



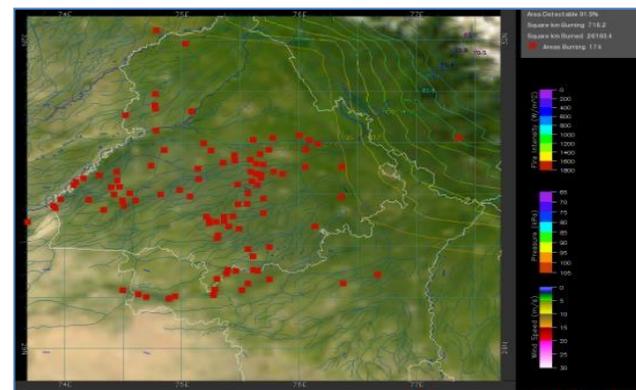
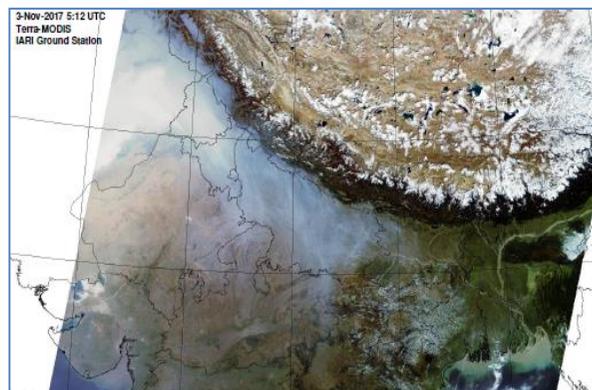
**Bulletin
No. 38**

**Events Date:
07-Nov-2019**

**Issued on:
08-Nov-2019**



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



Prepared by:

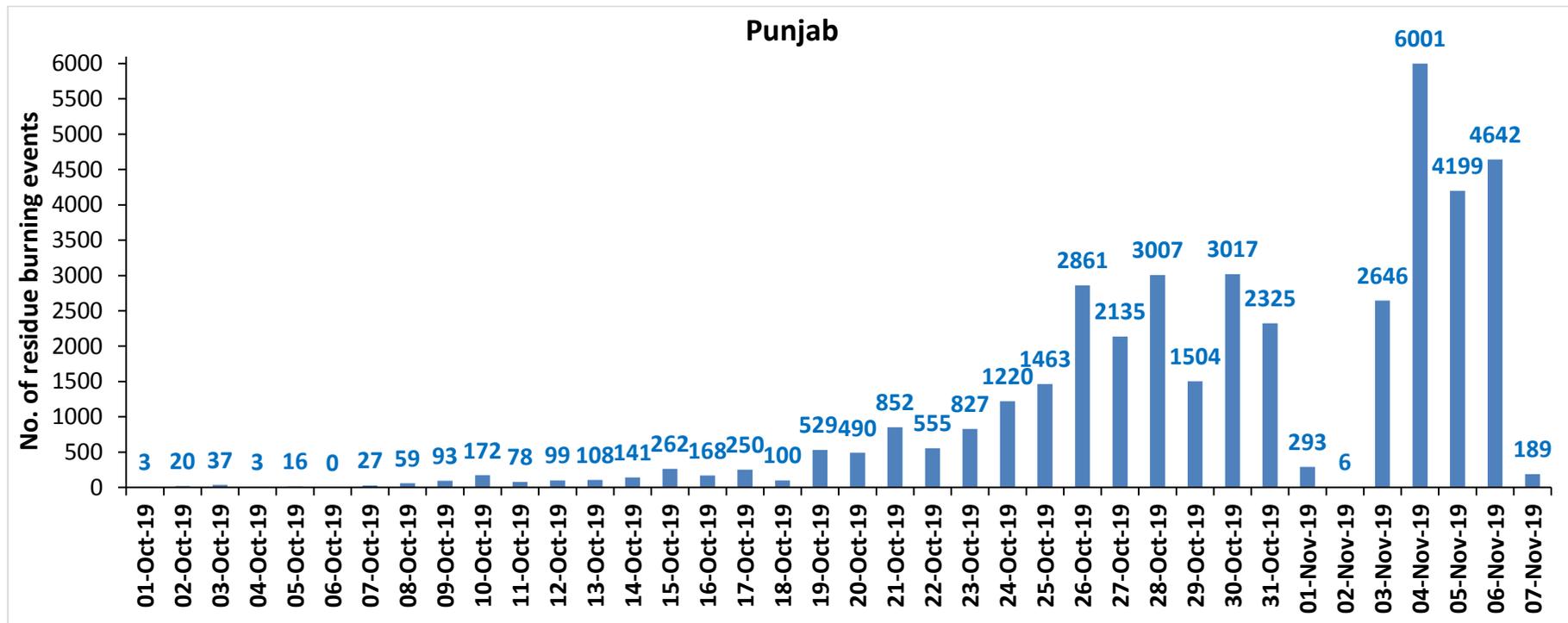
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

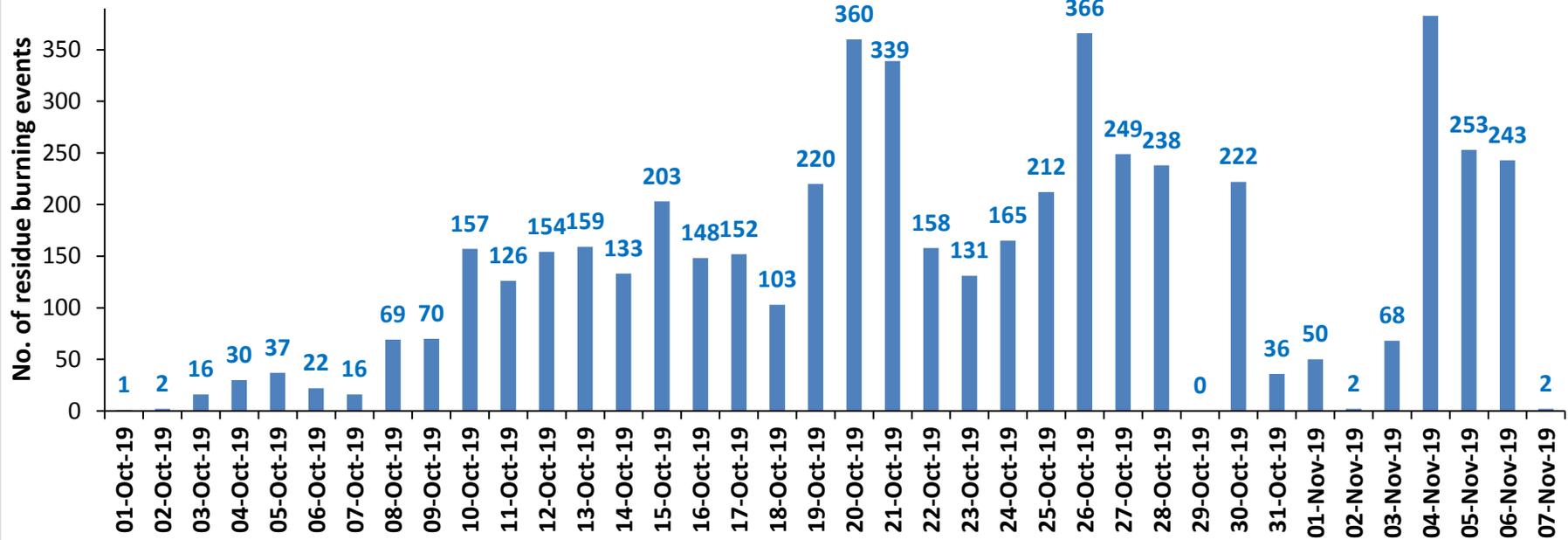
Highlights for 07-November-2019

- Satellites detected **224** residue burning events in the three study States on 07-Nov-2019.
- The burning events detected on **07-Nov-2019** are **189**, **02** and **33** in Punjab, Haryana and UP, respectively.
- The state of Punjab, Haryana and UP were mostly covered with clouds which prevented fire event detection by satellites.
- The number of events has decreased from **5003** on **06-Nov-2019** to **224** on **07-Nov-2019** in the three states.
- Total **47664** burning events were detected in the three States between **01-Oct-2019** and **07-Nov-2019**, which are distributed as **40397**, **5295** and **1972** in Punjab, Haryana and UP, respectively.
- Overall, the total burning events recorded in the three states are **1.26%** less than in 2018 till date. UP recorded **46.9%** reduction, Haryana recorded **11.7%** reduction, and Punjab recorded **4.8%** increase, respectively, in the current season than in 2018.

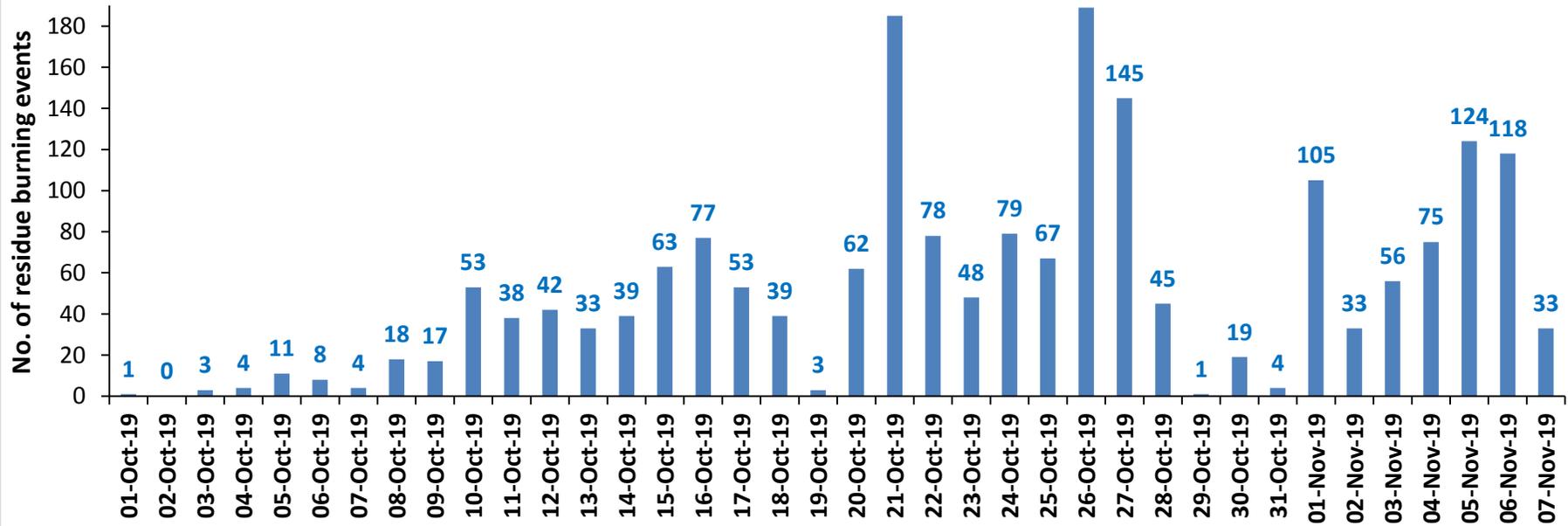
Temporal distribution of residue burning events for the three study States in 2019



