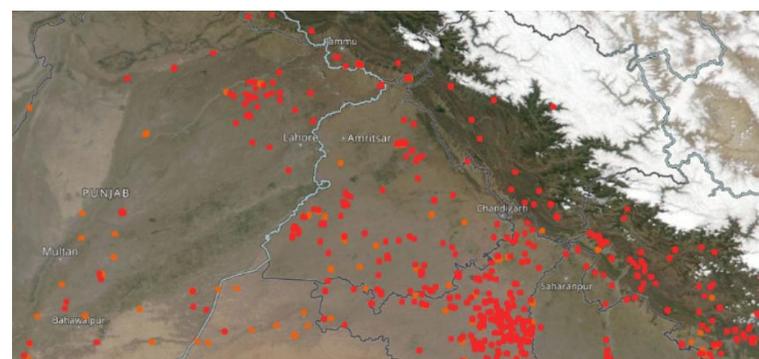


MONITORING WHEAT RESIDUE BURNING IN PUNJAB USING GEOSPATIAL TECHNOLOGIES 2024



Prepared By:
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for
Punjab Pollution Control Board, Patiala, Punjab



Highlights for 02 May 2024

- The active fire incidents 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" developed on the directions of "Commission for Air Quality Management in National Capital Region and Adjoining Areas".
- Satellites detected **172** incidents in the Punjab State on 02 May 2024.

District-wise Active Fire Events in Punjab

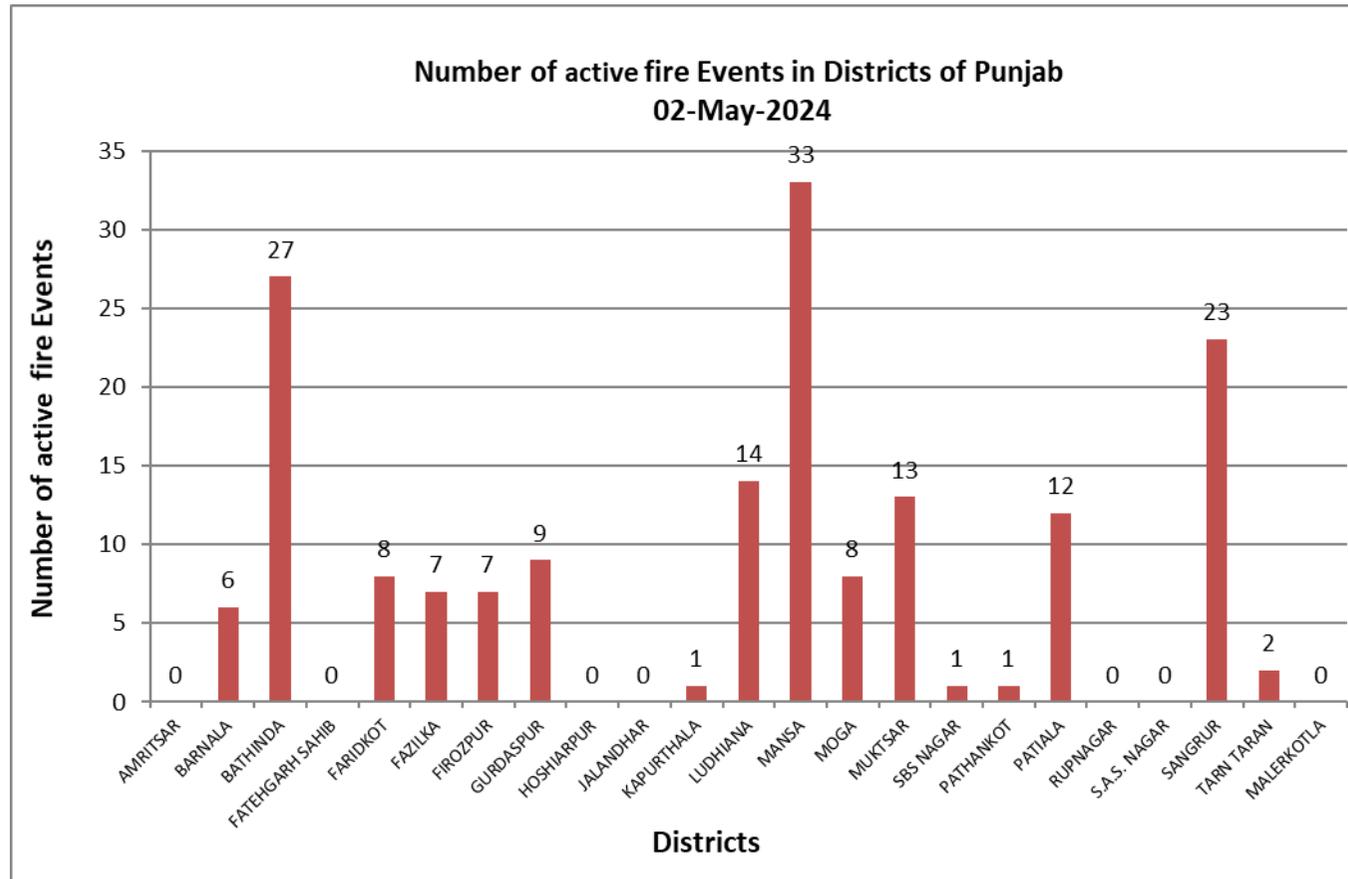


Fig. 1. District-wise fire incidents (Total events = 172) captured by Satellite in Punjab on 02 May 2024

On May, 02 2024, 172 active fire incidents were captured by the Satellite in state of Punjab.

