



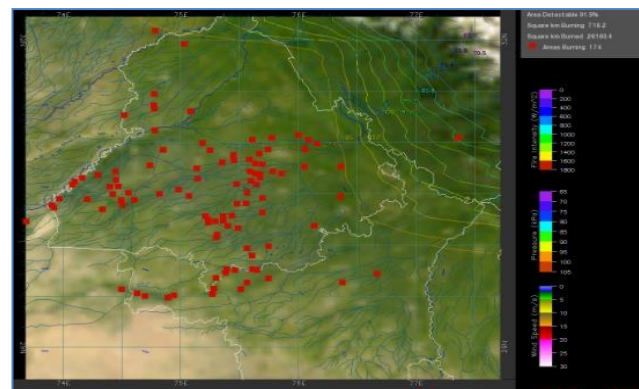
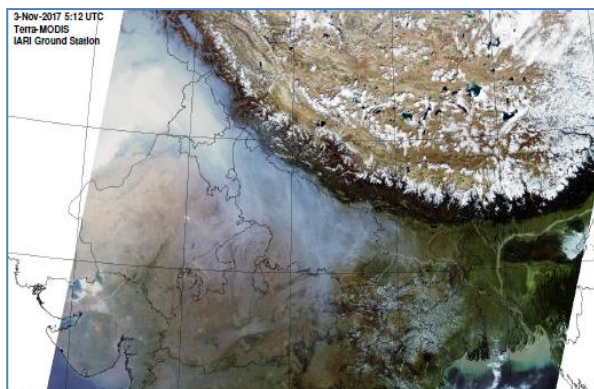
## Bulletin No. 42

Events Date:  
11-Nov-2019

Issued on:  
12-Nov-2019



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



Prepared by:

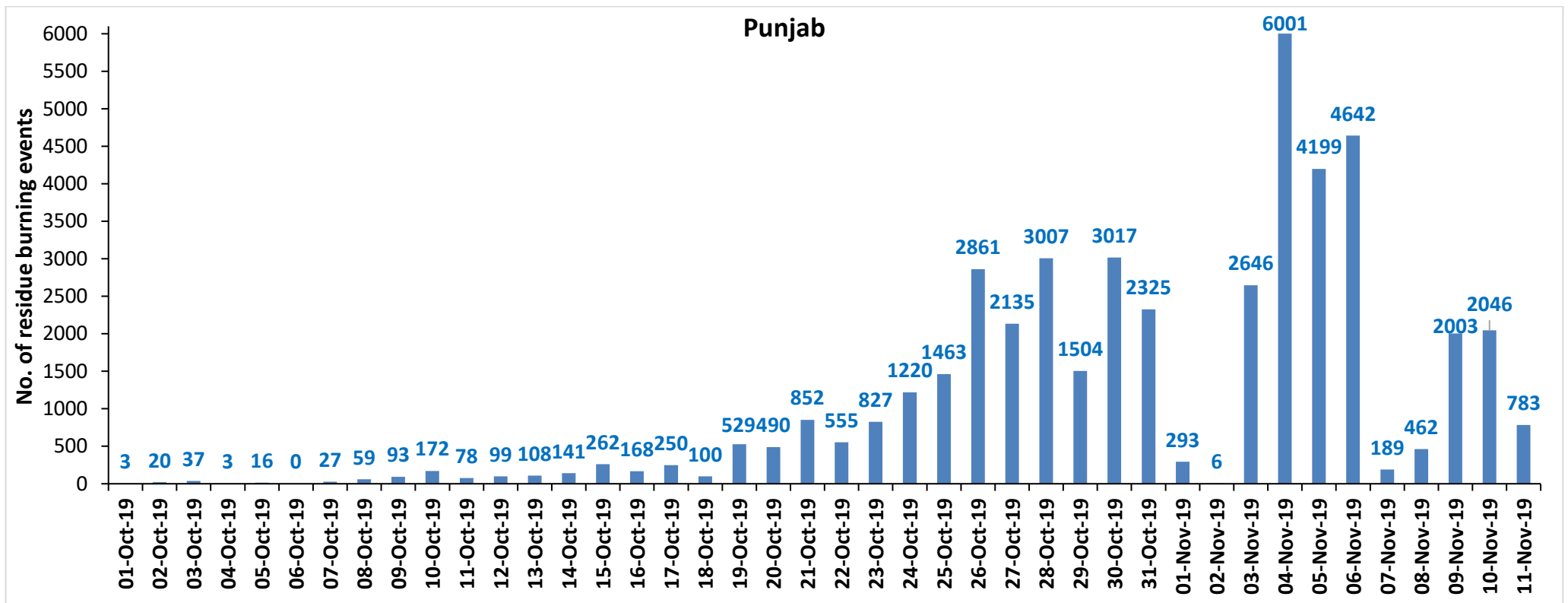
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,  
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

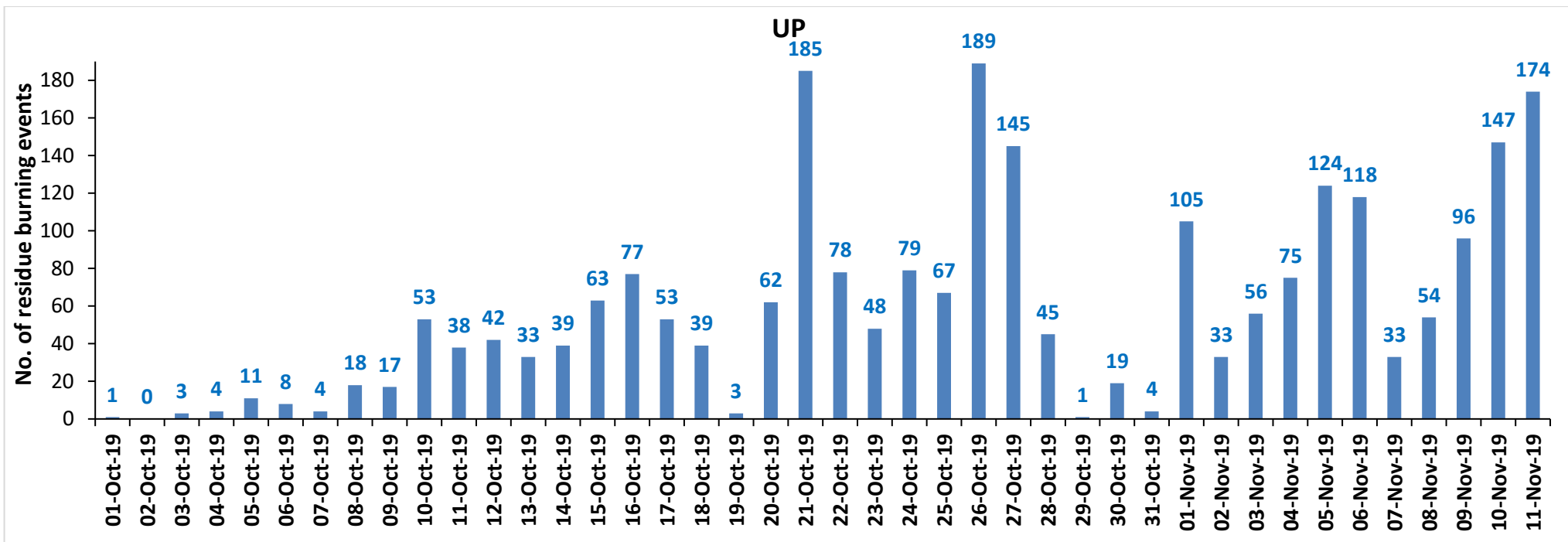
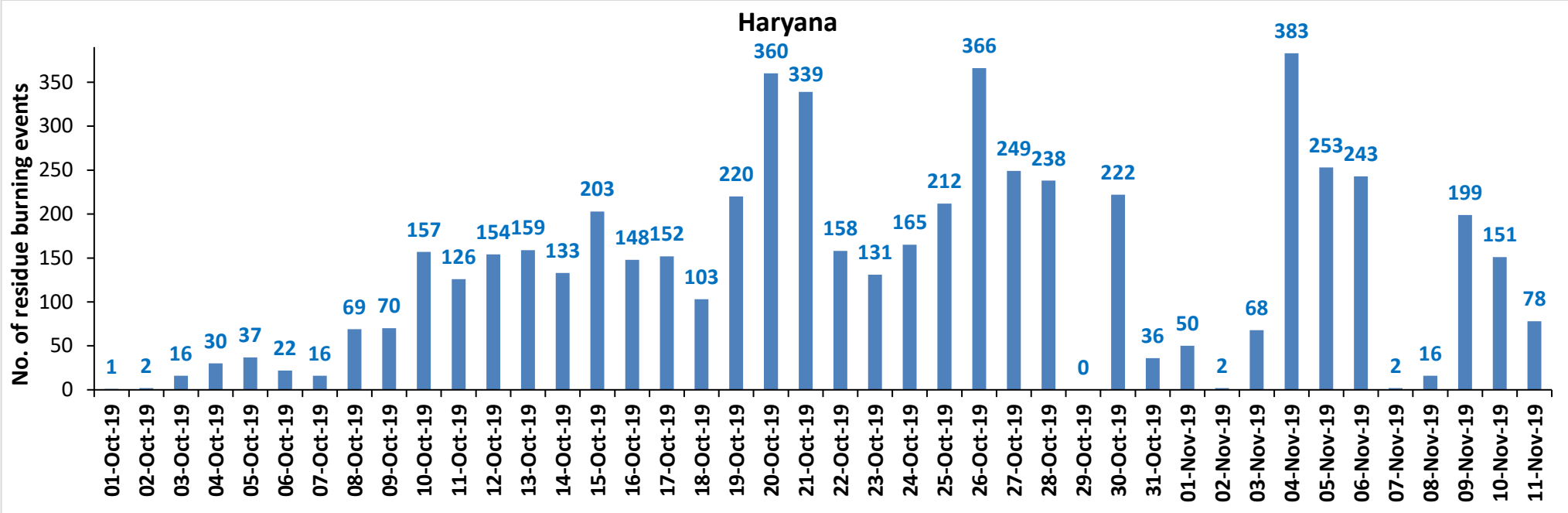
<http://creams.iari.res.in>

## Highlights for 11-November-2019

- Satellites detected **1035** residue burning events in the three study States on 11-Nov-2019.
- The burning events detected on **11-Nov-2019** are **783**, **78** and **174** in Punjab, Haryana and UP, respectively.
- The number of events has decreased from **2344** on **10-Nov-2019** to **1035** on **11-Nov-2019** in the three states.
- Total **53873** burning events were detected in the three States between **01-Oct-2019** and **11-Nov-2019**, which are distributed as **45691**, **5739** and **2443** in Punjab, Haryana and UP, respectively.
- Overall, the total burning events recorded in the three states are **9.2%** less than in 2018 till date. UP recorded **45.9%** reduction, Haryana recorded **14.2%** reduction, and Punjab recorded **5.1%** reduction, respectively, in the current season than in 2018.

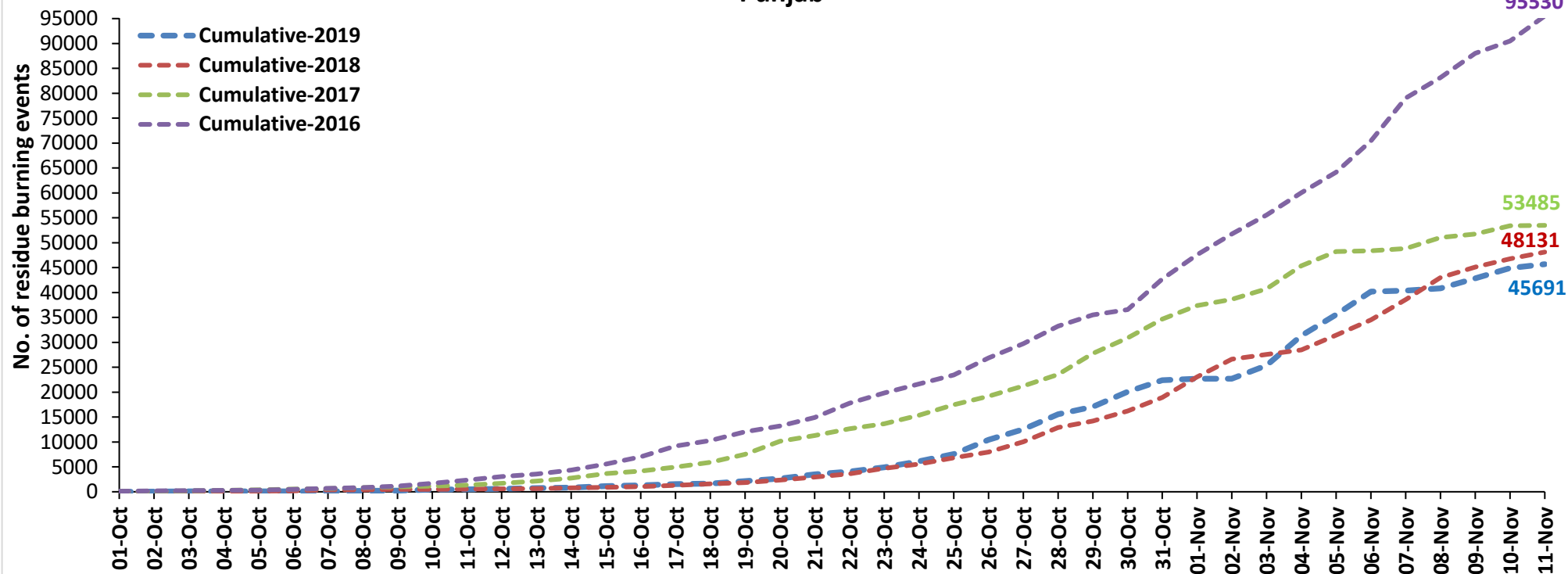
### Temporal distribution of residue burning events for the three study States in 2019



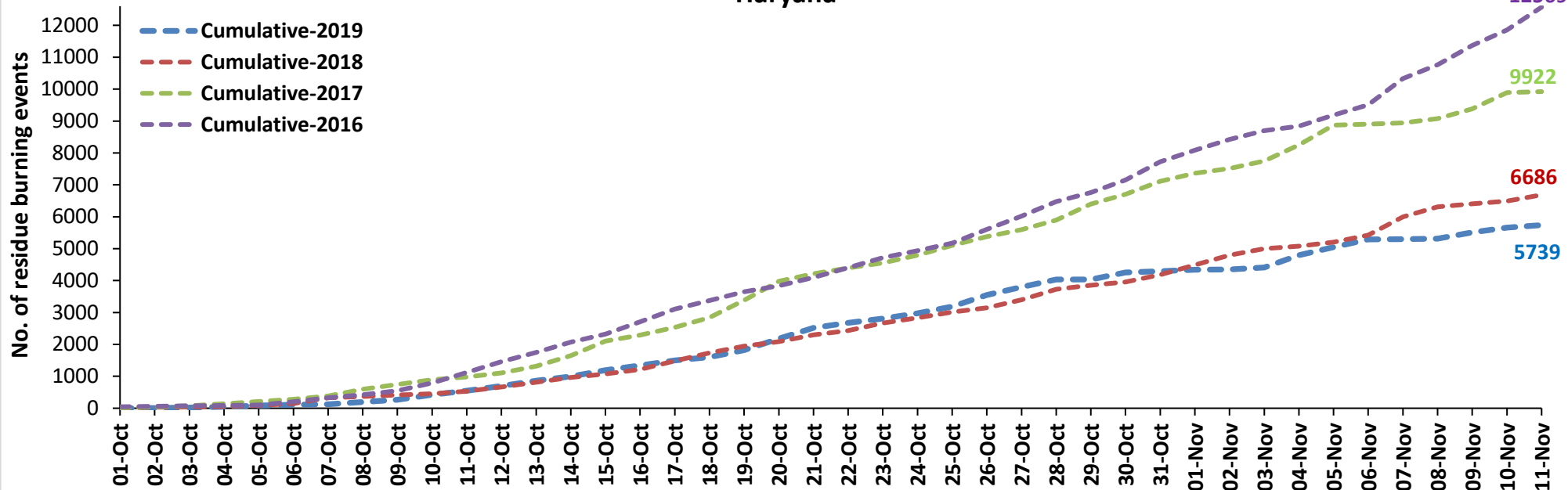


**Comparison of residue burning events in current year (2019) with previous years (2018, 2017 & 2016) for the three study States**  
**(01-Oct to 11-Nov)**

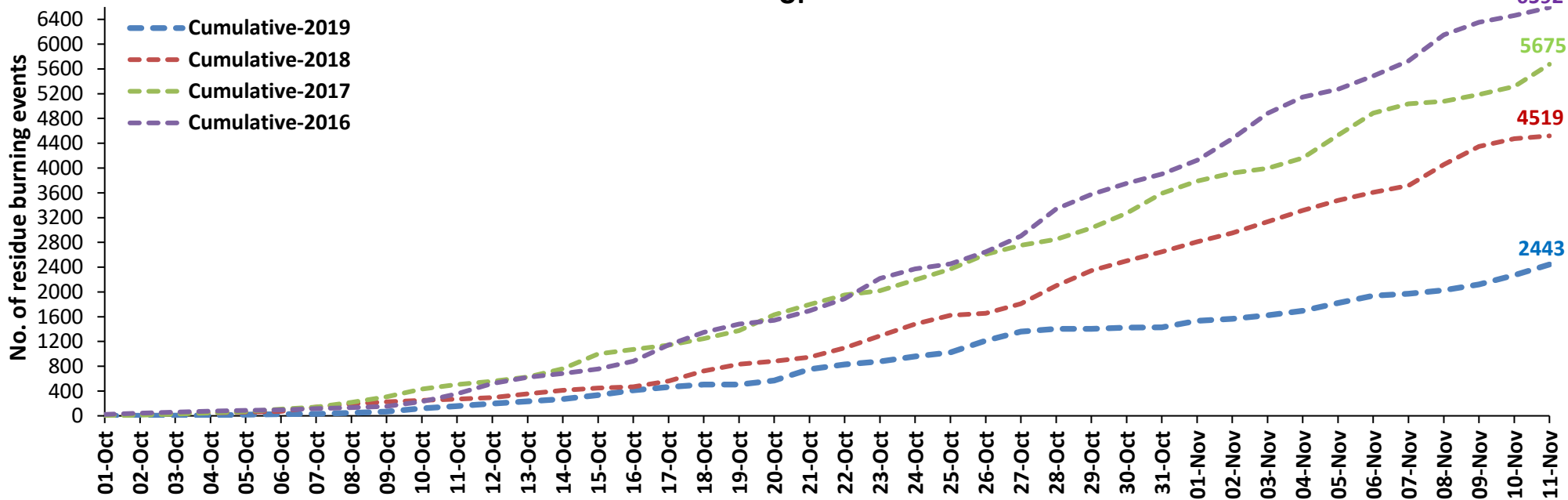
**Punjab**



### Haryana

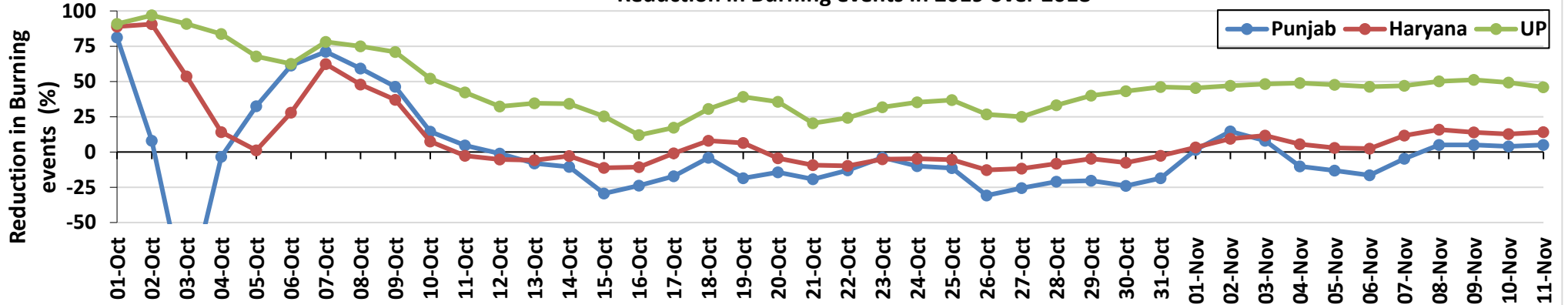


### UP

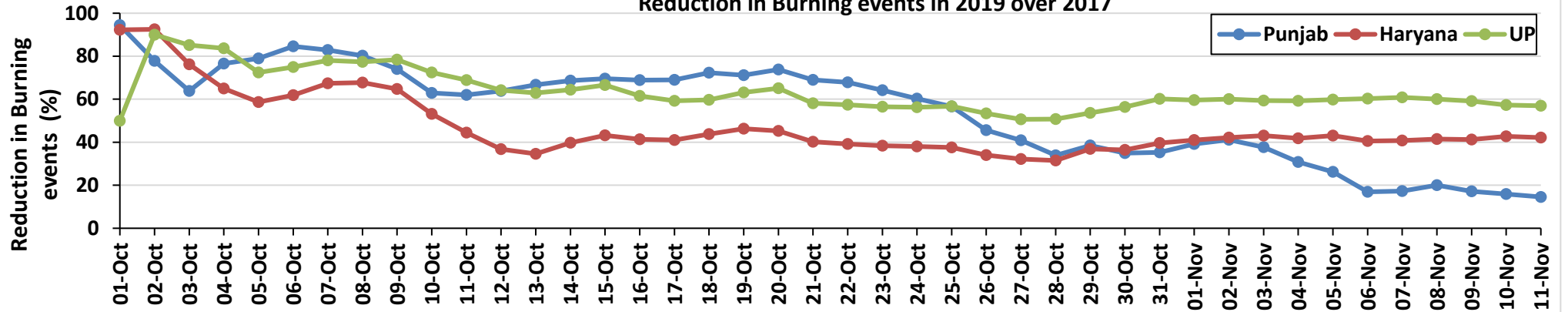


## Percent Reduction in Burning events in 2019 over 2018, 2017 and 2016 (Daily Cumulative)

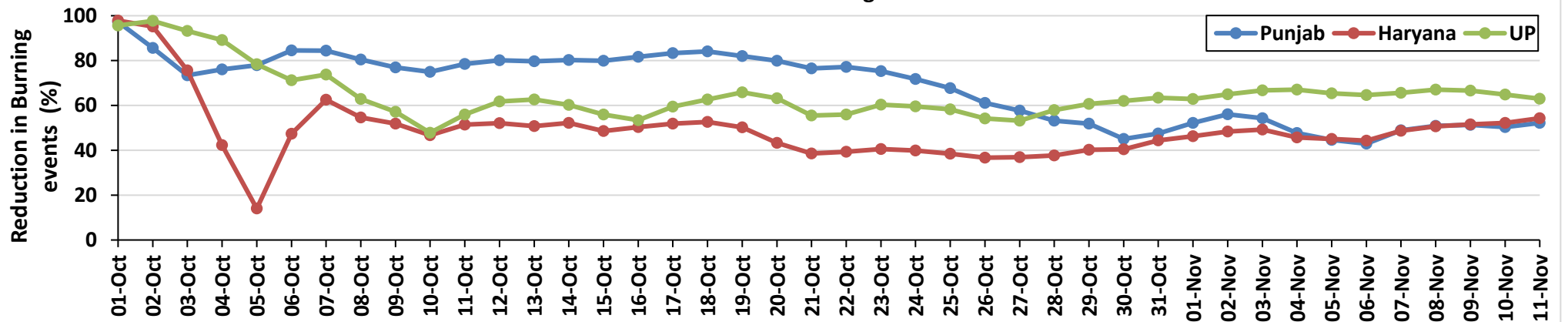
### Reduction in Burning events in 2019 over 2018



