	22.20
764	MUKTSAR	MALAUT	S-NPP	74.61624	30.08327	13:54:00	D	3.90
765	MUKTSAR	MALAUT	S-NPP	74.37531	30.08378	13:54:00	D	2.40
766	MUKTSAR	MALAUT	S-NPP	74.37745	30.08386	13:54:00	D	2.80
767	MUKTSAR	MALAUT	AQUA	74.46800	30.08800	13:40:00	D	17.40
768	MUKTSAR	MALAUT	S-NPP	74.39383	30.08974	13:54:00	D	4.00
769	MUKTSAR	MALAUT	AQUA	74.47800	30.09000	13:40:00	D	45.80
770	MUKTSAR	MALAUT	AQUA	74.60100	30.09000	13:40:00	D	35.70
771	MUKTSAR	MALAUT	AQUA	74.48900	30.09100	13:40:00	D	16.70
772	MUKTSAR	MALAUT	AQUA	74.58800	30.09800	13:40:00	D	69.30
773	MUKTSAR	MALAUT	AQUA	74.59900	30.09900	13:40:00	D	103.10
774	MUKTSAR	MALAUT	AQUA	74.42000	30.10000	13:40:00	D	9.10
775	MUKTSAR	MALAUT	AQUA	74.54300	30.10000	13:40:00	D	29.00
776	MUKTSAR	MALAUT	S-NPP	74.38998	30.10126	13:54:00	D	3.30
777	MUKTSAR	MALAUT	S-NPP	74.39211	30.10145	13:54:00	D	4.30
778	MUKTSAR	MALAUT	S-NPP	74.59541	30.10500	13:54:00	D	39.90
779	MUKTSAR	MALAUT	S-NPP	74.42612	30.10542	13:54:00	D	1.30
780	MUKTSAR	MALAUT	S-NPP	74.42973	30.10566	13:54:00	D	2.70
781	MUKTSAR	MALAUT	S-NPP	74.44112	30.10692	13:54:00	D	4.10
782	MUKTSAR	MALAUT	AQUA	74.58600	30.10700	13:40:00	D	56.70
783	MUKTSAR	MALAUT	S-NPP	74.44318	30.10741	13:54:00	D	8.60
784	MUKTSAR	MALAUT	S-NPP	74.44682	30.10755	13:54:00	D	5.90
785	MUKTSAR	MALAUT	S-NPP	74.59306	30.10756	13:54:00	D	44.50
786	MUKTSAR	MALAUT	AQUA	74.59700	30.10800	13:40:00	D	53.50
787	MUKTSAR	MALAUT	S-NPP	74.59885	30.10818	13:54:00	D	19.90
788	MUKTSAR	MALAUT	S-NPP	74.52827	30.10852	13:54:00	D	12.70
789	MUKTSAR	MALAUT	S-NPP	74.59483	30.10895	13:54:00	D	39.90

790	MUKTSAR	MALAUT	S-NPP	74.53017	30.10953	13:54:00	D	12.80
791	MUKTSAR	MALAUT	S-NPP	74.60992	30.11340	13:54:00	D	13.40
792	MUKTSAR	MALAUT	S-NPP	74.61167	30.11490	13:54:00	D	12.70
793	MUKTSAR	MALAUT	AQUA	74.36900	30.15500	13:40:00	D	7.90
794	MUKTSAR	MALAUT	S-NPP	74.56238	30.15632	13:54:00	D	7.20
795	MUKTSAR	MALAUT	S-NPP	74.42738	30.16110	13:54:00	D	3.50
796	MUKTSAR	MALAUT	S-NPP	74.54386	30.16227	13:54:00	D	3.70
797	MUKTSAR	MALAUT	S-NPP	74.36943	30.16245	13:54:00	D	3.80
798	MUKTSAR	MALAUT	AQUA	74.36800	30.16400	13:40:00	D	6.90
799	MUKTSAR	MALAUT	S-NPP	74.35755	30.16506	13:54:00	D	4.60
800	MUKTSAR	MALAUT	S-NPP	74.36320	30.16570	13:54:00	D	4.60
801	MUKTSAR	MALAUT	S-NPP	74.49548	30.17282	13:54:00	D	3.60
802	MUKTSAR	MALAUT	S-NPP	74.42565	30.17285	13:54:00	D	6.60
803	MUKTSAR	MALAUT	AQUA	74.42200	30.17300	13:40:00	D	5.60
804	MUKTSAR	MALAUT	AQUA	74.48900	30.17400	13:40:00	D	17.40
805	MUKTSAR	MALAUT	S-NPP	74.53523	30.18132	13:54:00	D	6.90
806	MUKTSAR	MALAUT	S-NPP	74.53987	30.18986	13:54:00	D	11.20
807	MUKTSAR	MALAUT	AQUA	74.44900	30.20500	13:40:00	D	7.30
808	MUKTSAR	MALAUT	S-NPP	74.51749	30.20606	13:54:00	D	10.20
809	MUKTSAR	MALAUT	S-NPP	74.45301	30.20701	13:54:00	D	5.80
810	MUKTSAR	MALAUT	S-NPP	74.51968	30.20758	13:54:00	D	11.20
811	MUKTSAR	MALAUT	S-NPP	74.45533	30.20815	13:54:00	D	6.20
812	MUKTSAR	MALAUT	S-NPP	74.42326	30.21171	13:54:00	D	3.50
813	MUKTSAR	MALAUT	S-NPP	74.35952	30.21260	13:54:00	D	6.70
814	MUKTSAR	MALAUT	S-NPP	74.42563	30.21267	13:54:00	D	3.40
815	MUKTSAR	MALAUT	S-NPP	74.44613	30.21423	13:54:00	D	15.80
816	MUKTSAR	MALAUT	S-NPP	74.44846	30.21533	13:54:00	D	16.30
817	MUKTSAR	MALAUT	S-NPP	74.35895	30.21650	13:54:00	D	6.70
818	MUKTSAR	MALAUT	S-NPP	74.38734	30.21966	13:54:00	D	9.80
819	MUKTSAR	MALAUT	S-NPP	74.44439	30.22599	13:54:00	D	10.50
820	MUKTSAR	MALAUT	AQUA	74.54400	30.22900	13:40:00	D	20.90
821	MUKTSAR	MALAUT	AQUA	74.43200	30.23100	13:40:00	D	7.90
822	MUKTSAR	MALAUT	S-NPP	74.52499	30.23489	13:54:00	D	4.40

