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Report on **Nightlights Data** of

Prepared by India Data Portal Powered by ISB



Gross Domestic Product (GDP), historically has been a standard measure of economic activity. It records the value of all final goods and services produced within the country during a given period, net of the value of inputs. GDP data requires estimations and extrapolations because not all economic activities can be completely captured.

In recent time, night-time radiance, traced from outer space through satellites, has increasingly emerged as a pertinent measure for changes in economic activities irrespective of their sources (formal or informal sectors). It is also a more significant representation of economic activities in manufacturing and services, than agriculture. Farmers have lower access to electricity, and primarily use it for pumping water that doesn't generate nightlights. Ideally, an increase in luminosity eyes the essence of a country's developmental and its macro-economic indicators, for example - access to electricity, reliable power supply, increased electricity consumption, increased income level, industrial production, money and credit growth.

Nightlights has become a reasonable indicator for GDP at the national and sub-national levels, with a very high level of spatial granularity. It does not suffer from questions around data quality or manipulation, and its errors are considered to be free of political bias.

After the assembly elections in Uttar Pradesh, we present nightlights data to enable a constituency-level comparison for the economic activities over six years, covering 2015 to 2020.

Nightlights as the Indicator of Growth in Economic Activity in Uttar Pradesh

This report presents data and visualisations for the state of Uttar Pradesh, and provides pertinent insights from illustrations on the level and change in economic activity for all of its 403 assembly constituencies.

The four nightlight variables highlighted here include change in total radiance, percent change in total radiance, change in total number of lit pixels and percentage change in lit pixels.

An increasing number of lit pixels suggests that economic activity is expanding to new areas, as previously dark pixels begin to show radiance in satellite images. On the other hand, total radiance denotes increasing economic activity without saying anything about its distribution over space. Looking at both total radiance and per cent of lit pixels provides a better picture of economic activity over time.





1.Growth pattern of Total Radiance across constituencies from 2015 to 2019



The visual above describes a five-year growth pattern in absolute change in total radiance, from 2015 to 2019. 389 constituencies out of 403 have shown positive change in total radiance, indicating a surge in economic activities. 17% of the constituencies in the state have shown a large increase, 52% a moderate increase and 27% have registered a small increase. Meanwhile 0.5% of the constituencies have depicted no change and 3% a small decrease.

The visual here depicts the change in total radiance for the top 10 and bottom 10 constituencies in Uttar Pradesh from 2015 to 2019. Noida has seen highest decrease in change in total radiance (-3594 pixels), followed Dibiyapur (-781 by pixels), Firozabad (-630 pixels), Lucknow Central (-617 pixels) and Meerut (-462 pixels).

Highest increase in total radiance is noted in the constituencies of Phulpur (6645 pixels), Sarojini Nagar (5936 pixels), Marihan(4276 pixels), Ghatampur (4101 pixels), and Jewar(3892 pixels).

In Uttar Pradesh 97% of the constituencies report a rise in total radiance from 2015 to 2019, representing a massive boost in economic activities.







2. Growth pattern of percent change in Total Radiance across constituencies from 2015 to 2019



The visual above describes a five-year growth pattern for percent change in total radiance, from 2015 to 2019. 389 constituencies out of 403 have shown positive change, representing a surge in economic activities. 23% of the constituencies in the state have shown a large increase, 74% of the constituencies belong to moderate to small increase category, 2% a small decrease, 1% have depicted no change.

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The visual here shows percent change in total radiance for the top 10 and bottom 10 constituencies in Uttar Pradesh from 2015 to 2019. Firozabad (-28%) has seen highest decrease in percent change in total radiance followed by Meerut (-15%), Muzaffar Nagar (-10%), Agra South (-9%), and Noida (-9%). Highest increase is observed in the constituencies of Gainsari (962%), Khadda(908%), Misrikh (SC) (875%), Gopamau (SC) (724%) and Ayah Shah (672%).

The state of Uttar Pradesh has seen a 69.01% rise in percent change in total radiance from 2015 to 2019.







3. Growth pattern of change in total number of Lit Pixels across constituencies from 2015 to 2019 indicates the distribution of nightlights in the assembly constituency area



The present visual describes the growth pattern through change in lit pixels from 2015 to 2019, showing economic activity expanding to newer areas. 17% of the constituencies in Uttar Pradesh have exhibited large increase in change in Lit Pixels, while 72.5 % displayed moderate and small increase and only 0.5% depicted small decrease. 10% of the constituencies showed no change.

The visual on right lists the top 20 constituencies where the change in lit pixels are maximum from 2015 to 2019. Constituencies of Marihan(3047 pixels), Powayan (SC) (3045 pixels), Sawaijpur(2965 pixels), Misrikh (SC)(2827 pixels), Maholi(2622 pixels), Chhanbey (SC) (2574 pixels), Katra(2554 pixels), Ghatampur (SC) (2478 pixels), Bachhrawan (SC)(2460pixels), Mohammdi (2459 pixels), Nighasan (2358 pixels), Kaimganj (SC)(2320 pixels) and Tilhar (2279 pixels) have recorded highest change in lit pixels.







4. Growth Pattern of change in Percent Lit Pixels across constituencies from 2015 to 2019 records the percent of Lit Pixels with respect to Total Pixels



The visual above shows the change in percent lit pixels from 2015 to 2019. 10% of the constituencies have shown no change in percent lit pixels, 1% show a small decrease in percent lit pixels. 25% of the constituencies show large increase in percent change in lit pixels while 64% of the constituencies show moderate and small increase. This indicates a perceptible improve in economic growth in the state.

The visual on right records the top 20 constituencies where the change in percent Lit Pixels are maximum from 2015 to 2019.

Constituencies of Misrikh (SC) (73%), Gopamau (SC) (67%), Pratappur (65%), Etah and Husainganj (63%), Aliganj and Machhlishahr (SC) (62%), Tilhar (61%), Padrauna and Laharpur (60%), Salon (SC), Kasta (SC), and Ayah Shah (59%), Khadda, Bachhrawan (SC) and Nawabganj (58%), Kaimganj (SC) and Sawaijpur (57%) have logged highest change in percent lit pixels.

The state of Uttar Pradesh has seen a 42.08% increase in percent change in lit pixels from 2015 to 2019.







1.1 Eastern UP - Growth pattern of Total Radiance across constituencies from 2015 to 2019



The visual here depicts the change in total radiance for the top 10 and bottom 10 constituencies in Uttar Pradesh from 2015 to 2019. Allahabad West has seen lowest increase in change in total radiance (-148 pixels), followed by Varanasi South (219 pixels), Babaganj (SC) (302 pixels), Kunda (354 pixels), Obra (509 pixels), Itwa (548 pixels), Varanasi Cantt. (645 pixels), Gaura (666 pixels). Constituencies of Phulpur (6646 pixels), Marihan (4277 pixels), Majhawan (3551 pixels), Malhani (3347 pixels), Katehari(3165 pixels), Isauli (3106 pixels), Chhanbey (SC)(3051 pixels), Gorakhpur Urban(3034 pixels), Pratappur(2914 pixels) and Rasara(2902 pixels) have recorded highest increase in change in total radiance.

The visual above describes a five-year growth pattern in absolute change in total radiance in the eastern constituencies of Uttar Pradesh from 2015 to 2019. All 156 constituencies in this region have shown a positive change in total radiance, indicating a rise in economic activities. 23 constituencies in eastern UP have shown a large increase, 95 constituencies showed a moderate increase, and 38 have registered a small increase in change of total radiance.







2.1 Eastern UP - Growth pattern of percent change in Total Radiance across constituencies from 2015 to 2019



The visual here depicts the percent change in total radiance for the top 10 and bottom 10 constituencies from 2015 to 2019. Allahabad West has seen no change (4%), whereas constituencies of Obra (7%), Kunda, Babaganj (12%), Varanasi Cantt. (17%), South (20%), North (28%), Allahabad South (35%), Duddhi (SC)(39%), Gorakhpur Rural(42%) and Gaura (43%) have seen lowest increase in percent change in total radiance.

However, constituencies of Gainsari (962%), Khadda (908%), Machhlishahr (SC) (561%), Handia(398%), Mahasi (376%), Pratappur (361%), Bansi(334%), Sadar(327%), Ramkola (SC) (309%), Nautanwa(305%) have recorded highest increase in percent change in total radiance.

The visual above describes a five-year growth pattern for percent change in total radiance, from 2015 to 2019. All 156 constituencies of eastern UP except Allahabad West have shown a positive change in percent change in total radiance, indicating a rise in economic activities. 27% of the constituencies in the state have seen a large increase, 33% of the constituencies belong to small increase category and 40% of the constituencies showed moderate increase in total radiance.

The eastern region of Uttar Pradesh has seen a 109 % rise in percent change in total radiance from 2015 to 2019.







3.1. Eastern UP - Growth pattern of change in total number of Lit Pixels across constituencies from 2015 to 2019 indicates the distribution of night lights in the assembly constituency area



The present visual describes the growth pattern through change in lit pixels from 2015 to 2019. It represents that the economic activity is expanding to newer areas in Eastern UP.

4% of the constituencies in this region exhibit no change, 6.4% of the constituencies illustrate large increase, 33% depict moderate increase and 56.6% show small increase in lit pixels.

The visual on right lists the top 20 constituencies where the lit pixels have recorded maximum change from 2015 to 2019. Constituencies of Marihan (3047 pixels), Chhanbey (SC) (2574 pixels), Ghorawal (2069 pixels), Mahasi (1770 pixels), Pratappur (1763 pixels), Machhlishahr (SC) (1761 pixels), Gainsari (1690 pixels), Khadda (1677 pixels), Nautanwa (1542 pixels), Sadar (1522 pixels), Mankapur (SC) (1479 pixels), Mungra Badshahpur (1478 pixels), Duddhi (SC) (1477 pixels), Balha (SC) (1443 pixels), Tarabganj (1421 pixels), Payagpur (1403 pixels), Robertsganj (1393 pixels), Isauli (1391 pixels), Katehari (1372 pixels), Chakia (SC) (1177 pixels) have recorded highest change in lit pixels.







4.1. Eastern UP - Growth pattern of change in percent Lit Pixels across constituencies from 2015 to 2019 indicates the percent of lit pixels with respect to total pixels



The visual on right records the top 20 constituencies where the change in percent lit pixels is highest from 2015 to 2019.

Constituencies of Pratappur (65%), Machhlishahr (SC) (61%), Padrauna (60%), Khadda (58%), Handia (55%), Mungra Badshahpur (50%), Pathardeva (48%), Ramkola (SC) (47%), Sadar (46%), Shahganj (46%), Mariyahu (45%), Mau (45%), Soraon (SC) (45%), Malhani (45%), Tarabganj (43 %), Raniganj (43%), Mankapur (SC) (43%) Zafrabad (42 %), Badlapur (42%), Katehari (41%) have logged highest change in percent lit pixels.

The visual above shows the change in percent lit pixels in eastern UP from 2015 to 2019. 4% of the constituencies have shown no change in percent Lit Pixels and 52 % show a small increase in percent lit pixels. 19 % of the constituencies show large increase in percent change in lit pixels while 25% of the constituencies show a moderate increase. This implies a visible improvement in economic growth in this region of the state.

The eastern region of Uttar Pradesh has seen a 40% growth in percent change in lit pixels from 2015 to 2019.







1.2 Central UP - Growth pattern of Total Radiance across constituencies from 2015 to 2019



The visual here depicts the change in total radiance for the top 10 and bottom 10 constituencies from 2015 to 2019.

Bottom 10 constituencies where negative change in total radiance is recorded are Kanpur Cantt. (553 pixels), Rampur (184 pixels), Arya Nagar (155 pixels), Sishamau (120 pixels), Chhibramau (-41 pixels), Kannauj (SC) (-454 pixels), Etawah (-461 pixels), Lucknow Central (-617 pixels), Firozabad (-630 pixels) and Dibiyapur (-781 pixels)

Constituencies of Sarojini Nagar (5936 pixels), Ghatampur (SC) (4101 pixels), Mohammdi (3248 pixels), Rae Bareli (3073 pixels), Maholi (2973 pixels), Misrikh (SC) (2918 pixels), Bithoor (2914 pixels), Bhojipura (2898 pixels), Powayan (SC) (2884 pixels), Katra (2815 pixels) have recorded highest increase in change in total radiance.

The visual above describes a five-year growth pattern in absolute change in total radiance in the constituencies of central Uttar Pradesh from 2015 to 2019. 16% of the constituencies in central UP have shown a large increase, 28% have shown small increase and 53% have shown moderate increase. However, 3% of the constituencies have shown small decrease, and only 1 out of 138 constituencies has shown no change. Increase in total radiance in the constituencies reflects growth in economic activities.







2.2 Central UP: Growth pattern of percent change in Total Radiance across constituencies from 2015 to 2019

Percent Change in Total Radiance Small Decrease No Change Small Increase Moderate Increase Large Increase

The visual here depicts the percent change in total radiance for the top 10 and bottom 10 constituencies from 2015 to 2019.

Constituencies of Rampur (11 %), Karhal (10 %), Arya Nagar (9 %), Jaswantnagar (8%), Chhibramau (-1%), Etawah (-6%), Lucknow Central (-6 %), Dibiyapur (-6 %), Kannauj (SC) (-7 %), Firozabad (-27 %), have seen lowest increase in percent change in total radiance. Meanwhile, constituencies of Misrikh (SC) (875 %), Gopamau (SC) (724 %), Ayah Shah (672 %), Sawaijpur (660 %), Kaimganj (SC) (555 %), Ghatampur (SC) (532 %), Laharpur (528 %), Husainganj (519 %), Nighasan (516 %), Sevata (473 %), Amritpur (473 %), have recorded highest increase in percent change in total radiance.

The visual above describes a five-year growth pattern for percent change in total radiance, from 2015 to 2019. 30% of the constituencies in central UP. have shown a large increase, 44% have shown small increase and 23% have shown moderate increase. Meanwhile 3% of the constituencies have shown small decrease, and only 1 out of 138 constituencies has shown no change. Increase in percent change total radiance in the constituencies reflect incremental rise in economic activities.

The central region of Uttar Pradesh has recorded a 710% rise in percent change in total radiance from 2015 to 2019.







3.2. Central UP - Growth pattern of change in total number of Lit Pixels across constituencies from 2015 to 2019 indicates the distribution of nightlights in the assembly constituency area



The visual on right lists the top 20 constituencies where the lit pixels have recorded maximum change from 2015 to 2019. Constituencies of Powayan (SC) (3045 pixels), Sawaijpur (2965 pixels), Misrikh (SC) (2827 pixels), Maholi (2622 pixels), Katra (2554 pixels), Ghatampur (SC) (2478 pixels), Bachhrawan (SC) (2460 pixels), Mohammdi (2459 pixels), Nighasan (2358 pixels), Kaimganj (SC) (2320 pixels), Tilhar (2279 pixels), Shahabad (2218 pixels), Ayah Shah (2203 pixels), Gopamau (SC) (2179 pixels), Kasta (SC) (2152 pixels), Dataganj (2127 pixels), Balamau (SC) (2109 pixels), Aliganj (2108 pixels), Husainganj (2041 pixels), Sidhauli (SC) (1984 pixels), have recorded highest change in lit pixels.

The present visual describes the growth pattern through change in lit pixels from 2015 to 2019. It represents that the economic activity is expanding to newer areas in central UP. 2 constituencies show small decrease, 9% of the constituencies in this region exhibit no change, 35% of the constituencies illustrate large increase, 26% depict moderate increase and 29% show small increase in lit pixels.







4.2. Central UP - Growth pattern of change in Percent Lit Pixels across constituencies from 2015 to 2019 indicates the percent of lit pixels with respect to total pixels

Change in Percent Lit Pixels Small Decrease No Change Small Increase Moderate Increase Large Increase

The visual on right records the top 20 constituencies where the change in percent lit pixels is highest from 2015 to 2019.

Constituencies of Misrikh (SC) (73 %), Gopamau (SC) (66 %), Etah (63 %), Husainganj (62 %), Aliganj (62 %), Tilhar (61 %), Laharpur (60 %), Salon (SC) (59 %), Kasta (SC) (59 %), Ayah Shah (58 %), Bachhrawan (SC) (57 %), Nawabganj (57 %), Kaimganj (SC) (57 %), Sawaijpur (56 %), Sidhauli (SC) (56 %), Marhara (55 %), Maholi (55 %), Bhojpur (55 %), Shahabad (55 %) and Mohammdi (55 %) have noted highest change in percent lit pixels.