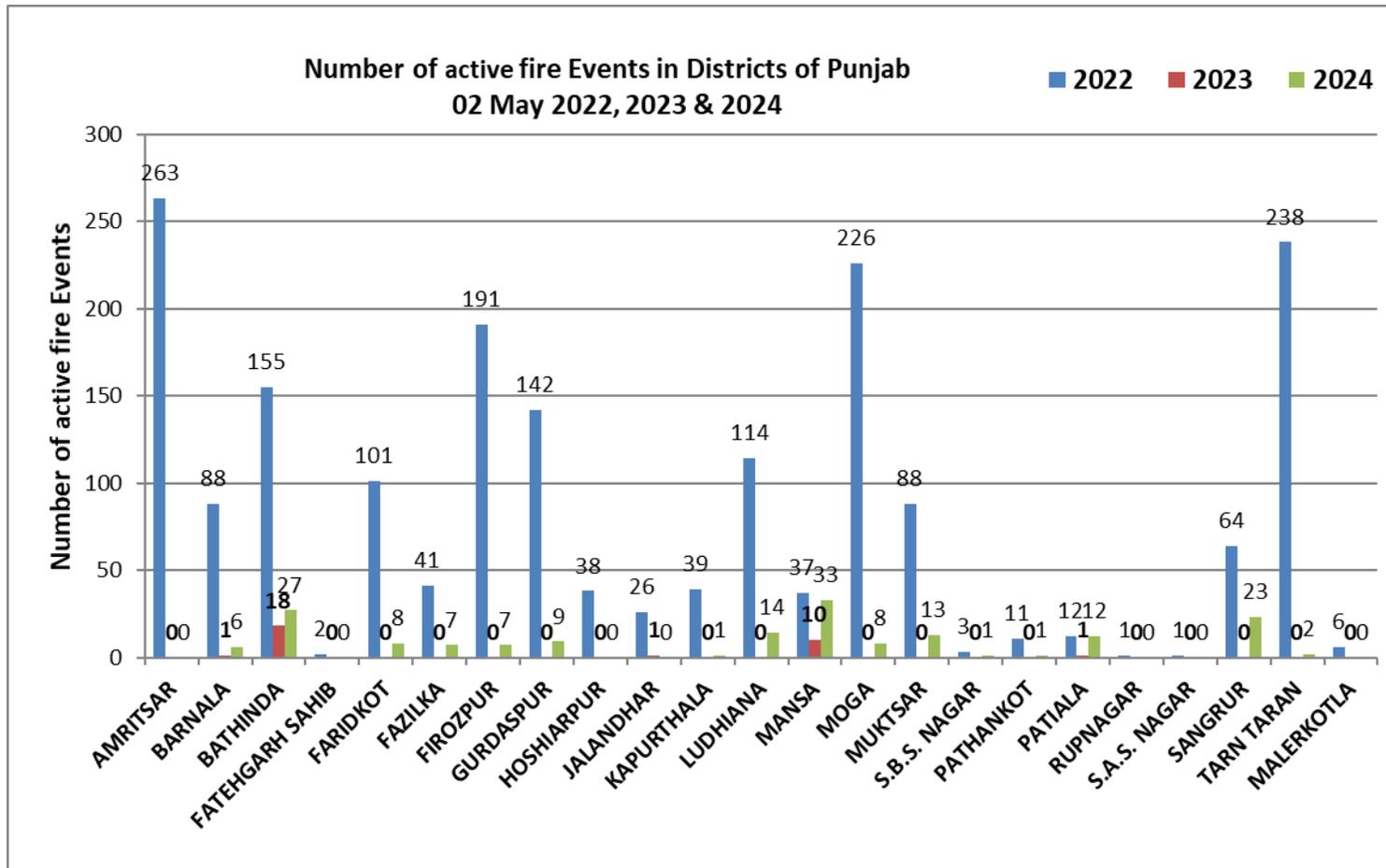


Fig 2 : District-wise comparison of fire incidents captured in Punjab on 02 May 2022, 2023 & 2024

On May, 02 2024, 172 active fire events were captured by the Satellite in state of Punjab. Whereas on the same day (i.e. May 02), in the year 2022, 1887 active fire events were captured and in the year 2023 there were 31 active fire events in state of Punjab.

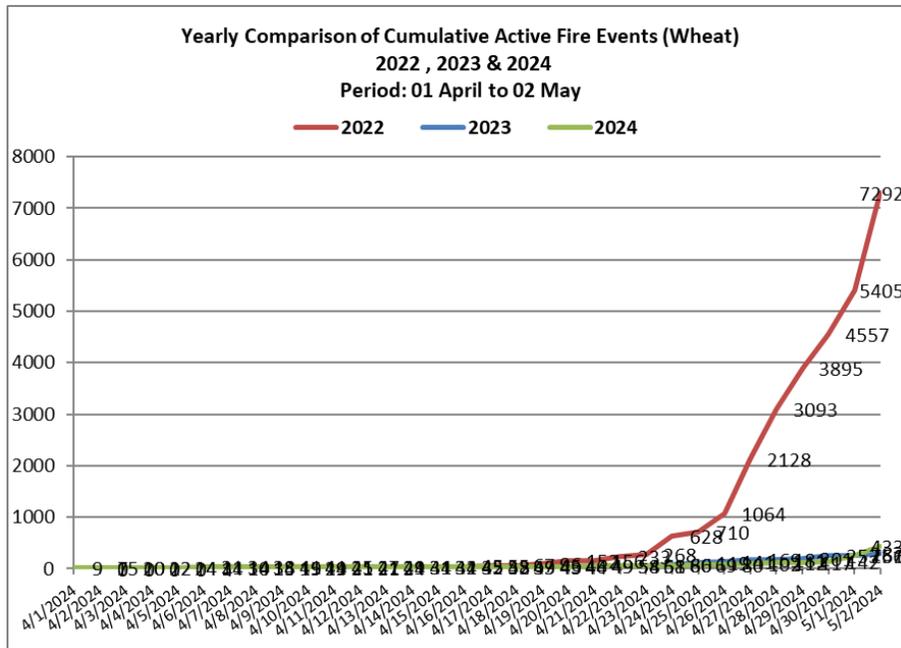


Fig 3 : Cumulative fire incidents captured in Punjab upto 02 May 2022, 2023 & 2024