823	MUKTSAR	MALAUT	S-NPP	74.53078	30.23553	13:54:00	D	4.40
824	MUKTSAR	MALAUT	S-NPP	74.43123	30.23648	13:54:00	D	3.10
825	MUKTSAR	MALAUT	S-NPP	74.54237	30.23681	13:54:00	D	8.60
826	MUKTSAR	MALAUT	S-NPP	74.31418	30.24714	13:54:00	D	7.50
827	MUKTSAR	MALAUT	S-NPP	74.30233	30.24975	13:54:00	D	6.00
828	MUKTSAR	MALAUT	S-NPP	74.39979	30.25287	13:54:00	D	4.00
829	MUKTSAR	MALAUT	AQUA	74.35300	30.25500	13:40:00	D	10.60
830	MUKTSAR	MALAUT	S-NPP	74.31866	30.25557	13:54:00	D	6.00
831	MUKTSAR	MALAUT	AQUA	74.36400	30.25700	13:40:00	D	17.50
832	MUKTSAR	MALAUT	S-NPP	74.45067	30.26259	13:54:00	D	12.10
833	MUKTSAR	MALAUT	AQUA	74.40700	30.26300	13:40:00	D	14.70
834	MUKTSAR	MALAUT	S-NPP	74.48518	30.26647	13:54:00	D	16.50
835	MUKTSAR	MALAUT	AQUA	74.37300	30.26700	13:40:00	D	20.20
836	MUKTSAR	MALAUT	S-NPP	74.49787	30.29991	13:54:00	D	4.30
837	MUKTSAR	MALAUT	AQUA	74.34300	30.30100	13:40:00	D	16.70
838	MUKTSAR	MALAUT	AQUA	74.35400	30.30200	13:40:00	D	21.60
839	MUKTSAR	MALAUT	S-NPP	74.36067	30.30803	13:54:00	D	3.40
840	MUKTSAR	MALAUT	S-NPP	74.42923	30.31557	13:54:00	D	2.80
841	MUKTSAR	MALAUT	S-NPP	74.46561	30.32021	13:54:00	D	10.70
842	MUKTSAR	MALAUT	S-NPP	74.43325	30.32797	13:54:00	D	6.10
843	MUKTSAR	MALAUT	S-NPP	74.32198	30.33547	13:54:00	D	6.30
844	MUKTSAR	MALAUT	S-NPP	74.37370	30.33730	13:54:00	D	3.40
845	MUKTSAR	MALAUT	S-NPP	74.34977	30.34256	13:54:00	D	3.60
846	MUKTSAR	MALAUT	S-NPP	74.37825	30.34576	13:54:00	D	4.10
847	MUKTSAR	MALAUT	AQUA	74.37200	30.35000	13:40:00	D	12.40
848	MUKTSAR	MALAUT	AQUA	74.39400	30.35300	13:40:00	D	36.80
849	MUKTSAR	MALAUT	S-NPP	74.38851	30.35487	13:54:00	D	12.90
850	MUKTSAR	MALAUT	AQUA	74.40500	30.35500	13:40:00	D	27.50
851	MUKTSAR	MUKTSAR	S-NPP	74.44759	30.34952	13:54:00	D	3.20
852	MUKTSAR	MUKTSAR	S-NPP	74.44703	30.35345	13:54:00	D	7.70
853	MUKTSAR	MUKTSAR	S-NPP	74.41026	30.36529	13:54:00	D	10.50
854	MUKTSAR	MUKTSAR	S-NPP	74.40968	30.36920	13:54:00	D	10.50
855	MUKTSAR	MUKTSAR	S-NPP	74.45566	30.37439	13:54:00	D	12.90