Haryana

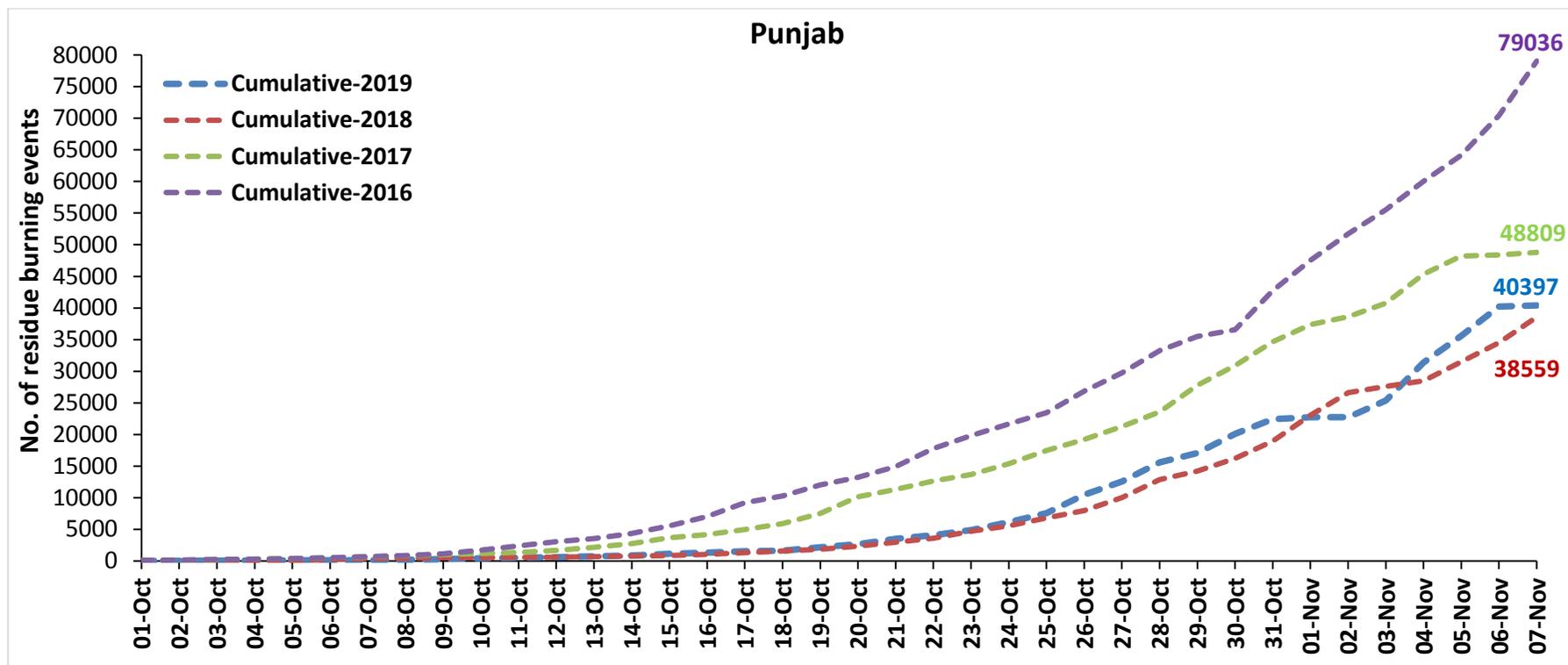


UP

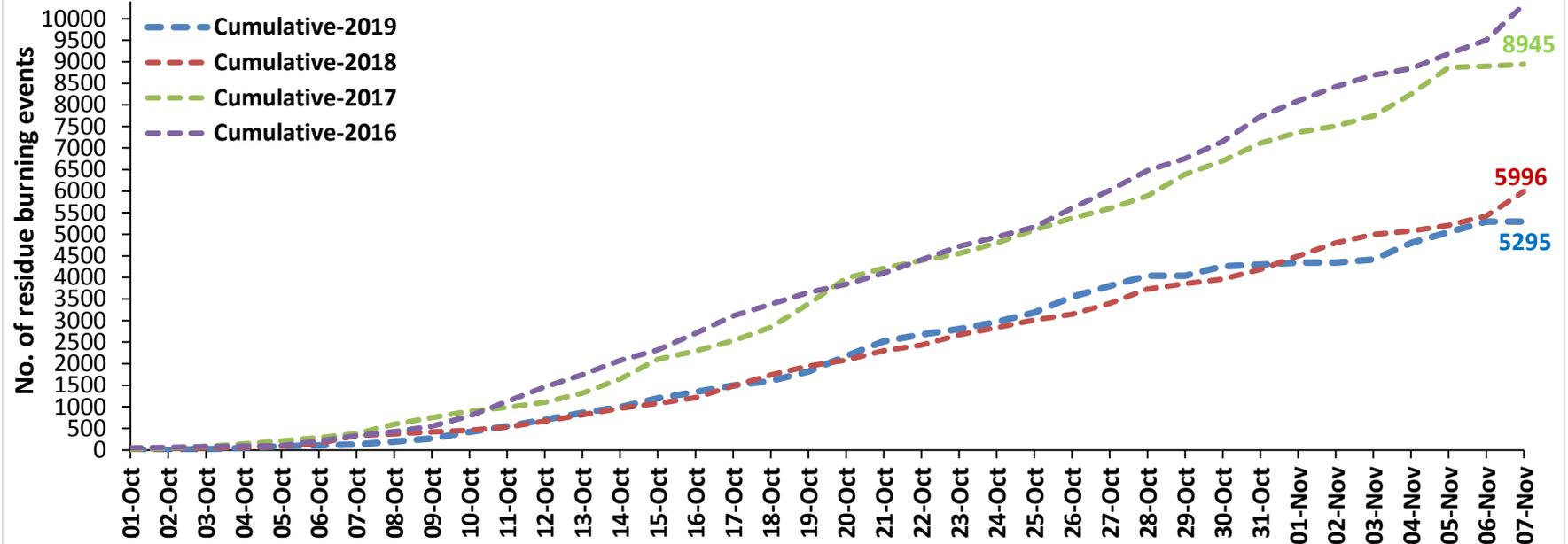


Comparison of residue burning events in current year (2019) with previous years (2018, 2017 & 2016) for the three study States

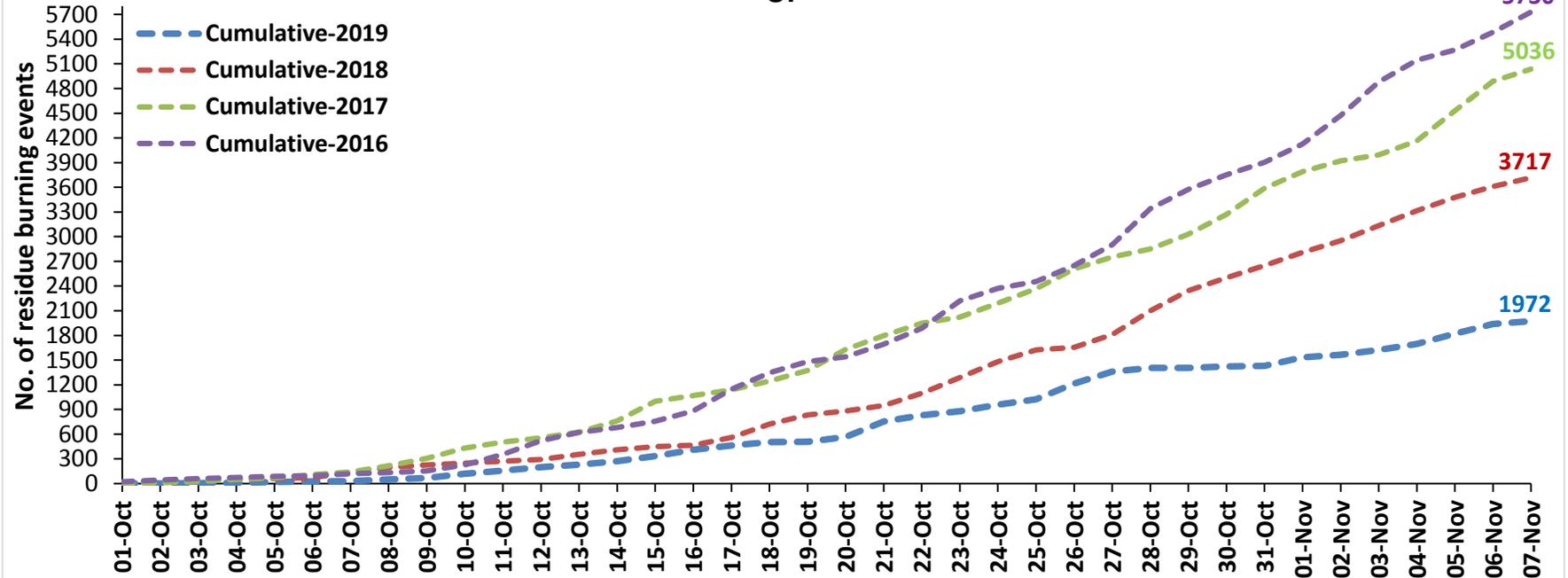
(01-Oct to 07-Nov)