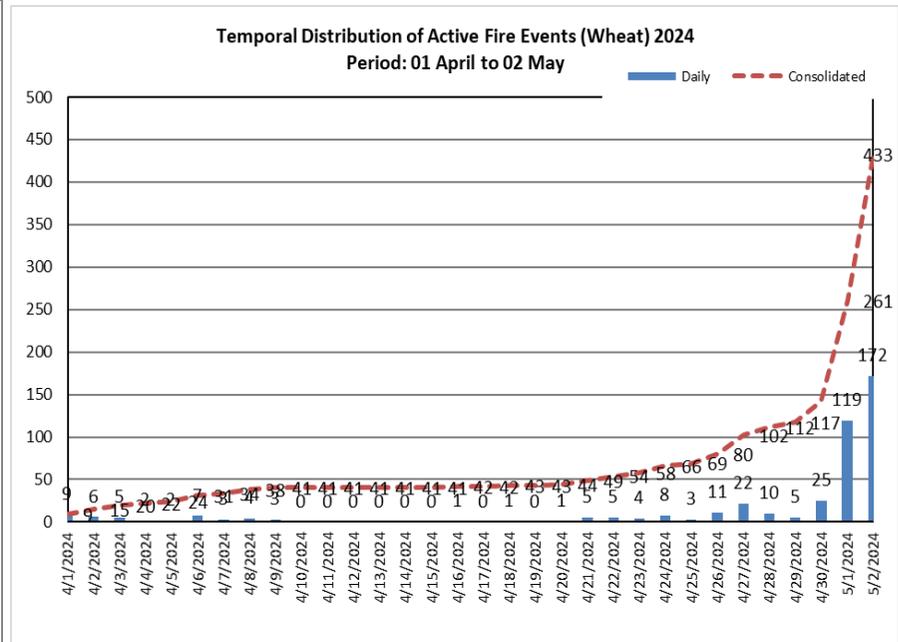
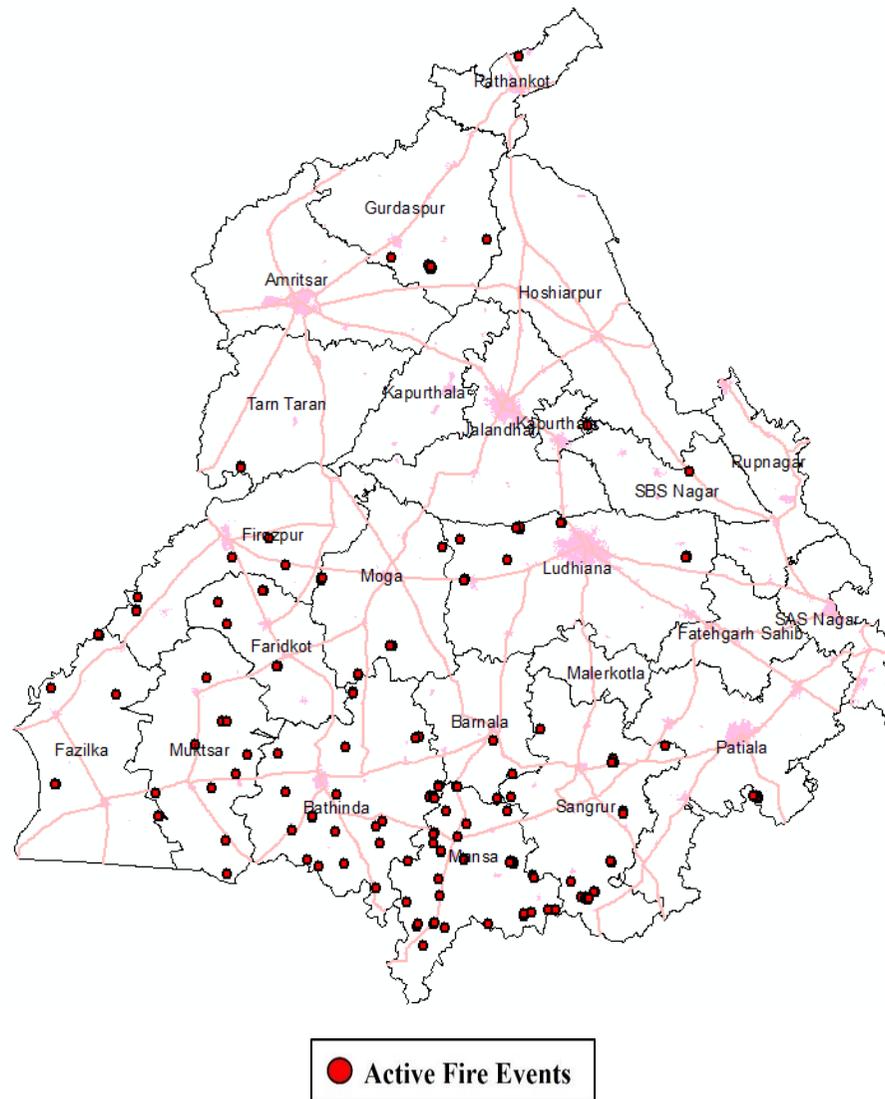