856	MUKTSAR	MUKTSAR	AQUA	74.42300	30.37700	13:40:00	D	9.00
857	MUKTSAR	MUKTSAR	S-NPP	74.44932	30.37767	13:54:00	D	10.00
858	MUKTSAR	MUKTSAR	AQUA	74.43300	30.37800	13:40:00	D	22.90
859	MUKTSAR	MUKTSAR	S-NPP	74.45509	30.37832	13:54:00	D	10.00
860	MUKTSAR	MUKTSAR	S-NPP	74.43092	30.38357	13:54:00	D	9.50
861	MUKTSAR	MUKTSAR	S-NPP	74.41769	30.39405	13:54:00	D	4.30
862	MUKTSAR	MUKTSAR	AQUA	74.41900	30.39500	13:40:00	D	11.60
863	MUKTSAR	MUKTSAR	S-NPP	74.42287	30.39862	13:54:00	D	48.50
864	MUKTSAR	MUKTSAR	AQUA	74.48400	30.40500	13:40:00	D	14.50
865	MUKTSAR	MUKTSAR	AQUA	74.41500	30.41300	13:40:00	D	29.10
866	MUKTSAR	MUKTSAR	S-NPP	74.31461	30.41369	13:54:00	D	7.80
867	MUKTSAR	MUKTSAR	S-NPP	74.31614	30.41417	13:54:00	D	5.80
868	MUKTSAR	MUKTSAR	S-NPP	74.47175	30.41496	13:54:00	D	6.40
869	MUKTSAR	MUKTSAR	AQUA	74.42600	30.41500	13:40:00	D	50.10
870	MUKTSAR	MUKTSAR	S-NPP	74.47300	30.41636	13:54:00	D	7.80
871	MUKTSAR	MUKTSAR	S-NPP	74.48914	30.41684	13:54:00	D	9.40
872	MUKTSAR	MUKTSAR	S-NPP	74.47878	30.41702	13:54:00	D	5.20
873	MUKTSAR	MUKTSAR	S-NPP	74.48457	30.41768	13:54:00	D	5.20
874	MUKTSAR	MUKTSAR	S-NPP	74.53159	30.41905	13:54:00	D	19.50
875	MUKTSAR	MUKTSAR	S-NPP	74.47697	30.41953	13:54:00	D	6.40
876	MUKTSAR	MUKTSAR	S-NPP	74.29644	30.41961	13:54:00	D	5.50
877	MUKTSAR	MUKTSAR	AQUA	74.56800	30.42700	13:40:00	D	9.60
878	MUKTSAR	MUKTSAR	AQUA	74.33800	30.42800	13:40:00	D	11.50
879	MUKTSAR	MUKTSAR	S-NPP	74.50426	30.43451	13:54:00	D	11.20
880	MUKTSAR	MUKTSAR	S-NPP	74.51007	30.43514	13:54:00	D	11.20
881	MUKTSAR	MUKTSAR	S-NPP	74.50546	30.43612	13:54:00	D	16.50
882	MUKTSAR	MUKTSAR	S-NPP	74.58717	30.44551	13:54:00	D	5.10
883	MUKTSAR	MUKTSAR	S-NPP	74.59303	30.44619	13:54:00	D	12.00
884	MUKTSAR	MUKTSAR	S-NPP	74.59139	30.44801	13:54:00	D	21.40
885	MUKTSAR	MUKTSAR	S-NPP	74.60316	30.44928	13:54:00	D	19.00
886	MUKTSAR	MUKTSAR	S-NPP	74.60258	30.45325	13:54:00	D	8.20
887	MUKTSAR	MUKTSAR	AQUA	74.58800	30.45800	13:40:00	D	11.20
888	MUKTSAR	MUKTSAR	AQUA	74.45300	30.46500	13:40:00	D	8.00

889	MUKTSAR	MUKTSAR	S-NPP	74.73324	30.46738	13:54:00	D	3.50
890	MUKTSAR	MUKTSAR	S-NPP	74.61091	30.47836	13:54:00	D	6.50
891	MUKTSAR	MUKTSAR	S-NPP	74.57504	30.47844	13:54:00	D	4.00
892	MUKTSAR	MUKTSAR	S-NPP	74.47409	30.47927	13:54:00	D	10.20
893	MUKTSAR	MUKTSAR	S-NPP	74.46771	30.48256	13:54:00	D	5.70
894	MUKTSAR	MUKTSAR	AQUA	74.57200	30.48300	13:40:00	D	20.10
895	MUKTSAR	MUKTSAR	S-NPP	74.58621	30.48371	13:54:00	D	4.50
896	MUKTSAR	MUKTSAR	AQUA	74.58200	30.48500	13:40:00	D	8.80
897	MUKTSAR	MUKTSAR	S-NPP	74.59798	30.48501	13:54:00	D	15.90
898	MUKTSAR	MUKTSAR	S-NPP	74.60387	30.48565	13:54:00	D	8.50
899	MUKTSAR	MUKTSAR	AQUA	74.65900	30.48800	13:40:00	D	15.60
900	MUKTSAR	MUKTSAR	AQUA	74.46900	30.49600	13:40:00	D	12.30
901	MUKTSAR	MUKTSAR	AQUA	74.60200	30.49700	13:40:00	D	11.10
902	MUKTSAR	MUKTSAR	S-NPP	74.60804	30.49822	13:54:00	D	17.00
903	MUKTSAR	MUKTSAR	S-NPP	74.58334	30.50354	13:54:00	D	56.00
904	MUKTSAR	MUKTSAR	S-NPP	74.60632	30.51014	13:54:00	D	8.70
905	MUKTSAR	MUKTSAR	S-NPP	74.55814	30.51279	13:54:00	D	5.80
906	MUKTSAR	MUKTSAR	S-NPP	74.61755	30.51543	13:54:00	D	7.00
907	MUKTSAR	MUKTSAR	AQUA	74.56400	30.52000	13:40:00	D	37.30
908	MUKTSAR	MUKTSAR	AQUA	74.57500	30.52100	13:40:00	D	10.40
909	MUKTSAR	MUKTSAR	S-NPP	74.56818	30.52601	13:54:00	D	7.80
910	MUKTSAR	MUKTSAR	S-NPP	74.41209	30.52751	13:54:00	D	13.20
911	MUKTSAR	MUKTSAR	S-NPP	74.41406	30.52846	13:54:00	D	15.20
912	MUKTSAR	MUKTSAR	S-NPP	74.61526	30.53133	13:54:00	D	3.20
913	MUKTSAR	MUKTSAR	AQUA	74.53200	30.54100	13:40:00	D	4.80
914	MUKTSAR	MUKTSAR	S-NPP	74.46825	30.54565	13:54:00	D	4.80
915	MUKTSAR	MUKTSAR	AQUA	74.50800	30.54700	13:40:00	D	21.40
916	MUKTSAR	MUKTSAR	S-NPP	74.56475	30.54979	13:54:00	D	25.40
917	MUKTSAR	MUKTSAR	S-NPP	74.51489	30.55074	13:54:00	D	8.60
918	MUKTSAR	MUKTSAR	S-NPP	74.47932	30.55087	13:54:00	D	4.30
919	MUKTSAR	MUKTSAR	AQUA	74.47400	30.55100	13:40:00	D	22.90
920	MUKTSAR	MUKTSAR	S-NPP	74.56240	30.55189	13:54:00	D	29.10
921	MUKTSAR	MUKTSAR	AQUA	74.55100	30.55300	13:40:00	D	41.90