The visual above shows the change in percent lit pixels in central UP from 2015 to 2019.7% of the constituencies have shown no change in percent lit pixels, 3% have recorded small decrease.

26% show a small increase in percent lit pixels. 43% of the constituencies show large increase in percent change in lit pixels while 21% of the constituencies show a moderate increase. This implies a visible improvement in economic growth in this region of the state.

2015 to 2019.

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The central region of Uttar Pradesh has seen a 65% growth in percent change in lit pixels from



1.3 Western UP - Growth pattern of Total Radiance across constituencies from 2015 to 2019

Change in Total Radiance Small Decrease No Change Small Increase Moderate Increase Large Increase

The visual here depicts the change in total radiance for the top 10 and bottom 10 constituencies from 2015 to 2019.

The bottom 10 constituencies are Thakurdwara (289 pixels), Moradabad Rural (208 pixels), Agra North (-96 pixels), Sahibabad (-168 pixels), Agra South (-256 pixels), Ghaziabad (-272 pixels), Muzaffar Nagar (-392 pixels), Agra Cantt. (SC) (-401 pixels), Meerut (-462 pixels), Noida (-3594 pixels) where low and negative changes in total radiance are recorded. They represent a decrease in economic activities.

Constituencies of Jewar (3829 pixels), Dholana (3663 pixels), Khair (SC) (3661 pixels), Sikandra Rao (3305 pixels), Chharra (3284 pixels), Barauli (3116 pixels), Hasanpur (3049 pixels), Mant (2934 pixels), Gunnaur (2780 pixels), Iglas (SC) (2750 pixels) have recorded highest increase in change in total radiance.

The visual above describes a five-year growth pattern in absolute change in total radiance in the constituencies of western Uttar Pradesh from 2015 to 2019. 18% of the constituencies in western UP. have shown a large increase, 37% have shown small increase and 38% have shown moderate increase. Meanwhile 7% of the constituencies have shown small decrease, and only 1 out of 90 constituencies have shown no change. Increase in total radiance in the constituencies reflect flow in economic activities.







2.3Western UP: Growth pattern of percent change in Total Radiance across constituencies from 2015 to 2019



The visual here depicts the percent change in total radiance for the top 10 and bottom 10 constituencies from 2015 to 2019.

Constituencies of Moradabad Rural (8%), Meerut Cantt. (8%), Agra North (-1%), Sahibabad (-3%), Ghaziabad (-4%), Agra Cantt. (SC) (-6%), Noida (-8%), Agra South (-9%), Muzaffar Nagar (-9%), Meerut (-14%) have seen lowest increase in percent change in total radiance.

Meanwhile, constituencies of Atrauli (253%), Chharra (185%), Sikandra Rao (174%), Bilari (171%), Asmoli (147%), Hasanpur (140%), Debai (137%), Gunnaur (135%), Khair (SC) (132%), Koil (118%), have recorded highest increase in percent change in total radiance.

The visual above describes a five-year growth pattern for percent change in total radiance, from 2015 to 2019. 1 constituency in western U.P. has shown a large increase, 80% have shown small increase and 13% have shown moderate increase. However, 3% of the constituencies have shown small decrease, and 3% out of 90 constituencies have shown no change. Increase in percent change in total radiance in the constituencies reflect small increase in economic activities.

The western region of Uttar Pradesh has seen a 37% rise in percent change in total radiance from 2015 to 2019.







3.3. Western UP - Growth pattern of change in total number of Lit Pixels across constituencies from 2015 to 2019 indicates the distribution of night lights in the assembly constituency area



The visual on right lists the top 20 constituencies where the lit pixels have recorded maximum change from 2015 to 2019. Constituencies of Sikandra Rao (1618 pixels), Gunnaur (1512 pixels), Asmoli (1278 pixels), Chharra (1189 pixels), Bilari (1122 pixels), Atrauli (1116 pixels), Bilari (1122 pixels), Atrauli (1116 pixels), Hasanpur (1051 pixels), Mant (882 pixels), Kundarki (874 pixels), Khair (SC) (854 pixels), Iglas (SC) (760 pixels), Barhapur (726 pixels), Barauli (726 pixels), Debai (690 pixels), Nakur (612 pixels), Kheragarh (597 pixels), Gangoh (557 pixels), Chhata (553 pixels), Bah (550 pixels), Shikarpur (521 pixels) have recorded highest change in lit pixels.

The present visual describes the growth pattern through change in lit pixels from 2015 to 2019. It represents that the economic activity is expanding to newer areas in western UP. 17% of the constituencies in this region exhibit no change, 2 constituencies illustrate large increase, 12% depict moderate increase and 69% show small increase in lit pixels.







4.4. Western UP - Growth pattern of change in Percent Lit Pixels across constituencies from 2015 to 2019 indicates the percent of lit pixels with respect to total pixels

> The visual on right records the top 20 constituencies where the change in percent lit pixels is highest from 2015 to 2019.

Constituencies of Bilari (51%), Sikandra Rao (40%), Atrauli (36%), Asmoli (35%), Chharra (32%), Gunnaur (31%), Hasanpur (26%), Debai (26%), Kundarki (25%), Koil (23%), Chandausi (SC) (23%), Sambhal (20%), Iglas (SC) (19%), Barauli (19%), Khair (SC) (18%), Mant (18%), Hathras (SC) (18%), Shikarpur (16%), Nakur (16%) and Gangoh (16%), have noted highest change in percent lit pixels.

The visual above shows the change in percent lit pixels in western UP. from 2015 to 2019. 13% of the constituencies have shown no change in percent lit pixels and one has recorded small decrease.

Change in Percent Lit Pixels

Small Decrease

Small Increase

Large Increase

Moderate Increase

No Change

75% of them show a small increase in percent lit pixels, two constituencies show large increase in percent change in lit pixels while 10% of the constituencies show a moderate increase. Small increase in percent lit pixels reflects a marginal growth in economic activity in this region of the state.

The western region of Uttar Pradesh has seen a 16% growth in percent change in lit pixels from 2015 to 2019.







1.4 Bundelkhand - Growth pattern of Total Radiance across constituencies from 2015 to 2019



The visual above describes a five-year growth pattern in absolute change in total radiance in the constituencies of Bundelkhand from 2015 to 2019. 31% of the constituencies of Bundelkhand have shown a large increase, 21% have shown small increase and 48% have shown moderate increase. Increase in total radiance in the constituencies reflects growth in economic activities.

The visual above depicts the change in total radiance all 19 of Bundelkhand constituencies from 2015 to 2019.

Constituencies of Babina (3348 pixels), Mahoba (3155 pixels), Mauranipur (SC) (2871 pixels), Madhaugarh (2596 pixels), Hamirpur (2564 pixels), Orai (SC) (2419 pixels), Kalpi (2306 pixels), Tindwari (2268 pixels), Garautha (2264 pixels) and Mehroni (SC) (2225 pixels) have seen highest change in total radiance.

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Constituencies of Lalitpur (1995 pixels), Manikpur (1924 pixels), Charkhari (1841 pixels), Rath (SC) (1652 pixels), Naraini (SC) (1431 pixels), Baberu (1269 Chitrakoot pixels), (1268 pixels), Jhansi Nagar (1175 pixels) and Banda (761 pixels) have recorded lowest increase in change in total radiance.



2.4 Bundelkhand: Growth pattern of percent change in Total **Radiance across constituencies from 2015 to 2019**



The visual above describes a five-year growth pattern in percent change in total radiance in the constituencies of Bundelkhand from 2015 to 2019. 5% constituency out of 19 have shown a large increase, 69% a small increase and 26% have shown moderate increase. Increase in percent change in total radiance in the constituencies reflects growth in economic activities.

in all the 19 constituencies of

Constituencies of Baberu (238%), Manikpur (153%), Naraini (SC) (131%), Mauranipur (SC) (129%), Madhaugarh (122%), Mahoba (121%), Garautha (94%), Charkhari (87%), Tindwari (85%), Banda (81%), Kalpi (80%) have seen highest change in total radiance.



The Bundelkhand region of Uttar Pradesh has seen a 75% increase in percent change in total radiance from 2015 to 2019.

150

200

250





(SC)



3.4. Bundelkhand - Growth pattern of change in total number of Lit Pixels across constituencies from 2015 to 2019 indicates the distribution of night lights in the assembly constituency area



The present visual describes the growth pattern through change in lit pixels from 2015 to 2019. It represents that the economic activity is expanding to newer areas in Bundelkhand as only one of the constituencies in this region exhibits no change, 42% of the constituencies illustrate large increase, 47% depict moderate increase and 69% show small increase in lit pixels.

The visual above lists all 19 constituencies where the lit pixels have recorded change from 2015 to 2019. Constituencies of Mehroni (SC) (2138 pixels), Madhaugarh (2103 pixels), Baberu (1894 pixels), Mauranipur (SC) (1884 pixels), Manikpur (1870 pixels) show maximum change in lit pixels, followed by Kalpi (1791 pixels), Lalitpur (1680 pixels), Hamirpur (1547 pixels), Tindwari (1493 pixels), Naraini (SC) (1422 pixels), Garautha (1342 pixels), Charkhari (1264 pixels), Rath (SC) (1229 pixels), Chitrakoot (1176 pixels), Babina (1058 pixels), Orai (SC) (1003 pixels), Mahoba (927 pixels) and Banda (511 pixels). Constituency of Jhansi Nagar (o pixels) shows no change in lit pixels.







4.4. Bundelkhand - Growth pattern of change in Percent Lit Pixels across constituencies from 2015 to 2019 indicates the percent of lit pixels with respect to total pixels



The present visual describes the growth pattern through change in percent lit pixels from 2015 to 2019. It represents that the economic activity is expanding to newer areas in Bundelkhand as only one of the constituencies in this region exhibits no change, 16% depict moderate increase and 79% show small increase in percent lit pixels.

percent lit pixels have been recorded from 2015 to 2019. Constituencies of Baberu (28%), Madhaugarh (26%), Naraini (SC) (22%), Mauranipur (SC) (20%), Chitrakoot (20%) show maximum change in lit pixels, followed by Kalpi (19%), Tindwari (19%), Manikpur (18%), Banda (17%), Mahoba (16%), Babina (15%), Orai (SC) (15%), Lalitpur (15%), Hamirpur (14%), Mehroni (SC) (14%), Garautha (14%), Charkhari (13%), Rath (SC) (10%). Constituency of Jhansi Nagar (o pixels) shows no change in percent lit pixels.







5. Pandemic impact on Total Radiance across constituencies from 2019 to 2020



This visual describes the pandemic effect on change in total radiance, by comparing year 2019 with 2020. Out of 403 constituencies 17 (or 4%) showed large decrease, 105 (or 26%) showed moderate decrease, 239 (or 59%) showed small decrease in total radiance. 4% of the constituencies showed no change and 6% showed small increase in total radiance. These varied categories elaborate upon the impact on the economic activity and only 10% of the constituencies remain immune to the pandemic effect.

The visual describes change in total radiance in Uttar Pradesh from 2019 to 2020, for the top top 10 and bottom 10 constituencies.

There has been a negative change in total radiance across constituencies of Jewar (-1201 pixels), Katehari (-1219 pixels), Rudhauli (-1246 pixels), Obra (-1338 pixels), Duddhi (SC) (-1422 Karachhana pixels), (-1618 pixels), Sarojini Nagar (-2338 pixels), Allahabad North (-2629 pixels), Allahabad South (-2750 pixels) and Phulpur (-4174 representing stalled pixels), economic activities in the pandemic year.

Constituencies of Kalyanpur (691 pixels), Dibiyapur (457 pixels), Hapur (SC) (413 pixels), Sirathu (315 pixels), Kunda (228 pixels), Lalitpur (217 pixels), Jaunpur (203 pixels), Maharajpur (166 pixels), Tulsipur (147 pixels) and Mathura (145 pixels) record an increase in total radiance, defying the pandemic effect.





In Uttar Pradesh, around 90% of the constituencies report a decrease in total radiance between 2019 and 2020, owing to the pandemic as economic activities slowed down.



Pandemic impact on percent change in Total Radiance across constituencies from 2019 to 2020



This visual describes the pandemic effect on percent change in total radiance, by comparing year 2019 with 2020. Out of 403 constituencies 91 (or 22.5%) show large decrease, 92 (or 23%) moderate decrease and 182 (or 45%) small decrease in total radiance. 3% of the constituencies show no change and 6% show small increase in total radiance. These varied categories further the impact on the economic activity as only 9% of the constituencies remain unaffected to the pandemic effect.

The visual describes the percent change in total radiance in Uttar Pradesh from 2019 to 2020 for the 20 constituencies that bore the brunt of the pandemic the most.

There has been a negative change in total radiance across constituencies of Kaptanganj, Robertsganj and Shohratgarh (-22%), Khajani (SC) (-23%), Bisalpur (-23%), Sagri (-24%), Pilibhit (-24%), Goshainganj (-24%), Ram Nagar (-26%), Katehari (-26%), Pharenda (-26%), Bansi (-27%), Milkipur (SC) (-28%), Domariyaganj (-31%), Itwa (-32%), Dhanghata (SC) (-33%), Allahabad South (-39%), Phulpur (-42%), Rudhauli (-45%) and Allahabad North (-48%) representing stalled economic activities in the pandemic year.

Constituencies of Tulsipur (12%), Gainsari (10%), Sirathu (9%), Kalyanpur (8%) and Hapur (SC) (7%) record an increase percent and 2020, owing to the change in total radiance.





Uttar Pradesh has seen a 9% decrease in percent change in total radiance between 2019 pandemic as the economic activities remain affected.



7. Pandemic impact on Change in Lit Pixels across constituencies from 2019 to 2020 indicates distribution of nightlights in the assembly constituency area



The visual describes change in lit pixels across Uttar Pradesh from 2019 to 2020, constituency-wise. Out of 403 constituencies 115 (or 28%) record large decrease in lit pixels, 126 (or 31%) moderate decrease and 123 (or 31%) small decrease. While 35 (or 9%) constituencies show no change and only 4 (or 1%) constituencies show small increase in lit pixels owing to the pandemic.

The visual present represents bottom 20 constituencies recording change in lit pixels from 2019 to 2020. Constituencies of Shohratgarh (-585 pixels), Shahabad (-586 pixels), Mohammdi (-600 pixels), Ram Nagar (-602 pixels), Kasta (SC) (-611 pixels), Duddhi (SC) (-622 pixels), Biswan (-645 pixels), (-658 pixels), Maholi Bisalpur (-681 pixels), Barhapur (-689 pixels), Milkipur (SC) (-724 pixels), Sawaijpur (-725 pixels), Rudhauli (-734 pixels), Bhagwantnagar (-759 pixels), Balamau (SC) (-782 pixels), Kalpi (-810 pixels), (-834 pixels), Purwa Madhaugarh (-841 pixels), Sikandra (-866 pixels), Tirwa (-1019 pixels) are the worst hit and show the highest negative change in lit pixels.







8. Pandemic impact on percentage change in Lit Pixels across constituencies from 2019 to 2020 indicates the percentage of lit pixels with respect to total pixels



The visual shows large decrease in change in percent lit pixels in 29% (or 115) of the constituencies, moderate decrease in 12% (or 47) constituencies, and small decrease in 47% (or 191) constituencies from 2019 to 2020. While 12% (or 50) of the 403 constituencies recorded no change in percent lit pixels, portraying a major impact of pandemic on these constituencies from 2019 to 2020.

The visual on right records the bottom 20 constituencies where the change in percent lit pixels is maximum between 2019 and 2020.

Constituencies of Babaganj (-16%), (SC)(SC)(-16%), Balamau Shohratgarh (-16%), Kasta (SC) (-16%), Ram Nagar (-16%), Kaptanganj (-16%), Bansi (-17%), Pilibhit (-17%), Dhanghata (SC) (-17%), Domariyaganj (-17%), Rudauli (-17%), Zaidpur (SC) (-17%), Itwa (-18%), Bisalpur (-18%), Sikandra (-19%), (-19%), Mahmoodabad Biswan (-20%), Milkipur (SC) (-20%), Rudhauli (-21%), (-22%) Tirwa record maximum impact of the pandemic on economic activities.