Fig 4: Date-wise Cumulative fire incidents captured in Punjab upto 02 May 2024



Map.1. Active fire locations detected in Punjab on 02 May 2024 by Satellite

Table.1. Active fire locations detected in Punjab on 02 May 2024 by Satellite

S.N.	Latitude	Longitude	Detection_Confidence	Radiative_power (W/m2)	sat	Acq-date	acqtime	District	Tehsil	Block	Village	Hadbast No	Thana
1	30.328110	75.540550	8	2.7	npp	5/2/2024	12:45:18 PM	Barnala	Barnala	Barnala	Handiayad	58	Sadar Barnala
2	30.227870	75.606230	8	6.4	npp	5/2/2024	12:45:18 PM	Barnala	Tapa	Barnala	Kuba	73	Dhanaula Barnala
3	30.191660	75.410030	8	5.4	npp	5/2/2024	12:45:18 PM	Barnala	Tapa	Barnala	PakhoKalan	53	Rureke Kalan Barnala
4	30.192630	75.414020	8	6.6	npp	5/2/2024	12:45:18 PM	Barnala	Tapa	Barnala	PakhoKalan	53	Rureke Kalan Barnala
5	30.157800	75.552840	8	4.7	npp	5/2/2024	12:45:18 PM	Barnala	Tapa	Barnala	Rajia	79	Dhanaula Barnala
6	30.156440	75.551700	8	3.7	npp	5/2/2024	12:45:18 PM	Barnala	Tapa	Barnala	Rajia	79	Dhanaula Barnala
7	30.171190	74.996240	8	3.0	npp	5/2/2024	12:45:18 PM	Bathinda	Bathinda	Bathinda	PhusMandi	60	Cantt Bathinda
8	30.175920	74.824120	8	4.1	npp	5/2/2024	12:45:18 PM	Bathinda	Bathinda	Bathinda	Teona	4	Nandgarh Bathinda
9	30.291950	74.793830	8	4.3	npp	5/2/2024	2:25:35 PM	Bathinda	Bathinda	GonianaMandi	Ablu	174	Nehianwala Bathinda
10	30.309970	75.029660	9	14.2	npp	5/2/2024	2:25:35 PM	Bathinda	Bathinda	Nathana	Gobindpura	176	Nathana Bathinda
11	30.099400	74.913500	8	4.0	npp	5/2/2024	12:45:18 PM	Bathinda	Bathinda	Sangat	Mehta	94	Sangat Bathinda
12	30.102890	74.912840	9	8.7	npp	5/2/2024	12:45:18 PM	Bathinda	Bathinda	Sangat	Mehta	94	Sangat Bathinda
13	30.474020	75.055600	8	5.4	npp	5/2/2024	2:25:35 PM	Bathinda	Rampura	BhagtaBhaiKa	SiryeWala	183	Dialpura Bathinda

									Phul				
14	30.472730	75.057450	8	6.8	npp	5/2/2024	2:25:35 PM	Bathinda	Rampura Phul	Bhagta Bhai Ka	Sirye Wala	183	Dialpura Bathinda
15	30.340000	75.284000	63	8.1	mod	5/2/2024	2:04:00 PM	Bathinda	Rampura Phul	Phul	Dhingar	445	Phul Bathinda
16	30.339000	75.273000	73	14.3	mod	5/2/2024	2:04:00 PM	Bathinda	Rampura Phul	Phul	Phul	72	Sadar Rampura Bathinda
17	30.194080	75.348660	8	8.3	npp	5/2/2024	2:25:35 PM	Bathinda	Rampura Phul	Rampura	Chowk ey	450	Sadar Rampura Bathinda
18	30.166280	75.323770	8	6.1	npp	5/2/2024	2:25:35 PM	Bathinda	Rampura Phul	Rampura	Chowk ey	450	Sadar Rampura Bathinda
19	30.162660	75.320520	8	4.1	npp	5/2/2024	2:25:35 PM	Bathinda	Rampura Phul	Rampura	Chowk ey	450	Sadar Rampura Bathinda
20	30.190940	75.352020	9	11.8	npp	5/2/2024	2:25:35 PM	Bathinda	Rampura Phul	Rampura	Chowk ey	450	Sadar Rampura Bathinda
21	30.161350	75.333140	9	7.2	npp	5/2/2024	12:45:18 PM	Bathinda	Rampura Phul	Rampura	Chowk ey	450	Sadar Rampura Bathinda
22	30.155980	75.334850	9	5.2	npp	5/2/2024	12:45:18 PM	Bathinda	Rampura Phul	Rampura	Pirkote	451	Sadar Rampura Bathinda
23	30.089020	75.157840	8	3.4	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Maur	Bhai Bakthur	24	Kotfatta Bathinda
24	30.071970	75.136440	8	5.1	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi	Maur	Jodhpur	27	Kotfatta Bathinda

									Sabo		Pakhar		
25	29.971510	75.242260	8	5.6	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Maur	Kamalu	87	Maur Bathinda
26	29.971100	75.242600	8	2.1	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Maur	Kamalu	87	Maur Bathinda
27	30.060390	74.843970	8	3.2	npp	5/2/2024	2:25:35 PM	Bathinda	Talwandi Sabo	Sangat	Gurthary	112	Sangat Bathinda
28	29.973660	74.896100	8	3.2	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Sangat	Sekhu	117	Raman Bathinda
29	29.892070	75.133190	8	4.2	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Talwandi Sabo	Behman Kaur	134	Talwandi Sabo Bathinda
30	29.963760	75.024000	8	1.7	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Talwandi Sabo	Jajjal	35	Raman Bathinda
31	30.060370	74.995200	8	4.2	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Talwandi Sabo	Kaile Bander	56	Talwandi Sabo Bathinda
32	30.024240	75.149670	8	3.4	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Talwandi Sabo	Sekhpu ra	29	Talwandi Sabo Bathinda
33	29.953560	74.935160	8	4.3	npp	5/2/2024	12:45:18 PM	Bathinda	Talwandi Sabo	Talwandi Sabo	Tarkhanwala	118	Raman Bathinda
34	30.776510	74.740390	8	6.0	npp	5/2/2024	2:25:35 PM	Faridkot	Faridkot	Faridkot	Hardialiana	5	Sadar Fairdkot
35	30.776840	74.746540	8	7.0	npp	5/2/2024	2:25:35 PM	Faridkot	Faridkot	Faridkot	Hardialiana	5	Sadar Fairdkot