922	MUKTSAR	MUKTSAR	AQUA	74.56200	30.55500	13:40:00	D	21.40
923	MUKTSAR	MUKTSAR	S-NPP	74.59720	30.55969	13:54:00	D	28.20
924	MUKTSAR	MUKTSAR	S-NPP	74.52488	30.56389	13:54:00	D	9.90
925	MUKTSAR	MUKTSAR	AQUA	74.56000	30.56400	13:40:00	D	44.30
926	MUKTSAR	MUKTSAR	S-NPP	74.56656	30.56443	13:54:00	D	4.30
927	MUKTSAR	MUKTSAR	AQUA	74.57100	30.56600	13:40:00	D	65.00
928	MUKTSAR	MUKTSAR	S-NPP	74.44161	30.56674	13:54:00	D	19.60
929	MUKTSAR	MUKTSAR	S-NPP	74.56597	30.56839	13:54:00	D	4.30
930	MUKTSAR	MUKTSAR	S-NPP	74.53015	30.56849	13:54:00	D	3.60
931	MUKTSAR	MUKTSAR	S-NPP	74.60787	30.56892	13:54:00	D	28.50
932	MUKTSAR	MUKTSAR	S-NPP	74.54774	30.57043	13:54:00	D	6.10
933	MUKTSAR	MUKTSAR	AQUA	74.60300	30.57100	13:40:00	D	12.00
934	MUKTSAR	MUKTSAR	S-NPP	74.60729	30.57290	13:54:00	D	28.50
935	MUKTSAR	MUKTSAR	AQUA	74.50200	30.57400	13:40:00	D	23.70
936	MUKTSAR	MUKTSAR	TERRA	74.62700	30.57400	12:05:00	D	54.60
937	MUKTSAR	MUKTSAR	AQUA	74.51300	30.57500	13:40:00	D	6.70
938	MUKTSAR	MUKTSAR	TERRA	74.63400	30.57700	12:05:00	D	48.00
939	MUKTSAR	MUKTSAR	AQUA	74.64600	30.57700	13:40:00	D	9.20
940	MUKTSAR	MUKTSAR	S-NPP	74.50504	30.57778	13:54:00	D	3.50
941	MUKTSAR	MUKTSAR	S-NPP	74.37522	30.57930	13:54:00	D	38.90
942	MUKTSAR	MUKTSAR	S-NPP	74.50446	30.58173	13:54:00	D	3.40
943	MUKTSAR	MUKTSAR	TERRA	74.58600	30.58300	12:05:00	D	62.20
944	MUKTSAR	MUKTSAR	S-NPP	74.60557	30.58483	13:54:00	D	19.20
945	MUKTSAR	MUKTSAR	TERRA	74.59200	30.58700	12:05:00	D	77.60
946	MUKTSAR	MUKTSAR	S-NPP	74.60441	30.59278	13:54:00	D	8.70
947	MUKTSAR	MUKTSAR	AQUA	74.45400	30.59400	13:40:00	D	12.30
948	MUKTSAR	MUKTSAR	AQUA	74.46400	30.59600	13:40:00	D	7.50
949	MUKTSAR	MUKTSAR	AQUA	74.40800	30.59700	13:40:00	D	14.80
950	MUKTSAR	MUKTSAR	AQUA	74.64000	30.60400	13:40:00	D	13.30
951	MUKTSAR	MUKTSAR	S-NPP	74.43005	30.60547	13:54:00	D	5.10
952	MUKTSAR	MUKTSAR	S-NPP	74.42948	30.60941	13:54:00	D	5.10
953	MUKTSAR	MUKTSAR	S-NPP	74.42311	30.61269	13:54:00	D	5.60
954	MUKTSAR	MUKTSAR	S-NPP	74.42891	30.61335	13:54:00	D	5.60