Uttar Pradesh has seen an 8% decrease in change in percent lit pixels between 2019 and 2020.







5.1 Eastern UP - Pandemic impact on Total Radiance across constituencies from 2019 to 2020



The visual describes change in total radiance in eastern region of Uttar Pradesh from 2019 to 2020, for the top 10 and bottom 10 constituencies.

There has been a negative change in total constituencies radiance across of Ghorawal (-825pixels), Milkipur (SC) (-965pixels), Katehari (-1219pixels), Rudhauli (-1246pixels), Obra (-1338pixels), Duddhi (-1422pixels), Karachhana (SC) (-1618pixels), Allahabad North (-2629pixels), Allahabad South (-2750pixels) and Phulpur (-4174pixels), representing stalled economic activities in the pandemic year.

Constituencies of Kunda (228pixels), Jaunpur (203pixels), Tulsipur (147pixels), Gainsari (131pixels), Shahganj (81pixels), Khadda (78pixels), Bara (SC) (69pixels), Bansdih (65pixels) and Nautanwa (23pixels), record an increase in total radiance, defying the pandemic effect.

This visual describes the pandemic effect on change in total radiance in the constituencies of eastern UP by comparing year 2019 with 2020. Out of 156 constituencies 8 (or 5%) showed large decrease, 37 (or 24%) showed moderate decrease, 97 (or 62%) showed small decrease in total radiance. 4% (or 6) of the constituencies showed no change and 5% (or 8) showed small increase in total radiance. These varied categories elaborate upon the impact on the economic activity and only 9% of the constituencies remain immune to the pandemic effect.







6.1 Eastern UP - Pandemic impact on percent change in Total Radiance across constituencies from 2019 to





The visual describes the percent change in total radiance in eastern Uttar Pradesh from 2019 to 2020 for the bottom 20 constituencies that bore the brunt of the pandemic.

There has been a negative change in total radiance across constituencies of Mahadewa (SC) (-20%), Paniyra (-21%), Allahabad West (-22%), Kaptanganj (-22%), Robertsganj (-22%), Shohratgarh (-22%), Khajani (SC) (-23%), Sagri (-24%), Goshainganj (-24%), Katehari (-26%), Pharenda (-26%), Bansi (-27%), Milkipur (SC) (-28%), Domariyaganj (-31%), Itwa (-32%), Dhanghata (SC) (-33%), Allahabad South (-39%), Phulpur (-42%), Rudhauli (-45%), (-48%), Allahabad North stalled representing economic activities owing to the pandemic year.

This visual describes the pandemic effect on percent change in total radiance in eastern region of UP, by comparing year 2019 with 2020. Out of 156 constituencies 44 (or 28%) showed large decrease, 37 (or 24%) showed moderate decrease, 63 (or 40%) showed small decrease in total radiance. 4 constituencies showed no change and 8 showed small increase in total radiance. These varied categories further the impact on the economic activity as only 8% of the constituencies remain unaffected to the pandemic effect.





Eastern region of UP has seen a 12% decrease in percent change in total radiance between 2019 and 2020, owing to the pandemic as the economic activities remain affected.



7.1 Eastern UP - Pandemic impact on change in Lit Pixels across constituencies from 2019 to 2020 indicates distribution of nightlights in the assembly constituency area



The present visual represents bottom 20 constituencies in eastern UP recording change in lit pixels from 2019 to 2020.

of Constituencies Pharenda (-421pixels), Katra Bazar (-423pixels), Katehari (-430pixels), Robertsganj (-435pixels), Marihan (-441pixels), Bhinga (-445pixels), Dhanghata (SC) (-460pixels), ltwa (-463pixels), Kaptanganj (-466pixels), Goshainganj (-478pixels), Colonelganj (-488pixels), Babaganj (SC) (-489pixels), Balha (SC) (-512pixels), (-523pixels), (SC) Mahadewa Domariyaganj (-576pixels), Rudauli (-578pixels), Shohratgarh (-585pixels), Duddhi (SC) (-622pixels), Milkipur (-724pixels), (SC) Rudhauli (-734pixels) were the worst hit by the pandemic and showed the highest negative change in lit pixels.

The visual describes change in lit pixels in eastern UP from 2019 to 2020, constituency-wise. Out of 156 constituencies 35 (or 22%) showed large decrease in lit pixels, 39 (or 25%) showed moderate decrease, 71 (or 46%) showed small decrease in Lit Pixels. While 8 (or 5%) constituencies show no change and only 3 (or 2%) constituencies show small increase in lit pixels owing to the pandemic.







8.1 Eastern UP - Pandemic impact on percent change in Lit Pixels across constituencies from 2019 to 2020 indicates the percentage of lit pixels with respect to total pixels



The visual on right records the bottom 20 constituencies where the change in percent lit pixels are maximum between 2019 and 2020.

Constituencies of Utraula (-12%), Jalalpur (-12%), Sagri (-12%), Katehari (-13%), Katra Bazar (-13%), Rampur Khas (-14%), Colonelganj (-14%), Pharenda (-15%), Goshainganj (-15%), Mahadewa (SC) (-15%), Babaganj (SC) (-16%), Shohratgarh (-16%), Kaptanganj (-16%), Bansi (-17%), Dhanghata (SC)(-17%), Domariyaganj (-17%), Rudauli (-17%), Itwa (-18%), Milkipur (SC) (-20%), Rudhauli (-21%) in eastern region of UP have been severely affected by the pandemic.

The visual shows large decrease in change in percent lit pixels in 22% (or 34) of the constituencies, moderate decrease in 12% (or 19) constituencies, and small decrease in 56% (or 87) constituencies from 2019 to 2020. Meanwhile 10% (or 16) of the 156 constituencies recorded no change in percent lit pixels and portrayed major impact of pandemic on the eastern region of UP from 2019 to 2020.

Eastern region of Uttar Pradesh has seen an 8% decrease in change in percent lit pixels between 2019 and 2020.







5.2 Central UP - Pandemic impact on Total Radiance across constituencies from 2019 to 2020



The visual describes change in total radiance in central region of Uttar Pradesh from 2019 to 2020, for the top 10 and bottom 10 constituencies.

There has been a negative change in total radiance across constituencies of Lucknow Cantt. (-882 pixels), Rae Bareli (-920 pixels), Chamraua (-980 pixels), Bakshi Kaa Talab (-1007 pixels), Etawah (-1042 pixels), Lucknow East (-1091 pixels), Karhal (-1099 pixels), Lucknow Central (-1163 pixels), Chail (-1167 pixels) and Sarojini Nagar (-2338 pixels) representing stalled economic activities in the pandemic year.

Constituencies of Kalyanpur (691 pixels), Dibiyapur (457 pixels), Sirathu (315 pixels), Maharajpur (166 pixels), Khaga (SC) (118 pixels), Kidwai Nagar (113 pixels), Dhaurahra (74 pixels), Bindki (71 pixels), Amritpur (20 pixels), and Amethi (1 pixels) record an increase in total radiance, defying the pandemic effect.

This visual describes the pandemic effect on change in total radiance in the central region of UP, by comparing year 2019 with 2020. Out of 138 constituencies 7 (or 5%) showed large decrease, 25 (or 18%) showed moderate decrease, 91 (or 66%) showed small decrease in total radiance. 5% (or 7) of the constituencies showed no change and 8 (or 6%) showed small increase in total radiance. These varied categories elaborate upon the impact on the economic activity. However 11% of the constituencies remain immune to the pandemic effect.







6.2 Central UP - Pandemic impact on percent change in Total Radiance across constituencies



from 2019 to 2020

The visual describes the percent change in total radiance in central region of Uttar Pradesh from 2019 to 2020 for the bottom 20 constituencies that bore the brunt of the pandemic.

The negative change in total radiance across constituencies of Puranpur (SC) (-15 %), Ghatampur (SC) (-15 %), Bhagwantnagar (-16 %), Chhibramau (-16 %), Purwa (-16 %), Mahmoodabad (-17 %), Balamau (SC) (-17 %), Aliganj (-17 %), Karhal (-17 %), Chamraua (-18 %), Dariyabad (-18 %), Kasta (SC) (-18 %), Rampur (-19 %), Sikandra (-19 %), Haidergarh (SC) (-19 %), Zaidpur (SC) (-20 %), Tirwa (-20 %), Bisalpur (-23 %), Pilibhit (-24 %) and Ram Nagar (-26 %) stalled representing economic activities owing to the pandemic year.

This visual describes the pandemic effect on percent change in total radiance in central region of UP, by comparing year 2019 with 2020. Out of 138 constituencies 21 (or 15%) showed large decrease, 32 (or 23%) showed moderate decrease, 73 (or 53%) showed small decrease in percent change in total radiance. 3 constituencies showed no change and 9 showed small increase in total radiance. These varied categories further the impact on the economic activity as only 9% of the constituencies remain unaffected to the pandemic effect.

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Central region of UP has seen a 8% decrease in percent change in total radiance between 2019 and 2020, owing to the pandemic as the economic activities remain affected.



7.2 Central UP - Pandemic impact on change in Lit Pixels across constituencies from 2019 to 2020 indicates distribution of nightlights in the assembly constituency area



The present visual represents bottom 20 constituencies in central UP recording change in lit pixels from 2019 to 2020.

Constituencies of Kursi (-518 pixels), Barkhera (-548 pixels), Ghatampur (SC) (-557 pixels), Powayan (SC) (-568 pixels), Dariyabad (-568 pixels), Katra (-570 pixels), Mahmoodabad (-580 pixels), Shahabad (-586 pixels), Mohammdi (-600 pixels), Ram Nagar (-602 pixels), Kasta (SC) (-611 pixels), Biswan (-645 pixels), Maholi (-658 Bisalpur (-681 pixels), pixels), Sawaijpur pixels), (-725 Bhagwantnagar pixels), (-759 Balamau (SC) (-782 pixels), Purwa (-834 pixels), Sikandra (-866 pixels) and Tirwa (-1019 pixels) were the worst hit by the pandemic and showed the highest negative change in lit pixels.

The visual describes change in lit pixels in central UP from 2019 to 2020, constituency-wise. Out of 138 constituencies 62 (or 45%) showed large decrease in lit pixels, 47 (or 34%) showed moderate decrease, 14 (or 10%) showed small decrease in Lit Pixels. While 14 (or 10%) constituencies show no change and only 1 constituency showed small increase in lit pixels owing to the pandemic.







8.2 Central UP - Pandemic impact on percent change in Lit Pixels across constituencies from 2019 to 2020 indicates the percentage of lit pixels with respect to total pixels



The visual on right records the bottom 20 constituencies where the change in percent lit pixels is maximum between 2019 and 2020.

Economic activities the in constituencies of Gopamau (SC) (-13 %), Sawaijpur (-13 %), Sidhauli (SC) (-13 %), Maholi (-13 %), Kursi (-14 %), Dariyabad (-14 %), Shahabad (-14 %), (SC) Haidergarh (-15 %), Bhagwantnagar (-15%), Purwa (-15%), Balamau (SC) (-16 %), Kasta (SC) (-16 %), Ram Nagar (-16 %), Pilibhit (-17 %), Zaidpur (SC) (-17 %), Bisalpur (-18 %), Sikandra (-19 %), Mahmoodabad (-19 %), Biswan (-20 %) and Tirwa (-22 %) in the central region of UP were affected by the pandemic.

The visual shows large decrease in change in percent lit pixels in 49% (or 68) of the constituencies, moderate decrease in 14% (or 19) constituencies, and small decrease in 25% (or 35) constituencies from 2019 to 2020. Meanwhile 12% (or 16) of the 138 constituencies recorded no change in percent lit pixels and portrayed major impact of pandemic on the central region of UP from 2019 to 2020.

Central region of Uttar Pradesh has seen an 11% decrease in change in percent lit pixels between 2019 and 2020.







5.3 Western UP - Pandemic impact on Total Radiance across constituencies from 2019 to 2020



The visual describes change in total radiance in western region of Uttar Pradesh from 2019 to 2020, for the top 10 and bottom 10 constituencies.

There has been a negative change in total radiance across constituencies of Chandpur (-823 pixels), Mant (-834 pixels), Fatehabad (-837 pixels), Goverdhan (-838 pixels), Fatehpur Sikri (-838 pixels), Baghpat (-855 pixels), Bijnor (-951 pixels), Barauli (-956 pixels), Agra Rural (SC) (-1021 pixels) and Jewar (-1201 pixels) representing stalled economic activities in the pandemic year.

Constituencies of Hapur (SC) (413 pixels), Mathura (145 pixels), Loni (131 pixels), Sikandrabad (92 pixels), Agra Cantt. (SC) (22 pixels), Agra South (17 pixels), Bulandshahr (-53 pixels), Noida (-58 pixels), Syana (-62 pixels) and Meerut South (-68 pixels) recorded an increase in total radiance, defying the pandemic effect.

This visual describes the pandemic effect on change in total radiance in western part of UP, by comparing year 2019 with 2020. Out of 90 constituencies 2 (or 2%) showed large decrease, 41 (or 46%) showed moderate decrease, 41 (or 46%) showed small decrease in total radiance. 2 (or 2%) of the constituencies showed no change and 4 (or 4%) showed small increase in total radiance. These varied categories elaborate upon the impact on the economic activity and only 7% of the constituencies remain immune to the pandemic effect.







6.3 Western UP - Pandemic impact on percent change in Total Radiance across constituencies from 2019 to 2020



The visual describes the percent change in total radiance in western region of Uttar Pradesh from 2019 to 2020 for the bottom 20 constituencies that bore the brunt of the pandemic.

There has been a negative change in total radiance across constituencies of Garhmukteshwar (-15%), Thakurdwara (-15%), Dhanaura (SC) (-15%), Naugawan Sadat (-16%), Shamli (-16%), Neoband (-16%), Chhaprauli (-16%), Khatauli (-17%), Bah (-17%), Gangoh (-18%), Hastinapur (SC) (-18%), Nehtaur (SC) (-18%), Dhampur (-19%), Noorpur (-20%), Nagina (SC) (-20%), Bijnor (-20%), Chandpur (-21%) and Barhapur (-21%) representing stalled economic activities owing to the pandemic year.

This visual describes the pandemic effect on percent change in total radiance in western region of UP, by comparing year 2019 with 2020. Out of 90 constituencies 26 (or 29%) showed large decrease, 22 (or 24%) showed moderate decrease, 35 (or 39%) showed small decrease in percent change in total radiance. 3 constituencies showed no change and 4 showed small increase in percent change in total radiance. These varied categories further the impact on the economic activity as only 8% of the constituencies remain unaffected to the pandemic effect.

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Western region of UP has seen a 9% decrease in percent change in total radiance between 2019 and 2020, owing to the pandemic as the economic activities remain affected.







7.3 Western UP - Pandemic impact on change in Lit Pixels across constituencies from 2019 to 2020 indicates distribution of nightlights in the assembly constituency area



The present visual represents bottom 20 constituencies in western UP recording change in lit pixels from 2019 to 2020.

Constituencies of Khair (SC) (-231 pixels), Najibabad (-234 pixels), Nehtaur (SC) (-238 pixels), Kanth (-239 pixels), Asmoli (-242 pixels), Gunnaur (-244 pixels), Chandpur (-249 pixels), Fatehabad (-257 pixels), Chhata (-273 pixels), Mant (-276 pixels), Sikandra Rao (-288 pixels), Bijnor (-291 pixels), Dhanaura (SC) (-318 pixels), Nagina (SC) (-332 pixels), (SC) (-392 Hastinapur pixels), Thakurdwara (-402 pixels), Behat (-403 pixels), Kheragarh (-408 pixels), Bah (-451 pixels) and Barhapur (-689 pixels) were the worst hit by the pandemic and showed the highest negative change in lit pixels.

The visual describes change in lit pixels in western UP from 2019 to 2020, constituency-wise. Out of 90 constituencies 8 (or 9%) showed large decrease in lit pixels, 33 (or 37%) showed moderate decrease, 36 (or 40%) showed small decrease in Lit Pixels. 13 (or 14%) constituencies showed no change in lit pixels owing to the pandemic.







8.3 Western UP - Pandemic impact on percent change in Lit Pixels across constituencies from 2019 to 2020 indicates the percentage of lit pixels with respect to total pixels



The visual on right records the bottom 20 constituencies where the change in percent lit pixels are maximum between 2019 and 2020.