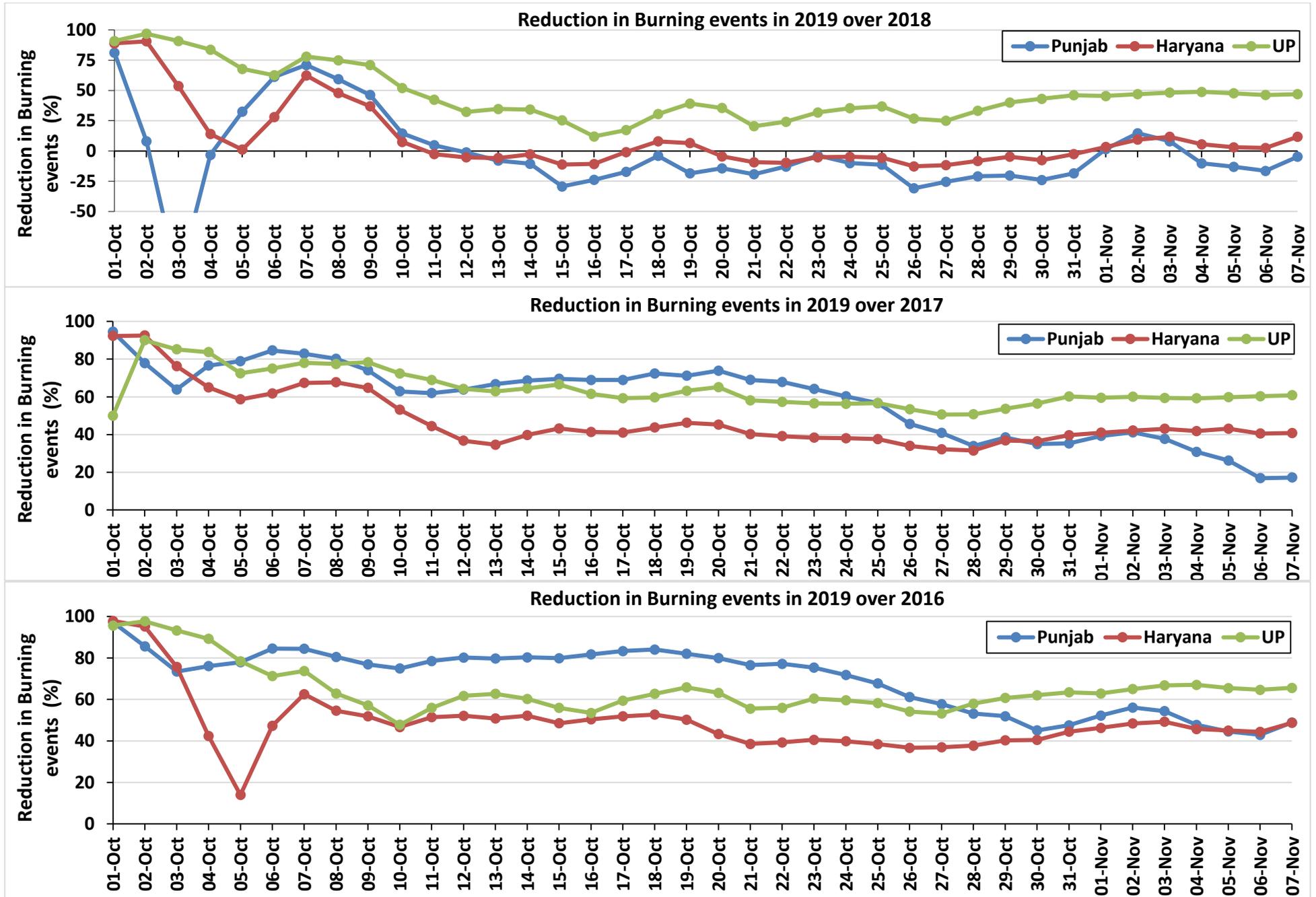
Haryana



UP

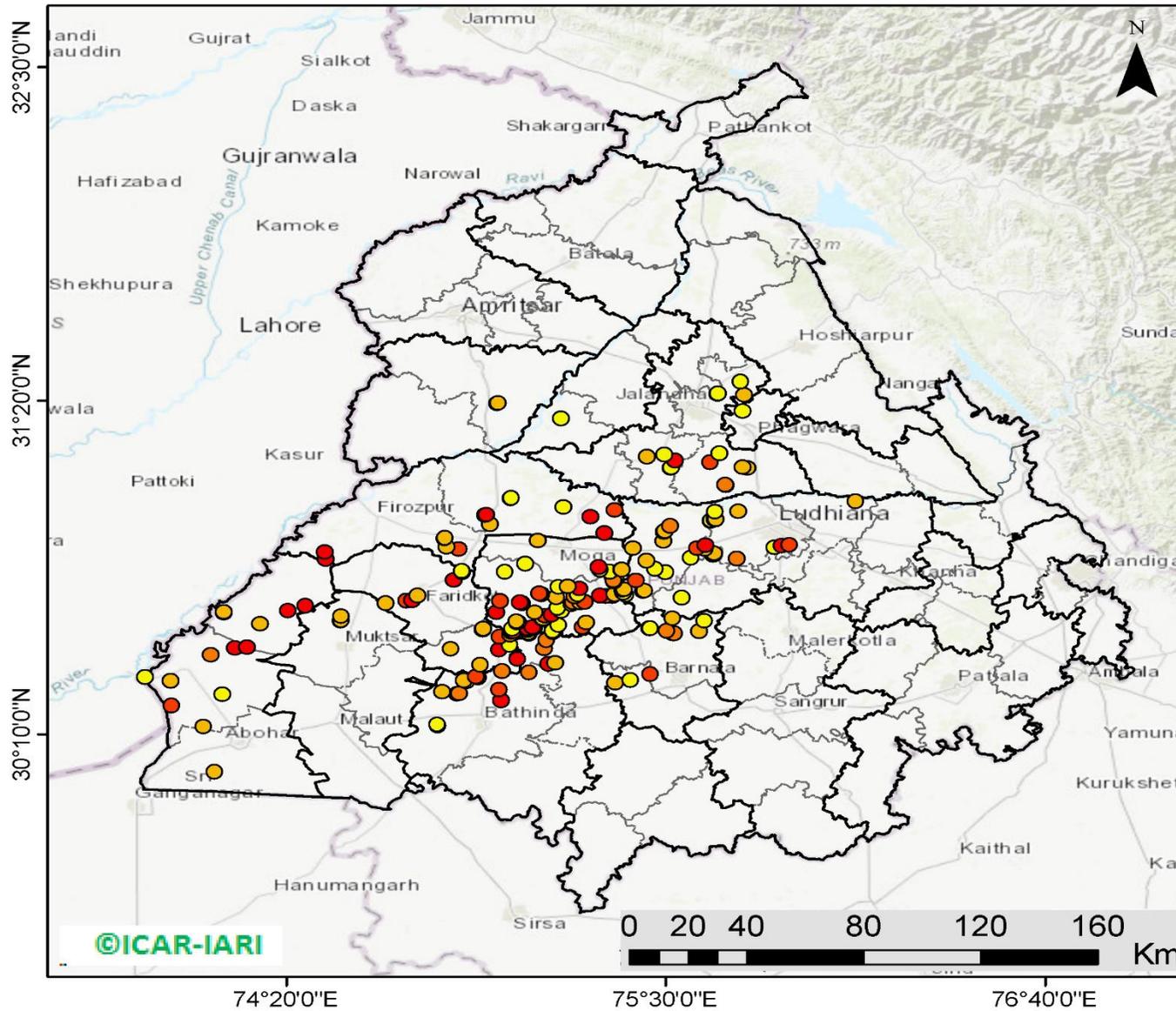


Percent Reduction in Burning events in 2019 over 2018, 2017 and 2016 (Daily Cumulative)



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



189 burning events detected in Punjab on 07th November 2019

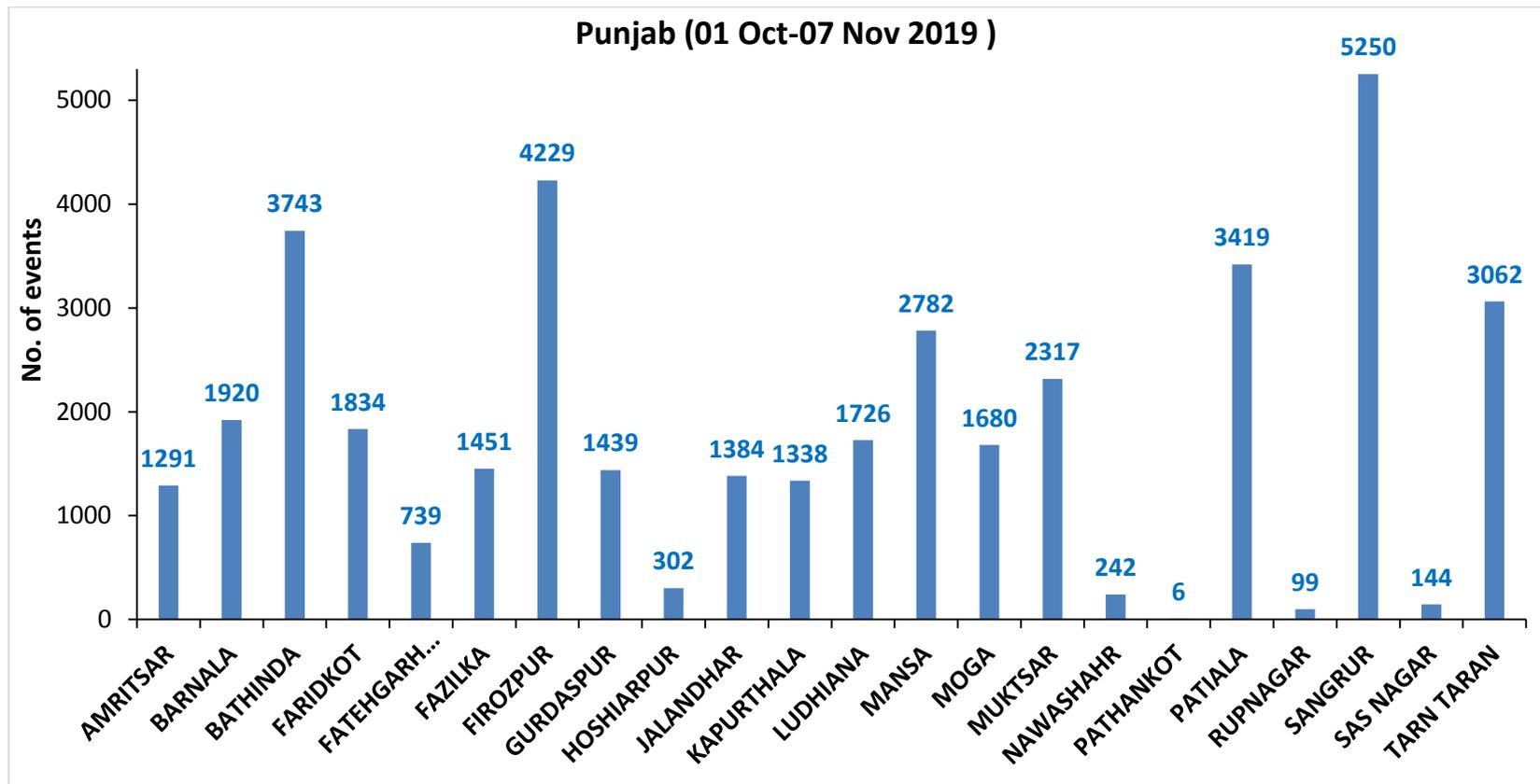
Fire Intensity (W/m²)

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



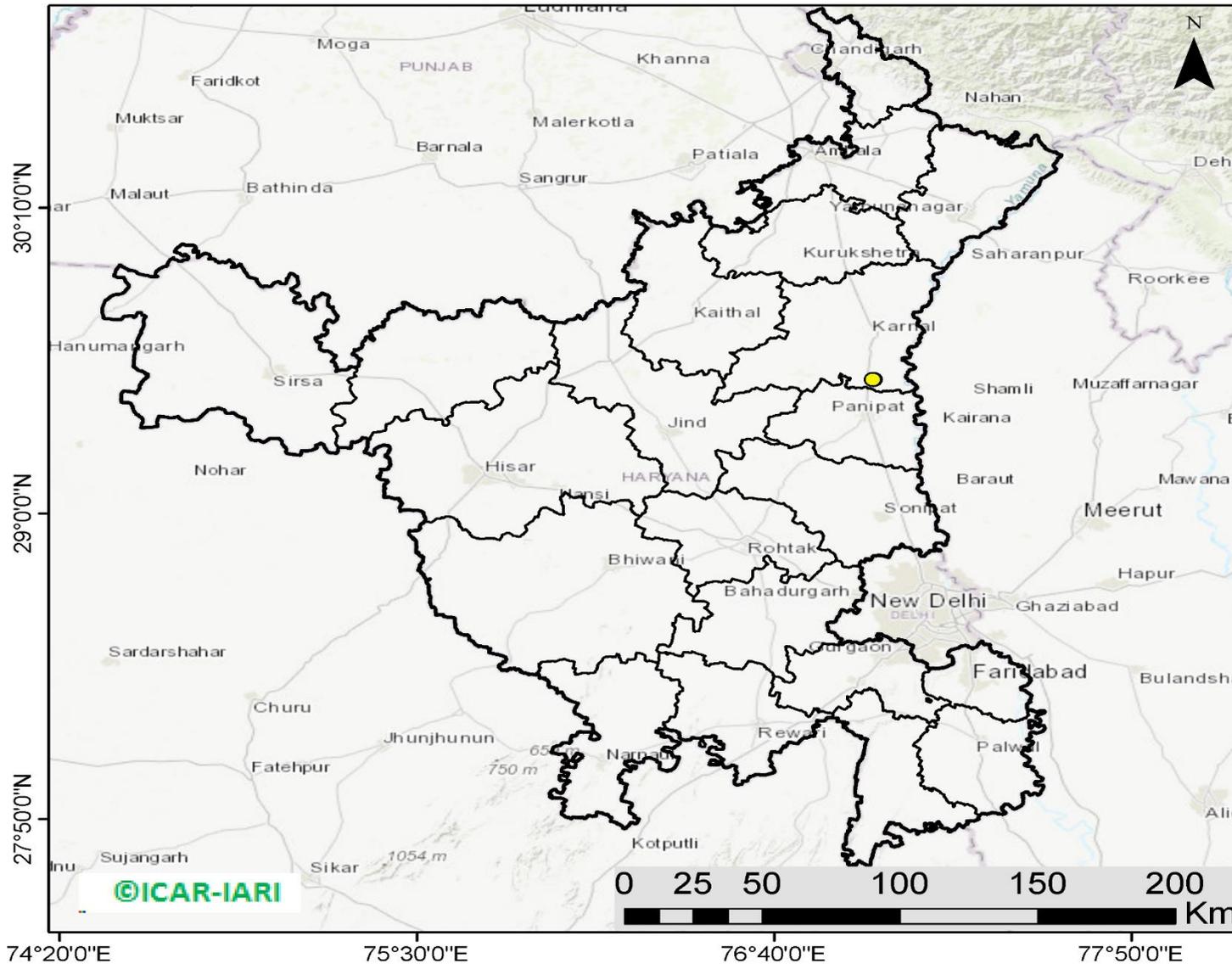
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (01 Oct to 07-Nov 2019)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