36	30.776380	74.743380	8	6.9	npp	5/2/2024	2:25:35 PM	Faridkot	Faridkot	Faridkot	Hardialiana	5	Sadar Fairdkot
37	30.742370	74.587600	8	3.8	npp	5/2/2024	12:45:18 PM	Faridkot	Faridkot	Faridkot	Janerian	49	Sadiq Faridkot
38	30.675190	74.618550	8	4.4	npp	5/2/2024	12:45:18 PM	Faridkot	Faridkot	Faridkot	Sher Singh	62	Sadar Fairdkot
39	30.551860	74.795240	8	6.4	npp	5/2/2024	2:25:35 PM	Faridkot	Faridkot	Kot Kapura	Kot Kapura	129	City Kotkapura Faridkot
40	30.551540	74.789090	8	6.4	npp	5/2/2024	2:25:35 PM	Faridkot	Faridkot	Kot Kapura	Vara Daraka	107	Sadar Kotkapura Faridkot
41	30.551300	74.792150	9	12.1	npp	5/2/2024	2:25:35 PM	Faridkot	Faridkot	Kot Kapura	Vara Daraka	107	Sadar Kotkapura Faridkot
42	30.197550	74.032290	8	4.8	npp	5/2/2024	12:45:18 PM	Fazilka	Abohar	Khuian Sarwar	Dane Wala	124	Khui Khera Fazilka
43	30.196330	74.027510	9	4.8	npp	5/2/2024	12:45:18 PM	Fazilka	Abohar	Khuian Sarwar	Dane Wala	124	Khui Khera Fazilka
44	30.484330	74.011130	8	3.3	npp	5/2/2024	2:25:35 PM	Fazilka	Fazilka	Fazilka	Hasta Kalan	298	Sadar Fazilka
45	30.641510	74.176670	8	7.6	npp	5/2/2024	2:25:35 PM	Fazilka	Jalalabad	Jalalabad	Parbat Singh Uttarh	347	Sadar Jalalabad
46	30.638850	74.174450	8	5.0	npp	5/2/2024	2:25:35 PM	Fazilka	Jalalabad	Jalalabad	Parbat Singh Uttarh	347	Sadar Jalalabad
47	30.645110	74.174040	8	3.5	npp	5/2/2024	2:25:35 PM	Fazilka	Jalalabad	Jalalabad	Parbat Singh Uttarh	347	Sadar Jalalabad
48	30.465220	74.236950	9	8.9	npp	5/2/2024	2:25:35 PM	Fazilka	Jalalabad	Jalalabad	Saryan	223	Vairo Ke Fazilka

49	30.876440	74.636620	8	4.3	npp	5/2/2024	12:45:18 PM	Firozpur	Firozpur	Firozpur	Nurpur	213	Kulgarhi Ferozepur
50	30.854100	74.822760	8	6.1	npp	5/2/2024	12:45:18 PM	Firozpur	Firozpur	Ghall Khurd	Ghall Khurd	193	Ghall Khurd Ferozepur
51	30.932050	74.765160	8	2.5	npp	5/2/2024	12:45:18 PM	Firozpur	Firozpur	Ghall Khurd	Sodhinagar Urf	149	Ghall Khurd Ferozepur
52	30.755620	74.307250	8	4.8	npp	5/2/2024	2:25:35 PM	Firozpur	Guru Har Sahai	Guruhar Sahai	Chak Chhanga	308	Guru Harsahai Ferozepur
53	30.719020	74.303080	8	7.7	npp	5/2/2024	12:45:18 PM	Firozpur	Guru har Sahai	Guruhar Sahai	Panje Ke	294	Guru Harsahai Ferozepur
54	30.713420	74.304960	9	7.7	npp	5/2/2024	12:45:18 PM	Firozpur	Guru har Sahai	Guruhar Sahai	Panje Ke	294	Guru Harsahai Ferozepur
55	30.714200	74.305270	9	16.0	npp	5/2/2024	12:45:18 PM	Firozpur	Guru har Sahai	Guruhar Sahai	Panje Ke	294	Guru Harsahai Ferozepur
56	31.768960	75.190500	8	3.0	npp	5/2/2024	12:45:18 PM	Gurdaspur	Batala	Batala	Nath Wal	124	Rangar Nangal, Batala
57	31.738850	75.325450	8	29.7	npp	5/2/2024	2:25:35 PM	Gurdaspur	Batala	Qadian	Dhira	162	Ghuman, Batala
58	31.745570	75.325130	8	29.7	npp	5/2/2024	2:25:35 PM	Gurdaspur	Batala	Qadian	Dhira	162	Ghuman, Batala
59	31.741510	75.323690	8	22.7	npp	5/2/2024	2:25:35 PM	Gurdaspur	Batala	Qadian	Dhira	162	Ghuman, Batala
60	31.745000	75.319000	69	6.9	mod	5/2/2024	2:04:00 PM	Gurdaspur	Batala	Qadian	Dhira	162	Ghuman, Batala
61	31.739150	75.332320	9	29.7	npp	5/2/2024	2:25:35 PM	Gurdaspur	Batala	Sri Hargobi	Kohali	163	Ghuman, Batala

										ndpur			
62	31.735030	75.330890	9	38.1	npp	5/2/2024	2:25:35 PM	Gurdaspur	Batala	Sri Hargobindpur	Kohali	163	Ghuman, Batala
63	31.741760	75.330560	9	38.1	npp	5/2/2024	2:25:35 PM	Gurdaspur	Batala	Sri Hargobindpur	Kohali	163	Ghuman, Batala
64	31.822780	75.524070	8	2.7	npp	5/2/2024	12:45:18 PM	Gurdaspur	Gurdaspur	Kahnuwan	Miani Malah	539	Bhaini Mian Khan Gurdaspur
65	31.268000	75.875000	78	13.4	mod	5/2/2024	2:04:00 PM	Kapurthala	Phagwara	Phagwara	Manak	34	Rawalpindi, Kapurthala
66	30.811190	75.444490	8	3.9	npp	5/2/2024	2:25:35 PM	Ludhiana	Jagraon	Jagraon	Ag Gujran	126	City Jagraon Ludhiana Rural
67	30.806550	75.441950	8	4.5	npp	5/2/2024	2:25:35 PM	Ludhiana	Jagraon	Jagraon	Ag Gujran	126	City Jagraon Ludhiana Rural
68	30.959020	75.637040	8	6.1	npp	5/2/2024	2:25:35 PM	Ludhiana	Jagraon	Sidhwan Bet	Ghama newal	6	Dakha Ludhiana Rural
69	30.962000	75.636000	98	66.4	mod	5/2/2024	2:04:00 PM	Ludhiana	Jagraon	Sidhwan Bet	Ghama newal	6	Dakha Ludhiana Rural
70	30.927360	75.429320	8	4.3	npp	5/2/2024	2:25:35 PM	Ludhiana	Jagraon	Sidhwan Bet	Malshian Bajan	31	Sidhwan Bet Ludhiana Rural
71	30.965830	75.636710	8	6.1	npp	5/2/2024	2:25:35 PM	Ludhiana	Jagraon	Sidhwan Bet	Maniawal	7	Dakha Ludhiana