Economic activities the in constituencies of (-6%), Kairana Naugawan Sadat (-6%), Asmoli (-6%), Chandpur (-6%), Sikandra Rao (-7%), (-7%), Fatehabad (-7%), Behat Najibabad (-7%), Bijnor (-7%), Kanth (-8%), Dhanaura (SC) (-8%), Hastinapur (SC) (-9%), Bah (-9%), Noorpur (-9%), Dhampur (-10%), Kheragarh (-10%), Nehtaur (SC) (-11%), Nagina (SC) (-12%), Barhapur (-13%) and Thakurdwara (-13%) in the western region of UP were affected by the pandemic.

The visual shows large decrease in change in percent lit pixels in 12% (or 11) of the constituencies, moderate decrease in 10% (or 9) of constituencies, and small decrease in 59% (or 53) of constituencies from 2019 to 2020. Meanwhile 19% (or 17) of the 90 constituencies recorded no change in percent lit pixels and portrayed major impact of pandemic on the western region of UP from 2019 to 2020.

Western region of Uttar Pradesh has seen a 6% decrease in change in percent lit pixels between 2019 and 2020.







5.4 Bundelkhand - Pandemic impact on Total Radiance across constituencies from 2019 to 2020



This visual describes the pandemic effect on change in total radiance in Bundelkhand region of UP, by comparing year 2019 with 2020. Out of 19 constituencies 2 (or 11%) showed moderate decrease, 10 (or 53%) showed small decrease. 2 (or 11%) of the constituencies showed no change and 5 (or 26%) showed small increase in total radiance. These varied categories elaborate upon the impact on the economic activity and only 37% of the constituencies remain immune to the pandemic effect.

The visual describes change in total radiance in Bundelkhand region of Uttar Pradesh from 2019 to 2020. Constituencies of Tindwari (-29 pixels), Manikpur (-59 pixels), Rath (SC) (-113 pixels), Mauranipur (SC) (-125 pixels), Babina (-187 pixels), Hamirpur (-228 pixels), Orai (SC) (-240 pixels), Madhaugarh (-272 pixels), Charkhari (-303 pixels), Mehroni (SC) (-377 pixels), Kalpi (-387 pixels), Jhansi Nagar (-508 pixels) and Mahoba (-785 pixels) recorded negative change total radiance, in representing stalled economic activities in the pandemic year.





Constituencies of Lalitpur (217 pixels), Naraini (SC) (143 pixels), Garautha (129 pixels), Chitrakoot (102 pixels), Baberu (74 pixels) and Banda (36 pixels), recorded an increase in total radiance, defying the pandemic effect.



6.4 Bundelkhand - Pandemic impact on percent change in Total Radiance across constituencies from 2019 to 2020



This visual describes the pandemic effect on percent change in total radiance in Bundelkhand region of UP, by comparing year 2019 with 2020. Out of 19 constituencies 1 (or 5%) showed moderate decrease, 11 (or 58%) showed small decrease in percent change in total radiance. 1 constituency showed no change and 6 showed small increase in total radiance. These varied categories further the impact on the economic activity as only 37% of the constituencies remain unaffected to the pandemic effect.

Constituencies of Manikpur (-1%), Babina (-2%), Mauranipur (SC) (-2%), Rath (SC) (-2%), Hamirpur (-3%), Orai (SC) (-4%), Madhaugarh (-5%), Jhansi Nagar (-5%), Mehroni (SC) (-6%), Kalpi (-7%), Charkhari (-7%), and Mahoba (-13%) recorded negative percent change in total radiance, representing stalled economic activities owing to the pandemic year.





Constituencies of Naraini (SC) (5%), Lalitpur (4%), (4%), Baberu Chitrakoot (3%), Garautha (2%), (2%) and Tindwari (0%) Banda recorded an increase in total radiance, defying the pandemic effect.



7.4 Bundelkhand - Pandemic impact on change in Lit Pixels across constituencies from 2019 to 2020 indicates distribution of nightlights in the assembly constituency area



Constituencies of Jhansi Nagar (-3 pixels), Banda (-28 pixels), Chitrakoot (-182 pixels), Naraini (SC) (-194 pixels), Babina (-199 pixels), Tindwari (-214 pixels), Mahoba (-216 pixels), Baberu (-263 pixels), Mauranipur (SC) (-286 pixels), Garautha (-323 pixels), Mehroni (SC) (-350 pixels), Lalitpur (-371 pixels), Orai (SC) (-373 pixels), Rath (SC) (-421 pixels), Hamirpur (-433 pixels), Manikpur (-475 pixels), Charkhari (-557 pixels), Kalpi (-810 pixels), Madhaugarh (-841 pixels) recorded negative change in lit pixels, representing stalled economic activities in the pandemic year.

The visual describes change in lit pixels in Bundelkhand from 2019 to 2020, constituencywise. Out of 19 constituencies 10 (or 53%) showed large decrease in lit pixels, 7 (or 37%) showed moderate decrease while 2 (or 11%) showed small decrease in lit pixels owing to the pandemic.

Small Decrease







8.4 Bundelkhand - Pandemic impact on percent change in Lit Pixels across constituencies from 2019 to 2020 indicates the percentage of lit pixels with respect to total pixels



The visual shows large decrease in change in percent lit pixels in 5% (or 1) of the constituencies, and small decrease in 17 constituencies from 2019 to 2020. Meanwhile 5% (or 1) of the 19 constituencies recorded no change in percent lit pixels and portrayed impact of pandemic on the Bundelkhand region of UP from 2019 to 2020.

The visual describes change in percent lit pixels of Bundelkhand region in Uttar Pradesh from 2019 to 2020, for all 19 constituencies.

Constituencies of Jhansi Nagar (-0.3%), Banda (-1%), Mehroni (SC) (-2%), Tindwari (-2%), Babina (-2%), Chitrakoot (-3%), Naraini (SC) (-3%), Mauranipur (SC) (-3%), Lalitpur (-3%), Garautha (-3%), Rath (SC) (-3%), Mahoba (-3%), Baberu (-4%), Hamirpur (-4%), Manikpur (-4%), Orai (SC) (-5%), Charkhari (-5%), Kalpi (-8%) and Madhaugarh (-10%) recorded negative change in percent lit pixels, representing stalled economic activities in the pandemic year.





Bundelkhand region of Uttar Pradesh has seen a 7.41% decrease in change in percent lit pixels between 2019 and 2020.



Key Findings

In this report we have listed four major indicators from nightlight data that shows varied ways to capture the depth of the economic activities. The year-by-year comparison of the change in luminosity demonstrates how economic activities have expanded to newer areas, whether areas have transformed from no light to light and light to more light regions.

1. Growth trend in the constituencies of Uttar Pradesh between 2015 and 2019

Change in total radiance depicts that constituencies of Phulpur (6645 pixels) and Sarojini Nagar (5936 pixels) have shown tremendous transformation over five years, pointing towards an immense surge in economic and developmental activities. The entire Uttar Pradesh has illuminated brightly with a percent change in total radiance of 69% from 2015 to 2019. When we investigate every region one by one, the central region stands out with the highest percent change in total radiance of 709.76%, followed by eastern (109%), Bundelkhand (75%) and western region (37.45%).

Change in percent lit pixels captures the growth of economic activities distributed over space and spread to newer areas from 2015 to 2019. The state records a 42% increase in five years on this parameter. The regional figures re-emphasise upon a substantial expansion of economic activities in the central (64.82%) region followed by Bundelkhand (45.55%), eastern (40%) and western (15.71%) regions of UP.

2. Pandemic Impact in the constituencies of Uttar Pradesh between 2019 and 2020

The indicator of percent change in total radiance shows that the state of Uttar Pradesh stays largely affected by the pandemic as it records a shift to -9.19%, reflecting reduced economic activities. In the meantime, the four regions of this state depict varied impact of the pandemic. The Bundelkhand region has remained least affected by the pandemic with a -3.18% change whereas central -8.1%, western -8.59%, eastern -11.88% regions bear a much deeper impact.

The change in percent lit pixels tells us that the state (-8.48%) has undergone a sizable reduction in economic activity due to the pandemic. The central region, which previously has seen the most growth over the five years from 2015-19, has also predominantly remained affected by the pandemic with a change in percent lit pixels of -11%, followed by eastern (-7.72%), Bundelkhand (-7.41%) and western (-5.71%) region.





Appendix

Uttar Pradesh Nightlights Data (By Assembly Constituency) – Western Region

			Total Radiance	Lit Pixels	Percent Lit Pixels	Total Radiance	Lit Pixels	Percent Lit Pixels	Total Radiance	Lit Pixels	Percent Lit Pixels
No. District Name	AC Name	Total Pixels	2015	2015	2015	2019	2019	2019	2020	2020	2020
1 SAHARANPUR	Behat	5522	2663.6	3036	0.5	3517.0	3364	0.6	2996.1	2961	0.5
2 SAHARANPUR	Nakur	3729	2394.1	2708	0.7	4658.4	3320	0.9	4234.0	3099	0.8
3 SAHARANPUR	Saharanpur Nagar	255	2680.4	255	1.0	3572.7	255	1.0	3312.2	255	1.0
4 SAHARANPUR	Saharanpur	1844	4121.9	1767	1.0	5414.8	1812	1.0	4934.8	1768	1.0
5 SAHARANPUR	Deoband	2384	2280.2	2015	0.8	3343.4	2174	0.9	2790.9	2056	0.9
	Rampur										
6 SAHARANPUR	Maniharan(SC)	2824	3434.8	2379	0.8	5797.3	2695	1.0	5039.2	2609	0.9
7 SAHARANPUR	Gangoh	3422	2098.5	2643	0.8	4270.4	3200	0.9	3485.1	3019	0.9
8 MUZAFFARNAGAR	Kairana	2998	2396.1	2308	0.8	3778.8	2664	0.9	3232.4	2478	0.8
9 MUZAFFARNAGAR	Thana Bhawan	2343	1570.5	1852	0.8	2972.5	2200	0.9	2526.5	2089	0.9
10 MUZAFFARNAGAR	Shamli	1821	1905.5	1452	0.8	3393.0	1726	0.9	2837.0	1666	0.9
11 MUZAFFARNAGAR	Budhana	2618	2038.2	2196	0.8	3966.0	2413	0.9	3499.2	2323	0.9
12 MUZAFFARNAGAR	Charthawal	2719	3071.7	2334	0.9	4209.2	2438	0.9	3585.1	2301	0.8
13 MUZAFFARNAGAR	Purqazi (SC)	2937	2881.5	2245	0.8	3648.5	2318	0.8	3189.2	2175	0.7
14 MUZAFFARNAGAR	Muzaffar Nagar	441	4110.4	440	1.0	3717.9	439	1.0	3223.4	437	1.0
15 MUZAFFARNAGAR	Khatauli	2698	3483.3	2457	0.9	4754.7	2502	0.9	3941.3	2376	0.9
16 MUZAFFARNAGAR	Meerapur	2945	1628.8	1864	0.6	2258.3	1990	0.7	2060.3	1876	0.6
17 BIJNOR	Najibabad	3105	2103.4	1699	0.5	2894.4	1878	0.6	2330.2	1644	0.5
18 BIJNOR	Nagina (SC)	2654	1779.4	1933	0.7	3138.8	2312	0.9	2503.5	1980	0.7
19 BIJNOR	Barhapur	5203	1317.4	1994	0.4	2415.9	2720	0.5	1907.2	2031	0.4
20 BIJNOR	Dhampur	1771	1375.8	1164	0.7	2202.4	1358	0.8	1783.8	1176	0.7
21 BIJNOR	Nehtaur (SC)	2035	1209.7	1631	0.8	2284.9	1892	0.9	1851.6	1654	0.8
22 BIJNOR	Bijnor	3828	2864.3	2357	0.6	4595.5	2774	0.7	3644.3	2483	0.6
23 BIJNOR	Chandpur	3632	2081.6	2717	0.7	3910.9	3185	0.9	3087.4	2936	0.8
24 BIJNOR	Noorpur	2033	1209.7	1613	0.8	2445.5	1904	0.9	1951.5	1701	0.8
25 MORADABAD	Kanth	2820	3808.4	2392	0.8	5224.8	2445	0.9	4726.2	2206	0.8
26 MORADABAD	Thakurdwara	2904	2166.4	2347	0.8	2455.5	2372	0.8	2065.0	1970	0.7
27 MORADABAD	Moradabad Rural	1112	2466.0	1018	0.9	2674.6	1054	0.9	2495.2	994	0.9
	Moradabad										
28 MORADABAD	Nagar	126	2469.9	126	1.0	2846.5	126	1.0	2554.5	126	1.0
29 MORADABAD	Kundarki	3431	2835.4	2311	0.7	5103.7	3185	0.9	4855.2	2989	0.9
30 MORADABAD	Bilari	2162	1006.5	981	0.5	2734.5	2103	1.0	2641.0	1999	0.9
31 MORADABAD	Chandausi (SC)	1996	2184.9	1465	0.7	3428.9	1931	1.0	3144.5	1847	0.9
32 MORADABAD	Asmoli	3577	1856.6	2167	0.6	4603.0	3445	1.0	3902.6	3203	0.9
33 MORADABAD	Sambhal	1955	2760.2	1538	0.8	3927.5	1930	1.0	3593.2	1839	0.9
39 JYOTIBA PHULE NAGAR	Dhanaura (SC)	3725	3060.5	2602	0.7	4720.3	2901	0.8	3965.3	2583	0.7
40 JYOTIBA PHULE NAGAR	Naugawan Sadat	2663	2142.7	2415	0.9	3455.1	2600	1.0	2889.7	2429	0.9
41 JYOTIBA PHULE NAGAR	Amroha	1326	2180.5	1215	0.9	2978.5	1296	1.0	2686.2	1266	1.0
42 JYOTIBA PHULE NAGAR	Hasanpur	3942	2173.8	2495	0.6	5223.6	3546	0.9	4843.9	3405	0.9
43 MEERUT	Siwalkhas	2975	3474.6	2609	0.9	5444.7	2788	0.9	4784.1	2709	0.9
44 MEERUT	Sardhana	2617	4239.0	2445	0.9	5558.2	2494	1.0	4857.4	2443	0.9
45 MEERUT	Hastinapur (SC)	3974	2904.1	2830	0.7	4067.2	3005	0.8	3317.2	2613	0.7
46 MEERUT	Kithore	2791	3438.6	2580	0.9	5183.9	2661	1.0	4881.5	2617	0.9
47 MEERUT	Meerut Cantt.	613	7608.0	613	1.0	8251.1	613	1.0	7751.3	613	1.0
48 MEERUT	Meerut	99	3146.2	99	1.0	2683.9	99	1.0	2556.2	99	1.0
49 MEERUT	Meerut South	658	3803.2	654	1.0	4582.3	658	1.0	4513.7	654	1.0