### Reduction in Burning events in 2019 over 2017

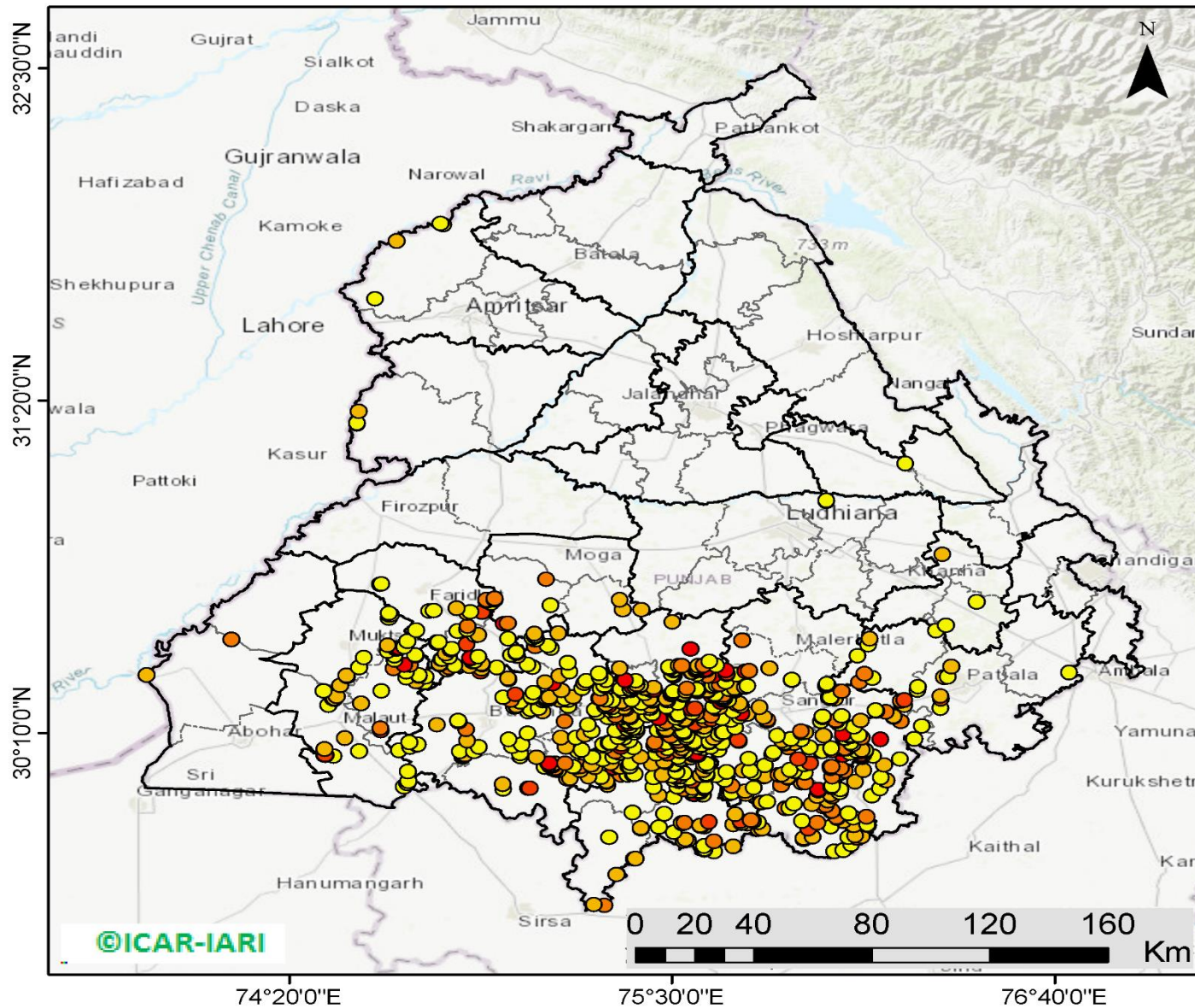


### Reduction in Burning events in 2019 over 2016



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



**783** burning events detected in Punjab on 11th November 2019

Fire Intensity (W/m<sup>2</sup>)

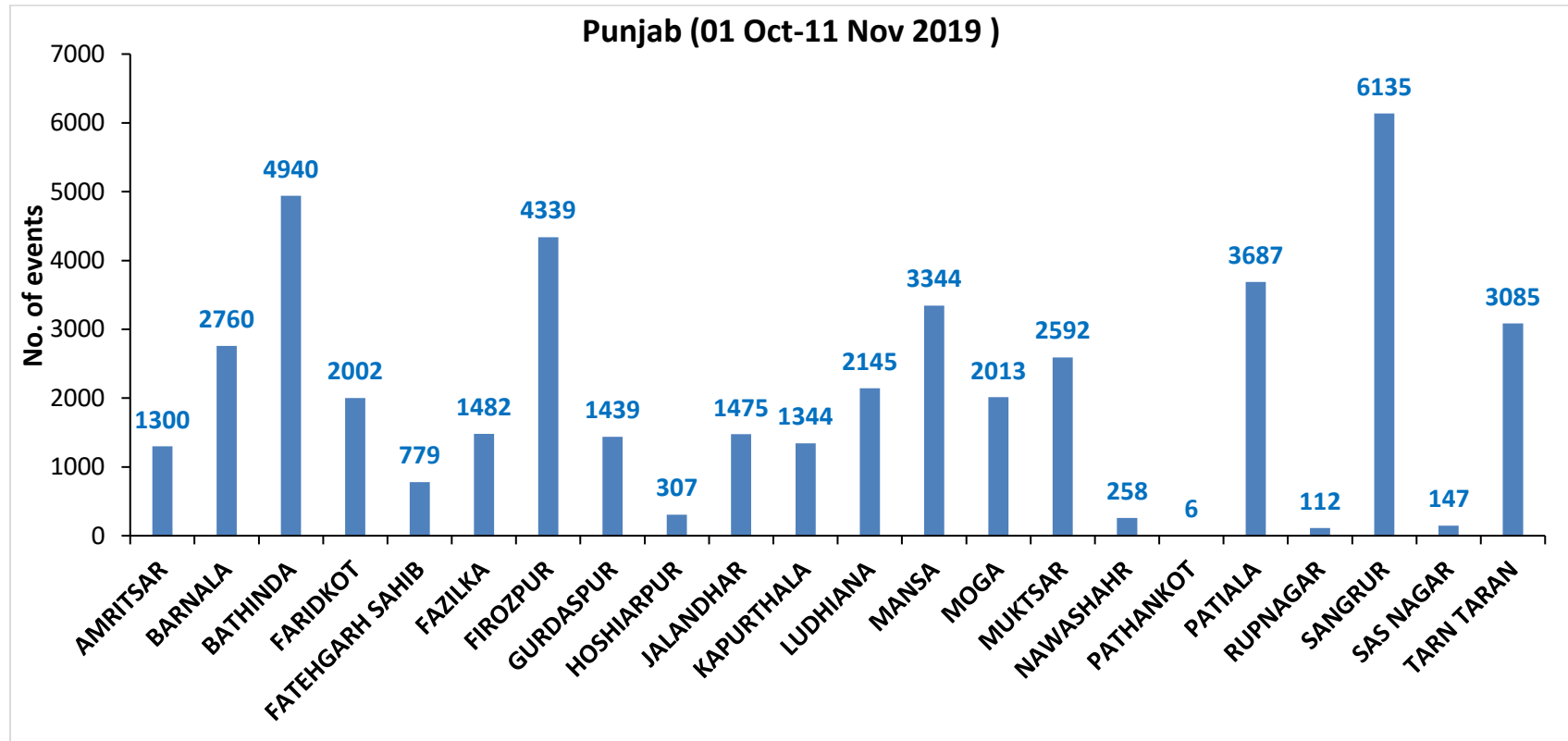
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

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

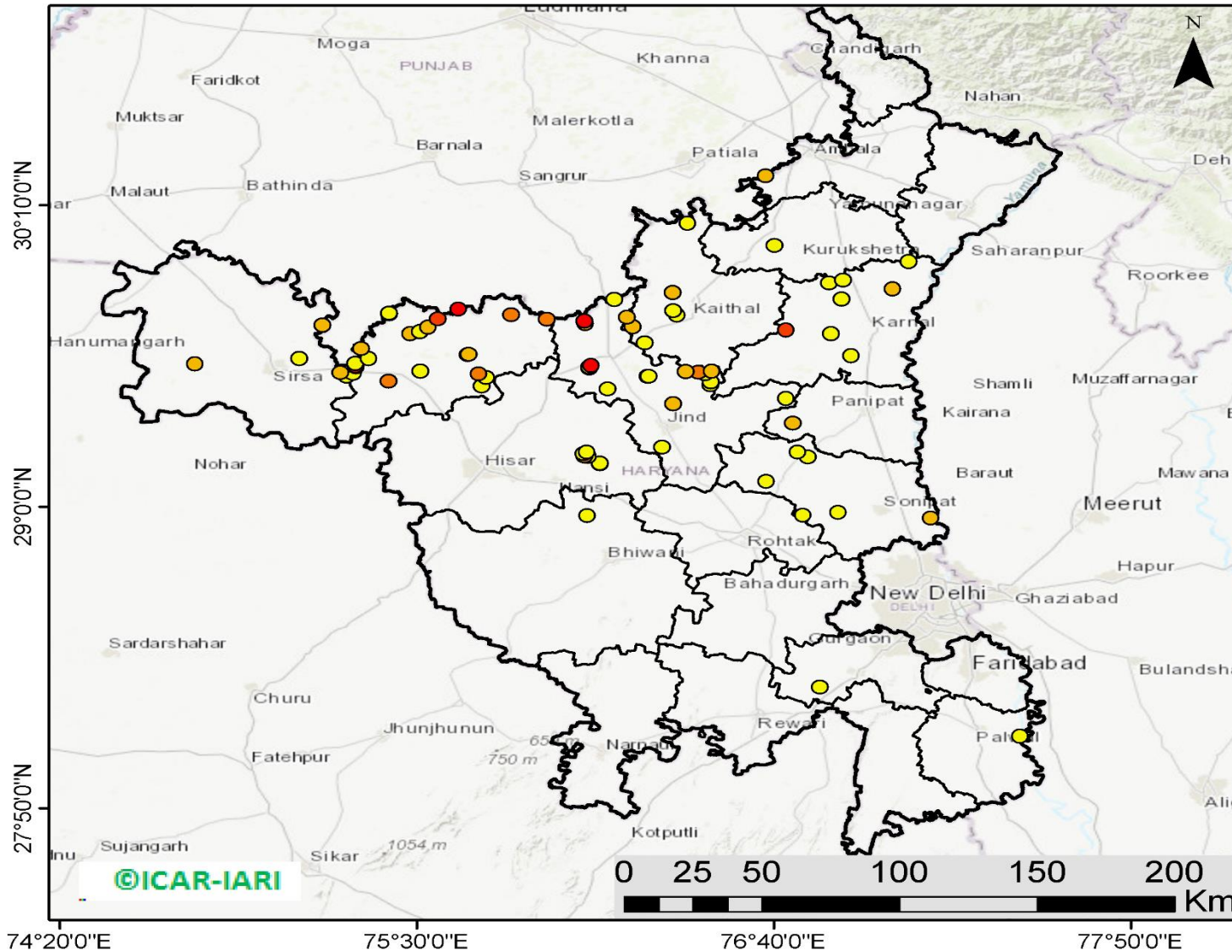
**District-wise cumulative number of residues burning events in Punjab (01 Oct to 11-Nov 2019)**





(b) Haryana

**RICE RESIDUE BURNING IN HARYANA**



**78** burning events detected in Haryana on 11th November 2019

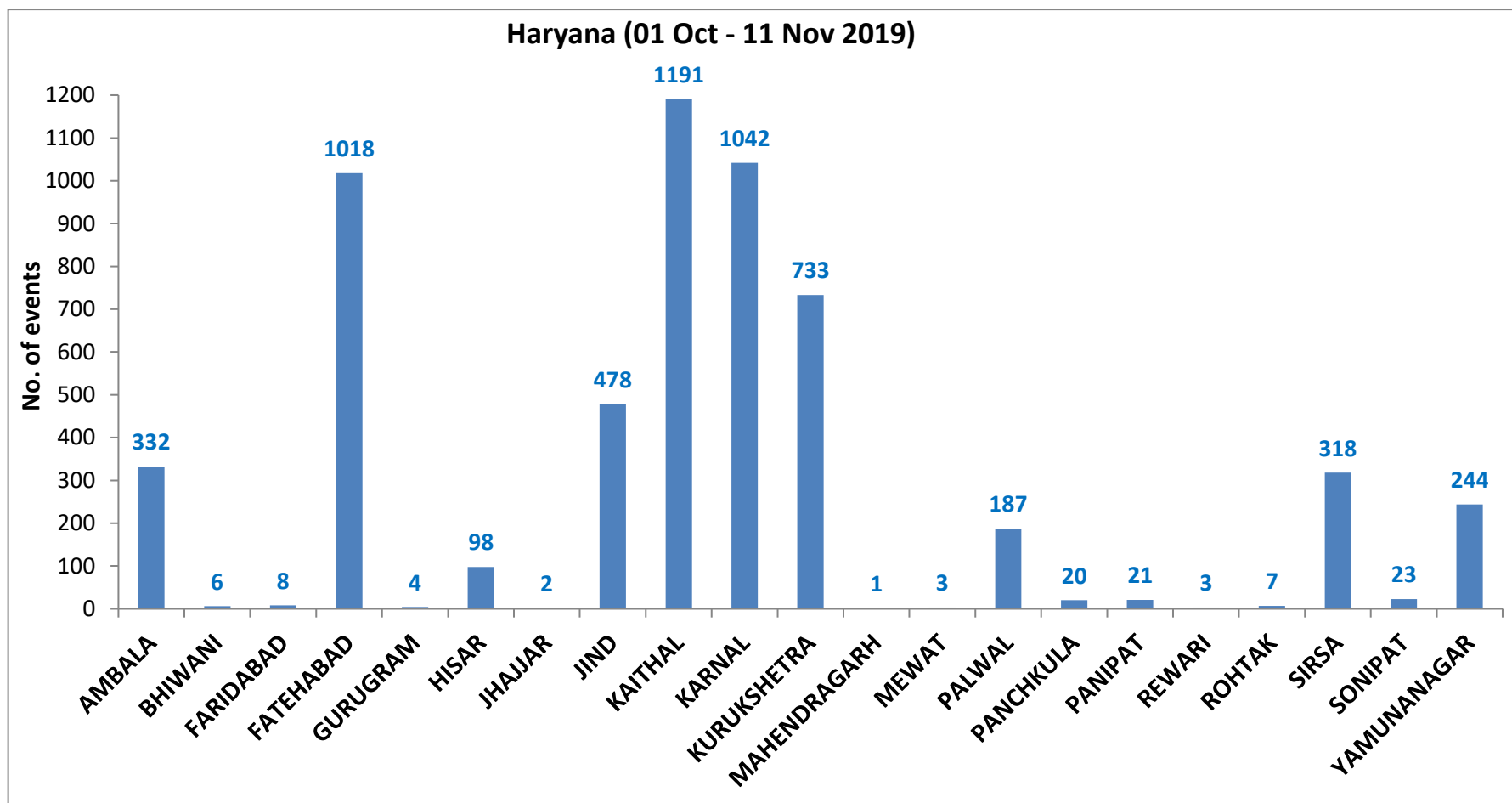
**Fire Intensity (W/m<sup>2</sup>)**

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



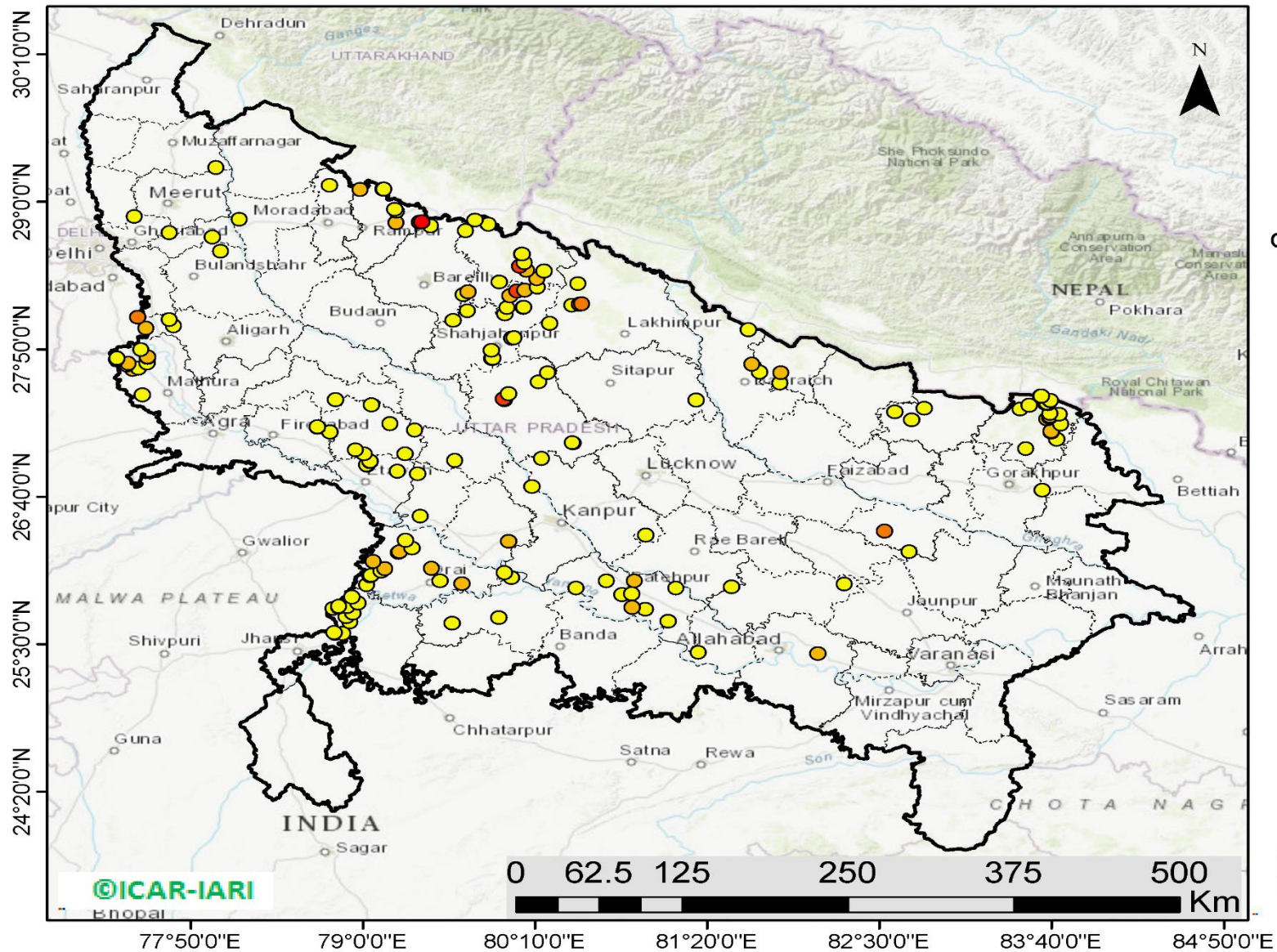
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

**District-wise cumulative number of residues burning events in Haryana (01 Oct to 11-Nov 2019)**



(c) UP

### RICE RESIDUE BURNING IN UTTAR PRADESH



**174** burning events detected in Uttar Pradesh on 11th November 2019

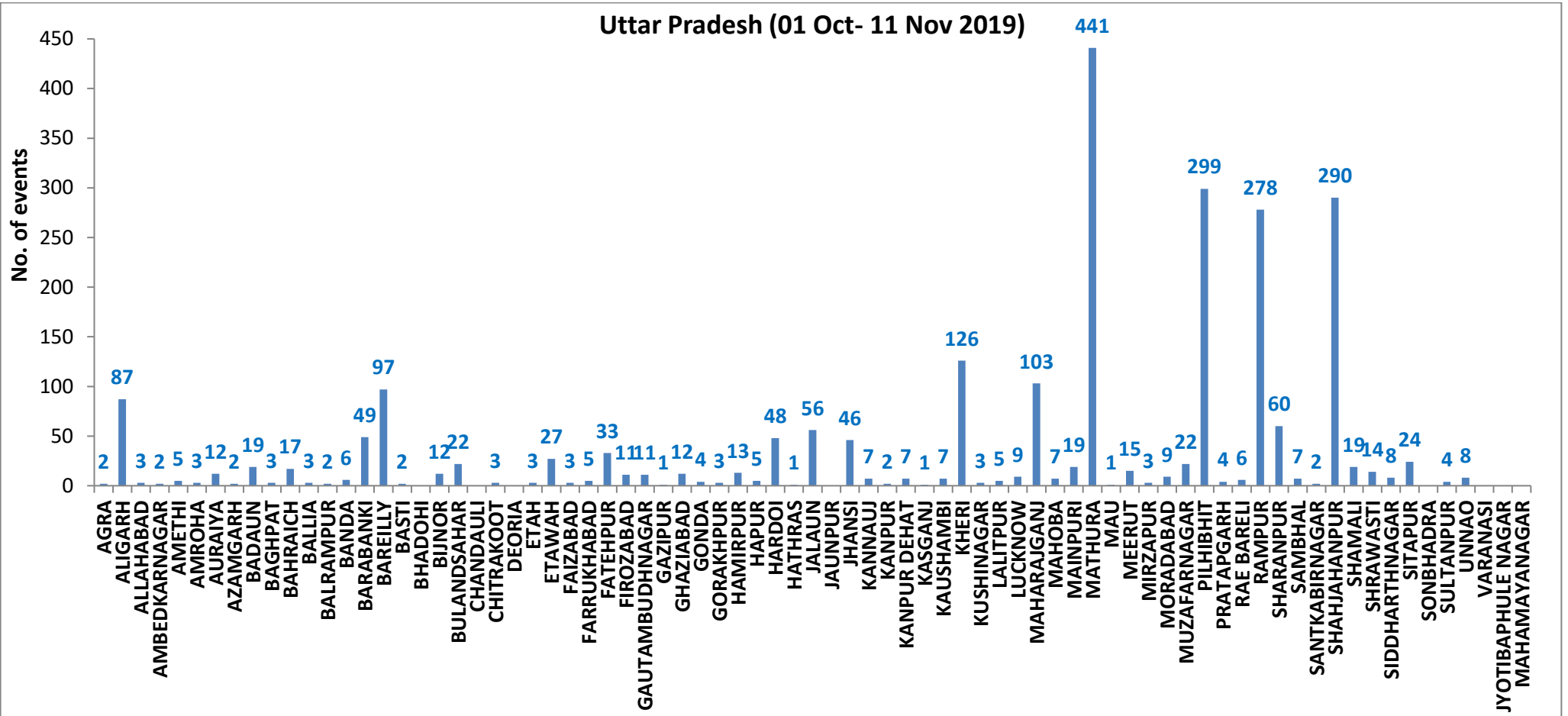
#### Fire Intensity ( $W/m^2$ )

- 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 11-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 11-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 |

|               |              |              |              |              |             |             |             |              |             |             |             |             |              |              |              |               |
|---------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|
| <b>03-Nov</b> | 2646         | 972          | 2109         | 3806         | 68          | 202         | 240         | 275          | 56          | 181         | 75          | 409         | 2770         | 1355         | 2424         | 4490          |
| <b>04-Nov</b> | 6001         | 882          | 4603         | 4477         | 383         | 77          | 499         | 146          | 75          | 183         | 168         | 265         | 6459         | 1142         | 5270         | 4888          |
| <b>05-Nov</b> | 4199         | 2989         | 2876         | 4137         | 253         | 129         | 625         | 345          | 124         | 163         | 367         | 125         | 4576         | 3281         | 3868         | 4607          |
| <b>06-Nov</b> | 4642         | 3071         | 171          | 6303         | 243         | 222         | 26          | 322          | 118         | 130         | 357         | 215         | 5003         | 3423         | 554          | 6840          |
| <b>07-Nov</b> | 189          | 4033         | 420          | 8575         | 2           | 568         | 46          | 821          | 33          | 108         | 149         | 244         | 224          | 4709         | 615          | 9640          |
| <b>08-Nov</b> | 462          | 4450         | 2256         | 4129         | 16          | 313         | 128         | 432          | 54          | 338         | 43          | 419         | 532          | 5101         | 2427         | 4980          |
| <b>09-Nov</b> | 2003         | 2083         | 675          | 4857         | 199         | 199         | 311         | 608          | 96          | 294         | 107         | 205         | 2298         | 2473         | 1093         | 5670          |
| <b>10-Nov</b> | 2046         | 1675         | 1642         | 2468         | 151         | 85          | 509         | 484          | 147         | 125         | 131         | 109         | 2344         | 1885         | 2282         | 3061          |
| <b>11-Nov</b> | 783          | 1364         | 103          | 5040         | 78          | 196         | 29          | 716          | 174         | 45          | 358         | 129         | 1035         | 1605         | 490          | 5885          |
| <b>Total</b>  | <b>45691</b> | <b>48131</b> | <b>53485</b> | <b>95530</b> | <b>5739</b> | <b>6686</b> | <b>9922</b> | <b>12569</b> | <b>2443</b> | <b>4519</b> | <b>5675</b> | <b>6592</b> | <b>53873</b> | <b>59336</b> | <b>69082</b> | <b>114691</b> |

**(a) Punjab**

| Districts                | 01Oct-11 Nov |              |              |              |
|--------------------------|--------------|--------------|--------------|--------------|
|                          | 2016         | 2017         | 2018         | 2019         |
| AMRITSAR                 | 1966         | 1205         | 1115         | 1300         |
| BARNALA                  | 5452         | 2574         | 2350         | 2760         |
| BATHINDA                 | 8270         | 4622         | 4982         | 4940         |
| FARIDKOT                 | 4462         | 2844         | 2570         | 2002         |
| FATEHGARH<br>SAHIB       | 2428         | 1589         | 769          | 779          |
| FAZILKA                  | 0            | 0            | 0            | 1482         |
| FIROZPUR                 | 11793        | 5430         | 7696         | 4339         |
| GURDASPUR                | 2103         | 1501         | 1085         | 1439         |
| HOSHIARPUR               | 880          | 466          | 185          | 307          |
| JALANDHAR                | 4528         | 1962         | 1233         | 1475         |
| KAPURTHALA               | 3100         | 1523         | 703          | 1344         |
| LUDHIANA                 | 8766         | 3864         | 1919         | 2145         |
| MANSA                    | 5063         | 3857         | 3499         | 3344         |
| MOGA                     | 6174         | 1912         | 2160         | 2013         |
| MUKTSAR                  | 6052         | 3349         | 4553         | 2592         |
| NAWASHAHR<br>(SBS Nagar) | 1533         | 754          | 324          | 258          |
| PATHANKOT                | 0            | 0            | 0            | 6            |
| PATIALA                  | 6464         | 4953         | 3822         | 3687         |
| RUPNAGAR                 | 705          | 317          | 67           | 112          |
| SANGRUR                  | 11657        | 8045         | 6603         | 6135         |
| SAS NAGAR                | 114          | 107          | 103          | 147          |
| TARN TARAN               | 4020         | 2611         | 2393         | 3085         |
| <b>Total</b>             | <b>95530</b> | <b>53485</b> | <b>48131</b> | <b>45691</b> |