02 burning events
detected in Haryana on
07th November 2019

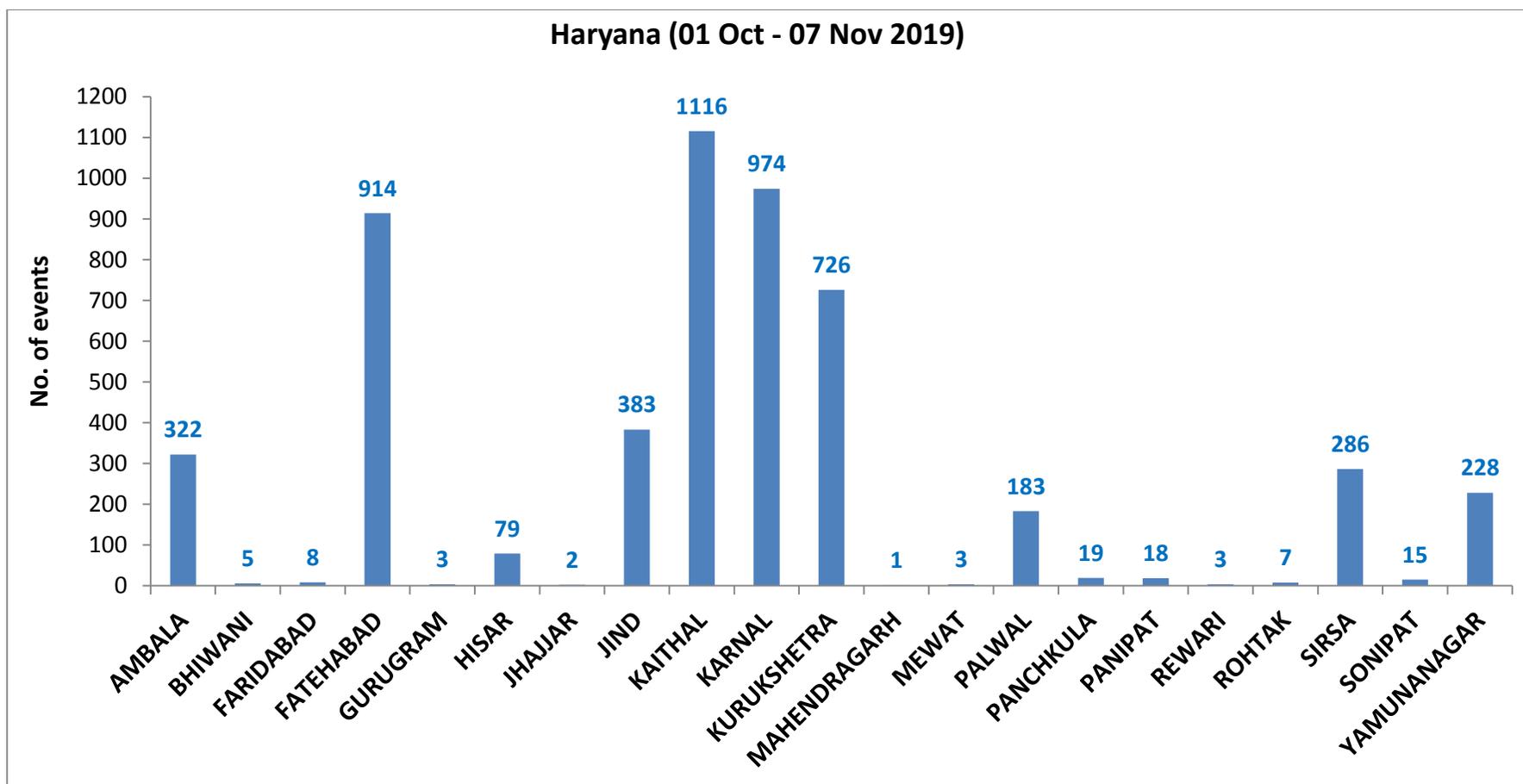
Fire Intensity (W/m²)

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



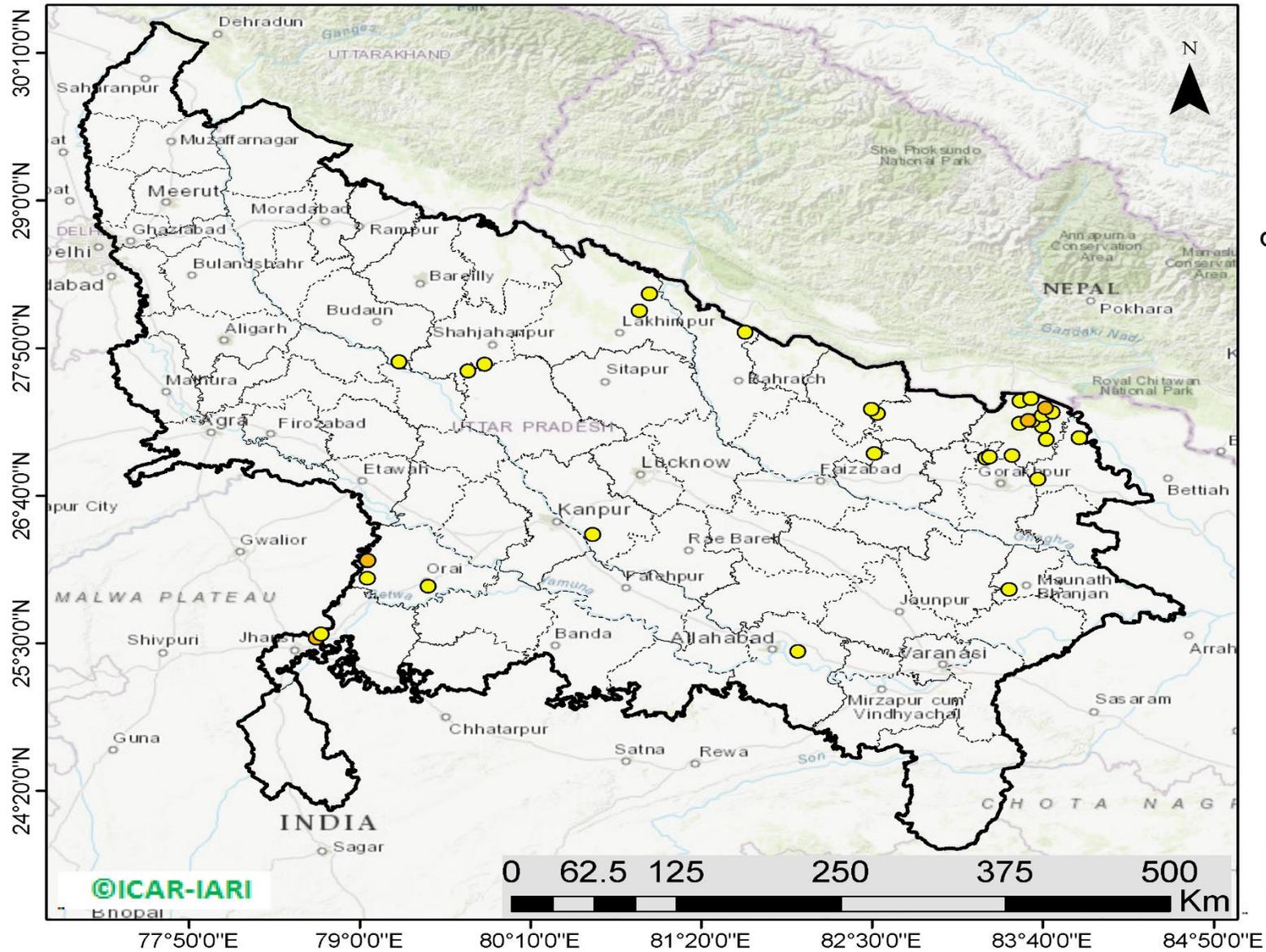
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (01 Oct to 07-Nov 2019)



(c) UP

RICE RESIDUE BURNING IN UTTAR PRADESH



33 burning events detected in Uttar Pradesh on 07th November 2019

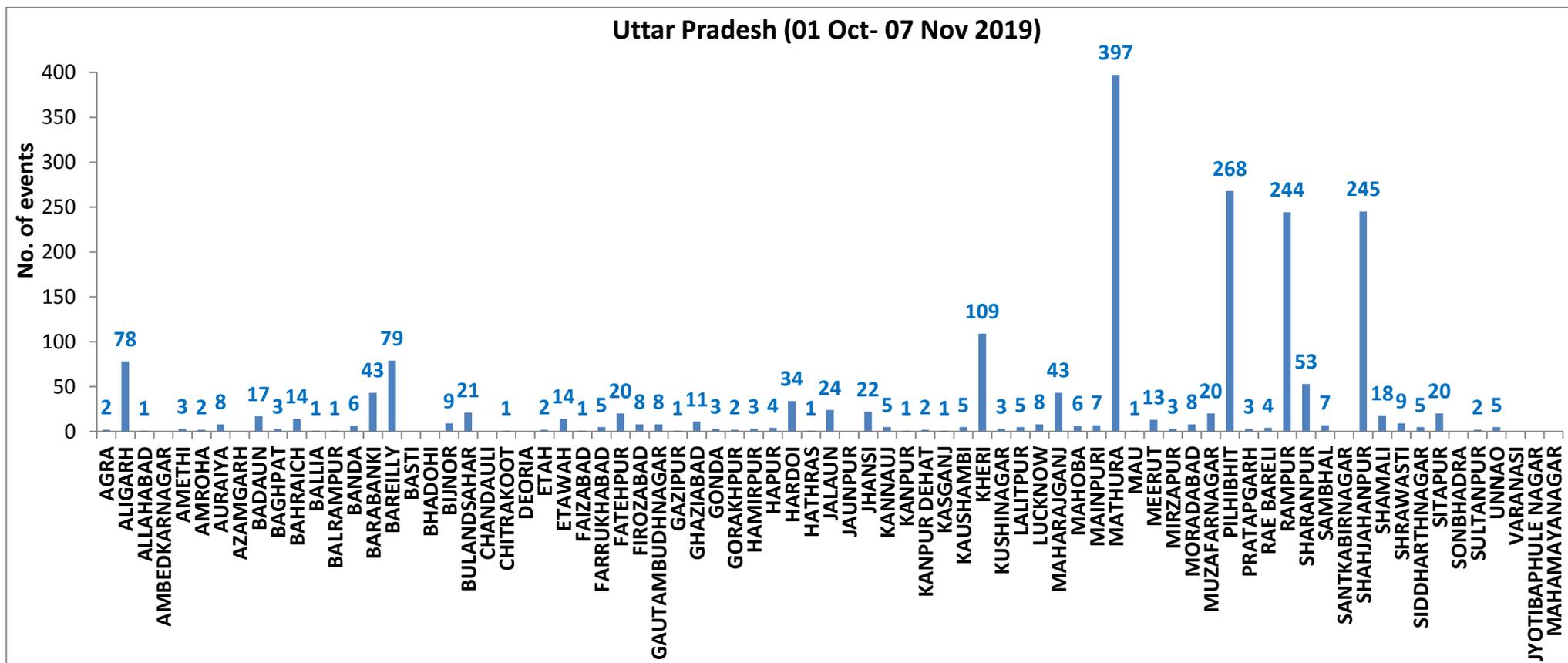
Fire Intensity (W/m²)