			Total Radiance	Lit Pixels	Percent Lit Pixels	Total Radiance	Lit Pixels	Percent Lit Pixels	Total Radiance	Lit Pixels	Percent Lit Pixels
No. District Name	AC Name	Total Pixels	2015	2015	2015	2019	2019	2019	2020	2020	2020
50 BAGHPAT	Chhaprauli	2897	1792.8	2228	0.8	3404.9	2507	0.9	2828.2	2344	0.8
51 BAGHPAT	Baraut	1988	2307.5	1722	0.9	4116.6	1845	0.9	3609.3	1750	0.9
52 BAGHPAT	Baghpat	2218	2740.8	1980	0.9	5456.2	2115	1.0	4600.4	2064	0.9
53 GHAZIABAD	Loni	868	7195.8	868	1.0	8044.3	868	1.0	8176.2	867	1.0
54 GHAZIABAD	Muradnagar	841	2861.9	826	1.0	4347.1	832	1.0	3829.6	812	1.0
55 GHAZIABAD	Sahibabad	171	4734.7	171	1.0	4566.6	171	1.0	4444.5	171	1.0
56 GHAZIABAD	Ghaziabad	217	6393.4	217	1.0	6120.5	217	1.0	5978.3	217	1.0
57 GHAZIABAD	Modi Nagar	1932	3878.5	1803	0.9	6323.8	1838	1.0	6058.0	1810	0.9
58 GHAZIABAD	Dholana	2376	13094.6	2316	1.0	16758.6	2363	1.0	16316.5	2351	1.0
59 GHAZIABAD	Hapur (SC)	1501	3674.8	1440	1.0	5297.0	1475	1.0	5710.1	1463	1.0
60 GHAZIABAD	Garhmukteshwar	2946	3014.6	2561	0.9	4709.1	2701	0.9	3967.0	2594	0.9
61 GAUTAM BUDDHA NAGAR	Noida	1127	40372.6	1127	1.0	36777.9	1127	1.0	36719.8	1127	1.0
62 GAUTAM BUDDHA NAGAR	Dadri	2133	20962.8	2126	1.0	23598.0	2131	1.0	22808.5	2129	1.0
63 GAUTAM BUDDHA NAGAR	Jewar	4106	10552.6	3785	0.9	14381.7	4013	1.0	13180.5	3945	1.0
64 BULANDSHAHR	Sikandrabad	2210	3580.9	2071	0.9	5630.1	2173	1.0	5722.5	2135	1.0
65 BULANDSHAHR	Bulandshahr	1298	3164.8	1231	0.9	4714.6	1292	1.0	4660.7	1288	1.0
66 BULANDSHAHR	Syana	3308	2094.1	2766	0.8	3616.5	3005	0.9	3554.1	2957	0.9
67 BULANDSHAHR	Anupshahr	2942	1981.8	2355	0.8	3867.0	2773	0.9	3675.0	2740	0.9
68 BULANDSHAHR	Debai	2643	1492.0	1818	0.7	3540.6	2508	0.9	3327.9	2441	0.9
69 BULANDSHAHR	Shikarpur	3132	2045.2	2527	0.8	4227.1	3048	1.0	3979.2	2997	1.0
70 BULANDSHAHR	Khurja (SC)	3079	3378.3	2593	0.8	6111.1	3004	1.0	5723.0	2962	1.0
71 ALIGARH	Khair (SC)	4556	2773.1	3463	0.8	6434.9	4317	0.9	5668.3	4086	0.9
72 ALIGARH	Barauli	3731	4073.3	2938	0.8	7190.1	3664	1.0	6233.1	3474	0.9
73 ALIGARH	Atrauli	3090	1077.6	1790	0.6	3808.9	2906	0.9	3353.5	2797	0.9
74 ALIGARH	Chharra	3628	1772.7	2386	0.7	5057.5	3575	1.0	4472.4	3399	0.9
75 ALIGARH	Koil	545	581.1	414	0.8	1271.9	542	1.0	1083.2	538	1.0
76 ALIGARH	Aligarh	208	3295.7	208	1.0	4081.9	208	1.0	3843.7	208	1.0
77 ALIGARH	Iglas (SC)	3882	4282.6	3073	0.8	7033.5	3833	1.0	6281.0	3713	1.0
78 HATHRAS	Hathras (SC)	1854	2972.2	1500	0.8	4444.0	1840	1.0	3863.6	1791	1.0
79 HATHRAS	Sadabad	3455	4877.1	3392	1.0	5477.0	3407	1.0	4822.0	3347	1.0
80 HATHRAS	Sikandra Rao	4014	1899.5	2276	0.6	5205.3	3894	1.0	4403.0	3606	0.9
81 MATHURA	Chhata	4777	3975.4	3444	0.7	6132.5	3997	0.8	5580.0	3724	0.8
82 MATHURA	Mant	4728	3273.7	3396	0.7	6208.5	4278	0.9	5373.5	4002	0.8
83 MATHURA	Goverdhan	4545	11409.2	4167	0.9	13977.9	4300	0.9	13139.7	4118	0.9
84 MATHURA	Mathura	218	1669.1	218	1.0	1960.2	218	1.0	2106.1	218	1.0
85 MATHURA	Baldey (SC)	3318	3743.6	3003	0.9	5331.5	3180	1.0	4805.1	3019	0.9
86 AGRA	Etmadpur	2575	8283.5	2553	1.0	9045.2	2564	1.0	8341.0	2523	1.0
87 AGRA	Agra Cantt. (SC)	282	5789.6	282	1.0	5387.7	282	1.0	5410.0	282	1.0
88 AGRA	Agra South	85	2797.4	85	1.0	2540.8	85	1.0	2558.2	85	1.0
89 AGRA	Agra North	226	5867.2	226	1.0	5770.4	226	1.0	5694.8	226	1.0
90 AGRA	Agra Rural (SC)	2371	7982.6	2297	1.0	9695.1	2343	1.0	8673.9	2315	1.0
91 AGRA	Fatehour Sikri	3604	4405.8	3315	0.9	5527.2	3431	1.0	4688 5	3245	0.9
92 AGRA	Kheragarh	3880	2059 7	2742	0.7	3600 5	3334	0.9	2890.9	2931	0.8
93 AGRA	Fatebabad	3496	3580.7	3214	0.7	5494 /	3364	1.0	<u> </u>	3107	0.0
94 AGRA	Bah	4552	2341 A	3214	0.7	3945 4	3778	0.8	3263.0	33207	0.7
	Gunnaur	4332	2071.7	2570	0.5	<u>/</u> 827 1	<u>40</u> 01	0.0	ΔΛ27 2	3327	0.2
	Junidu	J	2030.0	2313	0.5	-1057.1		0.0	- 17 27.J	50-77	0.0

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Uttar Pradesh Nightlights Data (By Assembly Constituency) – Western Region

No.	District Name	AC Name	Change in Total Radiance 2015-19	Change in Total Radiance 2019-20	Change in Percent Lit Pixels 2015-19	Change in Percent Lit Pixels 2019-20	Change in Lit Pixels 2015-19	Change in Lit Pixels 2019-20	% Change in Total Radiance 2015-19	% Change in Total Radiance 2019-20
1	SAHARANPUR	Behat	853.4	-520.9	0.1	-0.1	328	-403	32.0	-14.8
2	SAHARANPUR	Nakur	2264.4	-424.5	0.2	-0.1	612	-221	94.6	-9.1
3	SAHARANPUR	Saharanpur Nagar	892.3	-260.5	0.0	0.0	0	0	33.3	-7.3
4	SAHARANPUR	Saharanpur	1292.9	-480.1	0.0	0.0	45	-44	31.4	-8.9
5	SAHARANPUR	Deoband	1063.2	-552.5	0.1	0.0	159	-118	46.6	-16.5
6	SAHARANPUR	Rampur Maniharan(SC)	2362.5	-758.1	0.1	0.0	316	-86	68.8	-13.1
7	SAHARANPUR	Gangoh	2171.9	-785.4	0.2	-0.1	557	-181	103.5	-18.4
8	MUZAFFARNAGAR	Kairana	1382.7	-546.4	0.1	-0.1	356	-186	57.7	-14.5
9	MUZAFFARNAGAR	Thana Bhawan	1401.9	-445.9	0.1	0.0	348	-111	89.3	-15.0
10	MUZAFFARNAGAR	Shamli	1487.5	-556.0	0.2	0.0	274	-60	78.1	-16.4
11	MUZAFFARNAGAR	Budhana	1927.8	-466.8	0.1	0.0	217	-90	94.6	-11.8
12	MUZAFFARNAGAR	Charthawal	1137.5	-624.1	0.0	-0.1	104	-137	37.0	-14.8
13	MUZAFFARNAGAR	Purgazi (SC)	767.0	-459.3	0.0	0.0	73	-143	26.6	-12.6
14	MUZAFFARNAGAR	Muzaffar Nagar	-392.5	-494.6	0.0	0.0	-1	-2	-9.5	-13.3
15	MUZAFFARNAGAR	Khatauli	1271.4	-813.5	0.0	0.0	45	-126	36.5	-17.1
16	MUZAFFARNAGAR	Meerapur	629.5	-198.0	0.0	0.0	126	-114	38.6	-8.8
17	BIJNOR	Najibabad	791.0	-564.2	0.1	-0.1	179	-234	37.6	-19.5
18	BIJNOR	Nagina (SC)	1359.4	-635.3	0.1	-0.1	379	-332	76.4	-20.2
19	BIJNOR	Barhapur	1098.5	-508.7	0.1	-0.1	726	-689	83.4	-21.1
20	BIJNOR	Dhampur	826.6	-418.6	0.1	-0.1	194	-182	60.1	-19.0
21	BIJNOR	Nehtaur (SC)	1075.2	-433.2	0.1	-0.1	261	-238	88.9	-19.0
22	BIJNOR	Bijnor	1731.2	-951.2	0.1	-0.1	417	-291	60.4	-20.7
23	BIJNOR	Chandpur	1829.3	-823.5	0.1	-0.1	468	-249	87.9	-21.1
24	BIJNOR	Noorpur	1235.8	-494.0	0.1	-0.1	291	-203	102.2	-20.2
25	MORADABAD	Kanth	1416.3	-498.6	0.0	-0.1	53	-239	37.2	-9.5
26	MORADABAD	Thakurdwara	289.1	-390.5	0.0	-0.1	25	-402	13.3	-15.9
27	MORADABAD	Moradabad Rural	208.6	-179.3	0.0	-0.1	36	-60	8.5	-6.7
28	MORADABAD	Moradabad Nagar	376.6	-292.0	0.0	0.0	0	0	15.2	-10.3
29	MORADABAD	Kundarki	2268.3	-248.5	0.3	-0.1	874	-196	80.0	-4.9
30	MORADABAD	Bilari	1728.0	-93.5	0.5	0.0	1122	-104	171.7	-3.4
31	MORADABAD	Chandausi (SC)	1244.0	-284.5	0.2	0.0	466	-84	56.9	-8.3
32	MORADABAD	Asmoli	2746.4	-700.4	0.4	-0.1	1278	-242	147.9	-15.2
33	MORADABAD	Sambhal	1167.3	-334.4	0.2	0.0	392	-91	42.3	-8.5
39	JYOTIBA PHULE NAGAR	Dhanaura (SC)	1659.8	-755.0	0.1	-0.1	299	-318	54.2	-16.0
40	JYOTIBA PHULE NAGAR	Naugawan Sadat	1312.4	-565.4	0.1	-0.1	185	-171	61.3	-16.4
41	JYOTIBA PHULE NAGAR	Amroha	798.0	-292.3	0.1	0.0	81	-30	36.6	-9.8
42	JYOTIBA PHULE NAGAR	Hasanpur	3049.8	-379.7	0.3	0.0	1051	-141	140.3	-7.3
43	MEERUT	Siwalkhas	1970.1	-660.6	0.1	0.0	179	-79	56.7	-12.1
44	MEERUT	Sardhana	1319.2	-700.8	0.0	0.0	49	-51	31.1	-12.6
45	MEERUT	Hastinapur (SC)	1163.1	-750.0	0.0	-0.1	175	-392	40.0	-18.4
46	MEERUT	Kithore	1745.3	-302.4	0.0	0.0	81	-44	50.8	-5.8
47	MEERUT	Meerut Cantt.	643.0	-499.8	0.0	0.0	0	0	8.5	-6.1
48	MEERUT	Meerut	-462.3	-127.7	0.0	0.0	0	0	-14.7	-4.8
49	MEERUT	Meerut South	779.1	-68.7	0.0	0.0	4	-4	20.5	-1.5
50	BAGHPAT	Chhaprauli	1612.1	-576.6	0.1	-0.1	279	-163	89.9	-16.9
51	BAGHPAT	Baraut	1809.1	-507.3	0.1	0.0	123	-95	78.4	-12.3
52	BAGHPAT	Baghpat	2715.3	-855.8	0.1	0.0	135	-51	99.1	-15.7
53	GHAZIABAD	Loni	848.5	131.9	0.0	0.0	0	-1	11.8	1.6
54	GHAZIABAD	Muradnagar	1485.2	-517.5	0.0	0.0	6	-20	51.9	-11.9
55	GHAZIABAD	Sahibabad	-168.1	-122.1	0.0	0.0	0	0	-3.5	-2.7





			Change in Total	Change in Total	Change in Percent	Change in Percent	Change in Lit Pixels	Change in Lit Pixels	% Change in Total	% Change in Total
No.	District Name	AC Name	Radiance 2015-19	Radiance 2019-20	Lit Pixels 2015-19	Lit Pixels 2019-20	2015-19	2019-20	Radiance 2015-19	Radiance 2019-20
56	GHAZIABAD	Ghaziabad	-272.8	-142.2	0.0	0.0	0	0	-4.3	-2.3
57	GHAZIABAD	Modi Nagar	2445.2	-265.8	0.0	0.0	35	-28	63.0	-4.2
58	GHAZIABAD	Dholana	3664.0	-442.1	0.0	0.0	47	-12	28.0	-2.6
59	GHAZIABAD	Hapur (SC)	1622.1	413.2	0.0	0.0	35	-12	44.1	7.8
60	GHAZIABAD	Garhmukteshwar	1694.5	-742.1	0.0	0.0	140	-107	56.2	-15.8
61	GAUTAM BUDDHA NAGAR	Noida	-3594.8	-58.0	0.0	0.0	0	0	-8.9	-0.2
62	GAUTAM BUDDHA NAGAR	Dadri	2635.3	-789.5	0.0	0.0	5	-2	12.6	-3.3
63	GAUTAM BUDDHA NAGAR	Jewar	3829.1	-1201.2	0.1	0.0	228	-68	36.3	-8.4
64	BULANDSHAHR	Sikandrabad	2049.3	92.3	0.0	0.0	102	-38	57.2	1.6
65	BULANDSHAHR	Bulandshahr	1549.7	-53.8	0.0	0.0	61	-4	49.0	-1.1
66	BULANDSHAHR	Syana	1522.4	-62.4	0.1	0.0	239	-48	72.7	-1.7
67	BULANDSHAHR	Anupshahr	1885.2	-192.0	0.1	0.0	418	-33	95.1	-5.0
68	BULANDSHAHR	Debai	2048.6	-212.7	0.3	0.0	690	-67	137.3	-6.0
69	BULANDSHAHR	Shikarpur	2181.9	-247.9	0.2	0.0	521	-51	106.7	-5.9
70	BULANDSHAHR	Khurja (SC)	2732.7	-388.0	0.1	0.0	411	-42	80.9	-6.3
71	ALIGARH	Khair (SC)	3661.8	-766.7	0.2	-0.1	854	-231	132.0	-11.9
72	ALIGARH	Barauli	3116.8	-957.0	0.2	-0.1	726	-190	76.5	-13.3
73	ALIGARH	Atrauli	2731.3	-455.4	0.4	0.0	1116	-109	253.5	-12.0
74	ALIGARH	Chharra	3284.9	-585.1	0.3	0.0	1189	-176	185.3	-11.6
75	ALIGARH	Koil	690.7	-188.7	0.2	0.0	128	-4	118.9	-14.8
76	ALIGARH	Aligarh	786.2	-238.2	0.0	0.0	0	0	23.9	-5.8
77	ALIGARH	Iglas (SC)	2750.9	-752.5	0.2	0.0	760	-120	64.2	-10.7
78	HATHRAS	Hathras (SC)	1471.8	-580.4	0.2	0.0	340	-49	49.5	-13.1
79	HATHRAS	Sadabad	600.0	-655.0	0.0	0.0	15	-60	12.3	-12.0
80	HATHRAS	Sikandra Rao	3305.8	-802.3	0.4	-0.1	1618	-288	174.0	-15.4
81	MATHURA	Chhata	2157.1	-552.6	0.1	-0.1	553	-273	54.3	-9.0
82	MATHURA	Mant	2934.8	-834.9	0.2	-0.1	882	-276	89.6	-13.4
83	MATHURA	Goverdhan	2568.7	-838.2	0.0	0.0	133	-182	22.5	-6.0
84	MATHURA	Mathura	291.1	145.9	0.0	0.0	0	0	17.4	7.4
85	MATHURA	Baldev (SC)	1587.9	-526.4	0.1	0.0	177	-161	42.4	-9.9
86	AGRA	Etmadpur	761.7	-704.2	0.0	0.0	11	-41	9.2	-7.8
87	AGRA	Agra Cantt. (SC)	-401.9	22.3	0.0	0.0	0	0	-6.9	0.4
88	AGRA	Agra South	-256.6	17.4	0.0	0.0	0	0	-9.2	0.7
89	AGRA	Agra North	-96.8	-75.6	0.0	0.0	0	0	-1.6	-1.3
90	AGRA	Agra Rural (SC)	1712.5	-1021.2	0.0	0.0	46	-28	21.5	-10.5
91	AGRA	Fatehpur Sikri	1121.3	-838.6	0.0	-0.1	116	-186	25.5	-15.2
92	AGRA	Kheragarh	1540.8	-709.6	0.2	-0.1	597	-408	74.8	-19.7
93	AGRA	Fatehabad	1913.8	-837.8	0.0	-0.1	150	-257	53.4	-15.2
94	AGRA	Bah	1604.0	-682.4	0.1	-0.1	550	-451	68.5	-17.3
111	BUDAUN	Gunnaur	2780.4	-409.8	0.3	-0.1	1512	-244	135.2	-8.5