													Rural
72	30.868250	75.591260	8	3.9	npp	5/2/2024	12:45:18 PM	Ludhiana	Jagraon	Sidhwan Bet	Sawadi Kalan	71	Sidhwan Bet Ludhiana Rural
73	30.961000	75.625000	86	29.0	mod	5/2/2024	2:04:00 PM	Ludhiana	Jagraon	Sidhwan Bet	Walipur Khurd	9	Dakha Ludhiana Rural
74	30.975280	75.781560	9	13.9	npp	5/2/2024	12:45:18 PM	Ludhiana	Ludhiana West	Ludhiana 2	Bonker Dogra	109	Ladowal Ludhiana City
75	30.975070	75.781060	9	7.0	npp	5/2/2024	12:45:18 PM	Ludhiana	Ludhiana West	Ludhiana 2	Bonker Dogra	109	Ladowal Ludhiana City
76	30.976000	75.779000	82	23.1	mod	5/2/2024	2:04:00 PM	Ludhiana	Ludhiana West	Ludhiana 2	Bonker Dogra	109	Ladowal Ludhiana City
77	30.873410	76.214290	8	5.7	npp	5/2/2024	12:45:18 PM	Ludhiana	Samrala	Machhiwara	Urna	93	Machhiwara Khanna
78	30.870760	76.215960	8	9.6	npp	5/2/2024	12:45:18 PM	Ludhiana	Samrala	Machhiwara	Urna	93	Machhiwara Khanna
79	30.869930	76.212470	9	8.5	npp	5/2/2024	12:45:18 PM	Ludhiana	Samrala	Machhiwara	Urna	93	Machhiwara Khanna
80	29.968630	75.599780	8	9.0	npp	5/2/2024	2:25:35 PM	Mansa	Budhlada	Budhlada	Bachhona	220	Sadar Budhlada Mansa
81	29.962210	75.606900	8	10.9	npp	5/2/2024	2:25:35 PM	Mansa	Budhlada	Budhlada	Bachhona	220	Sadar Budhlada Mansa
82	29.964170	75.607060	8	6.7	npp	5/2/2024	2:25:35 PM	Mansa	Budhlada	Budhlada	Bachhona	220	Sadar Budhlada Mansa

83	29.963890	75.600270	8	6.7	npp	5/2/2024	2:25:35 PM	Mansa	Budhlada	Budhlada	Bachhona	220	Sadar Budhlada Mansa
84	29.965000	75.593000	73	14.4	mod	5/2/2024	2:04:00 PM	Mansa	Budhlada	Budhlada	Bachhona	220	Sadar Budhlada Mansa
85	29.805000	75.644000	71	11.1	mod	5/2/2024	2:04:00 PM	Mansa	Budhlada	Budhlada	Bhawa	155	Bareta Mansa
86	29.814000	75.642000	67	9.0	mod	5/2/2024	2:04:00 PM	Mansa	Budhlada	Budhlada	Dharm pura	161	Bareta Mansa
87	29.823060	75.725040	8	7.3	npp	5/2/2024	2:25:35 PM	Mansa	Budhlada	Budhlada	Kahang arh	176	Bareta Mansa
88	29.814430	75.669450	8	5.4	npp	5/2/2024	12:45:18 PM	Mansa	Budhlada	Budhlada	Kulrian	179	Bareta Mansa
89	29.784310	75.521160	8	3.2	npp	5/2/2024	12:45:18 PM	Mansa	Budhlada	Budhlada	Talabwala	149	Boha Mansa
90	30.079820	75.448200	8	3.7	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Bhikhi	Bhupal	16	Joga Mansa
91	30.119690	75.588660	8	2.3	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Bhikhi	Khiva Khurd	24	Bhikhi Mansa
92	29.915890	75.348360	8	6.6	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Jhunir	Kot Dharmu	111	Sadar Mansa
93	30.052550	75.334850	8	3.3	npp	5/2/2024	2:25:35 PM	Mansa	Mansa	Mansa	Bhaini Bagha	59	Sadar Mansa
94	30.049860	75.333270	8	5.1	npp	5/2/2024	2:25:35 PM	Mansa	Mansa	Mansa	Bhaini Bagha	59	Sadar Mansa
95	29.977120	75.438020	8	4.8	npp	5/2/2024	2:25:35 PM	Mansa	Mansa	Mansa	Chakerian	117	Sadar Mansa
96	29.974200	75.438200	8	3.7	npp	5/2/2024	2:25:35 PM	Mansa	Mansa	Mansa	Chakerian	117	Sadar Mansa
97	29.996870	75.357790	8	3.8	npp	5/2/2024	2:25:35 PM	Mansa	Mansa	Mansa	Khokhar	75	Sadar Mansa

											Kalan		
98	30.000240	75.357430	8	6.0	npp	5/2/2024	2:25:35 PM	Mansa	Mansa	Mansa	Khokhar Kalan	75	Sadar Mansa
99	30.022420	75.332060	8	3.3	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Mansa	Khokhar Kalan	75	Sadar Mansa
100	30.043280	75.416750	9	9.7	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Mansa	Malakpur	56	Sadar Mansa
101	30.120030	75.376750	8	2.5	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Mansa	Ubbah	62	Joga Mansa
102	30.119740	75.375000	8	3.3	npp	5/2/2024	12:45:18 PM	Mansa	Mansa	Mansa	Ubbah	62	Joga Mansa
103	29.865180	75.351620	9	12.2	npp	5/2/2024	12:45:18 PM	Mansa	Sardulgarh	Jhunir	Bhame Khurd	155	Jaurkian Mansa
104	29.770340	75.368520	8	4.1	npp	5/2/2024	12:45:18 PM	Mansa	Sardulgarh	Jhunir	Chaine wala	171	Jhunir Mansa
105	29.770550	75.368630	8	2.2	npp	5/2/2024	12:45:18 PM	Mansa	Sardulgarh	Jhunir	Chaine wala	171	Jhunir Mansa
106	29.784840	75.331810	8	7.6	npp	5/2/2024	2:25:35 PM	Mansa	Sardulgarh	Jhunir	Makhe Wala	165	Jhunir Mansa
107	29.787900	75.334470	8	8.3	npp	5/2/2024	2:25:35 PM	Mansa	Sardulgarh	Jhunir	Makhe Wala	165	Jhunir Mansa
108	29.847430	75.237370	8	4.9	npp	5/2/2024	12:45:18 PM	Mansa	Sardulgarh	Jhunir	Mian	97	Jaurkian Mansa
109	29.849010	75.237080	8	3.9	npp	5/2/2024	12:45:18 PM	Mansa	Sardulgarh	Jhunir	Mian	97	Jaurkian Mansa
110	29.775490	75.273990	8	3.0	npp	5/2/2024	2:25:35 PM	Mansa	Sardulgarh	Sardulgarh	Jatana Kalan	147	Sardulgarh Mansa
111	29.782410	75.280030	8	5.6	npp	5/2/2024	2:25:35 PM	Mansa	Sardulgarh	Sardulgarh	Jatana Kalan	147	Sardulgarh Mansa
112	29.71801	75.296700	8	3.2	npp	5/2/2024	12:45:1	Mansa	Sardulgarh	Sardulgarh	Mirpur	181	Sardulgarh