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



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

District-wise cumulative number of residues burning events in Uttar Pradesh (01 Oct to 07-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 07-Nov)

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

| | | | | | | | | | | | | | | | | |
|---------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 01-Nov | 293 | 4140 | 2736 | 4843 | 50 | 306 | 250 | 362 | 105 | 161 | 199 | 223 | 448 | 4607 | 3185 | 5428 |
| 02-Nov | 6 | 3550 | 1246 | 4183 | 2 | 306 | 145 | 332 | 33 | 142 | 131 | 345 | 41 | 3998 | 1522 | 4860 |
| 03-Nov | 2646 | 972 | 2109 | 3806 | 68 | 202 | 240 | 275 | 56 | 181 | 75 | 409 | 2770 | 1355 | 2424 | 4490 |
| 04-Nov | 6001 | 882 | 4603 | 4477 | 383 | 77 | 499 | 146 | 75 | 183 | 168 | 265 | 6459 | 1142 | 5270 | 4888 |
| 05-Nov | 4199 | 2989 | 2876 | 4137 | 253 | 129 | 625 | 345 | 124 | 163 | 367 | 125 | 4576 | 3281 | 3868 | 4607 |
| 06-Nov | 4642 | 3071 | 171 | 6303 | 243 | 222 | 26 | 322 | 118 | 130 | 357 | 215 | 5003 | 3423 | 554 | 6840 |
| 07-Nov | 189 | 4033 | 420 | 8575 | 2 | 568 | 46 | 821 | 33 | 108 | 149 | 244 | 224 | 4709 | 615 | 9640 |
| Total | 40397 | 38559 | 48809 | 79036 | 5295 | 5996 | 8945 | 10329 | 1972 | 3717 | 5036 | 5730 | 47664 | 48272 | 62790 | 95095 |

(a) Punjab

| Districts | 01Oct-07 Nov | | | |
|--------------------------|--------------|--------------|--------------|--------------|
| | 2016 | 2017 | 2018 | 2019 |
| AMRITSAR | 1770 | 1170 | 1055 | 1291 |
| BARNALA | 4077 | 1918 | 1590 | 1920 |
| BATHINDA | 6427 | 4314 | 4010 | 3743 |
| FARIDKOT | 3767 | 2732 | 2191 | 1834 |
| FATEHGARH SAHIB | 2361 | 1522 | 673 | 739 |
| FAZILKA | 0 | 0 | 0 | 1451 |
| FIROZPUR | 8708 | 5186 | 6429 | 4229 |
| GURDASPUR | 1999 | 1352 | 981 | 1439 |
| HOSHIARPUR | 843 | 440 | 140 | 302 |
| JALANDHAR | 4039 | 1847 | 1003 | 1384 |
| KAPURTHALA | 2958 | 1497 | 624 | 1338 |
| LUDHIANA | 6605 | 3370 | 1162 | 1726 |
| MANSA | 3732 | 3169 | 2794 | 2782 |
| MOGA | 4836 | 1745 | 1417 | 1680 |
| MUKTSAR | 4879 | 3243 | 3771 | 2317 |
| NAWASHAHR (SBS Nagar) | 1383 | 689 | 244 | 242 |
| PATHANKOT | 0 | 0 | 0 | 6 |
| PATIALA | 6168 | 4715 | 3197 | 3419 |
| RUPNAGAR | 667 | 293 | 51 | 99 |
| SANGRUR | 10246 | 6889 | 4844 | 5250 |
| SAS NAGAR | 114 | 107 | 98 | 144 |
| TARN TARAN | 3457 | 2611 | 2285 | 3062 |
| Total | 79036 | 48809 | 38559 | 40397 |

(b) Haryana

| Districts | 01Oct-07 Nov | | | |
|--------------|--------------|-------------|-------------|-------------|
| | 2016 | 2017 | 2018 | 2019 |
| AMBALA | 522 | 483 | 300 | 322 |
| BHIWANI | 24 | 18 | 10 | 5 |
| FARIDABAD | 234 | 322 | 178 | 8 |
| FATEHABAD | 2686 | 2191 | 1430 | 914 |
| GURUGRAM | 0 | 0 | 0 | 3 |
| HISAR | 192 | 130 | 100 | 79 |
| JHAJJAR | 8 | 8 | 9 | 2 |
| JIND | 671 | 715 | 465 | 383 |
| KAITHAL | 1680 | 1441 | 1134 | 1116 |
| KARNAL | 1547 | 1454 | 765 | 974 |
| KURUKSHETRA | 1061 | 1140 | 676 | 726 |
| MAHENDRAGARH | 0 | 0 | 0 | 1 |
| MEWAT | 0 | 0 | 0 | 3 |
| PALWAL | 0 | 0 | 0 | 183 |
| PANCHKULA | 0 | 0 | 3 | 19 |
| PANIPAT | 63 | 57 | 43 | 18 |
| REWARI | 0 | 0 | 0 | 3 |
| ROHTAK | 34 | 32 | 5 | 7 |
| SIRSA | 1330 | 619 | 693 | 286 |
| SONIPAT | 44 | 38 | 23 | 15 |
| YAMUNANAGAR | 233 | 297 | 162 | 228 |
| Total | 10329 | 8945 | 5996 | 5295 |

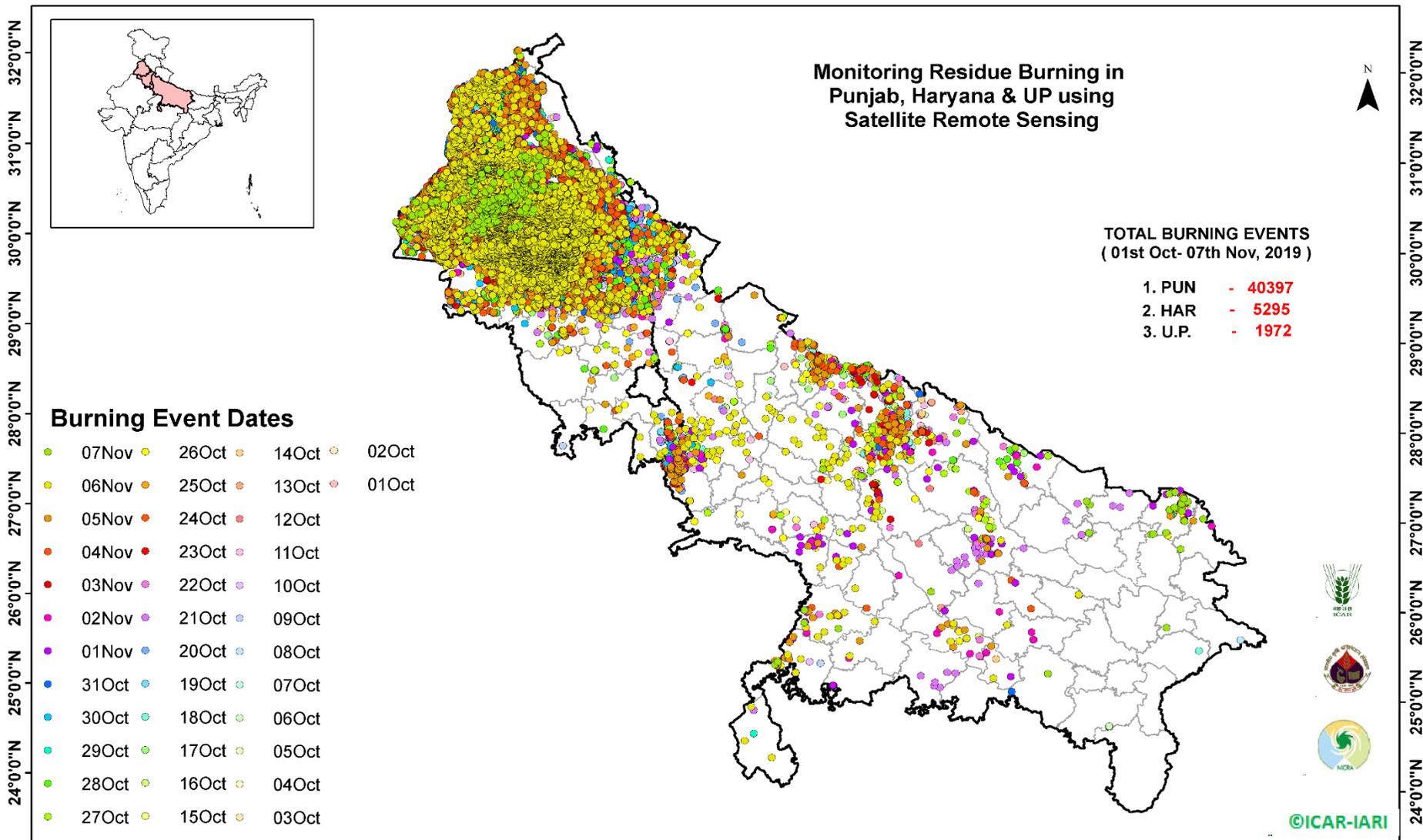
(c) Uttar Pradesh

| Districts | 01Oct-07 Nov | | | |
|---------------|--------------|------|------|------|
| | 2016 | 2017 | 2018 | 2019 |
| AGRA | 0 | 0 | 0 | 2 |
| ALIGARH | 40 | 71 | 79 | 78 |
| ALLAHABAD | 0 | 1 | 5 | 1 |
| AMBEDKARNAGAR | 24 | 14 | 6 | 0 |
| AMETHI | 0 | 0 | 0 | 3 |
| AMROHA | 0 | 0 | 0 | 2 |
| AURAIYA | 122 | 93 | 33 | 8 |
| AZAMGARH | 10 | 6 | 7 | 0 |
| BADAUN | 5 | 5 | 3 | 17 |
| BAGHPAT | 0 | 0 | 0 | 3 |
| BAHRAICH | 42 | 28 | 46 | 14 |
| BALLIA | 1 | 6 | 4 | 1 |
| BALRAMPUR | 12 | 18 | 23 | 1 |
| BANDA | 1 | 2 | 5 | 6 |
| BARABANKI | 167 | 125 | 143 | 43 |
| BAREILLY | 216 | 173 | 109 | 79 |
| BASTI | 37 | 72 | 25 | 0 |
| BHADOHI | 0 | 0 | 0 | 0 |
| BIJNOR | 33 | 15 | 5 | 9 |
| BULANDSAHAR | 11 | 16 | 11 | 21 |
| CHANDAULI | 2 | 0 | 0 | 0 |
| CHITRAKOOT | 0 | 0 | 0 | 1 |
| DEORIA | 19 | 25 | 23 | 0 |
| ETAH | 9 | 26 | 17 | 2 |
| ETAWAH | 28 | 56 | 20 | 14 |
| FAIZABAD | 7 | 4 | 3 | 1 |
| FARRUKHABAD | 0 | 0 | 0 | 5 |
| FATEHPUR | 32 | 25 | 42 | 20 |
| FIROZABAD | 14 | 15 | 7 | 8 |