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DATA PORTAL

Eastern Region

			Total Radiance		Percent Lit	Total Radiance		Percent Lit	Total Radiance		Percent Lit
No. AC Name	District Name	Total Pixels	2015	Lit Pixels 2015	Pixels 2015	2019	Lit Pixels 2019	Pixels 2019	2020	Lit Pixels 2020	Pixels 2020
187 Isauli	SULTANPUR	3348	1067.1	1830	0.5	4173.0	3221	1.0	3841.9	2962	0.9
188 Sultanpur	SULTANPUR	1721	2612.8	1249	0.7	4125.6	1646	1.0	3725.3	1594	0.9
189 Sadar	SULTANPUR	3275	765.6	1449	0.4	3269.1	2971	0.9	2991.4	2691	0.8
190 Lambhua	SULTANPUR	2752	1107.2	1877	0.7	2882.1	2553	0.9	2764.7	2361	0.9
191 Kadipur (SC)	SULTANPUR	2487	935.3	1505	0.6	2779.7	2373	1.0	2536.0	2187	0.9
244 Rampur Khas	PRATAPGARH	2533	1077.8	1715	0.7	2235.5	2248	0.9	1924.1	1878	0.7
245 Babaganj (SC)	PRATAPGARH	3050	2076.0	2657	0.9	2378.2	2686	0.9	2064.5	2197	0.7
246 Kunda	PRATAPGARH	3065	2975.7	2842	0.9	3329.9	2849	0.9	3558.6	2731	0.9
247 Bishwavnathganj	PRATAPGARH	3185	2172.8	2647	0.8	3845.8	2993	0.9	3515.2	2762	0.9
248 Pratapgarh	PRATAPGARH	2191	2130.5	1806	0.8	3857.0	2096	1.0	3599.6	1955	0.9
249 Patti	PRATAPGARH	2776	1144.3	1850	0.7	2880.1	2534	0.9	2719.1	2351	0.8
250 Raniganj	PRATAPGARH	2435	873.5	1260	0.5	2983.5	2313	0.9	2938.8	2215	0.9
254 Phaphamau	ALLAHABAD	2797	3017.0	2227	0.8	4903.0	2601	0.9	4394.9	2529	0.9
255 Soraon (SC)	ALLAHABAD	1984	846.2	969	0.5	2554.3	1869	0.9	2458.1	1803	0.9
256 Phulpur	ALLAHABAD	2051	3259.8	1396	0.7	9905.7	1896	0.9	5731.1	1880	0.9
257 Pratappur	ALLAHABAD	2697	808.1	800	0.3	3721.9	2563	1.0	3540.5	2442	0.9
258 Handia	ALLAHABAD	1526	473.6	598	0.4	2357.2	1442	0.9	2187.4	1442	0.9
259 Meja	ALLAHABAD	2555	3290.2	2222	0.9	5065.7	2396	0.9	4645.6	2366	0.9
260 Karachhana	ALLAHABAD	1906	5305.1	1789	0.9	7907.9	1822	1.0	6289.3	1825	1.0
261 Allahabad West	ALLAHABAD	121	3564.0	121	1.0	3712.0	121	1.0	2894.5	121	1.0
262 Allahabad North	ALLAHABAD	205	3145.9	205	1.0	5407.2	205	1.0	2778.2	205	1.0
263 Allahabad South	ALLAHABAD	148	5158.6	148	1.0	6955.2	148	1.0	4204.5	148	1.0
264 Bara (SC)	ALLAHABAD	4856	5142.2	4133	0.9	7420.0	4471	0.9	7490.0	4349	0.9
265 Koraon (SC)	ALLAHABAD	6277	4154.4	4293	0.7	6315.3	5047	0.8	6142.9	4739	0.8
271 Rudauli	BARABANKI	3251	1157.8	1523	0.5	2995.4	2629	0.8	2475.4	2051	0.6
273 Milkipur (SC)	FAIZABAD	3505	1250.3	2212	0.6	3418.5	3240	0.9	2452.7	2516	0.7
274 Bikapur	FAIZABAD	2880	1824.1	2146	0.7	3954.5	2641	0.9	3446.8	2390	0.8
275 Avodhva	FAIZABAD	1893	4375.9	1379	0.7	6538.2	1590	0.8	6103.4	1528	0.8
276 Goshaingani	FAIZABAD	3043	1005.5	1845	0.6	2559.5	2602	0.9	1931.1	2124	0.7
277 Katehari	AMBEDKAR NAGAR	3277	1430.8	1571	0.5	4596.2	2943	0.9	3376.6	2513	0.8
278 Tanda	AMBEDKAR NAGAR	1651	1300.4	1157	0.7	2833.5	1520	0.9	2316.1	1397	0.8
279 Alanur (SC)	AMBEDKAR NAGAR	2260	620.3	1241	0.5	2404.8	2080	0.9	2157.0	2009	0.9
280 Jalalnur	AMBEDKAR NAGAR	2917	1188.8	1640	0.6	3356.4	2711	0.9	2722.2	2340	0.8
281 Akbarpur	AMBEDKAR NAGAR	2099	1641.5	1801	0.9	3309.1	2027	1.0	2698.6	1903	0.9
282 Balba (SC)	BAHRAICH	6518	575.2	1407	0.2	1941.5	2850	0.4	1703.4	2338	0.4
283 Nanpara	BAHRAICH	3670	1127.7	1583	0.4	2276.3	2454	0.7	2194.0	2240	0.6
284 Matera	ВАНВАІСН	2644	1969.8	2098	0.8	3303.6	2511	0.9	2986.3	2395	0.9
285 Mahasi	ВАНВАІСН	4269	570.7	1154	0.3	2718.0	2911	0.5	2455 5	2642	0.5
286 Babraich	ВАНВАІСН	2113	2636.6	1348	0.5	4207.3	2009	1.0	3951.6	1896	0.9
287 Payagnur	ВАНВАІСН	3580	854.7	1748	0.5	3081.1	3151	0.9	2665.4	2796	0.8
288 Kaisergani	ВАНКАІСН	3229	713.9	1300	0.5	2308.9	2257	0.5	2003.4	2006	0.0
289 Bhinga		5796	1631 8	2730	0.4	2300.9	2237	0.7	2557.4	2000	0.0
290 Shrawasti		1/175	1758 1	2733	0.5	2/51.4	3302	0.0	2307.0	2737	0.5
291 Tulsinur		5511	21/ 9	2743	0.7	1165 0	1/27	0.0	1212 2	1220	0.0
202 Gainsari		5514	314.0 11E 7	370	0.1	1203.0	1020	0.5	1312.2	1330	0.2
292 Ultraula		2/13	1002 6	240 1507	0.0	1220.3	1320	0.5	100.0	1/00 2215	0.5
204 Palrameur (SC)		2322	2121 4	1757	0.5	2023.0	2592	0.9	2004.0	2213	0.7
254 Dallallipul (SC)		3370	1212.4	1/5/	0.5	3415.3	2017	0.8	3194.2	2401	0.7
295 Wiennaun	GUNDA	3097	1313.8	2150	0.7	2556.8	2812	0.9	2318.0	2481	υ.8





				Total Radiance		Percent Lit	Total Radiance		Percent Lit	Total Radiance		Percent Lit
No.	AC Name	District Name	Total Pixels	2015	Lit Pixels 2015	Pixels 2015	2019	Lit Pixels 2019	Pixels 2019	2020	Lit Pixels 2020	Pixels 2020
296	Gonda	GONDA	1895	3254.8	1534	0.8	4818.9	1857	1.0	4237.3	1793	0.9
297	Katra Bazar	GONDA	3214	1519.8	2423	0.8	3303.5	3034	0.9	2799.8	2611	0.8
298	Colonelganj	GONDA	3301	1345.1	2011	0.6	2764.0	2721	0.8	2413.7	2233	0.7
299	Tarabganj	GONDA	3258	682.7	1316	0.4	2520.5	2737	0.8	2362.4	2382	0.7
300	Mankapur (SC)	GONDA	3432	1469.6	1726	0.5	4221.2	3205	0.9	3791.6	2964	0.9
301	Gaura	GONDA	2746	1563.1	2073	0.8	2229.5	2235	0.8	1906.1	1953	0.7
302	Shohratgarh	SIDDHARTHNAGAR	3500	798.9	1708	0.5	1895.5	2427	0.7	1466.1	1842	0.5
303	Kapilvastu (SC)	SIDDHARTHNAGAR	3186	1454.1	2124	0.7	2516.8	2173	0.7	2307.4	2000	0.6
304	Bansi	SIDDHARTHNAGAR	2374	358.4	661	0.3	1556.6	1533	0.6	1126.2	1120	0.5
305	Itwa	SIDDHARTHNAGAR	2572	457.3	963	0.4	1005.3	1492	0.6	683.0	1029	0.4
306	Domariyaganj	SIDDHARTHNAGAR	3251	957.0	1548	0.5	1904.7	2095	0.6	1301.3	1519	0.5
307	Harraiya	BASTI	3564	2452.8	2851	0.8	4143.9	3297	0.9	3429.8	2941	0.8
308	Kaptanganj	BASTI	2742	1377.6	1984	0.7	2577.6	2368	0.9	1998.7	1902	0.7
309	Rudhauli	BASTI	3425	941.0	1778	0.5	2732.8	2578	0.8	1486.2	1844	0.5
310	Basti Sadar	BASTI	1494	2193.6	1182	0.8	3328.3	1403	0.9	2857.0	1330	0.9
311	Mahadewa (SC)	BASTI	3320	1188.4	2024	0.6	2778.4	2852	0.9	2201.2	2329	0.7
312	Menhdawal	SANT KABIR NAGAR	3562	753.0	1522	0.4	2087.1	2260	0.6	1905.8	2104	0.6
313	Khalilabad	SANT KABIR NAGAR	2240	1980.6	1792	0.8	3115.0	1951	0.9	2656.5	1717	0.8
314	Dhanghata (SC)	SANT KABIR NAGAR	2619	1271.7	1818	0.7	2083.5	2171	0.8	1385.0	1711	0.7
315	Pharenda	MAHARAJGANJ	2707	1578.0	2115	0.8	2390.6	2257	0.8	1756.1	1836	0.7
316	Nautanwa	MAHARAJGANJ	3709	602.7	1065	0.3	2438.8	2607	0.7	2462.3	2446	0.7
317	Siswa	MAHARAJGANJ	3103	969.4	1802	0.6	1944.2	2158	0.7	1649.9	1853	0.6
318	Maharajganj (SC)	MAHARAJGANJ	3033	1096.6	1603	0.5	2753.6	2331	0.8	2404.2	2024	0.7
319	Paniyra	MAHARAJGANJ	2845	834.4	1552	0.5	2658.3	2623	0.9	2092.5	2270	0.8
320	Caimpiyarganj	GORAKHPUR	2359	1871.5	1987	0.8	3132.9	2149	0.9	2713.0	1931	0.8
321	Pipraich	GORAKHPUR	2142	2009.6	1988	0.9	3937.7	2106	1.0	3634.2	2006	0.9
322	Gorakhpur Urban	GORAKHPUR	509	4635.0	506	1.0	7668.6	506	1.0	7636.6	509	1.0
323	Gorakhpur Rural	GORAKHPUR	1223	3942.0	1190	1.0	5608.8	1212	1.0	5216.9	1203	1.0
324	Sahajanwa	GORAKHPUR	2410	2888.3	2018	0.8	5527.8	2281	0.9	4943.1	2186	0.9
325	Khajani (SC)	GORAKHPUR	2381	1332.4	2004	0.8	3037.9	2271	1.0	2336.6	2090	0.9
326	Chauri-Chaura	GORAKHPUR	1797	1381.3	1632	0.9	3431.6	1758	1.0	3063.6	1717	1.0
327	Bansgaon (SC)	GORAKHPUR	2017	1183.4	1700	0.8	3051.9	1891	0.9	2658.0	1836	0.9
328	Chillupar	GORAKHPUR	2584	1564.0	2117	0.8	3342.0	2318	0.9	2887.7	2224	0.9
329	Khadda	KUSHINAGAR	2884	189.6	425	0.1	1912.4	2102	0.7	1990.9	2056	0.7
330	Padrauna	KUSHINAGAR	1871	533.9	585	0.3	2129.0	1716	0.9	2075.6	1611	0.9
331	Tamkuhi Raj	KUSHINAGAR	2359	1277.7	1694	0.7	2552.7	2005	0.8	2371.2	1919	0.8
332	Fazilnagar	KUSHINAGAR	2012	723.6	1248	0.6	1955.1	1846	0.9	1793.8	1700	0.8
333	Kushinagar	KUSHINAGAR	1883	1068.3	1408	0.7	2414.5	1824	1.0	2301.4	1771	0.9
334	Hata	KUSHINAGAR	2121	736.9	1229	0.6	2835.0	2046	1.0	2541.4	1936	0.9
335	Ramkola (SC)	KUSHINAGAR	1957	525.8	852	0.4	2153.1	1787	0.9	1822.0	1613	0.8
336	Rudrapur	DEORIA	2077	783.3	1387	0.7	3108.7	2027	1.0	2503.6	1937	0.9
337	Deoria	DEORIA	1501	2199.1	1365	0.9	4269.5	1486	1.0	4047.4	1467	1.0
338	Pathardeva	DEORIA	2093	588.2	973	0.4	2294.8	1995	0.9	1929.7	1892	0.9
339	Rampur Karkhana	DEORIA	1944	1136.6	1560	0.8	3080.4	1933	1.0	2597.3	1910	1.0
340	Bhatpar Rani	DEORIA	1857	1209.0	1589	0.9	2814.3	1826	1.0	2304.4	1752	0.9
341	Salempur (SC)	DEORIA	1811	1404.1	1560	0.9	2922.8	1684	0.9	2437.5	1656	0.9
342	Barhaj	DEORIA	2020	783.6	1423	0.7	2367.3	1757	0.9	1968.5	1716	0.8
343	Atrauliya	AZAMGARH	2351	1507.0	2053	0.9	2963.3	2260	1.0	2728.7	2197	0.9
344	Gopalpur	AZAMGARH	2515	1390.4	1776	0.7	3160.4	2172	0.9	2740.0	2088	0.8
345	Sagri	AZAMGARH	2256	1420.0	1681	0.7	2531.2	1883	0.8	1922.1	1593	0.7