955	MUKTSAR	MUKTSAR	AQUA	74.61300	30.62800	13:40:00	D	10.20
956	PATIALA	NABHA	AQUA	76.33000	30.46700	13:40:00	D	11.40
957	PATIALA	NABHA	S-NPP	76.29979	30.49777	13:54:00	D	4.90
958	PATIALA	PATIALA	S-NPP	76.31654	30.13595	13:54:00	D	6.00
959	PATIALA	PATIALA	S-NPP	76.39986	30.13973	13:54:00	D	3.60
960	PATIALA	PATIALA	S-NPP	76.33802	30.47045	13:54:00	D	3.70
961	PATIALA	SAMANA	AQUA	76.13000	30.01500	13:40:00	D	4.80
962	PATIALA	SAMANA	S-NPP	76.13528	30.01998	13:54:00	D	7.30
963	PATIALA	SAMANA	S-NPP	76.07681	30.12508	13:54:00	D	5.90
964	SANGRUR	DHURI	S-NPP	75.67663	30.32699	13:54:00	D	13.00
965	SANGRUR	DHURI	AQUA	75.92000	30.39900	13:40:00	D	8.30
966	SANGRUR	MOONAK	AQUA	75.92200	29.79100	13:40:00	D	23.10
967	SANGRUR	MOONAK	S-NPP	75.92414	29.79399	13:54:00	D	3.10
968	SANGRUR	MOONAK	S-NPP	76.02285	29.81724	13:54:00	D	4.60
969	SANGRUR	MOONAK	S-NPP	75.96227	29.81956	13:54:00	D	47.50
970	SANGRUR	MOONAK	S-NPP	75.92094	29.82708	13:54:00	D	4.80
971	SANGRUR	MOONAK	AQUA	76.07200	29.83200	13:40:00	D	7.10
972	SANGRUR	MOONAK	S-NPP	75.93401	29.83270	13:54:00	D	1.30
973	SANGRUR	MOONAK	S-NPP	75.99398	29.83433	13:54:00	D	3.40
974	SANGRUR	MOONAK	S-NPP	75.99255	29.83573	13:54:00	D	9.10
975	SANGRUR	MOONAK	S-NPP	75.99342	29.83860	13:54:00	D	3.40
976	SANGRUR	MOONAK	AQUA	75.98000	29.84600	13:40:00	D	18.50
977	SANGRUR	MOONAK	AQUA	75.91600	29.90100	13:40:00	D	5.00
978	SANGRUR	MOONAK	AQUA	75.92700	29.90200	13:40:00	D	8.30
979	SANGRUR	MOONAK	AQUA	75.90100	29.94500	13:40:00	D	35.90
980	SANGRUR	MOONAK	AQUA	75.91100	29.94700	13:40:00	D	5.40
981	SANGRUR	SANGRUR	AQUA	75.99100	30.17900	13:40:00	D	5.90
982	SANGRUR	SANGRUR	S-NPP	75.99970	30.18002	13:54:00	D	4.00
983	SANGRUR	SANGRUR	AQUA	76.00100	30.18100	13:40:00	D	9.30
984	SANGRUR	SANGRUR	S-NPP	75.67290	30.21116	13:54:00	D	7.90
985	SANGRUR	SANGRUR	AQUA	75.89600	30.33200	13:40:00	D	10.00
986	SANGRUR	SANGRUR	S-NPP	75.89562	30.34133	13:54:00	D	4.70
987	SANGRUR	SUNAM	S-NPP	75.99599	29.96675	13:54:00	D	3.10

988	SANGRUR	SUNAM	AQUA	75.77200	30.03600	13:40:00	D	19.80
989	SANGRUR	SUNAM	AQUA	75.78200	30.03800	13:40:00	D	28.80
990	SANGRUR	SUNAM	S-NPP	76.07737	30.12077	13:54:00	D	2.10
991	SANGRUR	SUNAM	AQUA	75.84900	30.14900	13:40:00	D	8.60
992	SANGRUR	SUNAM	S-NPP	75.85418	30.15255	13:54:00	D	2.90
993	TARN TARAN	KHADOOR SAHIB	AQUA	74.92800	31.32300	13:40:00	D	10.70
994	TARN TARAN	KHADOOR SAHIB	S-NPP	74.79538	31.33657	13:54:00	D	4.00
995	TARN TARAN	KHADOOR SAHIB	S-NPP	75.11088	31.34653	13:54:00	D	3.50
996	TARN TARAN	KHADOOR SAHIB	S-NPP	75.10777	31.34803	13:54:00	D	4.70
997	TARN TARAN	KHADOOR SAHIB	S-NPP	74.86231	31.37252	13:54:00	D	8.40
998	TARN TARAN	KHADOOR SAHIB	S-NPP	74.95206	31.37370	13:54:00	D	3.20
999	TARN TARAN	KHADOOR SAHIB	S-NPP	74.98977	31.38182	13:54:00	D	1.80
1000	TARN TARAN	KHADOOR SAHIB	S-NPP	74.85295	31.40874	13:54:00	D	4.00
1001	TARN TARAN	KHADOOR SAHIB	S-NPP	74.77454	31.45790	13:54:00	D	3.10
1002	TARN TARAN	KHADOOR SAHIB	S-NPP	74.64545	31.48098	13:54:00	D	3.00
1003	TARN TARAN	KHADOOR SAHIB	S-NPP	74.99238	31.49327	13:54:00	D	6.80
1004	TARN TARAN	PATTI	AQUA	74.53800	31.12400	13:40:00	D	6.00
1005	TARN TARAN	PATTI	AQUA	74.57100	31.17600	13:40:00	D	16.80
1006	TARN TARAN	PATTI	S-NPP	74.79053	31.31137	13:54:00	D	2.70
1007	TARN TARAN	PATTI	AQUA	74.82400	31.32500	13:40:00	D	11.80