**(b) Haryana**

| Districts    | 01Oct-11 Nov |             |             |             |
|--------------|--------------|-------------|-------------|-------------|
|              | 2016         | 2017        | 2018        | 2019        |
| AMBALA       | 526          | 489         | 314         | 332         |
| BHIWANI      | 36           | 22          | 13          | 6           |
| FARIDABAD    | 266          | 339         | 181         | 8           |
| FATEHABAD    | 3839         | 2725        | 1707        | 1018        |
| GURUGRAM     | 0            | 0           | 0           | 4           |
| HISAR        | 267          | 153         | 116         | 98          |
| JHAJJAR      | 18           | 12          | 11          | 2           |
| JIND         | 764          | 840         | 570         | 478         |
| KAITHAL      | 1708         | 1468        | 1192        | 1191        |
| KARNAL       | 1594         | 1471        | 804         | 1042        |
| KURUKSHETRA  | 1065         | 1140        | 677         | 733         |
| MAHENDRAGARH | 0            | 0           | 0           | 1           |
| MEWAT        | 0            | 0           | 0           | 3           |
| PALWAL       | 0            | 0           | 0           | 187         |
| PANCHKULA    | 0            | 0           | 3           | 20          |
| PANIPAT      | 67           | 66          | 49          | 21          |
| REWARI       | 0            | 0           | 0           | 3           |
| ROHTAK       | 53           | 47          | 8           | 7           |
| SIRSA        | 2077         | 797         | 845         | 318         |
| SONIPAT      | 53           | 50          | 24          | 23          |
| YAMUNANAGAR  | 236          | 303         | 172         | 244         |
| <b>Total</b> | <b>12569</b> | <b>9922</b> | <b>6686</b> | <b>5739</b> |

(c) Uttar Pradesh

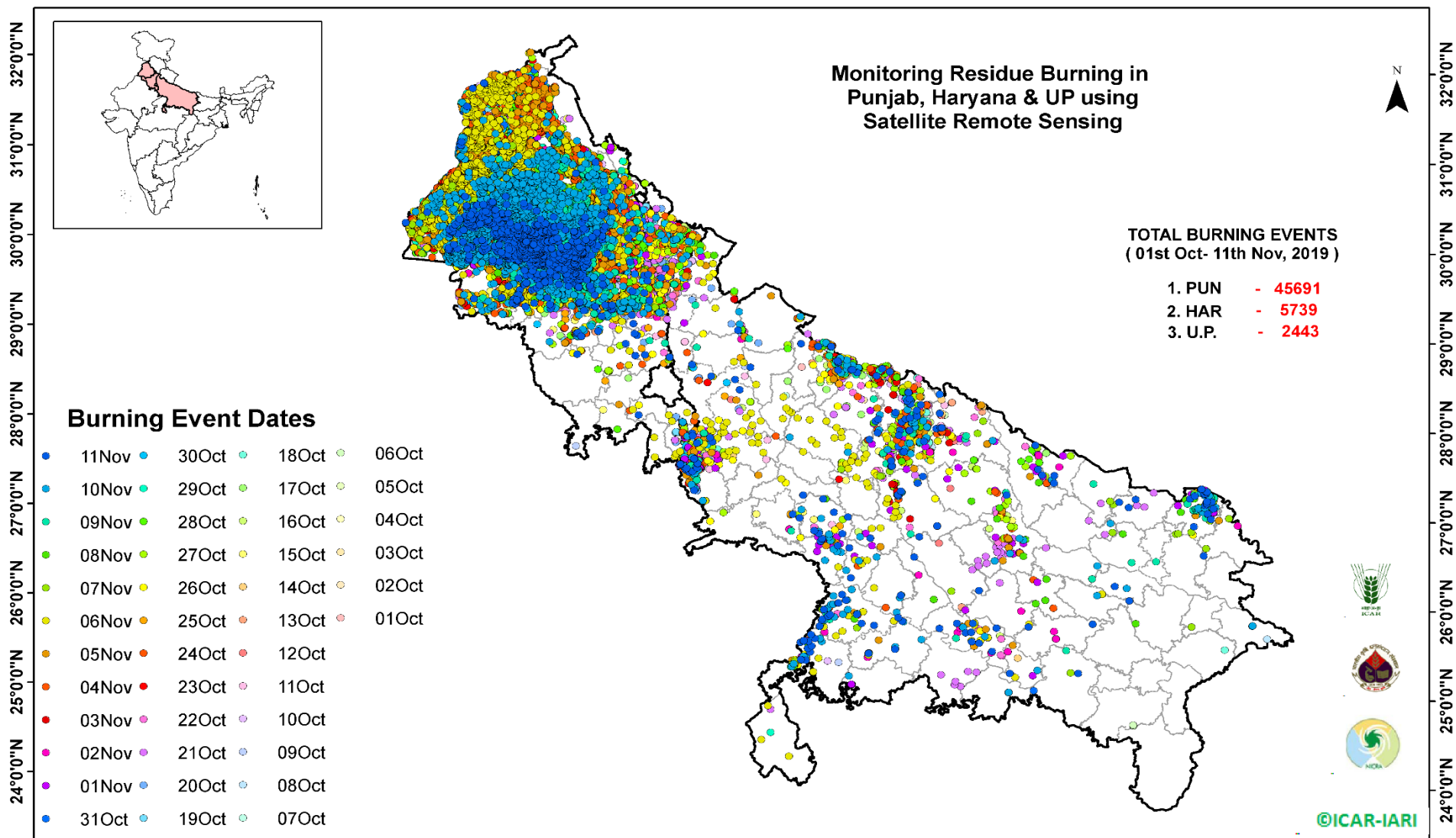
| Districts     | 01Oct-11 Nov |      |      |      |
|---------------|--------------|------|------|------|
|               | 2016         | 2017 | 2018 | 2019 |
| AGRA          | 0            | 0    | 0    | 2    |
| ALIGARH       | 40           | 72   | 83   | 87   |
| ALLAHABAD     | 1            | 2    | 7    | 3    |
| AMBEDKARNAGAR | 38           | 16   | 8    | 2    |
| AMETHI        | 0            | 0    | 0    | 5    |
| AMROHA        | 0            | 0    | 0    | 3    |
| AURAIYA       | 148          | 105  | 37   | 12   |
| AZAMGARH      | 14           | 8    | 13   | 2    |
| BADAUN        | 5            | 6    | 7    | 19   |
| BAGHPAT       | 0            | 0    | 0    | 3    |
| BAHRAICH      | 50           | 35   | 56   | 17   |
| BALLIA        | 3            | 9    | 8    | 3    |
| BALRAMPUR     | 18           | 21   | 31   | 2    |
| BANDA         | 1            | 2    | 7    | 6    |
| BARABANKI     | 186          | 135  | 159  | 49   |
| BAREILLY      | 223          | 185  | 113  | 97   |
| BASTI         | 73           | 135  | 66   | 2    |
| BHADOHI       | 0            | 0    | 0    | 0    |
| BIJNOR        | 35           | 23   | 6    | 12   |
| BULANDSAHAR   | 11           | 25   | 11   | 22   |
| CHANDAULI     | 2            | 0    | 0    | 0    |
| CHITRAKOOT    | 0            | 0    | 0    | 3    |
| DEORIA        | 26           | 31   | 36   | 0    |
| ETAH          | 11           | 26   | 21   | 3    |
| ETAWAH        | 42           | 62   | 27   | 27   |
| FAIZABAD      | 10           | 5    | 5    | 3    |
| FARRUKHABAD   | 0            | 0    | 0    | 5    |
| FATEHPUR      | 35           | 30   | 52   | 33   |
| FIROZABAD     | 19           | 15   | 9    | 11   |

|                 |      |      |      |     |
|-----------------|------|------|------|-----|
| GAUTAMBUDHNAGAR | 17   | 33   | 11   | 11  |
| GAZIPUR         | 11   | 6    | 2    | 1   |
| GHAZIABAD       | 45   | 29   | 17   | 12  |
| GONDA           | 35   | 29   | 16   | 4   |
| GORAKHPUR       | 33   | 41   | 48   | 3   |
| HAMIRPUR        | 0    | 0    | 1    | 13  |
| HAPUR           | 0    | 0    | 0    | 5   |
| HARDOI          | 202  | 167  | 104  | 48  |
| HATHRAS         | 0    | 0    | 0    | 1   |
| JALAUN          | 0    | 0    | 0    | 56  |
| JAUNPUR         | 7    | 3    | 11   | 0   |
| JHANSI          | 0    | 0    | 2    | 46  |
| KANNAUJ         | 7    | 11   | 4    | 7   |
| KANPUR          | 4    | 5    | 8    | 2   |
| KANPUR DEHAT    | 11   | 30   | 11   | 7   |
| KASGANJ         | 0    | 0    | 0    | 1   |
| KAUSHAMBI       | 13   | 24   | 27   | 7   |
| KHERI           | 356  | 214  | 167  | 126 |
| KUSHINAGAR      | 17   | 25   | 49   | 3   |
| LALITPUR        | 0    | 0    | 0    | 5   |
| LUCKNOW         | 46   | 27   | 24   | 9   |
| MAHARAJGANJ     | 213  | 450  | 551  | 103 |
| MAHOBA          | 0    | 0    | 0    | 7   |
| MAINPURI        | 39   | 67   | 34   | 19  |
| MATHURA         | 1344 | 1078 | 1040 | 441 |
| MAU             | 6    | 5    | 8    | 1   |
| MEERUT          | 40   | 34   | 9    | 15  |
| MIRZAPUR        | 0    | 9    | 5    | 3   |
| MORADABAD       | 33   | 22   | 11   | 9   |
| MUZAFARNAGAR    | 91   | 88   | 26   | 22  |
| PILHIBHIT       | 867  | 658  | 401  | 299 |
| PRATAPGARH      | 12   | 21   | 13   | 4   |

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| RAE BARELI            | 28          | 23          | 23          | 6           |
| RAMPUR                | 604         | 594         | 215         | 278         |
| SHARANPUR             | 70          | 83          | 45          | 60          |
| SAMBHAL               | 0           | 0           | 0           | 7           |
| SANTKABIRNAGAR        | 33          | 42          | 37          | 2           |
| SHAHJAHANPUR          | 1083        | 665         | 344         | 290         |
| SHAMALI               | 0           | 0           | 0           | 19          |
| SHRAWASTI             | 25          | 29          | 33          | 14          |
| SIDDHARTHANAGAR       | 139         | 103         | 369         | 8           |
| SITAPUR               | 92          | 52          | 33          | 24          |
| SONBHADRA             | 11          | 9           | 8           | 0           |
| SULTANPUR             | 19          | 13          | 12          | 4           |
| UNNAO                 | 39          | 27          | 30          | 8           |
| VARANASI              | 0           | 0           | 0           | 0           |
| JYOTIBAPHULE<br>NAGAR | 7           | 9           | 3           | 0           |
| MAHAMAYANAGAR         | 2           | 2           | 5           | 0           |
| <b>Total</b>          | <b>6592</b> | <b>5675</b> | <b>4519</b> | <b>2443</b> |



## Map of Cumulative Burning Events (01 Oct – 11 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 11-Nov-2019**

| S. No. | District | Tehsil / Block | Satellite | Longitude | Latitude | Time (IST) | Day / Night | Fire Power (W/m2) |
|--------|----------|----------------|-----------|-----------|----------|------------|-------------|-------------------|
| 1      | AMRITSAR | AJNALA         | S-NPP     | 74.59617  | 31.68962 | 13:24:00   | D           | 3.90              |
| 2      | AMRITSAR | AJNALA         | AQUA      | 74.66100  | 31.89300 | 13:45:00   | D           | 7.50              |
| 3      | AMRITSAR | AJNALA         | S-NPP     | 74.80396  | 31.94930 | 13:24:00   | D           | 3.30              |
| 4      | AMRITSAR | AJNALA         | S-NPP     | 74.79392  | 31.95461 | 13:24:00   | D           | 3.70              |
| 5      | BARNALA  | BARNALA        | S-NPP     | 75.53343  | 30.29919 | 13:24:00   | D           | 4.90              |
| 6      | BARNALA  | BARNALA        | AQUA      | 75.53400  | 30.30200 | 13:45:00   | D           | 11.00             |
| 7      | BARNALA  | BARNALA        | S-NPP     | 75.53683  | 30.30322 | 13:24:00   | D           | 1.50              |
| 8      | BARNALA  | BARNALA        | AQUA      | 75.50100  | 30.30700 | 13:45:00   | D           | 8.00              |
| 9      | BARNALA  | BARNALA        | S-NPP     | 75.50502  | 30.31186 | 13:24:00   | D           | 2.00              |
| 10     | BARNALA  | BARNALA        | AQUA      | 75.54300  | 30.31200 | 13:45:00   | D           | 8.30              |
| 11     | BARNALA  | BARNALA        | S-NPP     | 75.54554  | 30.32200 | 13:24:00   | D           | 10.20             |
| 12     | BARNALA  | BARNALA        | AQUA      | 75.64600  | 30.33500 | 13:45:00   | D           | 13.80             |
| 13     | BARNALA  | BARNALA        | S-NPP     | 75.66398  | 30.34489 | 13:24:00   | D           | 2.50              |
| 14     | BARNALA  | BARNALA        | S-NPP     | 75.62537  | 30.36627 | 13:24:00   | D           | 22.00             |
| 15     | BARNALA  | BARNALA        | S-NPP     | 75.60821  | 30.36693 | 13:24:00   | D           | 10.30             |
| 16     | BARNALA  | BARNALA        | S-NPP     | 75.50571  | 30.36752 | 13:24:00   | D           | 4.80              |
| 17     | BARNALA  | BARNALA        | S-NPP     | 75.50497  | 30.37087 | 13:24:00   | D           | 4.70              |
| 18     | BARNALA  | BARNALA        | S-NPP     | 75.57723  | 30.37227 | 13:24:00   | D           | 2.20              |
| 19     | BARNALA  | BARNALA        | S-NPP     | 75.66639  | 30.37296 | 13:24:00   | D           | 1.10              |
| 20     | BARNALA  | BARNALA        | S-NPP     | 75.50011  | 30.37354 | 13:24:00   | D           | 2.30              |
| 21     | BARNALA  | BARNALA        | S-NPP     | 75.60674  | 30.37362 | 13:24:00   | D           | 57.80             |
| 22     | BARNALA  | BARNALA        | S-NPP     | 75.66567  | 30.37630 | 13:24:00   | D           | 19.10             |
| 23     | BARNALA  | BARNALA        | S-NPP     | 75.61013  | 30.37763 | 13:24:00   | D           | 57.80             |
| 24     | BARNALA  | BARNALA        | S-NPP     | 75.55859  | 30.37962 | 13:24:00   | D           | 4.90              |
| 25     | BARNALA  | BARNALA        | S-NPP     | 75.56271  | 30.38029 | 13:24:00   | D           | 5.10              |
| 26     | BARNALA  | BARNALA        | S-NPP     | 75.57433  | 30.38565 | 13:24:00   | D           | 2.00              |
| 27     | BARNALA  | BARNALA        | S-NPP     | 75.59562  | 30.38566 | 13:24:00   | D           | 6.70              |
| 28     | BARNALA  | BARNALA        | S-NPP     | 75.50648  | 30.38628 | 13:24:00   | D           | 1.30              |
| 29     | BARNALA  | BARNALA        | S-NPP     | 75.66349  | 30.38632 | 13:24:00   | D           | 22.20             |
| 30     | BARNALA  | BARNALA        | S-NPP     | 75.60384  | 30.38700 | 13:24:00   | D           | 26.10             |

|    |         |         |       |          |          |          |   |       |
|----|---------|---------|-------|----------|----------|----------|---|-------|
| 31 | BARNALA | BARNALA | S-NPP | 75.57457 | 30.38714 | 13:24:00 | D | 2.10  |
| 32 | BARNALA | BARNALA | S-NPP | 75.50574 | 30.38963 | 13:24:00 | D | 1.80  |
| 33 | BARNALA | BARNALA | S-NPP | 75.60312 | 30.39034 | 13:24:00 | D | 26.10 |
| 34 | BARNALA | BARNALA | S-NPP | 75.57795 | 30.39117 | 13:24:00 | D | 5.70  |
| 35 | BARNALA | BARNALA | S-NPP | 75.34174 | 30.39374 | 13:24:00 | D | 7.70  |
| 36 | BARNALA | BARNALA | S-NPP | 75.49191 | 30.39429 | 13:24:00 | D | 2.60  |
| 37 | BARNALA | BARNALA | S-NPP | 75.57722 | 30.39451 | 13:24:00 | D | 2.60  |
| 38 | BARNALA | BARNALA | S-NPP | 75.49118 | 30.39764 | 13:24:00 | D | 2.60  |
| 39 | BARNALA | BARNALA | AQUA  | 75.58400 | 30.40100 | 13:45:00 | D | 6.10  |
| 40 | BARNALA | BARNALA | S-NPP | 75.57989 | 30.40188 | 13:24:00 | D | 5.40  |
| 41 | BARNALA | BARNALA | AQUA  | 75.52000 | 30.40200 | 13:45:00 | D | 9.60  |
| 42 | BARNALA | BARNALA | AQUA  | 75.53000 | 30.40300 | 13:45:00 | D | 11.00 |
| 43 | BARNALA | BARNALA | S-NPP | 75.63472 | 30.40399 | 13:24:00 | D | 4.50  |
| 44 | BARNALA | BARNALA | S-NPP | 75.59634 | 30.40459 | 13:24:00 | D | 12.10 |
| 45 | BARNALA | BARNALA | S-NPP | 75.61469 | 30.41800 | 13:24:00 | D | 1.90  |
| 46 | BARNALA | BARNALA | AQUA  | 75.55700 | 30.46100 | 13:45:00 | D | 21.60 |
| 47 | BARNALA | BARNALA | AQUA  | 75.50100 | 30.55500 | 13:45:00 | D | 7.90  |
| 48 | BARNALA | TAPPA   | S-NPP | 75.51328 | 30.14806 | 13:24:00 | D | 1.00  |
| 49 | BARNALA | TAPPA   | S-NPP | 75.54290 | 30.14944 | 13:24:00 | D | 2.90  |
| 50 | BARNALA | TAPPA   | S-NPP | 75.49494 | 30.15657 | 13:24:00 | D | 13.40 |
| 51 | BARNALA | TAPPA   | S-NPP | 75.54557 | 30.15683 | 13:24:00 | D | 3.90  |
| 52 | BARNALA | TAPPA   | S-NPP | 75.53548 | 30.16678 | 13:24:00 | D | 4.50  |
| 53 | BARNALA | TAPPA   | S-NPP | 75.52650 | 30.16876 | 13:24:00 | D | 4.30  |
| 54 | BARNALA | TAPPA   | S-NPP | 75.53475 | 30.17013 | 13:24:00 | D | 5.00  |
| 55 | BARNALA | TAPPA   | S-NPP | 75.48229 | 30.17533 | 13:24:00 | D | 5.10  |
| 56 | BARNALA | TAPPA   | S-NPP | 75.47304 | 30.19814 | 13:24:00 | D | 4.60  |
| 57 | BARNALA | TAPPA   | AQUA  | 75.51500 | 30.19900 | 13:45:00 | D | 9.70  |
| 58 | BARNALA | TAPPA   | S-NPP | 75.52334 | 30.20298 | 13:24:00 | D | 3.00  |
| 59 | BARNALA | TAPPA   | AQUA  | 75.48200 | 30.20400 | 13:45:00 | D | 10.20 |
| 60 | BARNALA | TAPPA   | S-NPP | 75.36421 | 30.20451 | 13:24:00 | D | 3.30  |
| 61 | BARNALA | TAPPA   | AQUA  | 75.53500 | 30.21100 | 13:45:00 | D | 22.80 |
| 62 | BARNALA | TAPPA   | AQUA  | 75.54500 | 30.21200 | 13:45:00 | D | 27.50 |
| 63 | BARNALA | TAPPA   | S-NPP | 75.53838 | 30.21241 | 13:24:00 | D | 5.40  |

|    |         |       |       |          |          |          |   |       |
|----|---------|-------|-------|----------|----------|----------|---|-------|
| 64 | BARNALA | TAPPA | S-NPP | 75.46037 | 30.21692 | 13:24:00 | D | 32.80 |
| 65 | BARNALA | TAPPA | S-NPP | 75.51143 | 30.21839 | 13:24:00 | D | 5.00  |
| 66 | BARNALA | TAPPA | S-NPP | 75.59118 | 30.22457 | 13:24:00 | D | 2.40  |
| 67 | BARNALA | TAPPA | S-NPP | 75.62068 | 30.22594 | 13:24:00 | D | 10.50 |
| 68 | BARNALA | TAPPA | S-NPP | 75.42355 | 30.22825 | 13:24:00 | D | 0.90  |
| 69 | BARNALA | TAPPA | S-NPP | 75.51749 | 30.22981 | 13:24:00 | D | 2.50  |
| 70 | BARNALA | TAPPA | S-NPP | 75.52163 | 30.23049 | 13:24:00 | D | 2.50  |
| 71 | BARNALA | TAPPA | S-NPP | 75.52090 | 30.23384 | 13:24:00 | D | 2.50  |
| 72 | BARNALA | TAPPA | AQUA  | 75.57300 | 30.23400 | 13:45:00 | D | 11.10 |
| 73 | BARNALA | TAPPA | S-NPP | 75.43940 | 30.23434 | 13:24:00 | D | 2.20  |
| 74 | BARNALA | TAPPA | S-NPP | 75.56285 | 30.23726 | 13:24:00 | D | 2.70  |
| 75 | BARNALA | TAPPA | S-NPP | 75.68485 | 30.24337 | 13:24:00 | D | 4.30  |
| 76 | BARNALA | TAPPA | AQUA  | 75.55900 | 30.25100 | 13:45:00 | D | 24.40 |
| 77 | BARNALA | TAPPA | AQUA  | 75.57000 | 30.25200 | 13:45:00 | D | 15.60 |
| 78 | BARNALA | TAPPA | AQUA  | 75.63500 | 30.25200 | 13:45:00 | D | 9.80  |
| 79 | BARNALA | TAPPA | S-NPP | 75.43498 | 30.25449 | 13:24:00 | D | 5.60  |
| 80 | BARNALA | TAPPA | S-NPP | 75.43186 | 30.25452 | 13:24:00 | D | 3.10  |
| 81 | BARNALA | TAPPA | S-NPP | 75.40553 | 30.25710 | 13:24:00 | D | 1.40  |
| 82 | BARNALA | TAPPA | S-NPP | 75.64362 | 30.25740 | 13:24:00 | D | 7.70  |
| 83 | BARNALA | TAPPA | S-NPP | 75.62648 | 30.25807 | 13:24:00 | D | 0.80  |
| 84 | BARNALA | TAPPA | AQUA  | 75.48300 | 30.25900 | 13:45:00 | D | 4.70  |
| 85 | BARNALA | TAPPA | S-NPP | 75.71062 | 30.26141 | 13:24:00 | D | 5.10  |
| 86 | BARNALA | TAPPA | S-NPP | 75.43453 | 30.26193 | 13:24:00 | D | 7.60  |
| 87 | BARNALA | TAPPA | AQUA  | 75.69600 | 30.26900 | 13:45:00 | D | 16.50 |
| 88 | BARNALA | TAPPA | AQUA  | 75.70700 | 30.27100 | 13:45:00 | D | 6.30  |
| 89 | BARNALA | TAPPA | S-NPP | 75.40674 | 30.27123 | 13:24:00 | D | 1.40  |
| 90 | BARNALA | TAPPA | S-NPP | 75.51792 | 30.27232 | 13:24:00 | D | 4.20  |
| 91 | BARNALA | TAPPA | S-NPP | 75.64820 | 30.27546 | 13:24:00 | D | 29.50 |
| 92 | BARNALA | TAPPA | AQUA  | 75.44100 | 30.28000 | 13:45:00 | D | 14.00 |
| 93 | BARNALA | TAPPA | S-NPP | 75.48611 | 30.28094 | 13:24:00 | D | 3.40  |
| 94 | BARNALA | TAPPA | S-NPP | 75.67209 | 30.28281 | 13:24:00 | D | 1.00  |
| 95 | BARNALA | TAPPA | S-NPP | 75.65496 | 30.28348 | 13:24:00 | D | 5.30  |
| 96 | BARNALA | TAPPA | S-NPP | 75.37815 | 30.28389 | 13:24:00 | D | 2.30  |