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No.	AC Name	District Name	Total Pixels	2015	Lit Pixels 2015	Pixels 2015	2019	Lit Pixels 2019	Pixels 2019	2020	Lit Pixels 2020	Pixels 2020
346	Mubarakpur	AZAMGARH	1791	1891.9	1681	0.9	3574.7	1767	1.0	3006.4	1692	0.9
347	Azamgarh	AZAMGARH	1579	2960.6	1463	0.9	4551.1	1550	1.0	4113.0	1513	1.0
348	Nizamabad	AZAMGARH	1761	1075.4	1432	0.8	2425.1	1693	1.0	2123.8	1607	0.9
349	Phoolpur-Pawai	AZAMGARH	1953	900.2	1477	0.8	2563.6	1896	1.0	2443.9	1823	0.9
350	Didarganj	AZAMGARH	2612	1364.8	2179	0.8	3097.1	2540	1.0	2895.8	2420	0.9
351	Lalganj (SC)	AZAMGARH	2742	1908.6	2516	0.9	3801.7	2691	1.0	3574.2	2613	1.0
352	Mehnagar (SC)	AZAMGARH	2838	1614.8	2349	0.8	3540.0	2749	1.0	3317.5	2667	0.9
353	Madhuban	MAU	2375	1461.1	1774	0.7	3369.3	2082	0.9	2840.8	2029	0.9
354	Ghosi	MAU	2246	2437.0	1980	0.9	4808.3	2208	1.0	4025.4	2134	1.0
355	Muhammadabad-Gohna (SC)	MAU	1892	1807.6	1760	0.9	3450.3	1883	1.0	3001.5	1855	1.0
356	Mau	MAU	1988	3264.8	1074	0.5	5889.9	1978	1.0	5164.9	1964	1.0
357	Belthara Road (SC)	BALLIA	2215	1380.7	1659	0.7	3787.2	2196	1.0	3162.7	2169	1.0
358	Rasara	BALLIA	2393	1145.6	1551	0.6	4047.2	2377	1.0	3488.6	2362	1.0
359	Sikanderpur	BALLIA	2440	1102.1	1674	0.7	3403.4	2290	0.9	3134.9	2256	0.9
360	Phephana	BALLIA	1630	642.4	1012	0.6	2182.0	1422	0.9	1976.1	1386	0.9
361	Ballia Nagar	BALLIA	2092	1972.1	1336	0.6	4386.4	1653	0.8	4295.3	1614	0.8
362	Bansdih	BALLIA	2387	1101.5	1508	0.6	3397.9	2056	0.9	3463.6	2045	0.9
363	Bairia	BALLIA	2343	971.7	1317	0.6	2831.2	1738	0.7	2831.2	1688	0.7
364	Badlapur	JAUNPUR	2380	614.4	1161	0.5	2475.3	2162	0.9	2392.4	1990	0.8
365	Shahganj	JAUNPUR	2286	802.0	1156	0.5	2835.5	2212	1.0	2917.2	2150	0.9
366	Jaunpur	JAUNPUR	1907	1038.8	1380	0.7	2683.3	1824	1.0	2887.1	1798	0.9
367	Malhani	JAUNPUR	2339	2234.2	1191	0.5	5581.3	2245	1.0	5493.1	2187	0.9
368	Mungra Badshahpur	JAUNPUR	2949	943.8	1320	0.4	3354.7	2798	0.9	3190.3	2636	0.9
369	Machhlishahr (SC)	JAUNPUR	2852	448.6	904	0.3	2965.0	2665	0.9	2829.1	2480	0.9
370	Mariyahu	JAUNPUR	1962	743.2	1028	0.5	2917.9	1928	1.0	2688.4	1857	0.9
371	Zafrabad	JAUNPUR	1742	664.4	968	0.6	2403.1	1703	1.0	2295.0	1598	0.9
372	Kerakat (SC)	JAUNPUR	2484	1345.3	1725	0.7	3304.4	2398	1.0	3032.2	2261	0.9
373	Jakhanian	GHAZIPUR	2793	1129.5	1808	0.6	3794.6	2756	1.0	3363.9	2661	1.0
374	Saidpur (SC)	GHAZIPUR	2209	1205.9	1549	0.7	3430.7	2153	1.0	3070.7	2075	0.9
375	Ghazipur	GHAZIPUR	2188	1799.4	1415	0.6	4278.4	2143	1.0	3969.6	2078	0.9
376	Jangipur (SC)	GHAZIPUR	2267	1115.1	1478	0.7	3362.8	2203	1.0	3017.8	2151	0.9
377	Zahoorabad	GHAZIPUR	2703	1366.9	1905	0.7	4223.0	2650	1.0	3581.8	2609	1.0
378	Mohammadabad	GHAZIPUR	2202	1237.4	1457	0.7	2665.0	1894	0.9	2237.0	1815	0.8
379	Zamania	GHAZIPUR	3151	1447.8	2085	0.7	3811.9	2852	0.9	3349.5	2762	0.9
380	Mughalsarai	CHANDAULI	1316	4271.5	1273	1.0	6630.5	1302	1.0	5828.8	1302	1.0
381	Sakaldiha	CHANDAULI	2057	1814.6	1895	0.9	3872.0	2031	1.0	3600.3	1986	1.0
382	Saiyadraja	CHANDAULI	2886	1575.4	2359	0.8	4127.8	2815	1.0	3556.9	2756	1.0
383	Chakia (SC)	CHANDAULI	6874	1635.0	2770	0.4	4524.4	3947	0.6	4092.0	3709	0.5
384	Pindra	VARANASI	1842	1142.7	1385	0.8	2713.6	1762	1.0	2308.8	1647	0.9
385	Ajagara (SC)	VARANASI	1628	1489.1	1451	0.9	3741.7	1578	1.0	3491.2	1541	0.9
386	Shivpur	VARANASI	1392	2807.7	1308	0.9	5440.9	1372	1.0	5328.7	1380	1.0
387	Rohaniya	VARANASI	1169	3621.4	1125	1.0	5303.5	1168	1.0	4739.0	1161	1.0
388	Varanasi North	VARANASI	241	4399.0	241	1.0	5643.4	241	1.0	5133.4	241	1.0
389	Varanasi South	VARANASI	35	1098.2	35	1.0	1317.0	35	1.0	1146.2	35	1.0
390	Varanasi Cantt.	VARANASI	210	3765.4	210	1.0	4410.3	210	1.0	3782.5	210	1.0
391	Sevapuri	VARANASI	1395	1036.5	1229	0.9	2463.7	1371	1.0	2418.0	1342	1.0
392	Bhadohi	SANT RAVIDAS NAGAR	2378	1997.5	1397	0.6	4740.9	2327	1.0	4402.8	2304	1.0
393	Gyanpur	SANT RAVIDAS NAGAR	1770	1000.2	1178	0.7	2968.7	1734	1.0	2907.3	1709	1.0

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		SANT RAVIDAS										
394	Aurai (SC)	NAGAR	1120	1278.0	906	0.8	2743.2	1110	1.0	2651.4	1106	1.0
395	Chhanbey (SC)	MIRZAPUR	7745	1018.5	1494	0.2	4069.5	4068	0.5	4037.9	3879	0.5
396	Mirzapur	MIRZAPUR	1410	967.3	952	0.7	1857.5	1128	0.8	1747.8	1121	0.8
397	Majhawan	MIRZAPUR	3566	3466.8	2085	0.6	7017.5	2982	0.8	6597.1	2972	0.8
398	Chunar	MIRZAPUR	2130	1580.9	1615	0.8	3762.9	2017	0.9	3640.2	1979	0.9
399	Marihan	MIRZAPUR	8384	1559.2	2353	0.3	5836.1	5400	0.6	5646.7	4959	0.6
400	Ghorawal	SONBHADRA	6045	1446.7	1669	0.3	3991.4	3738	0.6	3165.5	3432	0.6
401	Robertsganj	SONBHADRA	9282	1254.0	1544	0.2	2839.9	2937	0.3	2196.9	2502	0.3
402	Obra	SONBHADRA	7828	6802.9	2205	0.3	7311.6	2476	0.3	5973.4	2199	0.3
403	Duddhi (SC)	SONBHADRA	11647	6069.9	2559	0.2	8440.1	4036	0.3	7017.2	3414	0.3





Eastern UP Maps

No.	AC Name	District Name	Change in Total Radiance 2015-19	Percent Change in Total Radiance	Change in Total Radiance 2019-20	Percent Change in Total Radiance	Change in Lit Pixels 2015-19	Change in Percent Lit Pixels 2015-19	Change in Lit Pixels 2019-20	Change in Percent Lit Pixels 2019-20
187	Isauli		2105.0	2015-19	221.1	2019-20	1201	0.4	250.0	0.1
188	Sultannur		1512.0	291.1	-400.2	-7.9	307	0.4	-259.0	-0.1
180	Sadar		1512.9	5/·9	-400.5	-9.7	297	0.2	-380.0	-0.1
109	Lambhua		2505.5	527.0	-2/7.0	-0.5	676	0.5	-200.0	-0.1
190	Kadipur (SC)		17/5.0	100.3	-11/.5	-4.1	868	0.2	-192.0	-0.1
191			1044.4	197.2	-243.0	-0.0	500	0.3	-100.0	-0.1
244			115/./	107.4	-311.4	-13.9	>>>	0.2	-3/0.0	-0.1
245	Babagalij (3C)		302.3	14.0	-313./	-13.2	29	0.0	-409.0	-0.2
240	Richwaynathgani		354.1	77.0	220.0	8.6	7	0.0	-110.0	0.0
24/	Distrivavitatingarij		10/3.0	//.0	-330.0	-0.0	340	0.1	-231.0	-0.1
240	Pratapgarii		1/20.5	61.0	-25/.4	-0./	290	0.1	-141.0	-0.1
249	Patti		1/35.9	151./	-161.0	-5.6	684	0.2	-183.0	-0.1
250	Raniganj	PRATAPGARH	2110.0	241.6	-44./	-1.5	1053	0.4	-98.0	0.0
254	Phaphamau	ALLAHABAD	1886.0	62.5	-508.0	-10.4	374	0.1	-72.0	0.0
255	Soraon (SC)	ALLAHABAD	1708.1	201.9	-96.2	-3.8	900	0.5	-66.0	0.0
256	Phulpur	ALLAHABAD	6645.9	203.9	-4174.7	-42.1	500	0.2	-16.0	0.0
257	Pratappur	ALLAHABAD	2913.8	360.6	-181.3	-4.9	1763	0.7	-121.0	0.0
258	Handia	ALLAHABAD	1883.6	397.7	-169.8	-7.2	844	0.6	0.0	0.0
259	Meja	ALLAHABAD	1775.5	54.0	-420.1	-8.3	174	0.1	-30.0	0.0
260	Karachhana	ALLAHABAD	2602.8	49.1	-1618.6	-20.5	33	0.0	3.0	0.0
261	Allahabad West	ALLAHABAD	148.0	4.2	-817.5	-22.0	0	0.0	0.0	0.0
262	Allahabad North	ALLAHABAD	2261.3	71.9	-2629.0	-48.6	0	0.0	0.0	0.0
263	Allahabad South	ALLAHABAD	1796.6	34.8	-2750.7	-39.5	0	0.0	0.0	0.0
264	Bara (SC)	ALLAHABAD	2277.9	44.3	69.9	0.9	338	0.1	-122.0	0.0
265	Koraon (SC)	ALLAHABAD	2161.0	52.0	-172.5	-2.7	754	0.1	-308.0	0.0
271	Rudauli	BARABANKI	1837.6	158.7	-519.9	-17.4	1106	0.3	-578.0	-0.2
273	Milkipur (SC)	FAIZABAD	2168.2	173.4	-965.8	-28.3	1028	0.3	-724.0	-0.2
274	Bikapur	FAIZABAD	2130.5	116.8	-507.8	-12.8	495	0.2	-251.0	-0.1
275	Ayodhya	FAIZABAD	2162.3	49.4	-434.9	-6.7	211	0.1	-62.0	0.0
276	Goshainganj	FAIZABAD	1554.0	154.5	-628.4	-24.6	757	0.2	-478.0	-0.2
277	Katehari	AMBEDKAR NAGAR	3165.4	221.2	-1219.6	-26.5	1372	0.4	-430.0	-0.1
278	Tanda	AMBEDKAR NAGAR	1533.1	117.9	-517.4	-18.3	363	0.2	-123.0	-0.1
279	Alapur (SC)	AMBEDKAR NAGAR	1784.5	287.7	-247.9	-10.3	839	0.4	-71.0	0.0
280	Jalalpur	AMBEDKAR NAGAR	2167.7	182.3	-634.3	-18.9	1071	0.4	-371.0	-0.1
281	Akbarpur	AMBEDKAR NAGAR	1667.6	101.6	-610.6	-18.5	226	0.1	-124.0	-0.1
282	Balha (SC)	BAHRAICH	1366.4	237.6	-238.2	-12.3	1443	0.2	-512.0	-0.1
283	Nanpara	BAHRAICH	1148.6	101.9	-82.3	-3.6	871	0.2	-214.0	-0.1
284	Matera	BAHRAICH	1333.8	67.7	-317.4	-9.6	413	0.2	-116.0	0.0
285	Mahasi	BAHRAICH	2147.3	376.3	-262.5	-9.7	1770	0.4	-282.0	-0.1
286	Bahraich	BAHRAICH	1570.7	59.6	-255.7	-6.1	661	0.3	-113.0	-0.1
287	Payagpur	BAHRAICH	2226.4	260.5	-415.7	-13.5	1403	0.4	-355.0	-0.1
288	Kaiserganj	BAHRAICH	1595.1	223.4	-269.5	-11.7	957	0.3	-251.0	-0.1
289	Bhinga	SHRAWASTI	1099.7	67.4	-163.6	-6.0	643	0.1	-445.0	-0.1
290	Shrawasti	SHRAWASTI	1700.3	96.7	-192.8	-5.6	859	0.2	-357.0	-0.1
291	Tulsipur	BALRAMPUR	850.2	270.1	147.2	12.6	1057	0.2	-89.0	0.0
292	Gainsari	BALRAMPUR	1112.6	961.8	131.7	10.7	1690	0.3	-172.0	0.0
293	Utraula	BALRAMPUR	1619.4	161.4	-289.5	-11.0	1085	0.4	-377.0	-0.1
294	Balrampur (SC)	BALRAMPUR	1294.0	61.0	-221.1	-6.5	860	0.3	-330.0	-0.1
295	Mehnaun	GONDA	1242.9	94.6	-238.2	-9.3	662	0.2	-331.0	-0.1
296	Gonda	GONDA	1564.1	48.1	-581.5	-12.1	323	0.2	-64.0	0.0
297	Katra Bazar	GONDA	1783.8	117.4	-503.7	-15.2	611	0.2	-423.0	-0.1
298	Colonelganj	GONDA	1418.8	105.5	-350.3	-12.7	710	0.2	-488.0	-0.1