Details of residue burning events in Haryana on 20-Nov-2019

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA	S-NPP	76.90305	30.22028	13:54:00	D	1.90
2	FATEHABAD	FATEHABAD	AQUA	75.28000	29.38200	13:40:00	D	4.50
3	FATEHABAD	FATEHABAD	S-NPP	75.27772	29.38427	13:54:00	D	5.40
4	FATEHABAD	FATEHABAD	S-NPP	75.32167	29.62339	13:54:00	D	10.50
5	FATEHABAD	FATEHABAD	AQUA	75.50300	29.64600	13:40:00	D	12.10
6	FATEHABAD	FATEHABAD	S-NPP	75.50648	29.64760	13:54:00	D	4.30
7	FATEHABAD	RATIA	AQUA	75.48600	29.62500	13:40:00	D	5.20
8	FATEHABAD	RATIA	AQUA	75.65400	29.63200	13:40:00	D	4.10
9	FATEHABAD	RATIA	S-NPP	75.64761	29.63733	13:54:00	D	4.20
10	FATEHABAD	RATIA	S-NPP	75.49402	29.67711	13:54:00	D	4.30
11	FATEHABAD	RATIA	S-NPP	75.49343	29.67978	13:54:00	D	5.20
12	FATEHABAD	RATIA	S-NPP	75.55817	29.68266	13:54:00	D	3.10
13	FATEHABAD	RATIA	S-NPP	75.59606	29.69604	13:54:00	D	4.40
14	FATEHABAD	RATIA	AQUA	75.55000	29.70000	13:40:00	D	20.40
15	FATEHABAD	RATIA	AQUA	75.38800	29.71200	13:40:00	D	3.20
16	FATEHABAD	RATIA	AQUA	75.57700	29.72200	13:40:00	D	11.10
17	FATEHABAD	RATIA	S-NPP	75.57912	29.72384	13:54:00	D	6.60
18	FATEHABAD	RATIA	AQUA	75.54400	29.72700	13:40:00	D	8.00
19	FATEHABAD	RATIA	S-NPP	75.57856	29.72800	13:54:00	D	2.90
20	FATEHABAD	RATIA	S-NPP	75.40568	29.75573	13:54:00	D	17.40
21	FATEHABAD	RATIA	AQUA	75.65200	29.77000	13:40:00	D	6.00
22	FATEHABAD	TOHANA	S-NPP	75.81364	29.57783	13:54:00	D	3.30
23	FATEHABAD	TOHANA	S-NPP	75.89388	29.67163	13:54:00	D	3.40
24	FATEHABAD	TOHANA	S-NPP	75.93330	29.68433	13:54:00	D	5.30
25	HISAR	HANSI	S-NPP	75.87119	29.26370	13:54:00	D	2.80
26	HISAR	NARNAUND	AQUA	76.19800	29.26000	13:40:00	D	5.80
27	HISAR	NARNAUND	S-NPP	76.12939	29.30833	13:54:00	D	2.70
28	JIND	JIND	S-NPP	76.44043	29.29416	02:36:00	N	1.20
29	JIND	JIND	S-NPP	76.51797	29.44646	13:54:00	D	3.70
30	JIND	NARWANA	S-NPP	76.19468	29.58715	13:54:00	D	4.30

31	JIND	NARWANA	S-NPP	76.01104	29.65347	13:54:00	D	4.00
32	JIND	NARWANA	S-NPP	76.00318	29.71322	13:54:00	D	3.00
33	JIND	NARWANA	S-NPP	76.01119	29.72272	13:54:00	D	2.40
34	JIND	NARWANA	AQUA	76.17300	29.72600	13:40:00	D	5.20
35	JIND	NARWANA	AQUA	76.17100	29.73500	13:40:00	D	4.90
36	JIND	SAFIDON	S-NPP	76.53323	29.31489	13:54:00	D	4.20
37	JIND	SAFIDON	AQUA	76.54700	29.34700	13:40:00	D	8.00
38	JIND	SAFIDON	S-NPP	76.54815	29.35197	13:54:00	D	4.30
39	JIND	SAFIDON	S-NPP	76.57523	29.46122	13:54:00	D	3.50
40	KAITHAL	KAITHAL	S-NPP	76.37235	29.53405	13:54:00	D	2.90
41	KAITHAL	KAITHAL	AQUA	76.24200	29.69000	13:40:00	D	17.50
42	KAITHAL	KAITHAL	S-NPP	76.24066	29.69405	13:54:00	D	18.20
43	KAITHAL	KAITHAL	S-NPP	76.20496	29.71235	13:54:00	D	3.80
44	KAITHAL	KAITHAL	AQUA	76.22400	29.73300	13:40:00	D	5.30
45	KAITHAL	KAITHAL	AQUA	76.31600	29.90300	13:40:00	D	10.00
46	KARNAL	ASSANDH	AQUA	76.63400	29.48800	13:40:00	D	7.60
47	KARNAL	KARNAL	S-NPP	77.01106	29.64908	13:54:00	D	2.40
48	KARNAL	NILOKHERI	S-NPP	76.77982	29.83495	13:54:00	D	3.50
49	KARNAL	NILOKHERI	AQUA	76.82400	29.86500	13:40:00	D	6.70
50	KURUKSHETRA	PEHOWA	AQUA	76.68600	30.08400	13:40:00	D	5.90
51	PANIPAT	PANIPAT	S-NPP	76.72200	29.35173	13:54:00	D	3.10
52	PANIPAT	PANIPAT	AQUA	76.74700	29.42100	13:40:00	D	5.50
53	ROHTAK	MAHAM	S-NPP	76.39323	28.93238	13:54:00	D	4.10
54	SIRSA	RANIA	S-NPP	74.80188	29.49084	13:54:00	D	5.00
55	SIRSA	RANIA	S-NPP	74.80769	29.49150	13:54:00	D	5.00
56	SIRSA	RANIA	AQUA	74.81200	29.49500	13:40:00	D	5.70
57	SIRSA	RANIA	S-NPP	74.73692	29.56642	13:54:00	D	5.70
58	SIRSA	RANIA	S-NPP	74.60254	29.62987	13:54:00	D	3.40
59	SIRSA	SIRSA	S-NPP	74.91293	29.46302	13:54:00	D	3.80
60	SIRSA	SIRSA	S-NPP	75.02840	29.49221	13:54:00	D	2.10
61	SIRSA	SIRSA	S-NPP	75.05181	29.49891	13:54:00	D	5.80
62	SIRSA	SIRSA	S-NPP	75.26144	29.50155	13:54:00	D	4.00
63	SIRSA	SIRSA	AQUA	75.00600	29.50600	13:40:00	D	4.60
64	SIRSA	SIRSA	S-NPP	75.24355	29.52485	02:36:00	N	1.10