|     |         |       |       |          |          |          |   |       |
|-----|---------|-------|-------|----------|----------|----------|---|-------|
| 97  | BARNALA | TAPPA | S-NPP | 75.44256 | 30.28415 | 13:24:00 | D | 3.30  |
| 98  | BARNALA | TAPPA | AQUA  | 75.48300 | 30.28600 | 13:45:00 | D | 6.50  |
| 99  | BARNALA | TAPPA | S-NPP | 75.43355 | 30.28613 | 13:24:00 | D | 5.90  |
| 100 | BARNALA | TAPPA | S-NPP | 75.65424 | 30.28683 | 13:24:00 | D | 7.40  |
| 101 | BARNALA | TAPPA | S-NPP | 75.65834 | 30.28749 | 13:24:00 | D | 4.10  |
| 102 | BARNALA | TAPPA | S-NPP | 75.65761 | 30.29083 | 13:24:00 | D | 4.10  |
| 103 | BARNALA | TAPPA | AQUA  | 75.62100 | 30.29500 | 13:45:00 | D | 16.40 |
| 104 | BARNALA | TAPPA | AQUA  | 75.63200 | 30.29700 | 13:45:00 | D | 11.60 |
| 105 | BARNALA | TAPPA | S-NPP | 75.65698 | 30.29876 | 13:24:00 | D | 11.70 |
| 106 | BARNALA | TAPPA | S-NPP | 75.49896 | 30.30044 | 13:24:00 | D | 3.10  |
| 107 | BARNALA | TAPPA | S-NPP | 75.63092 | 30.30140 | 13:24:00 | D | 2.30  |
| 108 | BARNALA | TAPPA | S-NPP | 75.49823 | 30.30379 | 13:24:00 | D | 3.10  |
| 109 | BARNALA | TAPPA | S-NPP | 75.41670 | 30.30422 | 13:24:00 | D | 2.70  |
| 110 | BARNALA | TAPPA | S-NPP | 75.57800 | 30.31001 | 13:24:00 | D | 14.70 |
| 111 | BARNALA | TAPPA | S-NPP | 75.35072 | 30.31071 | 13:24:00 | D | 4.60  |
| 112 | BARNALA | TAPPA | S-NPP | 75.35488 | 30.31140 | 13:24:00 | D | 4.50  |
| 113 | BARNALA | TAPPA | AQUA  | 75.60700 | 30.31200 | 13:45:00 | D | 20.30 |
| 114 | BARNALA | TAPPA | S-NPP | 75.57726 | 30.31336 | 13:24:00 | D | 13.20 |
| 115 | BARNALA | TAPPA | S-NPP | 75.60677 | 30.31474 | 13:24:00 | D | 6.40  |
| 116 | BARNALA | TAPPA | S-NPP | 75.37566 | 30.31484 | 13:24:00 | D | 18.10 |
| 117 | BARNALA | TAPPA | AQUA  | 75.43500 | 30.31600 | 13:45:00 | D | 20.00 |
| 118 | BARNALA | TAPPA | AQUA  | 75.44500 | 30.31700 | 13:45:00 | D | 46.80 |
| 119 | BARNALA | TAPPA | S-NPP | 75.58065 | 30.31738 | 13:24:00 | D | 13.20 |
| 120 | BARNALA | TAPPA | S-NPP | 75.37492 | 30.31820 | 13:24:00 | D | 18.10 |
| 121 | BARNALA | TAPPA | S-NPP | 75.57581 | 30.32005 | 13:24:00 | D | 2.60  |
| 122 | BARNALA | TAPPA | S-NPP | 75.34435 | 30.32011 | 13:24:00 | D | 2.50  |
| 123 | BARNALA | TAPPA | S-NPP | 75.37419 | 30.32156 | 13:24:00 | D | 2.30  |
| 124 | BARNALA | TAPPA | S-NPP | 75.41717 | 30.32170 | 13:24:00 | D | 5.60  |
| 125 | BARNALA | TAPPA | AQUA  | 75.44300 | 30.32600 | 13:45:00 | D | 9.20  |
| 126 | BARNALA | TAPPA | AQUA  | 75.37900 | 30.32700 | 13:45:00 | D | 22.90 |
| 127 | BARNALA | TAPPA | AQUA  | 75.38900 | 30.32800 | 13:45:00 | D | 7.00  |
| 128 | BARNALA | TAPPA | S-NPP | 75.62513 | 30.32815 | 13:24:00 | D | 1.90  |
| 129 | BARNALA | TAPPA | AQUA  | 75.40000 | 30.33000 | 13:45:00 | D | 10.80 |

|     |          |          |       |          |          |          |   |       |
|-----|----------|----------|-------|----------|----------|----------|---|-------|
| 130 | BARNALA  | TAPPA    | S-NPP | 75.62440 | 30.33149 | 13:24:00 | D | 1.90  |
| 131 | BARNALA  | TAPPA    | S-NPP | 75.40179 | 30.33308 | 13:24:00 | D | 1.90  |
| 132 | BARNALA  | TAPPA    | S-NPP | 75.63673 | 30.33351 | 13:24:00 | D | 1.30  |
| 133 | BARNALA  | TAPPA    | S-NPP | 75.39274 | 30.33507 | 13:24:00 | D | 8.50  |
| 134 | BARNALA  | TAPPA    | S-NPP | 75.38979 | 30.34851 | 13:24:00 | D | 2.30  |
| 135 | BARNALA  | TAPPA    | AQUA  | 75.35700 | 30.35200 | 13:45:00 | D | 22.20 |
| 136 | BATHINDA | BATHINDA | S-NPP | 74.86208 | 30.08134 | 13:24:00 | D | 11.90 |
| 137 | BATHINDA | BATHINDA | S-NPP | 75.03853 | 30.08319 | 13:24:00 | D | 2.70  |
| 138 | BATHINDA | BATHINDA | S-NPP | 74.86560 | 30.08549 | 13:24:00 | D | 12.30 |
| 139 | BATHINDA | BATHINDA | S-NPP | 74.86484 | 30.08890 | 13:24:00 | D | 12.30 |
| 140 | BATHINDA | BATHINDA | S-NPP | 74.86912 | 30.08963 | 13:24:00 | D | 6.90  |
| 141 | BATHINDA | BATHINDA | S-NPP | 75.03626 | 30.09338 | 13:24:00 | D | 2.90  |
| 142 | BATHINDA | BATHINDA | S-NPP | 74.85320 | 30.10109 | 13:24:00 | D | 2.70  |
| 143 | BATHINDA | BATHINDA | S-NPP | 74.89754 | 30.10155 | 13:24:00 | D | 2.60  |
| 144 | BATHINDA | BATHINDA | S-NPP | 74.70173 | 30.11793 | 13:24:00 | D | 2.10  |
| 145 | BATHINDA | BATHINDA | S-NPP | 74.91157 | 30.11810 | 13:24:00 | D | 1.60  |
| 146 | BATHINDA | BATHINDA | S-NPP | 75.01250 | 30.12108 | 13:24:00 | D | 4.70  |
| 147 | BATHINDA | BATHINDA | S-NPP | 74.72260 | 30.12504 | 13:24:00 | D | 3.20  |
| 148 | BATHINDA | BATHINDA | S-NPP | 74.72692 | 30.12577 | 13:24:00 | D | 4.30  |
| 149 | BATHINDA | BATHINDA | S-NPP | 75.04218 | 30.12610 | 13:24:00 | D | 3.90  |
| 150 | BATHINDA | BATHINDA | S-NPP | 74.69978 | 30.13356 | 13:24:00 | D | 2.90  |
| 151 | BATHINDA | BATHINDA | S-NPP | 74.87553 | 30.14030 | 13:24:00 | D | 6.40  |
| 152 | BATHINDA | BATHINDA | S-NPP | 75.00295 | 30.14414 | 13:24:00 | D | 3.30  |
| 153 | BATHINDA | BATHINDA | S-NPP | 75.06002 | 30.16430 | 13:24:00 | D | 1.90  |
| 154 | BATHINDA | BATHINDA | S-NPP | 74.87306 | 30.17761 | 13:24:00 | D | 10.70 |
| 155 | BATHINDA | BATHINDA | S-NPP | 74.78466 | 30.19439 | 13:24:00 | D | 6.80  |
| 156 | BATHINDA | BATHINDA | S-NPP | 74.84905 | 30.20538 | 13:24:00 | D | 3.50  |
| 157 | BATHINDA | BATHINDA | AQUA  | 75.17300 | 30.20700 | 13:45:00 | D | 11.40 |
| 158 | BATHINDA | BATHINDA | S-NPP | 74.84829 | 30.20879 | 13:24:00 | D | 3.50  |
| 159 | BATHINDA | BATHINDA | S-NPP | 75.06178 | 30.24143 | 13:24:00 | D | 4.40  |
| 160 | BATHINDA | BATHINDA | S-NPP | 75.10550 | 30.24177 | 13:24:00 | D | 6.20  |
| 161 | BATHINDA | BATHINDA | S-NPP | 75.06873 | 30.24963 | 13:24:00 | D | 3.00  |
| 162 | BATHINDA | BATHINDA | S-NPP | 75.09405 | 30.25389 | 13:24:00 | D | 1.30  |

|     |          |              |       |          |          |          |   |       |
|-----|----------|--------------|-------|----------|----------|----------|---|-------|
| 163 | BATHINDA | BATHINDA     | S-NPP | 75.01841 | 30.25876 | 13:24:00 | D | 3.90  |
| 164 | BATHINDA | BATHINDA     | S-NPP | 75.02688 | 30.26018 | 13:24:00 | D | 2.50  |
| 165 | BATHINDA | BATHINDA     | S-NPP | 75.18391 | 30.26196 | 13:24:00 | D | 3.20  |
| 166 | BATHINDA | BATHINDA     | S-NPP | 75.02612 | 30.26357 | 13:24:00 | D | 5.60  |
| 167 | BATHINDA | BATHINDA     | S-NPP | 75.03655 | 30.27588 | 13:24:00 | D | 4.50  |
| 168 | BATHINDA | BATHINDA     | S-NPP | 75.10565 | 30.28042 | 13:24:00 | D | 2.00  |
| 169 | BATHINDA | BATHINDA     | S-NPP | 75.00886 | 30.28180 | 13:24:00 | D | 11.20 |
| 170 | BATHINDA | BATHINDA     | S-NPP | 75.11334 | 30.28521 | 13:24:00 | D | 5.90  |
| 171 | BATHINDA | BATHINDA     | S-NPP | 75.11755 | 30.28592 | 13:24:00 | D | 5.10  |
| 172 | BATHINDA | BATHINDA     | S-NPP | 75.12597 | 30.28732 | 13:24:00 | D | 9.20  |
| 173 | BATHINDA | BATHINDA     | S-NPP | 75.07310 | 30.28902 | 13:24:00 | D | 6.60  |
| 174 | BATHINDA | BATHINDA     | S-NPP | 75.11680 | 30.28930 | 13:24:00 | D | 5.10  |
| 175 | BATHINDA | BATHINDA     | S-NPP | 75.12521 | 30.29070 | 13:24:00 | D | 9.20  |
| 176 | BATHINDA | BATHINDA     | S-NPP | 74.98546 | 30.29174 | 13:24:00 | D | 3.70  |
| 177 | BATHINDA | BATHINDA     | S-NPP | 75.07235 | 30.29241 | 13:24:00 | D | 2.90  |
| 178 | BATHINDA | BATHINDA     | S-NPP | 75.02283 | 30.30162 | 13:24:00 | D | 15.30 |
| 179 | BATHINDA | BATHINDA     | S-NPP | 75.07851 | 30.30756 | 13:24:00 | D | 3.40  |
| 180 | BATHINDA | BATHINDA     | S-NPP | 75.13717 | 30.33854 | 13:24:00 | D | 21.30 |
| 181 | BATHINDA | BATHINDA     | S-NPP | 75.11388 | 30.34514 | 13:24:00 | D | 5.80  |
| 182 | BATHINDA | BATHINDA     | S-NPP | 75.00224 | 30.35445 | 13:24:00 | D | 5.50  |
| 183 | BATHINDA | BATHINDA     | S-NPP | 75.00148 | 30.35784 | 13:24:00 | D | 5.50  |
| 184 | BATHINDA | BATHINDA     | S-NPP | 75.15714 | 30.36643 | 13:24:00 | D | 7.70  |
| 185 | BATHINDA | BATHINDA     | S-NPP | 75.07579 | 30.39841 | 13:24:00 | D | 4.30  |
| 186 | BATHINDA | RAMPURA PHUL | S-NPP | 75.30000 | 30.11992 | 13:24:00 | D | 5.80  |
| 187 | BATHINDA | RAMPURA PHUL | S-NPP | 75.29077 | 30.12590 | 13:24:00 | D | 1.90  |
| 188 | BATHINDA | RAMPURA PHUL | S-NPP | 75.30672 | 30.13208 | 13:24:00 | D | 4.30  |
| 189 | BATHINDA | RAMPURA PHUL | S-NPP | 75.31090 | 30.13278 | 13:24:00 | D | 4.30  |
| 190 | BATHINDA | RAMPURA PHUL | AQUA  | 75.16200 | 30.15000 | 13:45:00 | D | 7.60  |
| 191 | BATHINDA | RAMPURA PHUL | S-NPP | 75.20727 | 30.15038 | 13:24:00 | D | 4.60  |
| 192 | BATHINDA | RAMPURA PHUL | S-NPP | 75.33710 | 30.15114 | 13:24:00 | D | 2.90  |
| 193 | BATHINDA | RAMPURA PHUL | AQUA  | 75.23400 | 30.16000 | 13:45:00 | D | 5.40  |
| 194 | BATHINDA | RAMPURA PHUL | S-NPP | 75.35570 | 30.16472 | 13:24:00 | D | 5.60  |
| 195 | BATHINDA | RAMPURA PHUL | AQUA  | 75.35000 | 30.16700 | 13:45:00 | D | 13.00 |

|     |          |              |       |          |          |          |   |       |
|-----|----------|--------------|-------|----------|----------|----------|---|-------|
| 196 | BATHINDA | RAMPURA PHUL | S-NPP | 75.35080 | 30.16739 | 13:24:00 | D | 7.60  |
| 197 | BATHINDA | RAMPURA PHUL | S-NPP | 75.35006 | 30.17076 | 13:24:00 | D | 7.60  |
| 198 | BATHINDA | RAMPURA PHUL | S-NPP | 75.25457 | 30.17230 | 13:24:00 | D | 4.30  |
| 199 | BATHINDA | RAMPURA PHUL | S-NPP | 75.32776 | 30.17402 | 13:24:00 | D | 3.20  |
| 200 | BATHINDA | RAMPURA PHUL | AQUA  | 75.35600 | 30.19500 | 13:45:00 | D | 40.80 |
| 201 | BATHINDA | RAMPURA PHUL | S-NPP | 75.24518 | 30.19523 | 13:24:00 | D | 3.40  |
| 202 | BATHINDA | RAMPURA PHUL | AQUA  | 75.36600 | 30.19700 | 13:45:00 | D | 25.80 |
| 203 | BATHINDA | RAMPURA PHUL | S-NPP | 75.32230 | 30.21851 | 13:24:00 | D | 7.10  |
| 204 | BATHINDA | RAMPURA PHUL | S-NPP | 75.30488 | 30.21912 | 13:24:00 | D | 1.40  |
| 205 | BATHINDA | RAMPURA PHUL | S-NPP | 75.34803 | 30.21927 | 13:24:00 | D | 4.80  |
| 206 | BATHINDA | RAMPURA PHUL | S-NPP | 75.37373 | 30.22003 | 13:24:00 | D | 17.60 |
| 207 | BATHINDA | RAMPURA PHUL | S-NPP | 75.37299 | 30.22340 | 13:24:00 | D | 17.60 |
| 208 | BATHINDA | RAMPURA PHUL | AQUA  | 75.36100 | 30.22400 | 13:45:00 | D | 29.80 |
| 209 | BATHINDA | RAMPURA PHUL | AQUA  | 75.37100 | 30.22500 | 13:45:00 | D | 7.20  |
| 210 | BATHINDA | RAMPURA PHUL | AQUA  | 75.32800 | 30.22800 | 13:45:00 | D | 10.70 |
| 211 | BATHINDA | RAMPURA PHUL | S-NPP | 75.27163 | 30.23817 | 13:24:00 | D | 1.90  |
| 212 | BATHINDA | RAMPURA PHUL | S-NPP | 75.31334 | 30.24517 | 13:24:00 | D | 3.80  |
| 213 | BATHINDA | RAMPURA PHUL | S-NPP | 75.32584 | 30.24727 | 13:24:00 | D | 4.90  |
| 214 | BATHINDA | RAMPURA PHUL | S-NPP | 75.26523 | 30.24759 | 13:24:00 | D | 2.20  |
| 215 | BATHINDA | RAMPURA PHUL | AQUA  | 75.36100 | 30.25100 | 13:45:00 | D | 21.40 |
| 216 | BATHINDA | RAMPURA PHUL | S-NPP | 75.35423 | 30.25550 | 13:24:00 | D | 7.60  |
| 217 | BATHINDA | RAMPURA PHUL | S-NPP | 75.31946 | 30.25667 | 13:24:00 | D | 6.40  |
| 218 | BATHINDA | RAMPURA PHUL | S-NPP | 75.29713 | 30.25992 | 13:24:00 | D | 2.70  |
| 219 | BATHINDA | RAMPURA PHUL | AQUA  | 75.30600 | 30.26200 | 13:45:00 | D | 30.00 |
| 220 | BATHINDA | RAMPURA PHUL | S-NPP | 75.29982 | 30.26735 | 13:24:00 | D | 7.10  |
| 221 | BATHINDA | RAMPURA PHUL | S-NPP | 75.35544 | 30.26965 | 13:24:00 | D | 12.30 |
| 222 | BATHINDA | RAMPURA PHUL | AQUA  | 75.34600 | 30.27600 | 13:45:00 | D | 7.90  |
| 223 | BATHINDA | RAMPURA PHUL | S-NPP | 75.31844 | 30.28093 | 13:24:00 | D | 4.90  |
| 224 | BATHINDA | RAMPURA PHUL | S-NPP | 75.15767 | 30.28210 | 13:24:00 | D | 9.90  |
| 225 | BATHINDA | RAMPURA PHUL | S-NPP | 75.18362 | 30.28292 | 13:24:00 | D | 4.30  |
| 226 | BATHINDA | RAMPURA PHUL | S-NPP | 75.29611 | 30.28419 | 13:24:00 | D | 3.60  |
| 227 | BATHINDA | RAMPURA PHUL | S-NPP | 75.27793 | 30.28816 | 13:24:00 | D | 43.30 |
| 228 | BATHINDA | RAMPURA PHUL | S-NPP | 75.17372 | 30.28828 | 13:24:00 | D | 3.50  |



|     |          |               |       |          |          |          |   |       |
|-----|----------|---------------|-------|----------|----------|----------|---|-------|
| 229 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.28210 | 30.28885 | 13:24:00 | D | 13.10 |
| 230 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.19889 | 30.29248 | 13:24:00 | D | 6.00  |
| 231 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.16352 | 30.31461 | 13:24:00 | D | 6.30  |
| 232 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.28378 | 30.32056 | 13:24:00 | D | 3.10  |
| 233 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.22719 | 30.32167 | 13:24:00 | D | 4.80  |
| 234 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.29480 | 30.32937 | 13:24:00 | D | 1.50  |
| 235 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.29407 | 30.33273 | 13:24:00 | D | 1.50  |
| 236 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.23240 | 30.34056 | 13:24:00 | D | 5.10  |
| 237 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.23928 | 30.34871 | 13:24:00 | D | 1.80  |
| 238 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.29919 | 30.35177 | 13:24:00 | D | 2.10  |
| 239 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.27956 | 30.36244 | 13:24:00 | D | 3.30  |
| 240 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.27659 | 30.37591 | 13:24:00 | D | 1.70  |
| 241 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.18845 | 30.38217 | 13:24:00 | D | 2.50  |
| 242 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.06085 | 30.40645 | 13:24:00 | D | 1.80  |
| 243 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.18173 | 30.41254 | 13:24:00 | D | 4.40  |
| 244 | BATHINDA | RAMPURA PHUL  | AQUA  | 75.02700 | 30.43500 | 13:45:00 | D | 7.60  |
| 245 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.02640 | 30.44600 | 13:24:00 | D | 4.00  |
| 246 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.13177 | 30.46373 | 13:24:00 | D | 2.10  |
| 247 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.08247 | 30.46947 | 13:24:00 | D | 10.70 |
| 248 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.12110 | 30.47245 | 13:24:00 | D | 2.70  |
| 249 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.08140 | 30.49385 | 13:24:00 | D | 4.70  |
| 250 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.08562 | 30.49455 | 13:24:00 | D | 4.70  |
| 251 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.07568 | 30.49990 | 13:24:00 | D | 3.50  |
| 252 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.08335 | 30.50469 | 13:24:00 | D | 3.20  |
| 253 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.08260 | 30.50807 | 13:24:00 | D | 3.20  |
| 254 | BATHINDA | RAMPURA PHUL  | S-NPP | 75.08109 | 30.51483 | 13:24:00 | D | 5.10  |
| 255 | BATHINDA | RAMPURA PHUL  | AQUA  | 75.15400 | 30.51700 | 13:45:00 | D | 6.10  |
| 256 | BATHINDA | TALWANDI SABO | AQUA  | 74.98600 | 29.96900 | 13:45:00 | D | 4.80  |
| 257 | BATHINDA | TALWANDI SABO | S-NPP | 75.06171 | 29.97187 | 13:24:00 | D | 16.40 |
| 258 | BATHINDA | TALWANDI SABO | S-NPP | 75.06594 | 29.97258 | 13:24:00 | D | 16.40 |
| 259 | BATHINDA | TALWANDI SABO | S-NPP | 74.98438 | 29.98614 | 13:24:00 | D | 5.70  |
| 260 | BATHINDA | TALWANDI SABO | AQUA  | 75.18000 | 30.00600 | 13:45:00 | D | 6.30  |
| 261 | BATHINDA | TALWANDI SABO | AQUA  | 75.19000 | 30.00700 | 13:45:00 | D | 9.30  |

|     |          |               |       |          |          |          |   |       |
|-----|----------|---------------|-------|----------|----------|----------|---|-------|
| 262 | BATHINDA | TALWANDI SABO | S-NPP | 75.28466 | 30.01241 | 13:24:00 | D | 1.80  |
| 263 | BATHINDA | TALWANDI SABO | S-NPP | 75.24554 | 30.01283 | 13:24:00 | D | 5.30  |
| 264 | BATHINDA | TALWANDI SABO | S-NPP | 75.15335 | 30.03589 | 13:24:00 | D | 2.50  |
| 265 | BATHINDA | TALWANDI SABO | S-NPP | 75.21863 | 30.03634 | 13:24:00 | D | 9.50  |
| 266 | BATHINDA | TALWANDI SABO | S-NPP | 75.14417 | 30.03786 | 13:24:00 | D | 13.20 |
| 267 | BATHINDA | TALWANDI SABO | S-NPP | 75.13500 | 30.03983 | 13:24:00 | D | 26.60 |
| 268 | BATHINDA | TALWANDI SABO | S-NPP | 75.14343 | 30.04125 | 13:24:00 | D | 13.20 |
| 269 | BATHINDA | TALWANDI SABO | AQUA  | 75.19900 | 30.04500 | 13:45:00 | D | 53.00 |
| 270 | BATHINDA | TALWANDI SABO | AQUA  | 75.20900 | 30.04600 | 13:45:00 | D | 21.40 |
| 271 | BATHINDA | TALWANDI SABO | S-NPP | 75.11166 | 30.04645 | 13:24:00 | D | 3.40  |
| 272 | BATHINDA | TALWANDI SABO | AQUA  | 75.22000 | 30.04700 | 13:45:00 | D | 12.10 |
| 273 | BATHINDA | TALWANDI SABO | S-NPP | 75.19886 | 30.04705 | 13:24:00 | D | 4.90  |
| 274 | BATHINDA | TALWANDI SABO | S-NPP | 75.12853 | 30.04929 | 13:24:00 | D | 5.70  |
| 275 | BATHINDA | TALWANDI SABO | S-NPP | 75.13696 | 30.05070 | 13:24:00 | D | 6.90  |
| 276 | BATHINDA | TALWANDI SABO | S-NPP | 75.12778 | 30.05268 | 13:24:00 | D | 5.70  |
| 277 | BATHINDA | TALWANDI SABO | S-NPP | 75.25411 | 30.05280 | 13:24:00 | D | 7.00  |
| 278 | BATHINDA | TALWANDI SABO | S-NPP | 75.13200 | 30.05338 | 13:24:00 | D | 6.90  |
| 279 | BATHINDA | TALWANDI SABO | S-NPP | 75.12206 | 30.05875 | 13:24:00 | D | 29.50 |
| 280 | BATHINDA | TALWANDI SABO | S-NPP | 75.14389 | 30.05889 | 13:24:00 | D | 6.50  |
| 281 | BATHINDA | TALWANDI SABO | S-NPP | 75.12628 | 30.05946 | 13:24:00 | D | 29.50 |
| 282 | BATHINDA | TALWANDI SABO | AQUA  | 75.17500 | 30.06000 | 13:45:00 | D | 12.40 |
| 283 | BATHINDA | TALWANDI SABO | AQUA  | 75.25600 | 30.08000 | 13:45:00 | D | 4.10  |
| 284 | BATHINDA | TALWANDI SABO | S-NPP | 75.08649 | 30.08093 | 13:24:00 | D | 5.70  |
| 285 | BATHINDA | TALWANDI SABO | S-NPP | 75.21284 | 30.10198 | 13:24:00 | D | 1.60  |
| 286 | BATHINDA | TALWANDI SABO | S-NPP | 75.22468 | 30.10745 | 13:24:00 | D | 2.70  |
| 287 | BATHINDA | TALWANDI SABO | S-NPP | 75.17547 | 30.11698 | 13:24:00 | D | 5.40  |
| 288 | FARIDKOT | FARIDKOT      | S-NPP | 74.78486 | 30.48220 | 13:24:00 | D | 4.40  |
| 289 | FARIDKOT | FARIDKOT      | S-NPP | 74.78409 | 30.48561 | 13:24:00 | D | 3.80  |
| 290 | FARIDKOT | FARIDKOT      | S-NPP | 74.78838 | 30.48635 | 13:24:00 | D | 3.80  |
| 291 | FARIDKOT | FARIDKOT      | S-NPP | 74.84642 | 30.52454 | 13:24:00 | D | 4.60  |
| 292 | FARIDKOT | FARIDKOT      | S-NPP | 74.72094 | 30.52796 | 13:24:00 | D | 3.00  |
| 293 | FARIDKOT | FARIDKOT      | S-NPP | 74.87827 | 30.54053 | 13:24:00 | D | 14.00 |
| 294 | FARIDKOT | FARIDKOT      | S-NPP | 74.87683 | 30.58614 | 13:24:00 | D | 7.50  |