	0						8 PM		Igarh	rh	Kalan		Mansa
113	30.525870	75.071040	8	3.5	npp	5/2/2024	12:45:18 PM	Moga	Bagha Purana	Bagha Purana	Santu wala	124	Samalsar Moga
114	30.526890	75.075150	8	3.5	npp	5/2/2024	12:45:18 PM	Moga	Bagha Purana	Bagha Purana	Santu wala	124	Samalsar Moga
115	30.907310	75.363960	8	6.1	npp	5/2/2024	2:25:35 PM	Moga	Dharamkot	Kot Ise Khan At Dharamkot	Kishan pur Kalan	279	Dharamkot Moga
116	30.808500	74.945760	8	4.2	npp	5/2/2024	12:45:18 PM	Moga	Moga	Moga 2	Jhandi ana Garbi	69	Sadar Moga
117	30.813900	74.943990	8	17.0	npp	5/2/2024	12:45:18 PM	Moga	Moga	Moga 2	Jhandi ana Garbi	69	Sadar Moga
118	30.814920	74.948100	9	17.0	npp	5/2/2024	12:45:18 PM	Moga	Moga	Moga 2	Jhandi ana Garbi	69	Sadar Moga
119	30.613000	75.194000	62	7.9	mod	5/2/2024	2:04:00 PM	Moga	Nihal Singh	Bagha Purana	Manu Ke	105	Nihal Singh Wala Moga
120	30.611000	75.183000	63	8.1	mod	5/2/2024	2:04:00 PM	Moga	Nihal Singh	Bagha Purana	Manu Ke	105	Nihal Singh Wala Moga
121	30.385900	74.606800	8	5.9	npp	5/2/2024	12:45:18 PM	Muktsar	Gidderbaha	Kot Bhai At Gidderbaha	Doda	75	Kotbhai Sri Muktsar Sahib
122	30.384790	74.602420	8	5.9	npp	5/2/2024	12:45:18 PM	Muktsar	Gidderbaha	Kot Bhai At Gidderbaha	Doda	75	Kotbhai Sri Muktsar Sahib

123	30.386980	74.620970	9	11.6	npp	5/2/2024	2:25:35 PM	Muktsar	Gidderbaha	Kot Bhai At Gidderbaha	Doda	75	Kotbhai Sri Muktsar Sahib
124	30.188960	74.567340	9	9.3	npp	5/2/2024	2:25:35 PM	Muktsar	Gidderbaha	Kot Bhai At Gidderbaha	Fakkar sar	18	Gidderbaha Sri Muktsar Sahib
125	30.230660	74.651090	8	2.8	npp	5/2/2024	12:45:18 PM	Muktsar	Gidderbaha	Kot Bhai At Gidderbaha	Husnar	17	Gidderbaha Sri Muktsar Sahib
126	30.288080	74.689140	8	3.6	npp	5/2/2024	12:45:18 PM	Muktsar	Gidderbaha	Kot Bhai At Gidderbaha	Kot Bhai	10	Kotbhai Sri Muktsar Sahib
127	30.317680	74.508560	9	7.7	npp	5/2/2024	12:45:18 PM	Muktsar	Gidderbaha	Malout	Karani Wala	25	Sadar Malout Sri Muktsar Sahib
128	30.031460	74.614260	8	3.0	npp	5/2/2024	12:45:18 PM	Muktsar	Malout	Lambi	Bhagu	11	Lambi Sri Muktsar Sahib
129	30.103300	74.385680	8	6.7	npp	5/2/2024	12:45:18 PM	Muktsar	Malout	Lambi	Mahni Khera	52	Lambi Sri Muktsar Sahib
130	30.101980	74.382080	8	3.3	npp	5/2/2024	12:45:18 PM	Muktsar	Malout	Lambi	Mahni Khera	52	Lambi Sri Muktsar Sahib
131	29.932060	74.618980	8	6.0	npp	5/2/2024	2:25:35 PM	Muktsar	Malout	Lambi	Waring Khera	15	Lambi Sri Muktsar Sahib
132	30.17322	74.373440	8	2.8	npp	5/2/2024	12:45:1	Muktsar	Malo	Malout	Katian	117	Kabarwala