65	SIRSA	SIRSA	S-NPP	75.19958	29.52775	13:54:00	D	6.60
66	SIRSA	SIRSA	AQUA	74.94600	29.53400	13:40:00	D	5.20
67	SIRSA	SIRSA	S-NPP	75.26927	29.53551	13:54:00	D	2.60
68	SIRSA	SIRSA	S-NPP	74.94893	29.54159	13:54:00	D	5.20
69	SIRSA	SIRSA	S-NPP	75.15005	29.58800	02:36:00	N	0.50
70	SIRSA	SIRSA	S-NPP	75.03738	29.59378	02:36:00	N	0.80
71	SIRSA	SIRSA	S-NPP	75.03558	29.59464	02:36:00	N	0.50
72	SIRSA	SIRSA	S-NPP	74.97029	29.59685	13:54:00	D	5.70
73	SIRSA	SIRSA	S-NPP	75.14379	29.66929	13:54:00	D	3.60
74	SIRSA	SIRSA	S-NPP	75.14910	29.69045	13:54:00	D	33.20

Details of residue burning events in Uttar Pradesh on 20-Nov-2019

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMROHA	AMROHA	AQUA	78.38600	28.86200	13:40:00	D	4.90
2	AURAIYA	BIDHUNA	S-NPP	79.63489	26.78348	02:36:00	N	0.50
3	AURAIYA	BIDHUNA	AQUA	79.40200	26.84300	13:40:00	D	6.10
4	BAHRAICH	BAHRAICH	S-NPP	81.89942	27.31966	12:12:00	D	3.20
5	BAHRAICH	NANPARA	S-NPP	81.45880	27.99215	12:12:00	D	2.80
6	BALRAMPUR	UTRAULA	NOAA-18	82.45147	27.14582	20:39:00	N	8.00
7	BAREILLY	BAHERI	S-NPP	79.41025	28.78185	13:54:00	D	2.10
8	BAREILLY	FARIDPUR	S-NPP	79.69194	28.25554	13:54:00	D	1.80
9	BASTI	BHANPUR	NOAA-18	82.65529	26.98412	20:39:00	N	6.00
10	BASTI	BHANPUR	S-NPP	82.71138	26.99586	01:00:00	N	0.40
11	BASTI	BHANPUR	AQUA	82.67200	27.10200	13:40:00	D	11.70
12	FATEHPUR	BINKI	S-NPP	80.58687	26.08928	13:54:00	D	9.10
13	FATEHPUR	FATEHPUR	AQUA	80.84900	25.97200	13:40:00	D	7.70
14	FATEHPUR	KHAGA	S-NPP	81.23248	25.55284	13:54:00	D	1.40
15	GAZIPUR	GAZIPUR	S-NPP	83.51612	25.84005	12:12:00	D	1.50
16	GAZIPUR	MUHAMMADBAD	S-NPP	83.91919	25.61862	12:12:00	D	4.50
17	GHAZIABAD	GHAZIABAD	AQUA	77.55800	28.76900	13:40:00	D	5.90
18	GHAZIABAD	MODINAGAR	S-NPP	77.68929	28.81298	13:54:00	D	5.30
19	GORAKHPUR	GOLA	S-NPP	83.28175	26.38418	01:00:00	N	0.40
20	GORAKHPUR	GORAKHPUR	S-NPP	83.53979	26.79572	01:00:00	N	0.40
21	HAMIRPUR	HAMIRPUR	AQUA	80.26100	25.83000	13:40:00	D	8.00
22	HAMIRPUR	HAMIRPUR	S-NPP	80.25626	25.83394	13:54:00	D	2.00
23	HAMIRPUR	HAMIRPUR	AQUA	80.23600	25.83700	13:40:00	D	13.50
24	HAPUR	GARHMUKTESAR	AQUA	77.94900	28.77600	13:40:00	D	6.60
25	HAPUR	HAPUR	AQUA	77.68000	28.71200	13:40:00	D	4.40
26	HARDOI	SHAHABAD	NOAA-18	80.06383	27.58599	20:39:00	N	10.00
27	JALAUN	JALAUN	AQUA	79.25300	26.10000	13:40:00	D	7.60
28	JALAUN	JALAUN	AQUA	79.41800	26.25600	13:40:00	D	5.50
29	JALAUN	MADHOGARH	AQUA	79.18600	26.30300	13:40:00	D	7.40
30	JHANSI	MOTH	S-NPP	78.81893	25.66537	13:54:00	D	4.50