|     |          |          |       |          |          |          |   |       |
|-----|----------|----------|-------|----------|----------|----------|---|-------|
| 295 | FARIDKOT | FARIDKOT | S-NPP | 74.92018 | 30.58989 | 13:24:00 | D | 15.60 |
| 296 | FARIDKOT | FARIDKOT | S-NPP | 74.88460 | 30.59096 | 13:24:00 | D | 4.00  |
| 297 | FARIDKOT | FARIDKOT | S-NPP | 74.76105 | 30.59385 | 13:24:00 | D | 3.70  |
| 298 | FARIDKOT | FARIDKOT | S-NPP | 74.77392 | 30.59605 | 13:24:00 | D | 3.80  |
| 299 | FARIDKOT | FARIDKOT | S-NPP | 74.84313 | 30.60435 | 13:24:00 | D | 5.10  |
| 300 | FARIDKOT | FARIDKOT | S-NPP | 74.93447 | 30.63047 | 13:24:00 | D | 3.70  |
| 301 | FARIDKOT | FARIDKOT | S-NPP | 74.93372 | 30.63386 | 13:24:00 | D | 13.70 |
| 302 | FARIDKOT | FARIDKOT | S-NPP | 74.61075 | 30.68777 | 13:24:00 | D | 2.80  |
| 303 | FARIDKOT | FARIDKOT | S-NPP | 74.61507 | 30.68851 | 13:24:00 | D | 3.30  |
| 304 | FARIDKOT | JAITO    | S-NPP | 74.91663 | 30.38234 | 13:24:00 | D | 19.30 |
| 305 | FARIDKOT | JAITO    | AQUA  | 74.91900 | 30.39200 | 13:45:00 | D | 6.20  |
| 306 | FARIDKOT | JAITO    | S-NPP | 74.82096 | 30.39700 | 13:24:00 | D | 13.90 |
| 307 | FARIDKOT | JAITO    | S-NPP | 74.96696 | 30.39721 | 13:24:00 | D | 3.60  |
| 308 | FARIDKOT | JAITO    | S-NPP | 74.88232 | 30.40041 | 13:24:00 | D | 5.60  |
| 309 | FARIDKOT | JAITO    | S-NPP | 74.83731 | 30.40333 | 13:24:00 | D | 3.30  |
| 310 | FARIDKOT | JAITO    | S-NPP | 74.79216 | 30.40624 | 13:24:00 | D | 7.10  |
| 311 | FARIDKOT | JAITO    | S-NPP | 74.92067 | 30.40695 | 13:24:00 | D | 8.90  |
| 312 | FARIDKOT | JAITO    | S-NPP | 74.79139 | 30.40965 | 13:24:00 | D | 7.10  |
| 313 | FARIDKOT | JAITO    | S-NPP | 74.91990 | 30.41035 | 13:24:00 | D | 8.90  |
| 314 | FARIDKOT | JAITO    | AQUA  | 74.89300 | 30.41600 | 13:45:00 | D | 11.20 |
| 315 | FARIDKOT | JAITO    | S-NPP | 74.89632 | 30.41692 | 13:24:00 | D | 2.50  |
| 316 | FARIDKOT | JAITO    | S-NPP | 74.79690 | 30.42475 | 13:24:00 | D | 2.50  |
| 317 | FARIDKOT | JAITO    | S-NPP | 74.80119 | 30.42548 | 13:24:00 | D | 2.50  |
| 318 | FARIDKOT | JAITO    | S-NPP | 74.88551 | 30.42567 | 13:24:00 | D | 7.30  |
| 319 | FARIDKOT | JAITO    | S-NPP | 74.88474 | 30.42907 | 13:24:00 | D | 21.30 |
| 320 | FARIDKOT | JAITO    | S-NPP | 74.82184 | 30.43253 | 13:24:00 | D | 3.40  |
| 321 | FARIDKOT | JAITO    | S-NPP | 74.91031 | 30.43341 | 13:24:00 | D | 2.00  |
| 322 | FARIDKOT | JAITO    | S-NPP | 75.01022 | 30.43975 | 13:24:00 | D | 3.70  |
| 323 | FARIDKOT | JAITO    | S-NPP | 74.81020 | 30.44470 | 13:24:00 | D | 8.30  |
| 324 | FARIDKOT | JAITO    | S-NPP | 75.02564 | 30.44938 | 13:24:00 | D | 4.00  |
| 325 | FARIDKOT | JAITO    | S-NPP | 74.82502 | 30.45782 | 13:24:00 | D | 2.90  |
| 326 | FARIDKOT | JAITO    | S-NPP | 74.82854 | 30.46195 | 13:24:00 | D | 4.60  |
| 327 | FARIDKOT | JAITO    | AQUA  | 74.87500 | 30.47800 | 13:45:00 | D | 17.30 |

|     |                 |                 |       |          |          |          |   |       |
|-----|-----------------|-----------------|-------|----------|----------|----------|---|-------|
| 328 | FARIDKOT        | JAITO           | AQUA  | 74.90000 | 30.50900 | 13:45:00 | D | 4.60  |
| 329 | FARIDKOT        | JAITO           | AQUA  | 74.91100 | 30.51100 | 13:45:00 | D | 6.50  |
| 330 | FARIDKOT        | JAITO           | S-NPP | 74.87630 | 30.52962 | 13:24:00 | D | 2.60  |
| 331 | FATEHGARH SAHIB | FATEHGARH SAHIB | S-NPP | 76.33413 | 30.54421 | 13:24:00 | D | 2.10  |
| 332 | FATEHGARH SAHIB | FATEHGARH SAHIB | S-NPP | 76.42860 | 30.62734 | 13:24:00 | D | 3.00  |
| 333 | FATEHGARH SAHIB | KHAMANOH        | S-NPP | 76.32383 | 30.79375 | 13:24:00 | D | 6.30  |
| 334 | FAZILKA         | FAZILKA         | S-NPP | 73.89852 | 30.37053 | 13:24:00 | D | 9.00  |
| 335 | FAZILKA         | FAZILKA         | AQUA  | 74.15700 | 30.49500 | 13:45:00 | D | 15.00 |
| 336 | LUDHIANA        | JAGRAON         | AQUA  | 75.40700 | 30.59800 | 13:45:00 | D | 7.70  |
| 337 | LUDHIANA        | LUDHIANA EAST   | S-NPP | 75.97056 | 30.97980 | 02:06:00 | N | 0.80  |
| 338 | LUDHIANA        | LUDHIANA EAST   | S-NPP | 75.97124 | 30.98311 | 02:06:00 | N | 0.80  |
| 339 | MANSA           | BUDHLADA        | S-NPP | 75.62699 | 29.75081 | 13:24:00 | D | 4.10  |
| 340 | MANSA           | BUDHLADA        | S-NPP | 75.60013 | 29.75678 | 13:24:00 | D | 8.10  |
| 341 | MANSA           | BUDHLADA        | S-NPP | 75.59941 | 29.76014 | 13:24:00 | D | 4.70  |
| 342 | MANSA           | BUDHLADA        | S-NPP | 75.68713 | 29.76771 | 13:24:00 | D | 6.00  |
| 343 | MANSA           | BUDHLADA        | S-NPP | 75.59722 | 29.77021 | 13:24:00 | D | 3.80  |
| 344 | MANSA           | BUDHLADA        | S-NPP | 75.62798 | 29.78572 | 13:24:00 | D | 12.50 |
| 345 | MANSA           | BUDHLADA        | AQUA  | 75.53600 | 29.78700 | 13:45:00 | D | 8.30  |
| 346 | MANSA           | BUDHLADA        | AQUA  | 75.54700 | 29.78900 | 13:45:00 | D | 8.10  |
| 347 | MANSA           | BUDHLADA        | S-NPP | 75.54121 | 29.79227 | 13:24:00 | D | 9.20  |
| 348 | MANSA           | BUDHLADA        | S-NPP | 75.50571 | 29.81776 | 13:24:00 | D | 1.90  |
| 349 | MANSA           | BUDHLADA        | AQUA  | 75.76400 | 29.82800 | 13:45:00 | D | 5.90  |
| 350 | MANSA           | BUDHLADA        | S-NPP | 75.40550 | 29.82931 | 13:24:00 | D | 5.30  |
| 351 | MANSA           | BUDHLADA        | S-NPP | 75.40477 | 29.83268 | 13:24:00 | D | 5.30  |
| 352 | MANSA           | BUDHLADA        | S-NPP | 75.46019 | 29.83497 | 13:24:00 | D | 4.10  |
| 353 | MANSA           | BUDHLADA        | S-NPP | 75.59992 | 29.83671 | 13:24:00 | D | 5.10  |
| 354 | MANSA           | BUDHLADA        | S-NPP | 75.58685 | 29.83804 | 13:24:00 | D | 2.60  |
| 355 | MANSA           | BUDHLADA        | S-NPP | 75.58611 | 29.84140 | 13:24:00 | D | 6.40  |
| 356 | MANSA           | BUDHLADA        | S-NPP | 75.68768 | 29.84412 | 13:24:00 | D | 5.30  |
| 357 | MANSA           | BUDHLADA        | S-NPP | 75.53051 | 29.84669 | 13:24:00 | D | 4.80  |
| 358 | MANSA           | BUDHLADA        | S-NPP | 75.72938 | 29.84745 | 13:24:00 | D | 8.30  |
| 359 | MANSA           | BUDHLADA        | S-NPP | 75.71228 | 29.84813 | 13:24:00 | D | 3.60  |
| 360 | MANSA           | BUDHLADA        | S-NPP | 75.52979 | 29.85005 | 13:24:00 | D | 5.50  |

|     |       |          |       |          |          |          |   |       |
|-----|-------|----------|-------|----------|----------|----------|---|-------|
| 361 | MANSA | BUDHLADA | S-NPP | 75.53805 | 29.85143 | 13:24:00 | D | 10.50 |
| 362 | MANSA | BUDHLADA | S-NPP | 75.76211 | 29.85278 | 13:24:00 | D | 2.10  |
| 363 | MANSA | BUDHLADA | AQUA  | 75.61300 | 29.85400 | 13:45:00 | D | 17.90 |
| 364 | MANSA | BUDHLADA | AQUA  | 75.70900 | 29.85700 | 13:45:00 | D | 16.90 |
| 365 | MANSA | BUDHLADA | S-NPP | 75.74840 | 29.85748 | 13:24:00 | D | 2.70  |
| 366 | MANSA | BUDHLADA | AQUA  | 75.74100 | 29.86100 | 13:45:00 | D | 12.70 |
| 367 | MANSA | BUDHLADA | S-NPP | 75.69361 | 29.88066 | 13:24:00 | D | 7.40  |
| 368 | MANSA | BUDHLADA | S-NPP | 75.47554 | 29.88285 | 13:24:00 | D | 3.60  |
| 369 | MANSA | BUDHLADA | S-NPP | 75.50644 | 29.94113 | 13:24:00 | D | 1.80  |
| 370 | MANSA | BUDHLADA | S-NPP | 75.59409 | 29.94760 | 13:24:00 | D | 3.90  |
| 371 | MANSA | BUDHLADA | S-NPP | 75.56791 | 29.95027 | 13:24:00 | D | 33.40 |
| 372 | MANSA | BUDHLADA | S-NPP | 75.56419 | 29.95074 | 13:24:00 | D | 9.50  |
| 373 | MANSA | BUDHLADA | S-NPP | 75.56832 | 29.95143 | 13:24:00 | D | 35.90 |
| 374 | MANSA | BUDHLADA | S-NPP | 75.58407 | 29.95752 | 13:24:00 | D | 7.10  |
| 375 | MANSA | BUDHLADA | S-NPP | 75.58334 | 29.96087 | 13:24:00 | D | 3.00  |
| 376 | MANSA | BUDHLADA | S-NPP | 75.55717 | 29.96348 | 13:24:00 | D | 3.00  |
| 377 | MANSA | BUDHLADA | S-NPP | 75.53510 | 29.96678 | 13:24:00 | D | 12.30 |
| 378 | MANSA | BUDHLADA | S-NPP | 75.59835 | 29.97031 | 13:24:00 | D | 6.10  |
| 379 | MANSA | BUDHLADA | S-NPP | 75.56396 | 29.97156 | 13:24:00 | D | 8.30  |
| 380 | MANSA | BUDHLADA | S-NPP | 75.59690 | 29.97701 | 13:24:00 | D | 3.10  |
| 381 | MANSA | BUDHLADA | S-NPP | 75.60101 | 29.97769 | 13:24:00 | D | 3.10  |
| 382 | MANSA | BUDHLADA | AQUA  | 75.52200 | 29.99700 | 13:45:00 | D | 22.60 |
| 383 | MANSA | BUDHLADA | S-NPP | 75.56226 | 29.99909 | 13:24:00 | D | 16.60 |
| 384 | MANSA | BUDHLADA | S-NPP | 75.65974 | 30.00126 | 13:24:00 | D | 1.90  |
| 385 | MANSA | BUDHLADA | S-NPP | 75.52708 | 30.00371 | 13:24:00 | D | 2.40  |
| 386 | MANSA | BUDHLADA | S-NPP | 75.55183 | 30.00779 | 13:24:00 | D | 2.30  |
| 387 | MANSA | BUDHLADA | S-NPP | 75.63488 | 30.01798 | 13:24:00 | D | 3.40  |
| 388 | MANSA | BUDHLADA | S-NPP | 75.66628 | 30.03006 | 13:24:00 | D | 2.00  |
| 389 | MANSA | MANSA    | S-NPP | 75.37978 | 29.88792 | 13:24:00 | D | 4.30  |
| 390 | MANSA | MANSA    | S-NPP | 75.45801 | 29.94699 | 13:24:00 | D | 8.80  |
| 391 | MANSA | MANSA    | S-NPP | 75.44312 | 29.97589 | 13:24:00 | D | 4.30  |
| 392 | MANSA | MANSA    | S-NPP | 75.51567 | 29.97747 | 13:24:00 | D | 2.70  |
| 393 | MANSA | MANSA    | S-NPP | 75.30332 | 29.98409 | 13:24:00 | D | 8.30  |

|     |       |       |       |          |          |          |   |       |
|-----|-------|-------|-------|----------|----------|----------|---|-------|
| 394 | MANSA | MANSA | S-NPP | 75.30110 | 29.99421 | 13:24:00 | D | 4.10  |
| 395 | MANSA | MANSA | S-NPP | 75.30035 | 29.99759 | 13:24:00 | D | 7.50  |
| 396 | MANSA | MANSA | S-NPP | 75.50570 | 30.00366 | 13:24:00 | D | 3.70  |
| 397 | MANSA | MANSA | S-NPP | 75.44407 | 30.01090 | 13:24:00 | D | 1.90  |
| 398 | MANSA | MANSA | S-NPP | 75.51250 | 30.01174 | 13:24:00 | D | 15.90 |
| 399 | MANSA | MANSA | S-NPP | 75.52489 | 30.01378 | 13:24:00 | D | 9.90  |
| 400 | MANSA | MANSA | S-NPP | 75.51177 | 30.01510 | 13:24:00 | D | 15.90 |
| 401 | MANSA | MANSA | S-NPP | 75.49863 | 30.01641 | 13:24:00 | D | 2.40  |
| 402 | MANSA | MANSA | S-NPP | 75.58820 | 30.01725 | 13:24:00 | D | 7.40  |
| 403 | MANSA | MANSA | S-NPP | 75.34331 | 30.01868 | 13:24:00 | D | 11.10 |
| 404 | MANSA | MANSA | S-NPP | 75.36488 | 30.01875 | 13:24:00 | D | 2.90  |
| 405 | MANSA | MANSA | S-NPP | 75.47234 | 30.01905 | 13:24:00 | D | 6.50  |
| 406 | MANSA | MANSA | S-NPP | 75.60465 | 30.01995 | 13:24:00 | D | 4.40  |
| 407 | MANSA | MANSA | S-NPP | 75.38152 | 30.02150 | 13:24:00 | D | 2.40  |
| 408 | MANSA | MANSA | S-NPP | 75.38569 | 30.02219 | 13:24:00 | D | 2.40  |
| 409 | MANSA | MANSA | S-NPP | 75.60393 | 30.02331 | 13:24:00 | D | 4.40  |
| 410 | MANSA | MANSA | S-NPP | 75.53509 | 30.02589 | 13:24:00 | D | 3.10  |
| 411 | MANSA | MANSA | S-NPP | 75.51298 | 30.02921 | 13:24:00 | D | 3.90  |
| 412 | MANSA | MANSA | S-NPP | 75.59691 | 30.03604 | 13:24:00 | D | 5.40  |
| 413 | MANSA | MANSA | AQUA  | 75.32100 | 30.04300 | 13:45:00 | D | 21.70 |
| 414 | MANSA | MANSA | S-NPP | 75.26470 | 30.04408 | 13:24:00 | D | 7.20  |
| 415 | MANSA | MANSA | S-NPP | 75.33790 | 30.04584 | 13:24:00 | D | 13.40 |
| 416 | MANSA | MANSA | S-NPP | 75.34206 | 30.04654 | 13:24:00 | D | 9.50  |
| 417 | MANSA | MANSA | S-NPP | 75.36777 | 30.04734 | 13:24:00 | D | 3.30  |
| 418 | MANSA | MANSA | S-NPP | 75.37193 | 30.04804 | 13:24:00 | D | 3.30  |
| 419 | MANSA | MANSA | S-NPP | 75.60708 | 30.04811 | 13:24:00 | D | 3.40  |
| 420 | MANSA | MANSA | S-NPP | 75.50821 | 30.05334 | 13:24:00 | D | 27.00 |
| 421 | MANSA | MANSA | S-NPP | 75.59740 | 30.05347 | 13:24:00 | D | 9.00  |
| 422 | MANSA | MANSA | S-NPP | 75.43909 | 30.05576 | 13:24:00 | D | 5.40  |
| 423 | MANSA | MANSA | S-NPP | 75.50748 | 30.05670 | 13:24:00 | D | 4.00  |
| 424 | MANSA | MANSA | S-NPP | 75.60490 | 30.05817 | 13:24:00 | D | 3.90  |
| 425 | MANSA | MANSA | S-NPP | 75.37388 | 30.05884 | 13:24:00 | D | 1.80  |
| 426 | MANSA | MANSA | AQUA  | 75.31300 | 30.06000 | 13:45:00 | D | 5.40  |

|     |       |       |       |          |          |          |   |       |
|-----|-------|-------|-------|----------|----------|----------|---|-------|
| 427 | MANSA | MANSA | S-NPP | 75.48048 | 30.06265 | 13:24:00 | D | 3.90  |
| 428 | MANSA | MANSA | S-NPP | 75.47562 | 30.06532 | 13:24:00 | D | 7.10  |
| 429 | MANSA | MANSA | AQUA  | 75.52900 | 30.07200 | 13:45:00 | D | 15.30 |
| 430 | MANSA | MANSA | S-NPP | 75.28877 | 30.07260 | 13:24:00 | D | 2.90  |
| 431 | MANSA | MANSA | S-NPP | 75.52521 | 30.07355 | 13:24:00 | D | 2.60  |
| 432 | MANSA | MANSA | S-NPP | 75.55820 | 30.07902 | 13:24:00 | D | 6.90  |
| 433 | MANSA | MANSA | S-NPP | 75.51962 | 30.07959 | 13:24:00 | D | 3.50  |
| 434 | MANSA | MANSA | S-NPP | 75.32143 | 30.08154 | 13:24:00 | D | 2.20  |
| 435 | MANSA | MANSA | AQUA  | 75.40400 | 30.08200 | 13:45:00 | D | 6.20  |
| 436 | MANSA | MANSA | AQUA  | 75.56900 | 30.08700 | 13:45:00 | D | 11.40 |
| 437 | MANSA | MANSA | S-NPP | 75.56498 | 30.08709 | 13:24:00 | D | 10.00 |
| 438 | MANSA | MANSA | S-NPP | 75.56911 | 30.08778 | 13:24:00 | D | 10.00 |
| 439 | MANSA | MANSA | AQUA  | 75.58000 | 30.08800 | 13:45:00 | D | 5.80  |
| 440 | MANSA | MANSA | S-NPP | 75.56425 | 30.09044 | 13:24:00 | D | 10.00 |
| 441 | MANSA | MANSA | S-NPP | 75.56837 | 30.09112 | 13:24:00 | D | 10.00 |
| 442 | MANSA | MANSA | S-NPP | 75.48704 | 30.09158 | 13:24:00 | D | 16.20 |
| 443 | MANSA | MANSA | S-NPP | 75.57661 | 30.09249 | 13:24:00 | D | 25.60 |
| 444 | MANSA | MANSA | S-NPP | 75.45246 | 30.09282 | 13:24:00 | D | 3.60  |
| 445 | MANSA | MANSA | S-NPP | 75.56765 | 30.09448 | 13:24:00 | D | 64.80 |
| 446 | MANSA | MANSA | S-NPP | 75.34004 | 30.09511 | 13:24:00 | D | 2.10  |
| 447 | MANSA | MANSA | AQUA  | 75.32700 | 30.09900 | 13:45:00 | D | 10.30 |
| 448 | MANSA | MANSA | S-NPP | 75.54073 | 30.10046 | 13:24:00 | D | 4.10  |
| 449 | MANSA | MANSA | AQUA  | 75.47600 | 30.10100 | 13:45:00 | D | 10.50 |
| 450 | MANSA | MANSA | S-NPP | 75.52350 | 30.10109 | 13:24:00 | D | 14.80 |
| 451 | MANSA | MANSA | S-NPP | 75.36428 | 30.10262 | 13:24:00 | D | 3.20  |
| 452 | MANSA | MANSA | S-NPP | 75.52277 | 30.10444 | 13:24:00 | D | 14.80 |
| 453 | MANSA | MANSA | S-NPP | 75.64165 | 30.10667 | 13:24:00 | D | 1.40  |
| 454 | MANSA | MANSA | S-NPP | 75.48679 | 30.11242 | 13:24:00 | D | 3.10  |
| 455 | MANSA | MANSA | S-NPP | 75.52956 | 30.11251 | 13:24:00 | D | 6.50  |
| 456 | MANSA | MANSA | S-NPP | 75.59355 | 30.11263 | 13:24:00 | D | 1.30  |
| 457 | MANSA | MANSA | S-NPP | 75.38287 | 30.11616 | 13:24:00 | D | 1.50  |
| 458 | MANSA | MANSA | S-NPP | 75.61822 | 30.11669 | 13:24:00 | D | 3.00  |
| 459 | MANSA | MANSA | S-NPP | 75.34394 | 30.11670 | 13:24:00 | D | 22.10 |

|     |       |            |       |          |          |          |   |       |
|-----|-------|------------|-------|----------|----------|----------|---|-------|
| 460 | MANSA | MANSA      | S-NPP | 75.57975 | 30.11730 | 13:24:00 | D | 3.70  |
| 461 | MANSA | MANSA      | S-NPP | 75.44587 | 30.12307 | 13:24:00 | D | 3.90  |
| 462 | MANSA | MANSA      | S-NPP | 75.45415 | 30.12444 | 13:24:00 | D | 7.70  |
| 463 | MANSA | MANSA      | AQUA  | 75.58900 | 30.12500 | 13:45:00 | D | 5.00  |
| 464 | MANSA | MANSA      | S-NPP | 75.52251 | 30.12526 | 13:24:00 | D | 5.50  |
| 465 | MANSA | MANSA      | S-NPP | 75.52665 | 30.12593 | 13:24:00 | D | 5.50  |
| 466 | MANSA | MANSA      | S-NPP | 75.46658 | 30.12648 | 13:24:00 | D | 26.60 |
| 467 | MANSA | MANSA      | S-NPP | 75.34589 | 30.12750 | 13:24:00 | D | 5.90  |
| 468 | MANSA | MANSA      | S-NPP | 75.56037 | 30.12800 | 13:24:00 | D | 2.10  |
| 469 | MANSA | MANSA      | AQUA  | 75.56600 | 30.13200 | 13:45:00 | D | 5.00  |
| 470 | MANSA | MANSA      | S-NPP | 75.48240 | 30.13256 | 13:24:00 | D | 3.00  |
| 471 | MANSA | MANSA      | S-NPP | 75.61460 | 30.13343 | 13:24:00 | D | 5.30  |
| 472 | MANSA | MANSA      | AQUA  | 75.44800 | 30.13400 | 13:45:00 | D | 10.50 |
| 473 | MANSA | MANSA      | S-NPP | 75.56715 | 30.13606 | 13:24:00 | D | 4.50  |
| 474 | MANSA | MANSA      | S-NPP | 75.61387 | 30.13678 | 13:24:00 | D | 2.90  |
| 475 | MANSA | MANSA      | S-NPP | 75.51547 | 30.13800 | 13:24:00 | D | 9.60  |
| 476 | MANSA | MANSA      | S-NPP | 75.51959 | 30.13867 | 13:24:00 | D | 10.40 |
| 477 | MANSA | MANSA      | S-NPP | 75.36991 | 30.13918 | 13:24:00 | D | 2.70  |
| 478 | MANSA | MANSA      | S-NPP | 75.35448 | 30.15055 | 13:24:00 | D | 1.70  |
| 479 | MANSA | MANSA      | S-NPP | 75.38553 | 30.16620 | 13:24:00 | D | 2.40  |
| 480 | MANSA | MANSA      | AQUA  | 75.46600 | 30.17400 | 13:45:00 | D | 6.80  |
| 481 | MANSA | MANSA      | S-NPP | 75.37086 | 30.17422 | 13:24:00 | D | 9.30  |
| 482 | MANSA | MANSA      | S-NPP | 75.39236 | 30.17432 | 13:24:00 | D | 3.00  |
| 483 | MANSA | MANSA      | S-NPP | 75.45675 | 30.17457 | 13:24:00 | D | 1.00  |
| 484 | MANSA | MANSA      | S-NPP | 75.47815 | 30.17464 | 13:24:00 | D | 5.10  |
| 485 | MANSA | MANSA      | S-NPP | 75.48155 | 30.17869 | 13:24:00 | D | 5.10  |
| 486 | MANSA | MANSA      | S-NPP | 75.36522 | 30.18026 | 13:24:00 | D | 3.30  |
| 487 | MANSA | MANSA      | S-NPP | 75.39089 | 30.18104 | 13:24:00 | D | 2.80  |
| 488 | MANSA | MANSA      | S-NPP | 75.38184 | 30.18303 | 13:24:00 | D | 4.70  |
| 489 | MANSA | MANSA      | S-NPP | 75.37206 | 30.18837 | 13:24:00 | D | 2.70  |
| 490 | MANSA | MANSA      | S-NPP | 75.38573 | 30.20459 | 13:24:00 | D | 3.30  |
| 491 | MANSA | MANSA      | S-NPP | 75.38988 | 30.20527 | 13:24:00 | D | 3.30  |
| 492 | MANSA | SARDULGARH | AQUA  | 75.29400 | 29.56100 | 13:45:00 | D | 11.30 |