| | | | | |
|-----------------|------|------|------|-----|
| GAUTAMBUDHNAGAR | 14 | 29 | 11 | 8 |
| GAZIPUR | 10 | 5 | 1 | 1 |
| GHAZIABAD | 37 | 20 | 12 | 11 |
| GONDA | 17 | 19 | 13 | 3 |
| GORAKHPUR | 27 | 24 | 32 | 2 |
| HAMIRPUR | 0 | 0 | 1 | 3 |
| HAPUR | 0 | 0 | 0 | 4 |
| HARDOI | 179 | 152 | 85 | 34 |
| HATHRAS | 0 | 0 | 0 | 1 |
| JALAUN | 0 | 0 | 0 | 24 |
| JAUNPUR | 5 | 1 | 5 | 0 |
| JHANSI | 0 | 0 | 2 | 22 |
| KANNAUJ | 3 | 9 | 3 | 5 |
| KANPUR | 3 | 4 | 7 | 1 |
| KANPUR DEHAT | 5 | 19 | 5 | 2 |
| KASGANJ | 0 | 0 | 0 | 1 |
| KAUSHAMBI | 11 | 16 | 20 | 5 |
| KHERI | 329 | 197 | 156 | 109 |
| KUSHINAGAR | 10 | 15 | 27 | 3 |
| LALITPUR | 0 | 0 | 0 | 5 |
| LUCKNOW | 40 | 24 | 20 | 8 |
| MAHARAJGANJ | 119 | 305 | 353 | 43 |
| MAHOBA | 0 | 0 | 0 | 6 |
| MAINPURI | 27 | 61 | 27 | 7 |
| MATHURA | 1144 | 1054 | 1014 | 397 |
| MAU | 3 | 3 | 5 | 1 |
| MEERUT | 37 | 24 | 8 | 13 |
| MIRZAPUR | 0 | 8 | 5 | 3 |
| MORADABAD | 31 | 21 | 9 | 8 |
| MUZAFARNAGAR | 88 | 81 | 22 | 20 |
| PILHIBHIT | 803 | 629 | 375 | 268 |
| PRATAPGARH | 10 | 11 | 6 | 3 |

| | | | | |
|-----------------------|-------------|-------------|-------------|-------------|
| RAE BARELI | 17 | 14 | 11 | 4 |
| RAMPUR | 593 | 573 | 204 | 244 |
| SHARANPUR | 67 | 77 | 43 | 53 |
| SAMBHAL | 0 | 0 | 0 | 7 |
| SANTKABIRNAGAR | 18 | 30 | 23 | 0 |
| SHAHJAHANPUR | 1028 | 656 | 293 | 245 |
| SHAMALI | 0 | 0 | 0 | 18 |
| SHRAWASTI | 18 | 21 | 27 | 9 |
| SIDDHARTHANAGAR | 61 | 55 | 209 | 5 |
| SITAPUR | 83 | 46 | 25 | 20 |
| SONBHADRA | 8 | 1 | 7 | 0 |
| SULTANPUR | 15 | 11 | 4 | 2 |
| UNNAO | 31 | 17 | 25 | 5 |
| VARANASI | 0 | 0 | 0 | 0 |
| JYOTIBAPHULE NAGAR | 7 | 6 | 2 | 0 |
| MAHAMAYANAGAR | 0 | 2 | 4 | 0 |
| Total | 5730 | 5036 | 3717 | 1972 |

Map of Cumulative Burning Events (01 Oct – 07 Nov 2019)



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

Details of residue burning events in Punjab on 07-Nov-2019

| S. No. | District | Tehsil / Block | Satellite | Longitude | Latitude | Time (IST) | Day / Night | Fire Power (W/m2) |
|---------------|-----------------|-----------------------|------------------|------------------|-----------------|-------------------|--------------------|--------------------------|
| 1 | BARNALA | BARNALA | AQUA | 75.45200 | 30.37800 | 14:10:00 | D | 18.10 |
| 2 | BARNALA | BARNALA | S-NPP | 75.52192 | 30.51921 | 13:00:00 | D | 11.20 |
| 3 | BARNALA | BARNALA | S-NPP | 75.52713 | 30.52033 | 13:00:00 | D | 11.20 |
| 4 | BARNALA | BARNALA | S-NPP | 75.60229 | 30.52710 | 13:00:00 | D | 6.40 |
| 5 | BARNALA | BARNALA | S-NPP | 75.50245 | 30.52920 | 13:00:00 | D | 10.60 |
| 6 | BARNALA | BARNALA | S-NPP | 75.45008 | 30.53692 | 13:00:00 | D | 5.80 |
| 7 | BARNALA | BARNALA | S-NPP | 75.45239 | 30.53771 | 13:00:00 | D | 4.30 |
| 8 | BARNALA | BARNALA | S-NPP | 75.61916 | 30.56362 | 13:00:00 | D | 5.00 |
| 9 | BARNALA | BARNALA | S-NPP | 75.52042 | 30.57165 | 13:00:00 | D | 8.10 |
| 10 | BARNALA | TAPPA | S-NPP | 75.34363 | 30.34657 | 13:00:00 | D | 7.70 |
| 11 | BARNALA | TAPPA | S-NPP | 75.39175 | 30.35710 | 13:00:00 | D | 1.30 |
| 12 | BATHINDA | BATHINDA | S-NPP | 74.79960 | 30.19629 | 13:00:00 | D | 4.80 |
| 13 | BATHINDA | BATHINDA | S-NPP | 74.79823 | 30.20097 | 13:00:00 | D | 4.80 |
| 14 | BATHINDA | BATHINDA | AQUA | 74.99300 | 30.28500 | 14:10:00 | D | 24.00 |
| 15 | BATHINDA | BATHINDA | TERRA | 74.85800 | 30.30800 | 10:55:00 | D | 9.40 |
| 16 | BATHINDA | BATHINDA | TERRA | 74.86500 | 30.30900 | 10:55:00 | D | 14.70 |
| 17 | BATHINDA | BATHINDA | S-NPP | 74.81218 | 30.31435 | 13:00:00 | D | 7.70 |
| 18 | BATHINDA | BATHINDA | AQUA | 74.98800 | 30.32200 | 14:10:00 | D | 20.00 |
| 19 | BATHINDA | BATHINDA | S-NPP | 74.88694 | 30.35089 | 13:00:00 | D | 4.80 |
| 20 | BATHINDA | BATHINDA | S-NPP | 74.87987 | 30.35426 | 13:00:00 | D | 6.20 |
| 21 | BATHINDA | BATHINDA | AQUA | 74.92200 | 30.36500 | 14:10:00 | D | 15.80 |
| 22 | BATHINDA | BATHINDA | AQUA | 74.91600 | 30.36800 | 14:10:00 | D | 18.60 |
| 23 | BATHINDA | BATHINDA | AQUA | 75.08000 | 30.38300 | 14:10:00 | D | 14.50 |
| 24 | BATHINDA | BATHINDA | AQUA | 74.99600 | 30.38800 | 14:10:00 | D | 14.10 |
| 25 | BATHINDA | RAMPURA PHUL | AQUA | 75.13900 | 30.41300 | 14:10:00 | D | 30.30 |
| 26 | BATHINDA | RAMPURA PHUL | S-NPP | 75.15950 | 30.41624 | 13:00:00 | D | 7.60 |
| 27 | BATHINDA | RAMPURA PHUL | S-NPP | 75.04386 | 30.42973 | 13:00:00 | D | 34.70 |
| 28 | BATHINDA | RAMPURA PHUL | AQUA | 75.12600 | 30.46600 | 14:10:00 | D | 13.90 |
| 29 | BATHINDA | RAMPURA PHUL | S-NPP | 75.13350 | 30.49582 | 13:00:00 | D | 13.60 |
| 30 | BATHINDA | RAMPURA PHUL | S-NPP | 75.08024 | 30.51801 | 13:00:00 | D | 3.90 |

| | | | | | | | | |
|----|----------|--------------|-------|----------|----------|----------|---|-------|
| 31 | BATHINDA | RAMPURA PHUL | S-NPP | 75.07891 | 30.52257 | 13:00:00 | D | 3.90 |
| 32 | BATHINDA | RAMPURA PHUL | S-NPP | 75.15429 | 30.52463 | 13:00:00 | D | 3.30 |
| 33 | BATHINDA | RAMPURA PHUL | S-NPP | 75.15297 | 30.52918 | 13:00:00 | D | 3.30 |
| 34 | BATHINDA | RAMPURA PHUL | S-NPP | 75.17085 | 30.54760 | 13:00:00 | D | 4.10 |
| 35 | FARIDKOT | FARIDKOT | S-NPP | 74.63932 | 30.62475 | 13:00:00 | D | 5.60 |
| 36 | FARIDKOT | FARIDKOT | AQUA | 74.70200 | 30.63400 | 14:10:00 | D | 19.00 |
| 37 | FARIDKOT | FARIDKOT | AQUA | 74.72100 | 30.63500 | 14:10:00 | D | 20.60 |
| 38 | FARIDKOT | FARIDKOT | S-NPP | 74.73624 | 30.65148 | 13:00:00 | D | 6.50 |
| 39 | FARIDKOT | FARIDKOT | S-NPP | 74.84775 | 30.70584 | 13:00:00 | D | 21.50 |
| 40 | FARIDKOT | FARIDKOT | S-NPP | 74.87473 | 30.73392 | 13:00:00 | D | 3.30 |
| 41 | FARIDKOT | FARIDKOT | S-NPP | 74.87479 | 30.73629 | 13:00:00 | D | 8.40 |
| 42 | FARIDKOT | FARIDKOT | S-NPP | 74.87340 | 30.73852 | 13:00:00 | D | 3.30 |
| 43 | FARIDKOT | JAITO | S-NPP | 74.93019 | 30.40971 | 13:00:00 | D | 6.60 |
| 44 | FARIDKOT | JAITO | AQUA | 74.98700 | 30.46200 | 14:10:00 | D | 20.70 |
| 45 | FARIDKOT | JAITO | S-NPP | 74.83884 | 30.46455 | 13:00:00 | D | 6.90 |
| 46 | FARIDKOT | JAITO | S-NPP | 75.02037 | 30.48040 | 13:00:00 | D | 2.10 |
| 47 | FARIDKOT | JAITO | S-NPP | 74.98868 | 30.50756 | 13:00:00 | D | 16.70 |
| 48 | FARIDKOT | JAITO | S-NPP | 74.93716 | 30.53285 | 13:00:00 | D | 6.20 |
| 49 | FARIDKOT | JAITO | S-NPP | 74.93864 | 30.53571 | 13:00:00 | D | 5.20 |
| 50 | FAZILKA | ABOHAR | S-NPP | 74.11344 | 30.03540 | 14:36:00 | D | 6.70 |
| 51 | FAZILKA | FAZILKA | S-NPP | 74.07826 | 30.19354 | 13:00:00 | D | 5.30 |
| 52 | FAZILKA | FAZILKA | AQUA | 73.98100 | 30.26700 | 14:10:00 | D | 18.60 |
| 53 | FAZILKA | FAZILKA | S-NPP | 74.13729 | 30.30626 | 13:00:00 | D | 4.70 |
| 54 | FAZILKA | FAZILKA | S-NPP | 73.97836 | 30.35401 | 13:00:00 | D | 7.80 |
| 55 | FAZILKA | FAZILKA | S-NPP | 73.89845 | 30.36691 | 13:00:00 | D | 3.20 |
| 56 | FAZILKA | FAZILKA | S-NPP | 74.10072 | 30.44431 | 13:00:00 | D | 12.20 |
| 57 | FAZILKA | FAZILKA | AQUA | 74.17600 | 30.46800 | 14:10:00 | D | 37.60 |
| 58 | FAZILKA | JALALABAD | AQUA | 74.21200 | 30.47100 | 14:10:00 | D | 31.60 |
| 59 | FAZILKA | JALALABAD | S-NPP | 74.25233 | 30.55231 | 13:00:00 | D | 9.30 |
| 60 | FAZILKA | JALALABAD | S-NPP | 74.14149 | 30.59120 | 13:00:00 | D | 4.60 |
| 61 | FAZILKA | JALALABAD | S-NPP | 74.14067 | 30.59364 | 13:00:00 | D | 6.70 |
| 62 | FAZILKA | JALALABAD | AQUA | 74.33800 | 30.59900 | 14:10:00 | D | 36.00 |
| 63 | FAZILKA | JALALABAD | AQUA | 74.39200 | 30.61600 | 14:10:00 | D | 29.00 |