31	JHANSI	MOTH	S-NPP	78.88152	25.68464	13:54:00	D	4.40
32	JHANSI	MOTH	AQUA	78.81000	25.70300	13:40:00	D	6.60
33	JHANSI	MOTH	S-NPP	78.91979	25.71780	13:54:00	D	6.90
34	JHANSI	MOTH	S-NPP	78.90144	25.72097	13:54:00	D	10.60
35	JHANSI	MOTH	AQUA	78.83000	25.73200	13:40:00	D	5.40
36	JHANSI	MOTH	S-NPP	78.89683	25.79187	13:54:00	D	6.10
37	KANPUR	KANPUR NAGAR	S-NPP	80.17348	26.47091	13:54:00	D	2.80
38	KANPUR DEHAT	RASULABAD	S-NPP	79.70641	26.71139	13:54:00	D	3.10
39	KAUSHAMBI	MANJHANPUR	S-NPP	81.37846	25.43349	13:54:00	D	3.20
40	KHERI	DHAURAHRA	S-NPP	81.13306	28.00289	13:54:00	D	6.20
41	KHERI	MOHMADI	S-NPP	80.28521	28.06642	13:54:00	D	3.10
42	KHERI	PALIA KALAN	S-NPP	80.71362	28.38609	13:54:00	D	2.80
43	KHERI	PALIA KALAN	S-NPP	80.49244	28.42008	13:54:00	D	4.70
44	MAHARAJGANJ	NICHLAUL	S-NPP	83.70682	27.19869	12:12:00	D	3.30
45	MAHARAJGANJ	NICHLAUL	AQUA	83.63900	27.27300	13:40:00	D	15.60
46	MAHARAJGANJ	NICHLAUL	AQUA	83.64400	27.27300	13:40:00	D	17.00
47	MAHARAJGANJ	NICHLAUL	AQUA	83.67600	27.31500	13:40:00	D	13.80
48	MATHURA	CHHATA	S-NPP	77.39879	27.69866	13:54:00	D	2.70
49	MORADABAD	MORADABAD	S-NPP	78.93304	29.10163	13:54:00	D	2.50
50	MORADABAD	MORADABAD	S-NPP	78.93639	29.10191	13:54:00	D	3.30
51	MUZAFARNAGAR	BUDHANA	AQUA	77.42900	29.34900	13:40:00	D	6.50
52	PILHIBHIT	PILHIBHIT	S-NPP	79.91636	28.58015	02:36:00	N	0.50
53	PILHIBHIT	PILHIBHIT	S-NPP	79.91403	28.58194	02:36:00	N	0.60
54	PILHIBHIT	PURANPUR	NOAA-18	80.25795	28.42143	20:39:00	N	11.00
55	PILHIBHIT	PURANPUR	S-NPP	80.16844	28.46907	02:36:00	N	0.60
56	RAMPUR	TANDA	AQUA	78.97700	29.11100	13:40:00	D	8.90
57	SHAHJAHANPUR	PUWANYA	S-NPP	80.25129	28.09118	13:54:00	D	1.60
58	SHAHJAHANPUR	PUWANYA	S-NPP	80.08508	28.15986	02:36:00	N	0.70
59	SHAHJAHANPUR	PUWANYA	S-NPP	80.09523	28.29212	02:36:00	N	0.50
60	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	79.68237	27.83322	13:54:00	D	4.30
61	SHAMLI	KAIRANA	S-NPP	77.16919	29.44663	13:54:00	D	6.10
62	SHARANPUR	DEOBAND	AQUA	77.63500	29.66200	13:40:00	D	5.30
63	SHARANPUR	DEOBAND	S-NPP	77.72955	29.73392	13:54:00	D	6.70
64	SHARANPUR	DEOBAND	AQUA	77.62000	29.86300	13:40:00	D	6.70

The study used images received from following Satellites at IARI Satellite Ground Station

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375 / 1000	Both
2.	Terra	MODIS	1000	Both
3.	Aqua	MODIS	1000	Both
4.	NOAA – 18	AVHRR	1000	Night
5.	NOAA – 19	AVHRR	1000	Night
6.	Metop - 1	AVHRR	1000	Night
7.	Metop - 2	AVHRR	1000	Night

Study Team

ICAR – HQ	Dr K. Alagusundaram	DDG (AG. ENGG.)	ddgengg@icar.org.in
	Dr S. Bhasker	ADG (NRM)	adgagroandaf@gmail.com
	Dr K.K. Singh	ADG (AG. ENGG)	kanchansingh044@gmail.com
ICAR - IARI	Dr V.K. Sehgal	Professor & Nodal Scientist	iaricreams@gmail.com
	Dr Rajkumar Dhakar	Scientist	raidhakar.iari@gmail.com
	Mr Rakeswer Verma	Chief Technical Officer	rakeshwar.verma@icar.gov.in
	Mr Mohd Jahangir	Lab Assistant (KRISHI)	mjahangir198@gmail.com
ICAR - ATARI	Dr Rajbir Singh	Director ATARI (Zone-I) Ludhiana	rajbirsingh.zpd@gmail.com
	Dr S.K. Singh	Director ATARI (Zone-II) Jodhpur	sushilsinghiipr@yahoo.co.in
	Dr Atar Singh	Director ATARI (Zone-III) Kanpur	zpdicarkanpur@gmail.com
ICAR - IASRI	Dr Rajender Parsad	Principal Scientist	rajender.parsad@icar.gov.in

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)