|     |         |                  |       |          |          |          |   |       |
|-----|---------|------------------|-------|----------|----------|----------|---|-------|
| 493 | MANSA   | SARDULGARH       | S-NPP | 75.26207 | 29.56344 | 13:24:00 | D | 5.60  |
| 494 | MANSA   | SARDULGARH       | S-NPP | 75.33056 | 29.66938 | 13:24:00 | D | 6.90  |
| 495 | MANSA   | SARDULGARH       | S-NPP | 75.38409 | 29.72425 | 13:24:00 | D | 9.10  |
| 496 | MANSA   | SARDULGARH       | S-NPP | 75.38825 | 29.72495 | 13:24:00 | D | 9.10  |
| 497 | MANSA   | SARDULGARH       | S-NPP | 75.30843 | 29.79900 | 13:24:00 | D | 2.60  |
| 498 | MOGA    | BAGHA PURANA     | S-NPP | 75.00157 | 30.49806 | 13:24:00 | D | 3.10  |
| 499 | MOGA    | BAGHA PURANA     | AQUA  | 74.98800 | 30.54900 | 13:45:00 | D | 34.90 |
| 500 | MOGA    | BAGHA PURANA     | AQUA  | 74.99900 | 30.55100 | 13:45:00 | D | 13.30 |
| 501 | MOGA    | BAGHA PURANA     | S-NPP | 75.12955 | 30.61433 | 13:24:00 | D | 4.10  |
| 502 | MOGA    | BAGHA PURANA     | S-NPP | 74.94949 | 30.62246 | 13:24:00 | D | 2.70  |
| 503 | MOGA    | BAGHA PURANA     | S-NPP | 74.95993 | 30.63478 | 13:24:00 | D | 3.70  |
| 504 | MOGA    | BAGHA PURANA     | S-NPP | 74.95917 | 30.63817 | 13:24:00 | D | 12.10 |
| 505 | MOGA    | BAGHA PURANA     | AQUA  | 75.11700 | 30.70500 | 13:45:00 | D | 11.70 |
| 506 | MOGA    | NIHAL SINGH WALA | S-NPP | 75.34953 | 30.59856 | 13:24:00 | D | 8.20  |
| 507 | MOGA    | NIHAL SINGH WALA | AQUA  | 75.34100 | 30.63400 | 13:45:00 | D | 5.40  |
| 508 | MUKTSAR | GIDDARBAHA       | AQUA  | 74.61400 | 30.17400 | 13:45:00 | D | 15.40 |
| 509 | MUKTSAR | GIDDARBAHA       | AQUA  | 74.61200 | 30.18300 | 13:45:00 | D | 10.50 |
| 510 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.55227 | 30.27067 | 13:24:00 | D | 8.90  |
| 511 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.61494 | 30.31356 | 13:24:00 | D | 3.60  |
| 512 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.73895 | 30.34176 | 13:24:00 | D | 3.10  |
| 513 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.74756 | 30.34323 | 13:24:00 | D | 3.20  |
| 514 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.72014 | 30.34568 | 13:24:00 | D | 7.90  |
| 515 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.69073 | 30.36045 | 13:24:00 | D | 2.90  |
| 516 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.74832 | 30.36328 | 13:24:00 | D | 2.50  |
| 517 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.72956 | 30.36714 | 13:24:00 | D | 2.70  |
| 518 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.72878 | 30.37056 | 13:24:00 | D | 2.70  |
| 519 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.69039 | 30.38172 | 13:24:00 | D | 2.90  |
| 520 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.81393 | 30.38872 | 13:24:00 | D | 5.80  |
| 521 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.65190 | 30.39289 | 13:24:00 | D | 11.40 |
| 522 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.70302 | 30.40520 | 13:24:00 | D | 10.70 |
| 523 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.68496 | 30.40567 | 13:24:00 | D | 25.20 |
| 524 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.65433 | 30.42177 | 13:24:00 | D | 1.70  |
| 525 | MUKTSAR | GIDDARBAHA       | S-NPP | 74.65556 | 30.43620 | 13:24:00 | D | 2.40  |

|     |         |            |       |          |          |          |   |       |
|-----|---------|------------|-------|----------|----------|----------|---|-------|
| 526 | MUKTSAR | GIDDARBAHA | S-NPP | 74.71839 | 30.43622 | 13:24:00 | D | 4.00  |
| 527 | MUKTSAR | GIDDARBAHA | S-NPP | 74.71761 | 30.43964 | 13:24:00 | D | 4.00  |
| 528 | MUKTSAR | GIDDARBAHA | S-NPP | 74.63480 | 30.45279 | 13:24:00 | D | 3.20  |
| 529 | MUKTSAR | GIDDARBAHA | S-NPP | 74.65999 | 30.46070 | 13:24:00 | D | 3.00  |
| 530 | MUKTSAR | GIDDARBAHA | S-NPP | 74.66864 | 30.46220 | 13:24:00 | D | 11.70 |
| 531 | MUKTSAR | GIDDARBAHA | S-NPP | 74.66354 | 30.46487 | 13:24:00 | D | 22.70 |
| 532 | MUKTSAR | GIDDARBAHA | S-NPP | 74.66786 | 30.46562 | 13:24:00 | D | 22.70 |
| 533 | MUKTSAR | GIDDARBAHA | S-NPP | 74.63447 | 30.47408 | 13:24:00 | D | 5.10  |
| 534 | MUKTSAR | MALAUT     | S-NPP | 74.68295 | 29.97721 | 13:24:00 | D | 3.00  |
| 535 | MUKTSAR | MALAUT     | S-NPP | 74.69364 | 29.98975 | 13:24:00 | D | 4.90  |
| 536 | MUKTSAR | MALAUT     | S-NPP | 74.69643 | 29.99735 | 13:24:00 | D | 2.60  |
| 537 | MUKTSAR | MALAUT     | S-NPP | 74.69434 | 30.03113 | 13:24:00 | D | 4.00  |
| 538 | MUKTSAR | MALAUT     | S-NPP | 74.46860 | 30.08525 | 13:24:00 | D | 3.10  |
| 539 | MUKTSAR | MALAUT     | S-NPP | 74.44054 | 30.08762 | 13:24:00 | D | 9.20  |
| 540 | MUKTSAR | MALAUT     | S-NPP | 74.44495 | 30.08838 | 13:24:00 | D | 5.10  |
| 541 | MUKTSAR | MALAUT     | S-NPP | 74.44209 | 30.08859 | 13:24:00 | D | 15.10 |
| 542 | MUKTSAR | MALAUT     | S-NPP | 74.54691 | 30.10225 | 13:24:00 | D | 3.10  |
| 543 | MUKTSAR | MALAUT     | S-NPP | 74.66859 | 30.10516 | 13:24:00 | D | 2.90  |
| 544 | MUKTSAR | MALAUT     | S-NPP | 74.44176 | 30.11012 | 13:24:00 | D | 6.60  |
| 545 | MUKTSAR | MALAUT     | AQUA  | 74.50300 | 30.14900 | 13:45:00 | D | 8.90  |
| 546 | MUKTSAR | MALAUT     | S-NPP | 74.45345 | 30.26436 | 13:24:00 | D | 2.60  |
| 547 | MUKTSAR | MALAUT     | S-NPP | 74.47149 | 30.28540 | 13:24:00 | D | 5.40  |
| 548 | MUKTSAR | MALAUT     | S-NPP | 74.46630 | 30.28810 | 13:24:00 | D | 5.40  |
| 549 | MUKTSAR | MALAUT     | S-NPP | 74.47070 | 30.28885 | 13:24:00 | D | 5.40  |
| 550 | MUKTSAR | MALAUT     | S-NPP | 74.47870 | 30.29381 | 13:24:00 | D | 9.60  |
| 551 | MUKTSAR | MALAUT     | S-NPP | 74.43874 | 30.31309 | 13:24:00 | D | 4.40  |
| 552 | MUKTSAR | MUKTSAR    | S-NPP | 74.48905 | 30.33262 | 13:24:00 | D | 6.70  |
| 553 | MUKTSAR | MUKTSAR    | S-NPP | 74.50903 | 30.36472 | 13:24:00 | D | 8.50  |
| 554 | MUKTSAR | MUKTSAR    | S-NPP | 74.50825 | 30.36817 | 13:24:00 | D | 8.50  |
| 555 | MUKTSAR | MUKTSAR    | S-NPP | 74.54723 | 30.39632 | 13:24:00 | D | 3.00  |
| 556 | MUKTSAR | MUKTSAR    | S-NPP | 74.56197 | 30.43096 | 13:24:00 | D | 3.50  |
| 557 | MUKTSAR | MUKTSAR    | S-NPP | 74.68513 | 30.46860 | 13:24:00 | D | 3.80  |
| 558 | MUKTSAR | MUKTSAR    | S-NPP | 74.69420 | 30.48791 | 13:24:00 | D | 1.90  |

|     |           |           |       |          |          |          |   |       |
|-----|-----------|-----------|-------|----------|----------|----------|---|-------|
| 559 | MUKTSAR   | MUKTSAR   | S-NPP | 74.63689 | 30.56894 | 13:24:00 | D | 5.00  |
| 560 | MUKTSAR   | MUKTSAR   | S-NPP | 74.63887 | 30.57994 | 13:24:00 | D | 6.30  |
| 561 | MUKTSAR   | MUKTSAR   | S-NPP | 74.64320 | 30.58069 | 13:24:00 | D | 6.30  |
| 562 | MUKTSAR   | MUKTSAR   | S-NPP | 74.63731 | 30.58679 | 13:24:00 | D | 3.40  |
| 563 | NAWASHAHR | NAWASHAHR | S-NPP | 76.21129 | 31.11245 | 02:06:00 | N | 0.50  |
| 564 | PATIALA   | NABHA     | AQUA  | 76.07000 | 30.34500 | 13:45:00 | D | 11.20 |
| 565 | PATIALA   | NABHA     | S-NPP | 76.10972 | 30.36007 | 13:24:00 | D | 2.70  |
| 566 | PATIALA   | NABHA     | AQUA  | 76.08700 | 30.37500 | 13:45:00 | D | 12.30 |
| 567 | PATIALA   | NABHA     | S-NPP | 76.06506 | 30.43724 | 13:24:00 | D | 2.00  |
| 568 | PATIALA   | NABHA     | S-NPP | 76.09898 | 30.47598 | 13:24:00 | D | 4.30  |
| 569 | PATIALA   | NABHA     | AQUA  | 76.10300 | 30.49800 | 13:45:00 | D | 5.90  |
| 570 | PATIALA   | NABHA     | S-NPP | 76.30479 | 30.52590 | 13:24:00 | D | 2.30  |
| 571 | PATIALA   | PATIALA   | S-NPP | 76.31881 | 30.25371 | 13:24:00 | D | 3.90  |
| 572 | PATIALA   | PATIALA   | AQUA  | 76.20800 | 30.26400 | 13:45:00 | D | 9.20  |
| 573 | PATIALA   | PATIALA   | AQUA  | 76.20900 | 30.28200 | 13:45:00 | D | 18.30 |
| 574 | PATIALA   | PATIALA   | AQUA  | 76.32000 | 30.28600 | 13:45:00 | D | 15.70 |
| 575 | PATIALA   | PATIALA   | AQUA  | 76.31800 | 30.29600 | 13:45:00 | D | 8.80  |
| 576 | PATIALA   | PATIALA   | S-NPP | 76.24784 | 30.31695 | 13:24:00 | D | 2.00  |
| 577 | PATIALA   | PATIALA   | S-NPP | 76.24977 | 30.32753 | 13:24:00 | D | 2.80  |
| 578 | PATIALA   | PATIALA   | AQUA  | 76.32900 | 30.36300 | 13:45:00 | D | 8.00  |
| 579 | PATIALA   | PATIALA   | AQUA  | 76.34000 | 30.36400 | 13:45:00 | D | 4.20  |
| 580 | PATIALA   | PATIALA   | AQUA  | 76.35100 | 30.40000 | 13:45:00 | D | 5.50  |
| 581 | PATIALA   | RAJPURA   | S-NPP | 76.70994 | 30.37932 | 13:24:00 | D | 4.80  |
| 582 | PATIALA   | SAMANA    | AQUA  | 76.09200 | 29.87200 | 13:45:00 | D | 10.90 |
| 583 | PATIALA   | SAMANA    | S-NPP | 76.03728 | 29.88352 | 13:24:00 | D | 2.20  |
| 584 | PATIALA   | SAMANA    | S-NPP | 76.10873 | 29.94489 | 13:24:00 | D | 2.00  |
| 585 | PATIALA   | SAMANA    | AQUA  | 76.13400 | 29.97000 | 13:45:00 | D | 3.90  |
| 586 | PATIALA   | SAMANA    | AQUA  | 76.05800 | 29.99500 | 13:45:00 | D | 6.20  |
| 587 | PATIALA   | SAMANA    | S-NPP | 76.15131 | 29.99982 | 13:24:00 | D | 8.60  |
| 588 | PATIALA   | SAMANA    | S-NPP | 76.15534 | 30.00046 | 13:24:00 | D | 9.30  |
| 589 | PATIALA   | SAMANA    | S-NPP | 76.13644 | 30.01117 | 13:24:00 | D | 2.60  |
| 590 | PATIALA   | SAMANA    | AQUA  | 76.08400 | 30.03600 | 13:45:00 | D | 9.20  |
| 591 | PATIALA   | SAMANA    | AQUA  | 76.14600 | 30.05300 | 13:45:00 | D | 5.70  |

|     |         |        |       |          |          |          |   |       |
|-----|---------|--------|-------|----------|----------|----------|---|-------|
| 592 | PATIALA | SAMANA | S-NPP | 76.19435 | 30.07427 | 13:24:00 | D | 3.30  |
| 593 | PATIALA | SAMANA | S-NPP | 76.11294 | 30.08523 | 13:24:00 | D | 4.00  |
| 594 | PATIALA | SAMANA | AQUA  | 76.13500 | 30.14400 | 13:45:00 | D | 32.60 |
| 595 | PATIALA | SAMANA | S-NPP | 76.23740 | 30.14625 | 13:24:00 | D | 2.50  |
| 596 | PATIALA | SAMANA | S-NPP | 76.07860 | 30.15024 | 13:24:00 | D | 10.50 |
| 597 | PATIALA | SAMANA | S-NPP | 76.06842 | 30.15890 | 13:24:00 | D | 3.50  |
| 598 | PATIALA | SAMANA | S-NPP | 76.05401 | 30.18750 | 13:24:00 | D | 2.20  |
| 599 | PATIALA | SAMANA | S-NPP | 76.26169 | 30.18988 | 13:24:00 | D | 1.30  |
| 600 | PATIALA | SAMANA | AQUA  | 76.19600 | 30.20600 | 13:45:00 | D | 14.00 |
| 601 | PATIALA | SAMANA | AQUA  | 76.07400 | 30.20900 | 13:45:00 | D | 8.90  |
| 602 | PATIALA | SAMANA | S-NPP | 76.17622 | 30.22079 | 13:24:00 | D | 5.40  |
| 603 | PATIALA | SAMANA | S-NPP | 76.17553 | 30.22411 | 13:24:00 | D | 5.40  |
| 604 | PATIALA | SAMANA | S-NPP | 76.15118 | 30.24080 | 13:24:00 | D | 12.40 |
| 605 | SANGRUR | DHURI  | AQUA  | 75.69300 | 30.31400 | 13:45:00 | D | 11.20 |
| 606 | SANGRUR | DHURI  | S-NPP | 75.68758 | 30.31417 | 13:24:00 | D | 5.20  |
| 607 | SANGRUR | DHURI  | S-NPP | 75.69168 | 30.31484 | 13:24:00 | D | 5.20  |
| 608 | SANGRUR | DHURI  | S-NPP | 75.68276 | 30.31684 | 13:24:00 | D | 9.00  |
| 609 | SANGRUR | DHURI  | S-NPP | 75.67386 | 30.31884 | 13:24:00 | D | 4.20  |
| 610 | SANGRUR | DHURI  | S-NPP | 75.69842 | 30.32286 | 13:24:00 | D | 14.20 |
| 611 | SANGRUR | DHURI  | AQUA  | 75.69200 | 30.32300 | 13:45:00 | D | 8.70  |
| 612 | SANGRUR | DHURI  | AQUA  | 75.72300 | 30.32700 | 13:45:00 | D | 5.50  |
| 613 | SANGRUR | DHURI  | S-NPP | 75.73041 | 30.33155 | 13:24:00 | D | 3.20  |
| 614 | SANGRUR | DHURI  | S-NPP | 75.86565 | 30.35014 | 13:24:00 | D | 4.60  |
| 615 | SANGRUR | DHURI  | S-NPP | 75.86494 | 30.35347 | 13:24:00 | D | 3.70  |
| 616 | SANGRUR | DHURI  | S-NPP | 75.69651 | 30.37094 | 13:24:00 | D | 2.90  |
| 617 | SANGRUR | DHURI  | AQUA  | 75.72400 | 30.38300 | 13:45:00 | D | 23.20 |
| 618 | SANGRUR | DHURI  | AQUA  | 75.73500 | 30.38400 | 13:45:00 | D | 11.70 |
| 619 | SANGRUR | DHURI  | S-NPP | 75.79720 | 30.39419 | 13:24:00 | D | 6.40  |
| 620 | SANGRUR | DHURI  | AQUA  | 75.71400 | 30.49100 | 13:45:00 | D | 11.50 |
| 621 | SANGRUR | MOONAK | S-NPP | 75.99393 | 29.75050 | 13:24:00 | D | 4.60  |
| 622 | SANGRUR | MOONAK | S-NPP | 76.02226 | 29.75508 | 13:24:00 | D | 2.40  |
| 623 | SANGRUR | MOONAK | S-NPP | 76.04704 | 29.77630 | 13:24:00 | D | 1.90  |
| 624 | SANGRUR | MOONAK | S-NPP | 75.90147 | 29.79255 | 13:24:00 | D | 3.70  |

|     |         |         |       |          |          |          |   |       |
|-----|---------|---------|-------|----------|----------|----------|---|-------|
| 625 | SANGRUR | MOONAK  | S-NPP | 75.90076 | 29.79589 | 13:24:00 | D | 9.30  |
| 626 | SANGRUR | MOONAK  | S-NPP | 76.06374 | 29.79619 | 13:24:00 | D | 15.50 |
| 627 | SANGRUR | MOONAK  | S-NPP | 76.03807 | 29.79895 | 13:24:00 | D | 3.20  |
| 628 | SANGRUR | MOONAK  | S-NPP | 75.92919 | 29.80053 | 13:24:00 | D | 8.00  |
| 629 | SANGRUR | MOONAK  | S-NPP | 76.07919 | 29.80211 | 13:24:00 | D | 8.40  |
| 630 | SANGRUR | MOONAK  | S-NPP | 76.05758 | 29.80553 | 13:24:00 | D | 5.50  |
| 631 | SANGRUR | MOONAK  | AQUA  | 75.77500 | 29.82900 | 13:45:00 | D | 5.40  |
| 632 | SANGRUR | MOONAK  | AQUA  | 75.91500 | 29.82900 | 13:45:00 | D | 17.60 |
| 633 | SANGRUR | MOONAK  | S-NPP | 75.98434 | 29.83709 | 13:24:00 | D | 4.40  |
| 634 | SANGRUR | MOONAK  | S-NPP | 76.05048 | 29.84091 | 13:24:00 | D | 6.20  |
| 635 | SANGRUR | MOONAK  | S-NPP | 76.09630 | 29.84144 | 13:24:00 | D | 4.40  |
| 636 | SANGRUR | MOONAK  | S-NPP | 76.05451 | 29.84157 | 13:24:00 | D | 5.40  |
| 637 | SANGRUR | MOONAK  | S-NPP | 76.09560 | 29.84476 | 13:24:00 | D | 4.40  |
| 638 | SANGRUR | MOONAK  | AQUA  | 75.94300 | 29.85200 | 13:45:00 | D | 11.20 |
| 639 | SANGRUR | MOONAK  | S-NPP | 76.02200 | 29.85696 | 13:24:00 | D | 9.10  |
| 640 | SANGRUR | MOONAK  | S-NPP | 75.89610 | 29.85727 | 13:24:00 | D | 4.30  |
| 641 | SANGRUR | MOONAK  | S-NPP | 76.00298 | 29.86767 | 13:24:00 | D | 14.20 |
| 642 | SANGRUR | MOONAK  | S-NPP | 76.05293 | 29.86884 | 13:24:00 | D | 2.30  |
| 643 | SANGRUR | MOONAK  | AQUA  | 76.00500 | 29.86900 | 13:45:00 | D | 14.90 |
| 644 | SANGRUR | MOONAK  | S-NPP | 76.00228 | 29.87100 | 13:24:00 | D | 14.20 |
| 645 | SANGRUR | MOONAK  | S-NPP | 75.98518 | 29.89235 | 13:24:00 | D | 12.70 |
| 646 | SANGRUR | MOONAK  | S-NPP | 75.98923 | 29.89300 | 13:24:00 | D | 12.70 |
| 647 | SANGRUR | MOONAK  | S-NPP | 75.84544 | 29.90213 | 13:24:00 | D | 11.30 |
| 648 | SANGRUR | MOONAK  | S-NPP | 75.85764 | 29.90413 | 13:24:00 | D | 4.20  |
| 649 | SANGRUR | MOONAK  | AQUA  | 75.95900 | 29.90900 | 13:45:00 | D | 10.50 |
| 650 | SANGRUR | MOONAK  | S-NPP | 75.96940 | 29.91200 | 13:24:00 | D | 11.50 |
| 651 | SANGRUR | MOONAK  | S-NPP | 75.92673 | 29.91540 | 13:24:00 | D | 5.30  |
| 652 | SANGRUR | MOONAK  | S-NPP | 75.87178 | 29.91680 | 13:24:00 | D | 3.80  |
| 653 | SANGRUR | MOONAK  | S-NPP | 75.97468 | 29.92665 | 13:24:00 | D | 8.40  |
| 654 | SANGRUR | MOONAK  | S-NPP | 75.98805 | 29.94259 | 13:24:00 | D | 11.20 |
| 655 | SANGRUR | MOONAK  | AQUA  | 75.94200 | 29.94400 | 13:45:00 | D | 9.30  |
| 656 | SANGRUR | MOONAK  | AQUA  | 75.90600 | 29.99300 | 13:45:00 | D | 10.10 |
| 657 | SANGRUR | SANGRUR | AQUA  | 75.62800 | 30.14900 | 13:45:00 | D | 5.70  |

|     |         |         |       |          |          |          |   |       |
|-----|---------|---------|-------|----------|----------|----------|---|-------|
| 658 | SANGRUR | SANGRUR | S-NPP | 76.02872 | 30.14906 | 13:24:00 | D | 3.70  |
| 659 | SANGRUR | SANGRUR | AQUA  | 75.96200 | 30.15700 | 13:45:00 | D | 9.80  |
| 660 | SANGRUR | SANGRUR | S-NPP | 76.02185 | 30.16171 | 13:24:00 | D | 29.30 |
| 661 | SANGRUR | SANGRUR | S-NPP | 75.64239 | 30.16224 | 13:24:00 | D | 2.50  |
| 662 | SANGRUR | SANGRUR | S-NPP | 75.65398 | 30.16759 | 13:24:00 | D | 3.60  |
| 663 | SANGRUR | SANGRUR | S-NPP | 75.65808 | 30.16826 | 13:24:00 | D | 1.60  |
| 664 | SANGRUR | SANGRUR | S-NPP | 75.59795 | 30.17366 | 13:24:00 | D | 1.50  |
| 665 | SANGRUR | SANGRUR | S-NPP | 75.69281 | 30.18429 | 13:24:00 | D | 2.60  |
| 666 | SANGRUR | SANGRUR | S-NPP | 75.59505 | 30.18706 | 13:24:00 | D | 6.20  |
| 667 | SANGRUR | SANGRUR | S-NPP | 75.59917 | 30.18773 | 13:24:00 | D | 6.20  |
| 668 | SANGRUR | SANGRUR | AQUA  | 75.56900 | 30.19700 | 13:45:00 | D | 16.60 |
| 669 | SANGRUR | SANGRUR | S-NPP | 76.01004 | 30.19762 | 13:24:00 | D | 1.20  |
| 670 | SANGRUR | SANGRUR | S-NPP | 75.95384 | 30.20578 | 13:24:00 | D | 1.60  |
| 671 | SANGRUR | SANGRUR | S-NPP | 75.99983 | 30.20629 | 13:24:00 | D | 12.60 |
| 672 | SANGRUR | SANGRUR | S-NPP | 75.78963 | 30.20867 | 13:24:00 | D | 2.20  |
| 673 | SANGRUR | SANGRUR | S-NPP | 75.99911 | 30.20962 | 13:24:00 | D | 12.60 |
| 674 | SANGRUR | SANGRUR | AQUA  | 75.59900 | 30.21000 | 13:45:00 | D | 11.10 |
| 675 | SANGRUR | SANGRUR | S-NPP | 75.67905 | 30.21128 | 13:24:00 | D | 5.00  |
| 676 | SANGRUR | SANGRUR | S-NPP | 75.78892 | 30.21200 | 13:24:00 | D | 10.40 |
| 677 | SANGRUR | SANGRUR | AQUA  | 75.62000 | 30.21300 | 13:45:00 | D | 16.70 |
| 678 | SANGRUR | SANGRUR | AQUA  | 75.65200 | 30.21700 | 13:45:00 | D | 11.00 |
| 679 | SANGRUR | SANGRUR | S-NPP | 75.65230 | 30.21727 | 13:24:00 | D | 4.10  |
| 680 | SANGRUR | SANGRUR | S-NPP | 75.95911 | 30.22039 | 13:24:00 | D | 2.50  |
| 681 | SANGRUR | SANGRUR | S-NPP | 75.77862 | 30.22067 | 13:24:00 | D | 5.10  |
| 682 | SANGRUR | SANGRUR | S-NPP | 75.70628 | 30.22267 | 13:24:00 | D | 4.50  |
| 683 | SANGRUR | SANGRUR | S-NPP | 75.95840 | 30.22372 | 13:24:00 | D | 2.50  |
| 684 | SANGRUR | SANGRUR | S-NPP | 76.01653 | 30.22616 | 13:24:00 | D | 1.40  |
| 685 | SANGRUR | SANGRUR | S-NPP | 75.72938 | 30.23336 | 13:24:00 | D | 7.40  |
| 686 | SANGRUR | SANGRUR | AQUA  | 75.71300 | 30.23500 | 13:45:00 | D | 28.70 |
| 687 | SANGRUR | SANGRUR | S-NPP | 76.12157 | 30.24294 | 13:24:00 | D | 3.90  |
| 688 | SANGRUR | SANGRUR | S-NPP | 76.12086 | 30.24626 | 13:24:00 | D | 2.20  |
| 689 | SANGRUR | SANGRUR | S-NPP | 75.76665 | 30.25671 | 13:24:00 | D | 5.20  |
| 690 | SANGRUR | SANGRUR | AQUA  | 76.19800 | 30.28000 | 13:45:00 | D | 11.40 |