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|----|------------|-----------------|-------|----------|----------|----------|---|-------|
| 64 | FIROZPUR | FIROZPUR | AQUA | 74.45500 | 30.78000 | 14:10:00 | D | 39.60 |
| 65 | FIROZPUR | FIROZPUR | AQUA | 74.45200 | 30.80400 | 14:10:00 | D | 22.90 |
| 66 | FIROZPUR | FIROZPUR | S-NPP | 74.86292 | 30.81451 | 13:00:00 | D | 16.70 |
| 67 | FIROZPUR | FIROZPUR | S-NPP | 74.82504 | 30.82085 | 13:00:00 | D | 7.40 |
| 68 | FIROZPUR | FIROZPUR | S-NPP | 74.81933 | 30.85099 | 13:00:00 | D | 9.20 |
| 69 | FIROZPUR | FIROZPUR | S-NPP | 74.82115 | 30.85428 | 13:00:00 | D | 9.10 |
| 70 | FIROZPUR | ZIRA | AQUA | 75.31200 | 30.87000 | 14:10:00 | D | 20.90 |
| 71 | FIROZPUR | ZIRA | S-NPP | 74.95888 | 30.90179 | 13:00:00 | D | 5.10 |
| 72 | FIROZPUR | ZIRA | TERRA | 75.26900 | 30.92600 | 10:55:00 | D | 29.90 |
| 73 | FIROZPUR | ZIRA | S-NPP | 74.94396 | 30.93248 | 13:00:00 | D | 13.20 |
| 74 | FIROZPUR | ZIRA | S-NPP | 74.94949 | 30.93369 | 13:00:00 | D | 24.00 |
| 75 | FIROZPUR | ZIRA | AQUA | 75.34200 | 30.95000 | 14:10:00 | D | 19.70 |
| 76 | FIROZPUR | ZIRA | S-NPP | 75.18448 | 30.96141 | 13:00:00 | D | 2.60 |
| 77 | FIROZPUR | ZIRA | S-NPP | 75.02296 | 30.99278 | 13:00:00 | D | 5.60 |
| 78 | FIROZPUR | ZIRA | S-NPP | 75.02532 | 30.99384 | 13:00:00 | D | 3.30 |
| 79 | JALANDHAR | JALANDHAR I | S-NPP | 75.74009 | 31.35290 | 13:00:00 | D | 8.40 |
| 80 | JALANDHAR | JALANDHAR I | S-NPP | 75.65823 | 31.35810 | 13:00:00 | D | 3.00 |
| 81 | JALANDHAR | JALANDHAR I | S-NPP | 75.65971 | 31.35889 | 13:00:00 | D | 3.20 |
| 82 | JALANDHAR | JALANDHAR I | S-NPP | 75.72964 | 31.40116 | 13:00:00 | D | 3.20 |
| 83 | JALANDHAR | NAKODAR | S-NPP | 75.51420 | 31.09719 | 13:00:00 | D | 5.60 |
| 84 | JALANDHAR | NAKODAR | S-NPP | 75.51660 | 31.09953 | 13:00:00 | D | 2.60 |
| 85 | JALANDHAR | NAKODAR | S-NPP | 75.52823 | 31.12364 | 13:00:00 | D | 23.10 |
| 86 | JALANDHAR | NAKODAR | S-NPP | 75.44260 | 31.13776 | 13:00:00 | D | 5.30 |
| 87 | JALANDHAR | NAKODAR | S-NPP | 75.49509 | 31.14447 | 13:00:00 | D | 2.00 |
| 88 | JALANDHAR | PHILLAUR | S-NPP | 75.68457 | 31.03799 | 13:00:00 | D | 10.20 |
| 89 | JALANDHAR | PHILLAUR | S-NPP | 75.68233 | 31.03898 | 13:00:00 | D | 10.90 |
| 90 | JALANDHAR | PHILLAUR | TERRA | 75.75100 | 31.09800 | 10:55:00 | D | 8.30 |
| 91 | JALANDHAR | PHILLAUR | TERRA | 75.73600 | 31.10000 | 10:55:00 | D | 9.10 |
| 92 | JALANDHAR | PHILLAUR | AQUA | 75.63600 | 31.11900 | 14:10:00 | D | 15.60 |
| 93 | JALANDHAR | PHILLAUR | S-NPP | 75.66546 | 31.14891 | 13:00:00 | D | 1.60 |
| 94 | KAPURTHALA | PHAGWARA | S-NPP | 75.73531 | 31.29680 | 13:00:00 | D | 2.90 |
| 95 | KAPURTHALA | SULTANPUR LODHI | S-NPP | 75.17713 | 31.27124 | 13:00:00 | D | 4.70 |
| 96 | LUDHIANA | JAGRAON | S-NPP | 75.37680 | 30.65502 | 13:00:00 | D | 4.10 |

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|-----|----------|---------------|-------|----------|----------|----------|---|-------|
| 97 | LUDHIANA | JAGRAON | S-NPP | 75.42939 | 30.66658 | 13:00:00 | D | 6.80 |
| 98 | LUDHIANA | JAGRAON | S-NPP | 75.43463 | 30.66773 | 13:00:00 | D | 6.80 |
| 99 | LUDHIANA | JAGRAON | S-NPP | 75.40733 | 30.70446 | 13:00:00 | D | 15.30 |
| 100 | LUDHIANA | JAGRAON | S-NPP | 75.49869 | 30.73368 | 13:00:00 | D | 3.60 |
| 101 | LUDHIANA | JAGRAON | S-NPP | 75.46761 | 30.74586 | 13:00:00 | D | 2.30 |
| 102 | LUDHIANA | JAGRAON | S-NPP | 75.43990 | 30.77370 | 13:00:00 | D | 5.60 |
| 103 | LUDHIANA | JAGRAON | S-NPP | 75.57748 | 30.78346 | 13:00:00 | D | 3.70 |
| 104 | LUDHIANA | JAGRAON | S-NPP | 75.64510 | 30.79317 | 13:00:00 | D | 2.70 |
| 105 | LUDHIANA | JAGRAON | S-NPP | 75.64659 | 30.79559 | 13:00:00 | D | 6.10 |
| 106 | LUDHIANA | JAGRAON | S-NPP | 75.64892 | 30.79864 | 13:00:00 | D | 5.90 |
| 107 | LUDHIANA | JAGRAON | S-NPP | 75.39964 | 30.81697 | 13:00:00 | D | 7.50 |
| 108 | LUDHIANA | JAGRAON | AQUA | 75.59700 | 30.81700 | 14:10:00 | D | 16.80 |
| 109 | LUDHIANA | JAGRAON | S-NPP | 75.49202 | 30.84167 | 13:00:00 | D | 5.40 |
| 110 | LUDHIANA | JAGRAON | S-NPP | 75.49339 | 30.87488 | 13:00:00 | D | 9.10 |
| 111 | LUDHIANA | JAGRAON | S-NPP | 75.49675 | 30.87764 | 13:00:00 | D | 5.30 |
| 112 | LUDHIANA | JAGRAON | S-NPP | 75.51350 | 30.89543 | 13:00:00 | D | 11.20 |
| 113 | LUDHIANA | JAGRAON | S-NPP | 75.63824 | 30.91338 | 13:00:00 | D | 3.40 |
| 114 | LUDHIANA | JAGRAON | S-NPP | 75.63914 | 30.91521 | 13:00:00 | D | 2.80 |
| 115 | LUDHIANA | JAGRAON | S-NPP | 75.64927 | 30.91735 | 13:00:00 | D | 7.10 |
| 116 | LUDHIANA | JAGRAON | S-NPP | 75.65087 | 30.94407 | 13:00:00 | D | 4.30 |
| 117 | LUDHIANA | JAGRAON | AQUA | 75.40900 | 30.95500 | 14:10:00 | D | 55.80 |
| 118 | LUDHIANA | JAGRAON | AQUA | 75.41300 | 30.95700 | 14:10:00 | D | 66.90 |
| 119 | LUDHIANA | JAGRAON | AQUA | 75.43100 | 30.95700 | 14:10:00 | D | 50.10 |
| 120 | LUDHIANA | LUDHIANA EAST | S-NPP | 76.08377 | 30.98130 | 13:00:00 | D | 5.90 |
| 121 | LUDHIANA | LUDHIANA WEST | S-NPP | 75.71841 | 30.78086 | 13:00:00 | D | 15.00 |
| 122 | LUDHIANA | LUDHIANA WEST | S-NPP | 75.62002 | 30.81314 | 13:00:00 | D | 6.40 |
| 123 | LUDHIANA | LUDHIANA WEST | S-NPP | 75.83448 | 30.81944 | 13:00:00 | D | 2.60 |
| 124 | LUDHIANA | LUDHIANA WEST | AQUA | 75.85600 | 30.82600 | 14:10:00 | D | 36.20 |
| 125 | LUDHIANA | LUDHIANA WEST | S-NPP | 75.62134 | 30.82745 | 13:00:00 | D | 20.30 |
| 126 | LUDHIANA | LUDHIANA WEST | AQUA | 75.88000 | 30.82800 | 14:10:00 | D | 17.20 |
| 127 | LUDHIANA | LUDHIANA WEST | S-NPP | 75.65340 | 30.91669 | 13:00:00 | D | 13.90 |
| 128 | LUDHIANA | LUDHIANA WEST | S-NPP | 75.65433 | 30.91842 | 13:00:00 | D | 6.70 |
| 129 | LUDHIANA | LUDHIANA WEST | TERRA | 75.72200 | 30.94600 | 10:55:00 | D | 8.30 |

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| 130 | LUDHIANA | RAIKOT | S-NPP | 75.54923 | 30.64396 | 13:00:00 | D | 4.50 |
| 131 | MOGA | BAGHA PURANA | S-NPP | 75.02214 | 30.51494 | 13:00:00 | D | 14.00 |
| 132 | MOGA | BAGHA PURANA | S-NPP | 75.02503 | 30.52532 | 13:00:00 | D | 22.20 |
| 133 | MOGA | BAGHA PURANA | S-NPP | 75.03059 | 30.52654 | 13:00:00 | D | 17.60 |
| 134 | MOGA | BAGHA PURANA | S-NPP | 75.07624 | 30.53170 | 13:00:00 | D | 11.80 |
| 135 | MOGA | BAGHA PURANA | S-NPP | 75.02792 | 30.53570 | 13:00:00 | D | 2.70 |
| 136 | MOGA | BAGHA PURANA | S-NPP | 75.07491 | 30.53626 | 13:00:00 | D | 6.90 |
| 137 | MOGA | BAGHA PURANA | AQUA | 75.07500 | 30.53700 | 14:10:00 | D | 23.70 |
| 138 | MOGA | BAGHA PURANA | AQUA | 75.09600 | 30.53900 | 14:10:00 | D | 24.40 |
| 139 | MOGA | BAGHA PURANA | AQUA | 75.09000 | 30.54000 | 14:10:00 | D | 42.60 |
| 140 | MOGA | BAGHA PURANA | S-NPP | 75.04300 | 30.55669 | 13:00:00 | D | 7.30 |
| 141 | MOGA | BAGHA PURANA | S-NPP | 75.04477 | 30.55884 | 13:00:00 | D | 15.70 |
| 142 | MOGA | BAGHA PURANA | S-NPP | 75.04167 | 30.56126 | 13:00:00 | D | 9.50 |
| 143 | MOGA | BAGHA PURANA | S-NPP | 75.12132 | 30.56942 | 13:00:00 | D | 7.00 |
| 144 | MOGA | BAGHA PURANA | S-NPP | 75.12331 | 30.57106 | 13:00:00 | D | 5.80 |
| 145 | MOGA | BAGHA PURANA | AQUA | 75.12800 | 30.58100 | 14:10:00 | D | 19.20 |
| 146 | MOGA | BAGHA PURANA | AQUA | 75.14900 | 30.58300 | 14:10:00 | D | 36.90 |
| 147 | MOGA | BAGHA PURANA | AQUA | 74.97900 | 30.59200 | 14:10:00 | D | 27.50 |
| 148 | MOGA | BAGHA PURANA | S-NPP | 75.09697 | 30.59306 | 13:00:00 | D | 9.10 |
| 149 | MOGA | BAGHA PURANA | S-NPP | 75.17733 | 30.59645 | 13:00:00 | D | 3.90 |
| 150 | MOGA | BAGHA PURANA | S-NPP | 75.16795 | 30.60884 | 13:00:00 | D | 3.90 |
| 151 | MOGA | BAGHA PURANA | AQUA | 75.05900 | 30.62500 | 14:10:00 | D | 18.10 |
| 152 | MOGA | BAGHA PURANA | AQUA | 75.05100 | 30.62800 | 14:10:00 | D | 30.40 |
| 153 | MOGA | BAGHA PURANA | S-NPP | 74.99124 | 30.63287 | 13:00:00 | D | 17.30 |
| 154 | MOGA | BAGHA PURANA | S-NPP | 75.16286 | 30.64631 | 13:00:00 | D | 6.00 |
| 155 | MOGA | BAGHA PURANA | AQUA | 75.11900 | 30.65600 | 14:10:00 | D | 21.20 |
| 156 | MOGA | BAGHA PURANA | AQUA | 75.11100 | 30.65900 | 14:10:00 | D | 15.90 |
| 157 | MOGA | BAGHA PURANA | S-NPP | 75.16993 | 30.68157 | 13:00:00 | D | 3.30 |
| 158 | MOGA | BAGHA PURANA | S-NPP | 75.00563 | 30.73575 | 13:00:00 | D | 3.90 |
| 159 | MOGA | BAGHA PURANA | S-NPP | 75.06770 | 30.76389 | 13:00:00 | D | 3.00 |
| 160 | MOGA | MOGA | S-NPP | 75.34013 | 30.70414 | 13:00:00 | D | 10.40 |
| 161 | MOGA | MOGA | S-NPP | 75.32825 | 30.73481 | 13:00:00 | D | 3.10 |
| 162 | MOGA | MOGA | S-NPP | 75.36279 | 30.74232 | 13:00:00 | D | 5.60 |