	0						8 PM		ut		Wali		Sri Muktsar Sahib
133	30.517660	74.547280	8	3.7	npp	5/2/2024	12:45:18 PM	Muktsar	Muktsar	Muktsar	Ude Karan	66	Sadar Sri Muktsar Sahib
134	32.369260	75.641810	8	6.6	npp	5/2/2024	12:45:18 PM	Pathankot	Pathankot	Sujanpur	Kamwali	363	Shahpur Kandi
135	30.159180	76.449860	8	8.0	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Durd	222	Julkan Patiala
136	30.154940	76.454930	8	8.0	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Durd	222	Julkan Patiala
137	30.150800	76.454790	8	1.7	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
138	30.149970	76.451300	8	1.7	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
139	30.149080	76.453000	8	1.3	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
140	30.154190	76.446280	9	20.5	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
141	30.155020	76.449760	9	13.6	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
142	30.153320	76.447940	9	14.4	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
143	30.155000	76.451000	74	14.4	mod	5/2/2024	2:04:00 PM	Patiala	Patiala	Bhunarheri	Mehmud Pur	223	Julkan Patiala
144	30.158420	76.441250	8	20.5	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Ulat Pur	224	Julkan Patiala
145	30.156760	76.439390	9	10.9	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Ulat Pur	224	Julkan Patiala
146	30.157590	76.437770	9	12.1	npp	5/2/2024	12:45:18 PM	Patiala	Patiala	Bhunarheri	Ulat Pur	224	Julkan Patiala
147	30.31000	76.135000	65	9.4	mod	5/2/2024	2:04:00	Sangrur	Bhaw	Bhawani	Bimber	22	Bhawaniga

	0						PM		anig rh	garh	i		rh Sangrur
148	30.36201 0	75.704090	8	2.0	npp	5/2/2024	12:45:1 8 PM	Sangrur	Dhuri	Sher Pur	Sultan pur	35	Sadar Dhuri Sangrur
149	29.96276 0	75.944150	8	2.8	npp	5/2/2024	12:45:1 8 PM	Sangrur	Dirba	Dirba	Hari Garh	150	Dirba Sangrur
150	29.96797 0	75.942530	9	15.0	npp	5/2/2024	12:45:1 8 PM	Sangrur	Dirba	Dirba	Hari Garh	150	Dirba Sangrur
151	30.11427 0	75.986760	8	0.7	npp	5/2/2024	1:36:00 AM	Sangrur	Dirba	Dirba	Khanal Kalan	122	Dirba Sangrur
152	30.10905 0	75.986190	8	0.7	npp	5/2/2024	1:36:00 AM	Sangrur	Dirba	Dirba	Khanal Khurd	121	Dirba Sangrur
153	29.92638 0	75.675830	8	3.9	npp	5/2/2024	12:45:1 8 PM	Sangrur	Lehra	Lehra Gaga	Daska	48	Lehra Sangrur
154	29.92108 0	75.677480	9	8.7	npp	5/2/2024	12:45:1 8 PM	Sangrur	Lehra	Lehra Gaga	Daska	48	Lehra Sangrur
155	29.82300 0	75.754000	75	15.5	mod	5/2/2024	2:04:00 PM	Sangrur	Lehra	Lehra Gaga	Kalia	79	Lehra Sangrur
156	29.86001 0	75.858990	8	6.9	npp	5/2/2024	12:45:1 8 PM	Sangrur	Lehra	Lehra Gaga	Lehal Kalan	75	Lehra Sangrur
157	29.90600 0	75.803000	69	11.0	mod	5/2/2024	2:04:00 PM	Sangrur	Lehra	Lehra Gaga	Rampu ra Jabalh arwala	73	Lehra Sangrur
158	29.86241 0	75.841160	8	3.8	npp	5/2/2024	2:25:35 PM	Sangrur	Moon ak	Lehra Gaga	Balram	82	Moonak Sangrur
159	29.85818 0	75.851350	8	4.6	npp	5/2/2024	12:45:1 8 PM	Sangrur	Moon ak	Lehra Gaga	Balram	82	Moonak Sangrur
160	29.85909 0	75.855160	9	6.9	npp	5/2/2024	12:45:1 8 PM	Sangrur	Moon ak	Lehra Gaga	Balram	82	Moonak Sangrur
161	29.87780 0	75.886200	8	5.0	npp	5/2/2024	12:45:1 8 PM	Sangrur	Moon ak	Lehra Gaga	Dehle	91	Moonak Sangrur

162	29.876890	75.882400	8	5.0	npp	5/2/2024	12:45:18 PM	Sangrur	Moonak	Lehra Gaga	Dehle	91	Moonak Sangrur
163	29.854760	75.860630	8	20.2	npp	5/2/2024	12:45:18 PM	Sangrur	Moonak	Lehra Gaga	Govind pura Papra	90	Moonak Sangrur
164	29.855670	75.864440	9	19.5	npp	5/2/2024	12:45:18 PM	Sangrur	Moonak	Lehra Gaga	Govind pura Papra	90	Moonak Sangrur
165	30.159000	75.600000	66	10.1	mod	5/2/2024	2:04:00 PM	Sangrur	Sangrur	Sangrur	Dhadrian	77	Longowal Sangrur
166	30.267840	75.951710	8	8.4	npp	5/2/2024	2:25:35 PM	Sangrur	Sangrur	Sangrur	Ghabdan	30	Sadar Sangrur
167	30.274720	75.951390	8	4.9	npp	5/2/2024	2:25:35 PM	Sangrur	Sangrur	Sangrur	Ghabdan	30	Sadar Sangrur
168	30.263000	75.958000	56	6.4	mod	5/2/2024	2:04:00 PM	Sangrur	Sangrur	Sangrur	Ghabdan	30	Sadar Sangrur
169	30.262000	75.948000	76	15.4	mod	5/2/2024	2:04:00 PM	Sangrur	Sangrur	Sangrur	Ghabdan	30	Sadar Sangrur
170	31.126880	76.228360	8	9.3	npp	5/2/2024	2:25:35 PM	SBS Nagar	Balachaur	Saroya	Mazari	169	Sadar Balachaur Sbs Nagar
171	31.145300	74.664730	8	4.6	npp	5/2/2024	12:45:18 PM	Tarn Taran	Patti	Valtoha	Ghazal	199	Khem Karan
172	31.144360	74.665340	8	4.2	npp	5/2/2024	12:45:18 PM	Tarn Taran	Patti	Valtoha	Ghazal	199	Khem Karan

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

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

The Wheat mask for the States was provided by MNCFC, MoA&FW, Govt. of India

GIS Maps of fire events can be visualized online on Crop Residue Burning (CRB) Information and Management System of **Punjab Remote Sensing Centre**, Ludhiana by following the link: <http://202.164.39.172/residue/Index.aspx>