|     |         |         |       |          |          |          |   |       |
|-----|---------|---------|-------|----------|----------|----------|---|-------|
| 691 | SANGRUR | SANGRUR | S-NPP | 75.99571 | 30.28690 | 13:24:00 | D | 6.30  |
| 692 | SANGRUR | SANGRUR | S-NPP | 75.98285 | 30.28826 | 13:24:00 | D | 4.00  |
| 693 | SANGRUR | SANGRUR | S-NPP | 75.97809 | 30.29093 | 13:24:00 | D | 4.20  |
| 694 | SANGRUR | SANGRUR | S-NPP | 75.98215 | 30.29159 | 13:24:00 | D | 4.20  |
| 695 | SANGRUR | SANGRUR | AQUA  | 76.01600 | 30.31200 | 13:45:00 | D | 14.30 |
| 696 | SANGRUR | SANGRUR | S-NPP | 75.96958 | 30.33083 | 13:24:00 | D | 3.10  |
| 697 | SANGRUR | SANGRUR | S-NPP | 75.97293 | 30.33480 | 13:24:00 | D | 3.10  |
| 698 | SANGRUR | SANGRUR | S-NPP | 75.97222 | 30.33813 | 13:24:00 | D | 2.70  |
| 699 | SANGRUR | SUNAM   | S-NPP | 75.76968 | 29.92086 | 13:24:00 | D | 6.20  |
| 700 | SANGRUR | SUNAM   | S-NPP | 75.77377 | 29.92153 | 13:24:00 | D | 6.20  |
| 701 | SANGRUR | SUNAM   | S-NPP | 75.79008 | 29.92419 | 13:24:00 | D | 3.90  |
| 702 | SANGRUR | SUNAM   | AQUA  | 75.98400 | 29.95000 | 13:45:00 | D | 6.40  |
| 703 | SANGRUR | SUNAM   | S-NPP | 75.72498 | 29.95163 | 13:24:00 | D | 7.20  |
| 704 | SANGRUR | SUNAM   | AQUA  | 75.67500 | 29.95300 | 13:45:00 | D | 7.90  |
| 705 | SANGRUR | SUNAM   | S-NPP | 75.68184 | 29.95499 | 13:24:00 | D | 3.40  |
| 706 | SANGRUR | SUNAM   | S-NPP | 76.01022 | 29.95651 | 13:24:00 | D | 2.10  |
| 707 | SANGRUR | SUNAM   | S-NPP | 75.72282 | 29.96167 | 13:24:00 | D | 6.10  |
| 708 | SANGRUR | SUNAM   | S-NPP | 75.94592 | 29.96333 | 13:24:00 | D | 3.70  |
| 709 | SANGRUR | SUNAM   | S-NPP | 75.94520 | 29.96666 | 13:24:00 | D | 22.60 |
| 710 | SANGRUR | SUNAM   | S-NPP | 76.01215 | 29.96714 | 13:24:00 | D | 2.60  |
| 711 | SANGRUR | SUNAM   | S-NPP | 75.75002 | 29.97301 | 13:24:00 | D | 4.80  |
| 712 | SANGRUR | SUNAM   | S-NPP | 75.98503 | 29.97654 | 13:24:00 | D | 7.40  |
| 713 | SANGRUR | SUNAM   | S-NPP | 75.68120 | 29.98052 | 13:24:00 | D | 10.60 |
| 714 | SANGRUR | SUNAM   | S-NPP | 75.98837 | 29.98052 | 13:24:00 | D | 3.10  |
| 715 | SANGRUR | SUNAM   | AQUA  | 75.83200 | 29.98300 | 13:45:00 | D | 11.50 |
| 716 | SANGRUR | SUNAM   | AQUA  | 75.89500 | 29.99200 | 13:45:00 | D | 8.70  |
| 717 | SANGRUR | SUNAM   | S-NPP | 75.85271 | 30.00867 | 13:24:00 | D | 2.20  |
| 718 | SANGRUR | SUNAM   | S-NPP | 75.85200 | 30.01201 | 13:24:00 | D | 6.20  |
| 719 | SANGRUR | SUNAM   | AQUA  | 75.98900 | 30.01400 | 13:45:00 | D | 14.50 |
| 720 | SANGRUR | SUNAM   | S-NPP | 75.77984 | 30.01403 | 13:24:00 | D | 3.60  |
| 721 | SANGRUR | SUNAM   | S-NPP | 75.78393 | 30.01470 | 13:24:00 | D | 8.30  |
| 722 | SANGRUR | SUNAM   | AQUA  | 75.82500 | 30.02000 | 13:45:00 | D | 11.30 |
| 723 | SANGRUR | SUNAM   | AQUA  | 75.83600 | 30.02100 | 13:45:00 | D | 6.40  |

|     |         |       |       |          |          |          |   |       |
|-----|---------|-------|-------|----------|----------|----------|---|-------|
| 724 | SANGRUR | SUNAM | S-NPP | 75.74767 | 30.02607 | 13:24:00 | D | 3.30  |
| 725 | SANGRUR | SUNAM | S-NPP | 75.90342 | 30.02729 | 13:24:00 | D | 3.90  |
| 726 | SANGRUR | SUNAM | S-NPP | 75.87283 | 30.03267 | 13:24:00 | D | 2.80  |
| 727 | SANGRUR | SUNAM | S-NPP | 76.02781 | 30.03371 | 13:24:00 | D | 11.60 |
| 728 | SANGRUR | SUNAM | S-NPP | 75.71616 | 30.03476 | 13:24:00 | D | 9.50  |
| 729 | SANGRUR | SUNAM | S-NPP | 75.73733 | 30.03476 | 13:24:00 | D | 4.50  |
| 730 | SANGRUR | SUNAM | S-NPP | 75.85921 | 30.03735 | 13:24:00 | D | 3.80  |
| 731 | SANGRUR | SUNAM | AQUA  | 75.98400 | 30.04100 | 13:45:00 | D | 10.70 |
| 732 | SANGRUR | SUNAM | S-NPP | 76.01357 | 30.04172 | 13:24:00 | D | 13.30 |
| 733 | SANGRUR | SUNAM | S-NPP | 75.98311 | 30.04712 | 13:24:00 | D | 8.30  |
| 734 | SANGRUR | SUNAM | S-NPP | 75.98716 | 30.04777 | 13:24:00 | D | 10.10 |
| 735 | SANGRUR | SUNAM | S-NPP | 75.78421 | 30.05277 | 13:24:00 | D | 1.40  |
| 736 | SANGRUR | SUNAM | S-NPP | 75.90180 | 30.05462 | 13:24:00 | D | 4.00  |
| 737 | SANGRUR | SUNAM | AQUA  | 75.92000 | 30.06000 | 13:45:00 | D | 16.50 |
| 738 | SANGRUR | SUNAM | AQUA  | 75.88500 | 30.07400 | 13:45:00 | D | 17.60 |
| 739 | SANGRUR | SUNAM | S-NPP | 75.73280 | 30.07553 | 13:24:00 | D | 2.00  |
| 740 | SANGRUR | SUNAM | AQUA  | 76.08000 | 30.08100 | 13:45:00 | D | 8.40  |
| 741 | SANGRUR | SUNAM | S-NPP | 76.08400 | 30.08402 | 13:24:00 | D | 5.70  |
| 742 | SANGRUR | SUNAM | S-NPP | 76.08330 | 30.08734 | 13:24:00 | D | 5.70  |
| 743 | SANGRUR | SUNAM | S-NPP | 76.02057 | 30.08757 | 13:24:00 | D | 20.90 |
| 744 | SANGRUR | SUNAM | AQUA  | 76.07800 | 30.09000 | 13:45:00 | D | 19.40 |
| 745 | SANGRUR | SUNAM | AQUA  | 75.80600 | 30.09100 | 13:45:00 | D | 9.40  |
| 746 | SANGRUR | SUNAM | S-NPP | 76.04413 | 30.09480 | 13:24:00 | D | 2.90  |
| 747 | SANGRUR | SUNAM | S-NPP | 75.80826 | 30.09813 | 13:24:00 | D | 2.10  |
| 748 | SANGRUR | SUNAM | S-NPP | 76.07240 | 30.09934 | 13:24:00 | D | 6.30  |
| 749 | SANGRUR | SUNAM | S-NPP | 75.95486 | 30.10108 | 13:24:00 | D | 3.00  |
| 750 | SANGRUR | SUNAM | S-NPP | 75.95892 | 30.10174 | 13:24:00 | D | 3.10  |
| 751 | SANGRUR | SUNAM | S-NPP | 76.08855 | 30.10193 | 13:24:00 | D | 2.10  |
| 752 | SANGRUR | SUNAM | S-NPP | 76.06292 | 30.10468 | 13:24:00 | D | 2.50  |
| 753 | SANGRUR | SUNAM | S-NPP | 76.08785 | 30.10525 | 13:24:00 | D | 4.40  |
| 754 | SANGRUR | SUNAM | AQUA  | 75.98800 | 30.10600 | 13:45:00 | D | 15.20 |
| 755 | SANGRUR | SUNAM | S-NPP | 76.07907 | 30.10728 | 13:24:00 | D | 5.50  |
| 756 | SANGRUR | SUNAM | AQUA  | 76.02000 | 30.11000 | 13:45:00 | D | 7.80  |



|     |            |       |       |          |          |          |   |       |
|-----|------------|-------|-------|----------|----------|----------|---|-------|
| 757 | SANGRUR    | SUNAM | AQUA  | 76.03100 | 30.11200 | 13:45:00 | D | 13.50 |
| 758 | SANGRUR    | SUNAM | S-NPP | 76.02776 | 30.11280 | 13:24:00 | D | 13.20 |
| 759 | SANGRUR    | SUNAM | S-NPP | 75.98588 | 30.11295 | 13:24:00 | D | 2.80  |
| 760 | SANGRUR    | SUNAM | S-NPP | 75.91814 | 30.11584 | 13:24:00 | D | 3.00  |
| 761 | SANGRUR    | SUNAM | AQUA  | 75.85500 | 30.11600 | 13:45:00 | D | 11.20 |
| 762 | SANGRUR    | SUNAM | S-NPP | 76.04991 | 30.12666 | 13:24:00 | D | 2.20  |
| 763 | SANGRUR    | SUNAM | S-NPP | 75.84406 | 30.12943 | 13:24:00 | D | 9.90  |
| 764 | SANGRUR    | SUNAM | S-NPP | 75.87326 | 30.13074 | 13:24:00 | D | 7.30  |
| 765 | SANGRUR    | SUNAM | S-NPP | 76.04446 | 30.13265 | 13:24:00 | D | 3.00  |
| 766 | SANGRUR    | SUNAM | S-NPP | 75.84335 | 30.13277 | 13:24:00 | D | 1.90  |
| 767 | SANGRUR    | SUNAM | S-NPP | 75.65301 | 30.13279 | 13:24:00 | D | 4.10  |
| 768 | SANGRUR    | SUNAM | S-NPP | 75.70291 | 30.13749 | 13:24:00 | D | 18.40 |
| 769 | SANGRUR    | SUNAM | AQUA  | 75.83500 | 30.14000 | 13:45:00 | D | 6.30  |
| 770 | SANGRUR    | SUNAM | S-NPP | 75.70219 | 30.14084 | 13:24:00 | D | 18.40 |
| 771 | SANGRUR    | SUNAM | S-NPP | 75.89551 | 30.14470 | 13:24:00 | D | 1.90  |
| 772 | SANGRUR    | SUNAM | S-NPP | 75.86156 | 30.14608 | 13:24:00 | D | 1.90  |
| 773 | SANGRUR    | SUNAM | AQUA  | 76.02400 | 30.14800 | 13:45:00 | D | 13.50 |
| 774 | SANGRUR    | SUNAM | S-NPP | 76.04417 | 30.15500 | 13:24:00 | D | 2.00  |
| 775 | SANGRUR    | SUNAM | S-NPP | 75.82135 | 30.15680 | 13:24:00 | D | 3.50  |
| 776 | SANGRUR    | SUNAM | S-NPP | 76.06438 | 30.15826 | 13:24:00 | D | 3.50  |
| 777 | SANGRUR    | SUNAM | S-NPP | 76.04347 | 30.15832 | 13:24:00 | D | 3.40  |
| 778 | SANGRUR    | SUNAM | AQUA  | 75.89500 | 30.16700 | 13:45:00 | D | 32.10 |
| 779 | SANGRUR    | SUNAM | AQUA  | 75.90600 | 30.16800 | 13:45:00 | D | 7.40  |
| 780 | SANGRUR    | SUNAM | S-NPP | 75.89388 | 30.17200 | 13:24:00 | D | 10.20 |
| 781 | TARN TARAN | PATTI | S-NPP | 74.54086 | 31.25160 | 13:24:00 | D | 3.50  |
| 782 | TARN TARAN | PATTI | S-NPP | 74.54008 | 31.25501 | 13:24:00 | D | 3.30  |
| 783 | TARN TARAN | PATTI | S-NPP | 74.54441 | 31.29470 | 13:24:00 | D | 6.50  |

**Details of residue burning events in Haryana on 11-Nov-2019**

| S. No. | District  | Tehsil / Block | Satellite | Longitude | Latitude | Time (IST) | Day / Night | Fire Power (W/m <sup>2</sup> ) |
|--------|-----------|----------------|-----------|-----------|----------|------------|-------------|--------------------------------|
| 1      | AMBALA    | AMBALA         | S-NPP     | 76.63947  | 30.28016 | 13:24:00   | D           | 7.90                           |
| 2      | BHIWANI   | BAWANI_KHERA   | S-NPP     | 76.05618  | 28.96575 | 13:24:00   | D           | 3.60                           |
| 3      | FATEHABAD | FATEHABAD      | S-NPP     | 75.71237  | 29.46627 | 13:24:00   | D           | 2.50                           |
| 4      | FATEHABAD | FATEHABAD      | AQUA      | 75.40800  | 29.48500 | 13:45:00   | D           | 10.60                          |
| 5      | FATEHABAD | FATEHABAD      | S-NPP     | 75.72641  | 29.49984 | 13:24:00   | D           | 2.80                           |
| 6      | FATEHABAD | FATEHABAD      | S-NPP     | 75.70230  | 29.51326 | 13:24:00   | D           | 11.90                          |
| 7      | FATEHABAD | FATEHABAD      | S-NPP     | 75.28999  | 29.51541 | 13:24:00   | D           | 4.90                           |
| 8      | FATEHABAD | FATEHABAD      | S-NPP     | 75.51179  | 29.52571 | 02:06:00   | N           | 0.40                           |
| 9      | FATEHABAD | FATEHABAD      | S-NPP     | 75.34243  | 29.57331 | 13:24:00   | D           | 2.40                           |
| 10     | FATEHABAD | FATEHABAD      | S-NPP     | 75.66538  | 29.58837 | 13:24:00   | D           | 6.60                           |
| 11     | FATEHABAD | FATEHABAD      | S-NPP     | 75.66949  | 29.58904 | 13:24:00   | D           | 6.30                           |
| 12     | FATEHABAD | FATEHABAD      | S-NPP     | 75.31730  | 29.61105 | 13:24:00   | D           | 7.90                           |
| 13     | FATEHABAD | RATIA          | AQUA      | 75.47800  | 29.67000 | 13:45:00   | D           | 9.80                           |
| 14     | FATEHABAD | RATIA          | S-NPP     | 75.50966  | 29.67813 | 13:24:00   | D           | 1.50                           |
| 15     | FATEHABAD | RATIA          | AQUA      | 75.53700  | 29.69600 | 13:45:00   | D           | 8.40                           |
| 16     | FATEHABAD | RATIA          | AQUA      | 75.56800  | 29.72700 | 13:45:00   | D           | 17.10                          |
| 17     | FATEHABAD | RATIA          | S-NPP     | 75.40955  | 29.74599 | 13:24:00   | D           | 2.70                           |
| 18     | FATEHABAD | RATIA          | S-NPP     | 75.40884  | 29.74936 | 13:24:00   | D           | 3.20                           |
| 19     | FATEHABAD | RATIA          | AQUA      | 75.63600  | 29.76400 | 13:45:00   | D           | 48.30                          |
| 20     | FATEHABAD | TOHANA         | S-NPP     | 75.92376  | 29.72532 | 13:24:00   | D           | 10.30                          |
| 21     | FATEHABAD | TOHANA         | AQUA      | 75.80700  | 29.74200 | 13:45:00   | D           | 13.00                          |
| 22     | GURGAON   | PATAUDI        | S-NPP     | 76.81622  | 28.30178 | 13:24:00   | D           | 2.00                           |
| 23     | HISAR     | HANSI          | S-NPP     | 76.05914  | 29.19387 | 13:24:00   | D           | 1.70                           |
| 24     | HISAR     | HANSI          | AQUA      | 76.04800  | 29.19500 | 13:45:00   | D           | 10.50                          |
| 25     | HISAR     | HANSI          | S-NPP     | 76.04420  | 29.20525 | 13:24:00   | D           | 4.80                           |
| 26     | HISAR     | HANSI          | S-NPP     | 76.05562  | 29.21056 | 13:24:00   | D           | 2.40                           |
| 27     | HISAR     | NARNAUND       | S-NPP     | 76.09772  | 29.16723 | 13:24:00   | D           | 1.60                           |
| 28     | HISAR     | NARNAUND       | S-NPP     | 76.09776  | 29.16910 | 13:24:00   | D           | 2.10                           |
| 29     | JIND      | JIND           | S-NPP     | 76.30127  | 29.22964 | 13:24:00   | D           | 2.10                           |
| 30     | JIND      | JIND           | AQUA      | 76.33700  | 29.39900 | 13:45:00   | D           | 5.50                           |

|    |             |           |       |          |          |          |   |       |
|----|-------------|-----------|-------|----------|----------|----------|---|-------|
| 31 | JIND        | JIND      | S-NPP | 76.45865 | 29.47198 | 13:24:00 | D | 1.90  |
| 32 | JIND        | JIND      | S-NPP | 76.46058 | 29.48256 | 13:24:00 | D | 3.10  |
| 33 | JIND        | JIND      | S-NPP | 76.44176 | 29.51380 | 13:24:00 | D | 1.80  |
| 34 | JIND        | JIND      | S-NPP | 76.41973 | 29.52058 | 13:24:00 | D | 13.10 |
| 35 | JIND        | JIND      | S-NPP | 76.37770 | 29.52418 | 13:24:00 | D | 6.00  |
| 36 | JIND        | JIND      | AQUA  | 76.46300 | 29.52500 | 13:45:00 | D | 7.60  |
| 37 | JIND        | NARWANA   | S-NPP | 76.12230 | 29.45583 | 13:24:00 | D | 4.90  |
| 38 | JIND        | NARWANA   | S-NPP | 76.25349 | 29.50439 | 13:24:00 | D | 3.40  |
| 39 | JIND        | NARWANA   | S-NPP | 76.25751 | 29.50504 | 13:24:00 | D | 4.80  |
| 40 | JIND        | NARWANA   | S-NPP | 76.06352 | 29.53753 | 13:24:00 | D | 4.30  |
| 41 | JIND        | NARWANA   | S-NPP | 76.06282 | 29.54086 | 13:24:00 | D | 4.30  |
| 42 | JIND        | NARWANA   | AQUA  | 76.06900 | 29.54700 | 13:45:00 | D | 39.80 |
| 43 | JIND        | NARWANA   | AQUA  | 76.05000 | 29.71000 | 13:45:00 | D | 7.60  |
| 44 | JIND        | NARWANA   | AQUA  | 76.04800 | 29.71900 | 13:45:00 | D | 24.50 |
| 45 | JIND        | NARWANA   | S-NPP | 76.14582 | 29.80248 | 13:24:00 | D | 3.80  |
| 46 | JIND        | SAFIDON   | S-NPP | 76.70657 | 29.41957 | 13:24:00 | D | 1.70  |
| 47 | KAITHAL     | GUHLA     | S-NPP | 76.38429 | 30.09769 | 13:24:00 | D | 2.20  |
| 48 | KAITHAL     | KAITHAL   | AQUA  | 76.24500 | 29.63300 | 13:45:00 | D | 3.90  |
| 49 | KAITHAL     | KAITHAL   | S-NPP | 76.70665 | 29.68431 | 13:24:00 | D | 18.30 |
| 50 | KAITHAL     | KAITHAL   | S-NPP | 76.20535 | 29.69675 | 13:24:00 | D | 6.60  |
| 51 | KAITHAL     | KAITHAL   | S-NPP | 76.18533 | 29.73325 | 13:24:00 | D | 5.90  |
| 52 | KAITHAL     | KAITHAL   | S-NPP | 76.34963 | 29.74031 | 13:24:00 | D | 4.00  |
| 53 | KAITHAL     | KAITHAL   | S-NPP | 76.33781 | 29.75772 | 13:24:00 | D | 1.50  |
| 54 | KAITHAL     | KAITHAL   | S-NPP | 76.33530 | 29.82926 | 13:24:00 | D | 5.30  |
| 55 | KARNAL      | GHARAUNDA | S-NPP | 76.91899 | 29.58523 | 13:24:00 | D | 3.30  |
| 56 | KARNAL      | INDRI     | S-NPP | 77.05470 | 29.84348 | 13:24:00 | D | 6.20  |
| 57 | KARNAL      | INDRI     | S-NPP | 77.10688 | 29.94944 | 13:24:00 | D | 2.00  |
| 58 | KARNAL      | KARNAL    | S-NPP | 76.85286 | 29.66960 | 13:24:00 | D | 4.60  |
| 59 | KARNAL      | NILOKHERI | S-NPP | 76.88707 | 29.80404 | 13:24:00 | D | 3.60  |
| 60 | KARNAL      | NILOKHERI | S-NPP | 76.84603 | 29.86506 | 13:24:00 | D | 2.50  |
| 61 | KARNAL      | NILOKHERI | S-NPP | 76.89296 | 29.87573 | 13:24:00 | D | 2.70  |
| 62 | KURUKSHETRA | PEHOWA    | S-NPP | 76.66890 | 30.01089 | 13:24:00 | D | 1.50  |
| 63 | PALWAL      | PALWAL    | S-NPP | 77.47047 | 28.11203 | 13:24:00 | D | 2.50  |

|    |         |         |       |          |          |          |   |       |
|----|---------|---------|-------|----------|----------|----------|---|-------|
| 64 | PANIPAT | ISRANA  | AQUA  | 76.72800 | 29.32300 | 13:45:00 | D | 6.10  |
| 65 | SIRSA   | RANIA   | AQUA  | 74.77500 | 29.55300 | 13:45:00 | D | 5.20  |
| 66 | SIRSA   | SIRSA   | S-NPP | 75.27049 | 29.50509 | 13:24:00 | D | 3.10  |
| 67 | SIRSA   | SIRSA   | S-NPP | 75.24998 | 29.51923 | 13:24:00 | D | 7.20  |
| 68 | SIRSA   | SIRSA   | S-NPP | 75.30157 | 29.54194 | 13:24:00 | D | 21.30 |
| 69 | SIRSA   | SIRSA   | S-NPP | 75.30083 | 29.54533 | 13:24:00 | D | 21.30 |
| 70 | SIRSA   | SIRSA   | S-NPP | 75.29861 | 29.55549 | 13:24:00 | D | 4.60  |
| 71 | SIRSA   | SIRSA   | S-NPP | 75.11602 | 29.57348 | 13:24:00 | D | 1.60  |
| 72 | SIRSA   | SIRSA   | AQUA  | 75.19200 | 29.70300 | 13:45:00 | D | 7.70  |
| 73 | SONIPAT | GOHANA  | S-NPP | 76.76062 | 28.96674 | 13:24:00 | D | 2.20  |
| 74 | SONIPAT | GOHANA  | S-NPP | 76.64090 | 29.09759 | 13:24:00 | D | 3.10  |
| 75 | SONIPAT | GOHANA  | S-NPP | 76.77685 | 29.19314 | 13:24:00 | D | 1.20  |
| 76 | SONIPAT | GOHANA  | S-NPP | 76.74444 | 29.21193 | 13:24:00 | D | 2.20  |
| 77 | SONIPAT | SONIPAT | AQUA  | 77.17900 | 28.95600 | 13:45:00 | D | 7.00  |
| 78 | SONIPAT | SONIPAT | S-NPP | 76.87648 | 28.97816 | 13:24:00 | D | 1.50  |