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| 163 | MOGA | MOGA | S-NPP | 75.29784 | 30.74239 | 13:00:00 | D | 4.90 |
| 164 | MOGA | MOGA | S-NPP | 75.36519 | 30.74299 | 13:00:00 | D | 8.10 |
| 165 | MOGA | MOGA | TERRA | 75.29400 | 30.75200 | 10:55:00 | D | 27.80 |
| 166 | MOGA | MOGA | S-NPP | 75.10712 | 30.84414 | 13:00:00 | D | 8.80 |
| 167 | MOGA | NIHAL SINGH WALA | AQUA | 75.24500 | 30.54000 | 14:10:00 | D | 18.80 |
| 168 | MOGA | NIHAL SINGH WALA | S-NPP | 75.25476 | 30.55633 | 13:00:00 | D | 6.70 |
| 169 | MOGA | NIHAL SINGH WALA | S-NPP | 75.20998 | 30.62298 | 13:00:00 | D | 9.00 |
| 170 | MOGA | NIHAL SINGH WALA | S-NPP | 75.21407 | 30.62869 | 13:00:00 | D | 14.10 |
| 171 | MOGA | NIHAL SINGH WALA | S-NPP | 75.23694 | 30.62894 | 13:00:00 | D | 8.10 |
| 172 | MOGA | NIHAL SINGH WALA | AQUA | 75.25100 | 30.63000 | 14:10:00 | D | 16.60 |
| 173 | MOGA | NIHAL SINGH WALA | S-NPP | 75.21963 | 30.64915 | 13:00:00 | D | 12.10 |
| 174 | MOGA | NIHAL SINGH WALA | AQUA | 75.33600 | 30.65100 | 14:10:00 | D | 14.90 |
| 175 | MOGA | NIHAL SINGH WALA | S-NPP | 75.31590 | 30.65115 | 13:00:00 | D | 15.40 |
| 176 | MOGA | NIHAL SINGH WALA | S-NPP | 75.29862 | 30.65213 | 13:00:00 | D | 26.40 |
| 177 | MOGA | NIHAL SINGH WALA | S-NPP | 75.22910 | 30.65603 | 13:00:00 | D | 4.10 |
| 178 | MOGA | NIHAL SINGH WALA | S-NPP | 75.34247 | 30.65699 | 13:00:00 | D | 8.50 |
| 179 | MOGA | NIHAL SINGH WALA | S-NPP | 75.36893 | 30.66281 | 13:00:00 | D | 2.90 |
| 180 | MOGA | NIHAL SINGH WALA | S-NPP | 75.36635 | 30.67176 | 13:00:00 | D | 6.40 |
| 181 | MOGA | NIHAL SINGH WALA | S-NPP | 75.37163 | 30.67292 | 13:00:00 | D | 6.80 |
| 182 | MOGA | NIHAL SINGH WALA | S-NPP | 75.23463 | 30.67643 | 13:00:00 | D | 25.70 |
| 183 | MOGA | NIHAL SINGH WALA | S-NPP | 75.19833 | 30.68293 | 13:00:00 | D | 5.90 |
| 184 | MOGA | NIHAL SINGH WALA | S-NPP | 75.34142 | 30.69966 | 13:00:00 | D | 9.00 |
| 185 | MUKTSAR | MUKTSAR | S-NPP | 74.50070 | 30.56330 | 13:00:00 | D | 6.90 |
| 186 | MUKTSAR | MUKTSAR | S-NPP | 74.50259 | 30.56480 | 13:00:00 | D | 8.30 |
| 187 | MUKTSAR | MUKTSAR | S-NPP | 74.50242 | 30.57878 | 13:00:00 | D | 5.10 |
| 188 | TARN TARAN | KHADOOR SAHIB | S-NPP | 74.98238 | 31.32308 | 13:00:00 | D | 4.40 |
| 189 | TARN TARAN | KHADOOR SAHIB | S-NPP | 74.98483 | 31.32471 | 13:00:00 | D | 6.20 |

Details of residue burning events in Haryana on 07-Nov-2019

| S. No. | District | Tehsil / Block | Satellite | Longitude | Latitude | Time (IST) | Day / Night | Fire Power (W/m²) |
|---------------|-----------------|-----------------------|------------------|------------------|-----------------|-------------------|--------------------|-------------------------------------|
| 1 | KARNAL | GHARAUNDA | S-NPP | 76.99220 | 29.51025 | 01:42:00 | N | 1.60 |
| 2 | KARNAL | GHARAUNDA | S-NPP | 76.98811 | 29.51069 | 01:42:00 | N | 1.60 |

Details of residue burning events in Uttar Pradesh on 07-Nov-2019

| S. No. | District | Tehsil / Block | Satellite | Longitude | Latitude | Time (IST) | Day / Night | Fire Power (W/m ²) |
|--------|--------------|----------------|-----------|-----------|----------|------------|-------------|--------------------------------|
| 1 | ALLAHABAD | PHULPUR | S-NPP | 81.99397 | 25.43191 | 12:54:00 | D | 2.50 |
| 2 | BADAUN | DATAGANJ | S-NPP | 79.27003 | 27.72649 | 13:00:00 | D | 2.90 |
| 3 | BAHRAICH | NANPARA | S-NPP | 81.63445 | 27.95856 | 13:00:00 | D | 2.30 |
| 4 | GONDA | MANKAPUR | S-NPP | 82.51699 | 26.99916 | 12:54:00 | D | 1.90 |
| 5 | GORAKHPUR | CAMPIERGANJ | S-NPP | 83.27664 | 26.96442 | 12:54:00 | D | 3.20 |
| 6 | GORAKHPUR | CAMPIERGANJ | S-NPP | 83.30346 | 26.97212 | 12:54:00 | D | 1.50 |
| 7 | HARDOI | SIWAIJPUR | S-NPP | 79.74017 | 27.65159 | 13:00:00 | D | 3.10 |
| 8 | JALAUN | KONCH | S-NPP | 79.05192 | 26.01310 | 12:54:00 | D | 4.40 |
| 9 | JALAUN | MADHOGARH | S-NPP | 79.05138 | 26.15188 | 12:54:00 | D | 5.90 |
| 10 | JALAUN | MADHOGARH | S-NPP | 79.05523 | 26.15263 | 12:54:00 | D | 8.90 |
| 11 | JALAUN | URAI | S-NPP | 79.46751 | 25.94975 | 12:54:00 | D | 4.20 |
| 12 | JHANSI | JHANSI | S-NPP | 78.70333 | 25.54208 | 12:54:00 | D | 6.40 |
| 13 | JHANSI | TAHRAULI | S-NPP | 78.73434 | 25.57392 | 12:54:00 | D | 4.20 |
| 14 | KHERI | DHAURAHRA | S-NPP | 80.91121 | 28.12664 | 13:00:00 | D | 3.30 |
| 15 | KHERI | NIGHASAN | S-NPP | 80.98002 | 28.26264 | 13:00:00 | D | 1.80 |
| 16 | KUSHINAGAR | HATA | S-NPP | 83.63155 | 26.79683 | 12:54:00 | D | 2.60 |
| 17 | KUSHINAGAR | PADRAUNA | S-NPP | 83.91581 | 27.12528 | 12:54:00 | D | 1.90 |
| 18 | MAHARAJGANJ | MAHARAJGANJ | S-NPP | 83.45870 | 26.98303 | 12:54:00 | D | 2.00 |
| 19 | MAHARAJGANJ | MAHARAJGANJ | S-NPP | 83.50969 | 27.23873 | 12:54:00 | D | 4.70 |
| 20 | MAHARAJGANJ | MAHARAJGANJ | S-NPP | 83.59425 | 27.25782 | 12:54:00 | D | 1.20 |
| 21 | MAHARAJGANJ | MAHARAJGANJ | S-NPP | 83.56960 | 27.26076 | 12:54:00 | D | 5.80 |
| 22 | MAHARAJGANJ | NAUTANWA | S-NPP | 83.51146 | 27.41490 | 12:54:00 | D | 2.40 |
| 23 | MAHARAJGANJ | NAUTANWA | S-NPP | 83.58422 | 27.43314 | 12:54:00 | D | 1.30 |
| 24 | MAHARAJGANJ | NICHLAUL | S-NPP | 83.69173 | 27.10741 | 12:54:00 | D | 2.80 |
| 25 | MAHARAJGANJ | NICHLAUL | S-NPP | 83.66283 | 27.21494 | 12:54:00 | D | 3.90 |
| 26 | MAHARAJGANJ | NICHLAUL | S-NPP | 83.66234 | 27.29922 | 12:54:00 | D | 1.60 |
| 27 | MAHARAJGANJ | NICHLAUL | S-NPP | 83.73360 | 27.32399 | 12:54:00 | D | 2.90 |
| 28 | MAHARAJGANJ | NICHLAUL | S-NPP | 83.68702 | 27.35762 | 12:54:00 | D | 8.20 |
| 29 | MAU | MUHAMMADABAD | S-NPP | 83.43530 | 25.92204 | 12:54:00 | D | 1.90 |
| 30 | SHAHJAHANPUR | SHAHJAHANPUR | S-NPP | 79.85407 | 27.70740 | 13:00:00 | D | 2.40 |

| | | | | | | | | |
|----|-----------------|-------|-------|----------|----------|----------|---|------|
| 31 | SIDDHARTHANAGAR | ITWA | S-NPP | 82.53384 | 27.31379 | 12:54:00 | D | 2.40 |
| 32 | SIDDHARTHANAGAR | ITWA | S-NPP | 82.49714 | 27.34955 | 12:54:00 | D | 2.00 |
| 33 | UNNAO | UNNAO | S-NPP | 80.58951 | 26.35950 | 12:54:00 | D | 4.60 |

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

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

Study Team

| | | | |
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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)