**Details of residue burning events in Uttar Pradesh on 11-Nov-2019**

| S. No. | District      | Tehsil / Block | Satellite | Longitude | Latitude | Time (IST) | Day / Night | Fire Power (W/m2) |
|--------|---------------|----------------|-----------|-----------|----------|------------|-------------|-------------------|
| 1      | ALIGARH       | KHAIR          | AQUA      | 77.53000  | 28.00100 | 13:45:00   | D           | 6.10              |
| 2      | ALIGARH       | KHAIR          | S-NPP     | 77.71655  | 28.02073 | 13:24:00   | D           | 2.00              |
| 3      | ALIGARH       | KHAIR          | S-NPP     | 77.68755  | 28.06729 | 13:24:00   | D           | 1.80              |
| 4      | ALLAHABAD     | HADIYA         | S-NPP     | 82.08162  | 25.42409 | 13:24:00   | D           | 7.70              |
| 5      | AMBEDKARNAGAR | AKBARPUR       | S-NPP     | 82.53472  | 26.39334 | 13:24:00   | D           | 11.00             |
| 6      | AMROHA        | DHANAURA       | S-NPP     | 78.16266  | 28.85893 | 13:24:00   | D           | 2.30              |
| 7      | AURAIYA       | AURAIYA        | S-NPP     | 79.38977  | 26.51092 | 02:06:00   | N           | 0.80              |
| 8      | AURAIYA       | BIDHUNA        | S-NPP     | 79.37142  | 26.84575 | 13:24:00   | D           | 2.90              |
| 9      | AZAMGARH      | PHULPUR        | S-NPP     | 82.70277  | 26.22960 | 13:24:00   | D           | 2.40              |
| 10     | BAHRAICH      | NANPARA        | S-NPP     | 81.63842  | 27.71711 | 13:24:00   | D           | 5.60              |
| 11     | BAHRAICH      | NANPARA        | S-NPP     | 81.61043  | 27.98846 | 13:24:00   | D           | 4.40              |
| 12     | BAREILLY      | BAHERI         | S-NPP     | 79.45810  | 28.80921 | 13:24:00   | D           | 3.80              |
| 13     | BAREILLY      | FARIDPUR       | S-NPP     | 79.68136  | 28.26557 | 13:24:00   | D           | 2.60              |
| 14     | BAREILLY      | FARIDPUR       | S-NPP     | 79.71169  | 28.28721 | 13:24:00   | D           | 9.90              |
| 15     | BULANDSAHAR   | SIYANA         | S-NPP     | 78.03565  | 28.60678 | 13:24:00   | D           | 2.30              |
| 16     | ETAH          | ETAH           | S-NPP     | 78.81554  | 27.43334 | 13:24:00   | D           | 4.90              |
| 17     | ETAWAH        | BHARTHNA       | S-NPP     | 79.23431  | 26.86981 | 02:06:00   | N           | 1.00              |
| 18     | ETAWAH        | SAIFAI         | S-NPP     | 79.02771  | 26.91648 | 13:24:00   | D           | 2.90              |
| 19     | ETAWAH        | SAIFAI         | S-NPP     | 79.02712  | 26.91982 | 13:24:00   | D           | 2.90              |
| 20     | ETAWAH        | SAIFAI         | S-NPP     | 79.04706  | 26.94319 | 13:24:00   | D           | 2.70              |
| 21     | ETAWAH        | SAIFAI         | S-NPP     | 79.04646  | 26.94652 | 13:24:00   | D           | 1.00              |
| 22     | FATEHPUR      | BINKI          | S-NPP     | 80.44408  | 25.94149 | 13:24:00   | D           | 2.40              |
| 23     | FATEHPUR      | FATEHPUR       | S-NPP     | 80.91193  | 25.77490 | 02:06:00   | N           | 1.20              |
| 24     | FATEHPUR      | FATEHPUR       | S-NPP     | 80.82607  | 25.79165 | 13:24:00   | D           | 8.90              |
| 25     | FATEHPUR      | FATEHPUR       | S-NPP     | 80.75395  | 25.89308 | 13:24:00   | D           | 3.90              |
| 26     | FATEHPUR      | FATEHPUR       | S-NPP     | 80.82211  | 25.89868 | 13:24:00   | D           | 2.70              |
| 27     | FATEHPUR      | FATEHPUR       | S-NPP     | 80.65157  | 25.99778 | 13:24:00   | D           | 4.10              |
| 28     | FATEHPUR      | FATEHPUR       | S-NPP     | 80.84132  | 25.99847 | 13:24:00   | D           | 6.70              |
| 29     | FATEHPUR      | KHAGA          | S-NPP     | 81.06831  | 25.67986 | 13:24:00   | D           | 3.00              |
| 30     | FATEHPUR      | KHAGA          | S-NPP     | 81.06890  | 25.68031 | 13:24:00   | D           | 3.30              |

|    |                 |               |       |          |          |          |   |       |
|----|-----------------|---------------|-------|----------|----------|----------|---|-------|
| 31 | FATEHPUR        | KHAGA         | S-NPP | 81.12181 | 25.94208 | 13:24:00 | D | 2.70  |
| 32 | FIROZABAD       | JASRANA       | S-NPP | 78.69186 | 27.21770 | 02:06:00 | N | 0.70  |
| 33 | FIROZABAD       | JASRANA       | S-NPP | 78.68999 | 27.21855 | 02:06:00 | N | 0.40  |
| 34 | GAUTAMBUDHNAGAR | JEVAR         | AQUA  | 77.47500 | 28.08600 | 13:45:00 | D | 13.10 |
| 35 | GHAZIABAD       | MODINAGAR     | S-NPP | 77.45065 | 28.88078 | 13:24:00 | D | 2.20  |
| 36 | GORAKHPUR       | CHAURI CHAURA | S-NPP | 83.60355 | 26.71568 | 13:24:00 | D | 3.50  |
| 37 | HAMIRPUR        | HAMIRPUR      | S-NPP | 80.00559 | 26.02347 | 13:24:00 | D | 2.10  |
| 38 | HAMIRPUR        | HAMIRPUR      | S-NPP | 79.95737 | 26.06519 | 13:24:00 | D | 2.60  |
| 39 | HAMIRPUR        | MAUDAHA       | S-NPP | 79.91974 | 25.70849 | 13:24:00 | D | 2.10  |
| 40 | HAMIRPUR        | RATH          | S-NPP | 79.60436 | 25.66346 | 13:24:00 | D | 1.50  |
| 41 | HAPUR           | GARHMUKTESAR  | S-NPP | 77.97837 | 28.71992 | 13:24:00 | D | 2.10  |
| 42 | HARDOI          | HARDOI        | S-NPP | 79.95975 | 27.43374 | 13:24:00 | D | 2.70  |
| 43 | HARDOI          | HARDOI        | AQUA  | 79.95200 | 27.44100 | 13:45:00 | D | 17.80 |
| 44 | HARDOI          | HARDOI        | S-NPP | 79.98581 | 27.48206 | 13:24:00 | D | 3.10  |
| 45 | HARDOI          | SANDILA       | S-NPP | 80.42200 | 27.09036 | 13:24:00 | D | 8.50  |
| 46 | HARDOI          | SANDILA       | S-NPP | 80.42142 | 27.09381 | 13:24:00 | D | 2.90  |
| 47 | HARDOI          | SHAHABAD      | S-NPP | 80.18905 | 27.57276 | 13:24:00 | D | 4.30  |
| 48 | HARDOI          | SHAHABAD      | S-NPP | 80.25172 | 27.64692 | 13:24:00 | D | 3.20  |
| 49 | JALAUN          | JALAUN        | S-NPP | 79.46426 | 26.09947 | 13:24:00 | D | 6.30  |
| 50 | JALAUN          | JALAUN        | S-NPP | 79.33263 | 26.25894 | 13:24:00 | D | 3.80  |
| 51 | JALAUN          | KALPI         | S-NPP | 79.67104 | 25.97625 | 13:24:00 | D | 5.50  |
| 52 | JALAUN          | KONCH         | S-NPP | 79.02504 | 25.96732 | 13:24:00 | D | 3.00  |
| 53 | JALAUN          | KONCH         | S-NPP | 79.04852 | 26.03549 | 13:24:00 | D | 1.90  |
| 54 | JALAUN          | KONCH         | S-NPP | 79.05506 | 26.04327 | 13:24:00 | D | 3.40  |
| 55 | JALAUN          | KONCH         | S-NPP | 79.12460 | 26.07952 | 13:24:00 | D | 4.10  |
| 56 | JALAUN          | KONCH         | S-NPP | 79.14938 | 26.09676 | 13:24:00 | D | 6.80  |
| 57 | JALAUN          | MADHOGARH     | S-NPP | 79.07164 | 26.15363 | 13:24:00 | D | 5.40  |
| 58 | JALAUN          | MADHOGARH     | AQUA  | 79.24200 | 26.22500 | 13:45:00 | D | 6.70  |
| 59 | JALAUN          | MADHOGARH     | S-NPP | 79.24571 | 26.22930 | 13:24:00 | D | 8.00  |
| 60 | JALAUN          | MADHOGARH     | S-NPP | 79.28919 | 26.32290 | 13:24:00 | D | 1.70  |
| 61 | JALAUN          | URAI          | S-NPP | 79.52180 | 25.99952 | 13:24:00 | D | 2.80  |
| 62 | JHANSI          | MOTH          | S-NPP | 78.91206 | 25.67364 | 13:24:00 | D | 2.80  |
| 63 | JHANSI          | MOTH          | S-NPP | 78.88524 | 25.71343 | 13:24:00 | D | 3.20  |

|    |              |             |       |          |          |          |   |       |
|----|--------------|-------------|-------|----------|----------|----------|---|-------|
| 64 | JHANSI       | MOTH        | S-NPP | 78.93095 | 25.74399 | 13:24:00 | D | 4.90  |
| 65 | JHANSI       | MOTH        | S-NPP | 78.79810 | 25.78208 | 13:24:00 | D | 2.90  |
| 66 | JHANSI       | MOTH        | S-NPP | 78.83524 | 25.79440 | 13:24:00 | D | 2.20  |
| 67 | JHANSI       | MOTH        | S-NPP | 78.89012 | 25.79576 | 13:24:00 | D | 3.40  |
| 68 | JHANSI       | MOTH        | S-NPP | 78.83779 | 25.80079 | 13:24:00 | D | 3.80  |
| 69 | JHANSI       | MOTH        | S-NPP | 78.96717 | 25.82666 | 13:24:00 | D | 2.20  |
| 70 | JHANSI       | MOTH        | S-NPP | 78.92364 | 25.87128 | 13:24:00 | D | 2.40  |
| 71 | JHANSI       | TAHRAULI    | S-NPP | 78.81033 | 25.58377 | 13:24:00 | D | 3.60  |
| 72 | JHANSI       | TAHRAULI    | S-NPP | 78.86134 | 25.58529 | 13:24:00 | D | 4.10  |
| 73 | JHANSI       | TAHRAULI    | S-NPP | 78.80531 | 25.58982 | 13:24:00 | D | 1.80  |
| 74 | KANNAUJ      | TIRWA       | S-NPP | 79.62243 | 26.95519 | 13:24:00 | D | 2.10  |
| 75 | KANPUR DEHAT | AKBARPUR    | S-NPP | 79.98668 | 26.31354 | 13:24:00 | D | 8.20  |
| 76 | KAUSHAMBI    | MANJHANPUR  | S-NPP | 81.27332 | 25.43450 | 13:24:00 | D | 1.70  |
| 77 | KHERI        | GOLA        | S-NPP | 80.41634 | 28.18176 | 13:24:00 | D | 3.50  |
| 78 | KHERI        | GOLA        | AQUA  | 80.46600 | 28.19000 | 13:45:00 | D | 15.30 |
| 79 | KHERI        | GOLA        | AQUA  | 80.48300 | 28.19200 | 13:45:00 | D | 11.60 |
| 80 | KHERI        | MOHMADI     | S-NPP | 80.26645 | 28.03931 | 13:24:00 | D | 4.30  |
| 81 | KHERI        | PALIA KALAN | S-NPP | 80.45782 | 28.35263 | 13:24:00 | D | 2.60  |
| 82 | MAHARAJGANJ  | MAHARAJGANJ | S-NPP | 83.49410 | 27.04469 | 13:24:00 | D | 4.30  |
| 83 | MAHARAJGANJ  | MAHARAJGANJ | S-NPP | 83.66496 | 27.17947 | 13:24:00 | D | 7.60  |
| 84 | MAHARAJGANJ  | MAHARAJGANJ | S-NPP | 83.66464 | 27.18330 | 13:24:00 | D | 12.90 |
| 85 | MAHARAJGANJ  | MAHARAJGANJ | S-NPP | 83.66440 | 27.18354 | 13:24:00 | D | 7.60  |
| 86 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.45493 | 27.35692 | 13:24:00 | D | 2.70  |
| 87 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.51474 | 27.38874 | 13:24:00 | D | 4.40  |
| 88 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.64280 | 27.40275 | 13:24:00 | D | 3.20  |
| 89 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.62611 | 27.40506 | 13:24:00 | D | 4.30  |
| 90 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.63361 | 27.41002 | 13:24:00 | D | 3.20  |
| 91 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.65559 | 27.42898 | 13:24:00 | D | 4.10  |
| 92 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.65964 | 27.42943 | 13:24:00 | D | 4.10  |
| 93 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.59413 | 27.45934 | 13:24:00 | D | 2.60  |
| 94 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.59357 | 27.46340 | 13:24:00 | D | 2.60  |
| 95 | MAHARAJGANJ  | NAUTANWA    | S-NPP | 83.59759 | 27.46386 | 13:24:00 | D | 2.60  |
| 96 | MAHARAJGANJ  | NICHLAUL    | S-NPP | 83.70143 | 27.12159 | 13:24:00 | D | 4.20  |

|     |              |              |       |          |          |          |   |      |
|-----|--------------|--------------|-------|----------|----------|----------|---|------|
| 97  | MAHARAJGANJ  | NICHLAUL     | S-NPP | 83.73059 | 27.24025 | 13:24:00 | D | 3.00 |
| 98  | MAHARAJGANJ  | NICHLAUL     | S-NPP | 83.63522 | 27.27913 | 13:24:00 | D | 6.20 |
| 99  | MAHARAJGANJ  | NICHLAUL     | S-NPP | 83.65353 | 27.29285 | 13:24:00 | D | 1.70 |
| 100 | MAHARAJGANJ  | NICHLAUL     | S-NPP | 83.65644 | 27.30143 | 13:24:00 | D | 5.10 |
| 101 | MAHARAJGANJ  | NICHLAUL     | S-NPP | 83.71597 | 27.31623 | 13:24:00 | D | 2.50 |
| 102 | MAHARAJGANJ  | NICHLAUL     | S-NPP | 83.65768 | 27.32224 | 13:24:00 | D | 4.10 |
| 103 | MAINPURI     | BHOGAON      | S-NPP | 79.28663 | 27.00497 | 13:24:00 | D | 3.20 |
| 104 | MAINPURI     | BHOGAON      | S-NPP | 79.35227 | 27.19253 | 13:24:00 | D | 2.30 |
| 105 | MAINPURI     | BHOGAON      | S-NPP | 79.18420 | 27.24412 | 13:24:00 | D | 2.50 |
| 106 | MAINPURI     | BHOGAON      | S-NPP | 79.05624 | 27.39390 | 13:24:00 | D | 3.80 |
| 107 | MAINPURI     | KARHAL       | S-NPP | 79.00766 | 27.00583 | 13:24:00 | D | 4.40 |
| 108 | MAINPURI     | KARHAL       | S-NPP | 78.95052 | 27.03752 | 13:24:00 | D | 4.40 |
| 109 | MAINPURI     | MAINPURI     | S-NPP | 78.77654 | 27.17813 | 13:24:00 | D | 4.10 |
| 110 | MATHURA      | CHHATA       | AQUA  | 77.44000 | 27.67600 | 13:45:00 | D | 7.70 |
| 111 | MATHURA      | CHHATA       | S-NPP | 77.48090 | 27.68359 | 13:24:00 | D | 2.70 |
| 112 | MATHURA      | CHHATA       | S-NPP | 77.39998 | 27.70849 | 13:24:00 | D | 1.50 |
| 113 | MATHURA      | CHHATA       | AQUA  | 77.41000 | 27.72100 | 13:45:00 | D | 6.40 |
| 114 | MATHURA      | CHHATA       | S-NPP | 77.53660 | 27.72619 | 13:24:00 | D | 2.60 |
| 115 | MATHURA      | CHHATA       | AQUA  | 77.33100 | 27.75400 | 13:45:00 | D | 7.00 |
| 116 | MATHURA      | CHHATA       | S-NPP | 77.33458 | 27.75882 | 13:24:00 | D | 3.60 |
| 117 | MATHURA      | CHHATA       | S-NPP | 77.33393 | 27.76212 | 13:24:00 | D | 3.60 |
| 118 | MATHURA      | CHHATA       | S-NPP | 77.54063 | 27.77031 | 13:24:00 | D | 6.10 |
| 119 | MATHURA      | CHHATA       | S-NPP | 77.53999 | 27.77361 | 13:24:00 | D | 6.10 |
| 120 | MATHURA      | CHHATA       | S-NPP | 77.49734 | 27.82826 | 13:24:00 | D | 1.50 |
| 121 | MATHURA      | MATHURA      | S-NPP | 77.50626 | 27.47074 | 13:24:00 | D | 1.70 |
| 122 | MEERUT       | MEERUT       | S-NPP | 77.68908 | 28.75473 | 13:24:00 | D | 3.20 |
| 123 | MORADABAD    | THAKUR DWARA | S-NPP | 78.77211 | 29.13024 | 13:24:00 | D | 2.60 |
| 124 | MUZAFARNAGAR | JANSATH      | S-NPP | 78.00404 | 29.27179 | 13:24:00 | D | 1.40 |
| 125 | PILHIBHIT    | BISALPUR     | S-NPP | 79.97718 | 28.16292 | 13:24:00 | D | 3.10 |
| 126 | PILHIBHIT    | BISALPUR     | S-NPP | 79.92247 | 28.36408 | 13:24:00 | D | 2.40 |
| 127 | PILHIBHIT    | PILHIBHIT    | S-NPP | 79.69537 | 28.77183 | 13:24:00 | D | 2.20 |
| 128 | PILHIBHIT    | PILHIBHIT    | S-NPP | 79.85169 | 28.82110 | 13:24:00 | D | 2.80 |
| 129 | PILHIBHIT    | PILHIBHIT    | S-NPP | 79.75986 | 28.85347 | 13:24:00 | D | 2.30 |



|     |              |              |       |          |          |          |   |       |
|-----|--------------|--------------|-------|----------|----------|----------|---|-------|
| 130 | PILHIBHIT    | PURANPUR     | S-NPP | 80.18217 | 28.32313 | 13:24:00 | D | 2.50  |
| 131 | PILHIBHIT    | PURANPUR     | S-NPP | 80.18076 | 28.38797 | 13:24:00 | D | 7.80  |
| 132 | PILHIBHIT    | PURANPUR     | S-NPP | 80.22764 | 28.45097 | 13:24:00 | D | 4.20  |
| 133 | PILHIBHIT    | PURANPUR     | AQUA  | 80.10600 | 28.45900 | 13:45:00 | D | 8.90  |
| 134 | PILHIBHIT    | PURANPUR     | S-NPP | 80.06293 | 28.49090 | 13:24:00 | D | 17.30 |
| 135 | PILHIBHIT    | PURANPUR     | S-NPP | 80.09319 | 28.51969 | 13:24:00 | D | 3.80  |
| 136 | PILHIBHIT    | PURANPUR     | S-NPP | 80.07455 | 28.58590 | 13:24:00 | D | 4.30  |
| 137 | PILHIBHIT    | PURANPUR     | S-NPP | 80.07886 | 28.58647 | 13:24:00 | D | 4.30  |
| 138 | PRATAPGARH   | PATTI        | S-NPP | 82.26205 | 25.97303 | 13:24:00 | D | 4.30  |
| 139 | RAIBEARELI   | SALON        | S-NPP | 81.49940 | 25.95128 | 13:24:00 | D | 2.10  |
| 140 | RAMPUR       | BILASPUR     | S-NPP | 79.22479 | 28.83599 | 13:24:00 | D | 6.30  |
| 141 | RAMPUR       | BILASPUR     | AQUA  | 79.38400 | 28.83900 | 13:45:00 | D | 33.70 |
| 142 | RAMPUR       | BILASPUR     | AQUA  | 79.39900 | 28.84000 | 13:45:00 | D | 24.70 |
| 143 | RAMPUR       | BILASPUR     | S-NPP | 79.22700 | 28.92329 | 13:24:00 | D | 3.20  |
| 144 | RAMPUR       | BILASPUR     | S-NPP | 79.21575 | 28.93904 | 13:24:00 | D | 2.10  |
| 145 | RAMPUR       | SUAR         | S-NPP | 79.13729 | 29.09893 | 13:24:00 | D | 2.80  |
| 146 | RAMPUR       | SUAR         | S-NPP | 79.14140 | 29.09950 | 13:24:00 | D | 2.80  |
| 147 | RAMPUR       | TANDA        | S-NPP | 78.98209 | 29.09803 | 13:24:00 | D | 9.60  |
| 148 | SHAHJAHANPUR | PUWANYA      | S-NPP | 80.00816 | 27.91989 | 13:24:00 | D | 2.70  |
| 149 | SHAHJAHANPUR | PUWANYA      | S-NPP | 80.02442 | 27.92558 | 13:24:00 | D | 4.80  |
| 150 | SHAHJAHANPUR | PUWANYA      | S-NPP | 79.96037 | 28.10939 | 02:06:00 | N | 0.60  |
| 151 | SHAHJAHANPUR | PUWANYA      | S-NPP | 80.08960 | 28.16150 | 02:06:00 | N | 0.70  |
| 152 | SHAHJAHANPUR | PUWANYA      | S-NPP | 80.08672 | 28.16404 | 02:06:00 | N | 1.70  |
| 153 | SHAHJAHANPUR | PUWANYA      | S-NPP | 80.09047 | 28.16516 | 02:06:00 | N | 0.70  |
| 154 | SHAHJAHANPUR | PUWANYA      | S-NPP | 79.99677 | 28.25593 | 13:24:00 | D | 5.50  |
| 155 | SHAHJAHANPUR | PUWANYA      | AQUA  | 80.04400 | 28.29300 | 13:45:00 | D | 15.40 |
| 156 | SHAHJAHANPUR | PUWANYA      | TERRA | 80.09600 | 28.30000 | 10:35:00 | D | 8.40  |
| 157 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.87194 | 27.75921 | 13:24:00 | D | 2.50  |
| 158 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.87610 | 27.75979 | 13:24:00 | D | 2.50  |
| 159 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.87757 | 27.76292 | 02:06:00 | N | 1.00  |
| 160 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.88015 | 27.76373 | 02:06:00 | N | 1.40  |
| 161 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.87966 | 27.76377 | 13:24:00 | D | 2.40  |
| 162 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.87041 | 27.82166 | 13:24:00 | D | 1.90  |

|     |                 |            |       |          |          |          |   |      |
|-----|-----------------|------------|-------|----------|----------|----------|---|------|
| 163 | SHAHJAHANPUR    | TILHAR     | S-NPP | 79.60945 | 28.06073 | 13:24:00 | D | 1.90 |
| 164 | SHAHJAHANPUR    | TILHAR     | S-NPP | 79.70735 | 28.13668 | 13:24:00 | D | 2.10 |
| 165 | SHRAWASTI       | IKAUNA     | S-NPP | 81.82692 | 27.56303 | 13:24:00 | D | 4.80 |
| 166 | SHRAWASTI       | IKAUNA     | S-NPP | 81.83155 | 27.64482 | 13:24:00 | D | 6.80 |
| 167 | SHRAWASTI       | IKAUNA     | S-NPP | 81.68613 | 27.65310 | 13:24:00 | D | 2.40 |
| 168 | SIDDHARTHANAGAR | ITWA       | S-NPP | 82.71984 | 27.27414 | 13:24:00 | D | 4.50 |
| 169 | SIDDHARTHANAGAR | ITWA       | S-NPP | 82.60513 | 27.33638 | 13:24:00 | D | 4.00 |
| 170 | SIDDHARTHANAGAR | ITWA       | S-NPP | 82.80322 | 27.36386 | 13:24:00 | D | 3.40 |
| 171 | SITAPUR         | MAHMUDABAD | S-NPP | 81.25719 | 27.43256 | 13:24:00 | D | 2.70 |
| 172 | UNNAO           | PURWA      | S-NPP | 80.91620 | 26.36332 | 13:24:00 | D | 2.20 |
| 173 | UNNAO           | SAFIPUR    | S-NPP | 80.14523 | 26.74581 | 13:24:00 | D | 2.30 |
| 174 | UNNAO           | SAFIPUR    | S-NPP | 80.21004 | 26.97012 | 13:24:00 | D | 3.10 |

## 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              |

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|              |                     |                                  |  |
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GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>  
(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)

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