No.	AC Name	District Name	Change in Total Badiance 2015-19	Percent Change in Total Badiance	Change in Total Badiance 2019-20	Percent Change in Total Badiance	Change in Lit Pixels 2015-19	Change in Percent	Change in Lit Pixels 2019-20	Change in Percent
				2015-19		2019-20	1 1/(0.5 201) 19		1 1/(0) 2019 20	
299	Tarabgani	GONDA	1837.8	269.2	-158.1	-6.3	1421	0.4	-355.0	-0.1
300	Mankapur (SC)	GONDA	2751.6	187.2	-429.6	-10.2	1479	0.4	-241.0	-0.1
301	Gaura	GONDA	666.4	42.6	-323.4	-14.5	162	0.1	-282.0	-0.1
302	Shohratgarh	SIDDHARTHNAGAR	1096.6	137.3	-429.4	-22.7	719	0.2	-585.0	-0.2
303	Kapilvastu (SC)	SIDDHARTHNAGAR	1062.7	73.1	-209.4	-8.3	49	0.0	-173.0	-0.1
304	Bansi	SIDDHARTHNAGAR	1198.2	334.4	-430.4	-27.6	872	0.4	-413.0	-0.2
305	Itwa	SIDDHARTHNAGAR	548.0	119.8	-322.3	-32.1	529	0.2	-463.0	-0.2
306	Domariyaganj	SIDDHARTHNAGAR	947.7	99.0	-603.4	-31.7	547	0.2	-576.0	-0.2
307	Harraiya	BASTI	1691.1	68.9	-714.0	-17.2	446	0.1	-356.0	-0.1
308	Kaptanganj	BASTI	1200.0	87.1	-578.9	-22.5	384	0.1	-466.0	-0.2
309	Rudhauli	BASTI	1791.8	190.4	-1246.7	-45.6	800	0.2	-734.0	-0.2
310	Basti Sadar	BASTI	1134.7	51.7	-471.3	-14.2	221	0.1	-73.0	0.0
311	Mahadewa (SC)	BASTI	1590.0	133.8	-577.2	-20.8	828	0.2	-523.0	-0.2
312	Menhdawal	SANT KABIR NAGAR	1334.1	177.2	-181.3	-8.7	738	0.2	-156.0	0.0
313	Khalilabad	SANT KABIR NAGAR	1134.5	57.3	-458.6	-14.7	159	0.1	-234.0	-0.1
314	Dhanghata (SC)	SANT KABIR NAGAR	811.8	63.8	-698.5	-33.5	353	0.1	-460.0	-0.2
315	Pharenda	MAHARAJGANJ	812.5	51.5	-634.4	-26.5	142	0.1	-421.0	-0.2
316	Nautanwa	MAHARAJGANJ	1836.1	304.6	23.5	1.0	1542	0.4	-161.0	0.0
317	Siswa	MAHARAJGANJ	974.8	100.6	-294.3	-15.1	356	0.1	-305.0	-0.1
318	Maharajganj (SC)	MAHARAJGANJ	1657.0	151.1	-349.5	-12.7	728	0.2	-307.0	-0.1
319	Paniyra	MAHARAJGANJ	1823.9	218.6	-565.8	-21.3	1071	0.4	-353.0	-0.1
320	Caimpiyarganj	GORAKHPUR	1261.5	67.4	-420.0	-13.4	162	0.1	-218.0	-0.1
321	Pipraich	GORAKHPUR	1928.2	96.0	-303.5	-7.7	118	0.1	-100.0	0.0
322	Gorakhpur Urban	GORAKHPUR	3033.6	65.4	-31.9	-0.4	0	0.0	3.0	0.0
323	Gorakhpur Rural	GORAKHPUR	1666.8	42.3	-391.9	-7.0	22	0.0	-9.0	0.0
324	Sahajanwa	GORAKHPUR	2639.5	91.4	-584.7	-10.6	263	0.1	-95.0	0.0
325	Khajani (SC)	GORAKHPUR	1705.5	128.0	-701.3	-23.1	267	0.1	-181.0	-0.1
326	Chauri-Chaura	GORAKHPUR	2050.3	148.4	-368.0	-10.7	126	0.1	-41.0	0.0
327	Bansgaon (SC)	GORAKHPUR	1868.5	157.9	-393.9	-12.9	191	0.1	-55.0	0.0
328	Chillupar	GORAKHPUR	1778.0	113.7	-454.3	-13.6	201	0.1	-94.0	0.0
329	Khadda	KUSHINAGAR	1722.8	908.4	78.5	4.1	1677	0.6	-46.0	0.0
330	Padrauna	KUSHINAGAR	1595.1	298.8	-53.4	-2.5	1131	0.6	-105.0	-0.1
331	Tamkuhi Raj	KUSHINAGAR	1275.0	99.8	-181.6	-7.1	311	0.1	-86.0	0.0
332	Fazilnagar	KUSHINAGAR	1231.5	170.2	-161.3	-8.3	598	0.3	-146.0	-0.1
333	Kushinagar	KUSHINAGAR	1346.2	126.0	-113.1	-4.7	416	0.2	-53.0	0.0
334	Hata	KUSHINAGAR	2098.1	284.7	-293.5	-10.4	817	0.4	-110.0	-0.1
335	Ramkola (SC)	KUSHINAGAR	1627.3	309.5	-331.1	-15.4	935	0.5	-174.0	-0.1
336	Rudrapur	DEORIA	2325.3	296.9	-605.1	-19.5	640	0.3	-90.0	0.0
337	Deoria	DEORIA	2070.4	94.2	-222.1	-5.2	121	0.1	-19.0	0.0
338	Pathardeva	DEORIA	1706.5	290.1	-365.1	-15.9	1022	0.5	-103	-0.0
339	Rampur Karkhana	DEORIA	1943.8	171.0	-483.1	-15.7	373	0.2	-23.0	0.0
340	Bhatpar Rani	DEORIA	1605.2	132.8	-509.9	-18.1	237	0.1	-74.0	0.0
341	Salempur (SC)	DEORIA	1518.7	108.2	-485.3	-16.6	124	0.1	-28.0	0.0
342	Barhaj	DEORIA	1583.7	202.1	-398.8	-16.8	334	0.2	-41.0	0.0
343	Atrauliya	AZAMGARH	1456.3	96.6	-234.6	-7.9	207	0.1	-63.0	0.0
344	Gopalpur	AZAMGARH	1770.0	127.3	-420.4	-13.3	396	0.2	-84.0	0.0
345	Sagri	AZAMGARH	1111.2	78.3	-609.2	-24.1	202	0.1	-290.0	-0.1
346	Mubarakpur	AZAMGARH	1682.8	88.9	-568.3	-15.9	86	0.0	-75.0	0.0
347	Azamgarh	AZAMGARH	1590.5	53.7	-438.1	-9.6	87	0.1	-37.0	0.0
348	Nizamabad	AZAMGARH	1349.6	125.5	-301.3	-12.4	261	0.1	-86.0	0.0
349	Phoolpur-Pawai	AZAMGARH	1663.5	184.8	-119.7	-4.7	419	0.2	-73.0	0.0
350	Didarganj	AZAMGARH	1732.3	126.9	-201.3	-6.5	361	0.1	-120.0	0.0
351	Lalganj (SC)	AZAMGARH	1893.0	99.2	-227.5	-6.0	175	0.1	-78.0	0.0

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No.	AC Name	District Name	Change in Total Radiance 2015-19	Percent Change in Total Radiance 2015-19	Change in Total Radiance 2019-20	Percent Change in Total Radiance 2019-20	Change in Lit Pixels 2015-19	Change in Percent Lit Pixels 2015-19	Change in Lit Pixels 2019-20	Change in Percent Lit Pixels 2019-20
352	Mehnagar (SC)	AZAMGARH	1925.2	119.2	-222.5	-6.3	400	0.1	-82.0	0.0
353	Madhuban	MAU	1908.2	130.6	-528.5	-15.7	308	0.1	-53.0	0.0
354	Ghosi	MAU	2371.2	97.3	-782.8	-16.3	228	0.1	-74.0	0.0
355	Muhammadabad-Gohna (SC)	MAU	1642.7	90.9	-448.8	-13.0	123	0.1	-28.0	0.0
356	Mau	MAU	2625.1	80.4	-725.0	-12.3	904	0.5	-14.0	0.0
357	Belthara Road (SC)	BALLIA	2406.6	174.3	-624.5	-16.5	537	0.2	-27.0	0.0
358	Rasara	BALLIA	2901.6	253.3	-558.6	-13.8	826	0.3	-15.0	0.0
359	Sikanderpur	BALLIA	2301.3	208.8	-268.5	-7.9	616	0.3	-34.0	0.0
360	Phephana	BALLIA	1539.6	239.7	-205.9	-9.4	410	0.3	-36.0	0.0
361	Ballia Nagar	BALLIA	2414.2	122.4	-91.1	-2.1	317	0.2	-39.0	0.0
362	Bansdih	BALLIA	2296.4	208.5	65.8	1.9	548	0.2	-11.0	0.0
363	Bairia	BALLIA	1859.5	191.4	0.0	0.0	421	0.2	-50.0	0.0
364	Badlapur	JAUNPUR	1860.9	302.9	-82.9	-3.4	1001	0.4	-172.0	-0.1
365	Shahganj	JAUNPUR	2033.5	253.5	81.8	2.9	1056	0.5	-62.0	0.0
366	Jaunpur	JAUNPUR	1644.5	158.3	203.8	7.6	444	0.2	-26.0	0.0
367	Malhani	JAUNPUR	3347.1	149.8	-88.2	-1.6	1054	0.5	-58.0	0.0
368	Mungra Badshahpur	JAUNPUR	2410.9	255.4	-164.4	-4.9	1478	0.5	-162.0	-0.1
369	Machhlishahr (SC)	JAUNPUR	2516.4	561.0	-135.9	-4.6	1761	0.6	-185.0	-0.1
370	Mariyahu	JAUNPUR	2174.8	292.6	-229.5	-7.9	900	0.5	-71.0	0.0
371	Zafrabad	JAUNPUR	1738.7	261.7	-108.0	-4.5	735	0.4	-105.0	-0.1
372	Kerakat (SC)	JAUNPUR	1959.1	145.6	-272.2	-8.2	673	0.3	-137.0	-0.1
373	Jakhanian	GHAZIPUR	2665.1	236.0	-430.7	-11.4	948	0.3	-95.0	0.0
374	Saidpur (SC)	GHAZIPUR	2224.8	184.5	-360.0	-10.5	604	0.3	-78.0	0.0
375	Ghazipur	GHAZIPUR	2479.0	137.8	-308.8	-7.2	728	0.3	-65.0	0.0
376	Jangipur (SC)	GHAZIPUR	2247.6	201.6	-345.0	-10.3	725	0.3	-52.0	0.0
377	Zahoorabad	GHAZIPUR	2856.1	208.9	-641.2	-15.2	745	0.3	-41.0	0.0
378	Mohammadabad	GHAZIPUR	1427.6	115.4	-427.9	-16.1	437	0.2	-79.0	0.0
379	Zamania	GHAZIPUR	2364.2	163.3	-462.5	-12.1	767	0.2	-90.0	0.0
380	Mughalsarai	CHANDAULI	2359.0	55.2	-801.8	-12.1	29	0.0	0.0	0.0
381	Sakaldiha	CHANDAULI	2057.5	113.4	-271.7	-7.0	136	0.1	-45.0	0.0
382	Saiyadraja	CHANDAULI	2552.4	162.0	-571.0	-13.8	456	0.2	-59.0	0.0
383	Chakia (SC)	CHANDAULI	2889.4	176.7	-432.4	-9.6	1177	0.2	-238.0	0.0
384	Pindra	VARANASI	1570.9	137.5	-404.9	-14.9	377	0.2	-115.0	-0.1
385	Ajagara (SC)	VARANASI	2252.6	151.3	-250.5	-6.7	127	0.1	-37.0	0.0
386	Shivpur	VARANASI	2633.2	93.8	-112.2	-2.1	64	0.0	8.0	0.0
387	Rohaniya	VARANASI	1682.1	46.4	-564.5	-10.6	43	0.0	-7.0	0.0
388	Varanasi North	VARANASI	1244.4	28.3	-510.0	-9.0	0	0.0	0.0	0.0
389	Varanasi South	VARANASI	218.8	19.9	-170.8	-13.0	0	0.0	0.0	0.0
390	Varanasi Cantt.	VARANASI	644.9	17.1	-627.7	-14.2	0	0.0	0.0	0.0
391	Sevapuri	VARANASI	1427.2	137.7	-45.8	-1.9	142	0.1	-29.0	0.0
392	Bhadohi	SANT RAVIDAS NAGAR	2743.5	137.3	-338.1	-7.1	930	0.4	-23.0	0.0
393	Gyanpur	SANT RAVIDAS NAGAR	1968.5	196.8	-61.4	-2.1	556	0.3	-25.0	0.0
394	Aurai (SC)	SANT RAVIDAS NAGAR	1465.1	114.6	-91.7	-3.3	204	0.2	-4.0	0.0
395	Chhanbey (SC)	MIRZAPUR	3051.0	299.6	-31.6	-0.8	2574	0.3	-189.0	0.0
396	Mirzapur	MIRZAPUR	890.2	92.0	-109.7	-5.9	176	0.1	-7.0	0.0
397	Majhawan	MIRZAPUR	3550.7	102.4	-420.3	-6.0	897	0.3	-10.0	0.0
398	Chunar	MIRZAPUR	2182.0	138.0	-122.7	-3.3	402	0.2	-38.0	0.0
399	Marihan	MIRZAPUR	4276.9	274.3	-189.4	-3.2	3047	0.4	-441.0	-0.1
400	Ghorawal	SONBHADRA	2544.7	175.9	-825.9	-20.7	2069	0.3	-306.0	-0.1
401	Robertsganj	SONBHADRA	1585.9	126.5	-643.0	-22.6	1393	0.2	-435.0	0.0
402	Obra	SONBHADRA	508.7	7.5	-1338.2	-18.3	271	0.0	-277.0	0.0
403	Duddhi (SC)	SONBHADRA	2370.2	39.0	-1422.9	-16.9	1477	0.1	-622.0	-0.1

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Central UP

No.	AC Name	District Name	Total Pixels	Total Radiance 2015	Lit Pixels 2015	Percent Lit Pixels 2015	Total Radiance	Lit Pixels 2019	Percent Lit Pixels 2019	Total Radiance 2020	Lit Pixels 2020	Percent Lit Pixels 2020
24	Supr		2080	1886 7	16.08	0.8	2019	1995		2828.4	1767	0.8
34	Chamraua		2080	1000./	1000	0.8	3093.4	2481	0.9	2020.4	1/0/	0.0
35	Rilacour		2/05	4392.4	2053	0.7	5417.2	2401	0.9	4430.0	229/	0.8
30	Bilaspui		4303	2444.1	3002	0.7	45/5-3	30//	0.9	41/9.9	<u> </u>	0.0
3/	Rampul Milak (SC)		/52	1020.3	053	0.9	1013.2	709	0.9	1403.4	009	0.9
30	MildK (SC)		20/1	002.4	1107	0.4	2230./	2191	0.0	1990.0	2014	0.0
95			2000	4991.1	2022	1.0	5599.1	2053	1.0	4920.9	2515	0.9
90	Jasialla		3055	14/2.5	2149	0.0	30/9.0	30/0	1.0	3005.0	3453 85	0.9
9/	FILOZADAU		05	22/9.4	05	1.0	1040.5	05	1.0	1403.2	05	1.0
90	Shikohada		2939	0214.0	2020	0.9	/395.9	2002	1.0	0/59.0	2/00	0.9
99	Sirsaganj	FIROZABAD	2846	2107.8	2092	0./	4006.7	2693	0.9	3848.8	2500	0.9
100	Kasganj	ETAH	3212	1909.7	1981	0.6	4350.6	2914	0.9	4067.6	2787	0.9
101	Amanpur	ETAH	2928	916.7	1601	0.5	2475.5	2693	0.9	2325.3	2428	0.8
102	Patiyali	EIAH	4350	1413.1	2177	0.5	2797.6	3274	0.8	2588.6	2884	0.7
103	Aliganj	EIAH	3390	598.9	1184	0.3	3393.8	3292	1.0	2797.8	2932	0.9
104	Etah	EIAH	2833	1066.4	733	0.3	3509.1	2530	0.9	3441.4	2245	0.8
105	Marhara	ETAH	3052	1026.2	1301	0.4	3822.8	3006	1.0	3617.2	2880	0.9
106	Jalesar (SC)	ETAH	3632	2506.7	2734	0.8	3912.5	3463	1.0	3574.8	3274	0.9
107	Mainpuri	MAINPURI	2716	3788.0	2572	0.9	4663.4	2642	1.0	4428.3	2586	1.0
108	Bhongaon	MAINPURI	2655	2713.7	2499	0.9	3342.4	2600	1.0	3086.8	2411	0.9
109	Kishani (SC)	MAINPURI	4777	4649.9	4346	0.9	6263.4	4681	1.0	5513.9	4417	0.9
110	Karhal	MAINPURI	4319	5633.4	4047	0.9	6229.2	4167	1.0	5129.7	3734	0.9
112	Bisauli (SC)	BUDAUN	3351	1619.6	2249	0.7	3883.8	3163	0.9	3704.3	3071	0.9
113	Sahaswan	BUDAUN	4700	1267.5	2219	0.5	3710.9	3816	0.8	3452.0	3575	0.8
114	Bilsi	BUDAUN	3484	1169.2	1808	0.5	3126.7	2952	0.8	2810.1	2728	0.8
115	Badaun	BUDAUN	2357	1745.8	1468	0.6	2963.2	2233	0.9	2689.3	2065	0.9
116	Shekhupur	BUDAUN	4132	1542.4	1681	0.4	3496.9	3252	0.8	3129.3	2844	0.7
117	Dataganj	BUDAUN	4468	432.8	896	0.2	2394.2	3023	0.7	2183.6	2630	0.6
118	Baheri	BAREILLY	2948	1146.0	1544	0.5	3023.1	2696	0.9	2799.6	2404	0.8
119	Meerganj	BAREILLY	2890	1072.5	1496	0.5	2808.2	2506	0.9	2712.0	2267	0.8
120	Bhojipura	BAREILLY	3068	3625.0	2123	0.7	6523.2	2987	1.0	6265.2	2742	0.9
121	Nawabganj	BAREILLY	3285	686.7	978	0.3	3196.0	2878	0.9	2952.6	2513	0.8
122	Faridpur (SC)	BAREILLY	3606	1133.1	1324	0.4	3253.9	2946	0.8	3031.8	2503	0.7
123	Bithari Chainpur	BAREILLY	2794	2991.3	1960	0.7	5287.1	2573	0.9	5040.6	2457	0.9
124	Bareilly	BAREILLY	369	3238.7	368	1.0	4059.3	367	1.0	3793.9	367	1.0
125	Bareilly Cantt.	BAREILLY	170	2401.9	170	1.0	2994.7	170	1.0	2681.4	170	1.0
126	Aonla	BAREILLY	2739	723.3	1115	0.4	2775.9	2550	0.9	2633.6	2406	0.9
127	Pilibhit	PILIBHIT	2504	938.2	1532	0.6	1738.1	1924	0.8	1318.8	1485	0.6
128	Barkhera	PILIBHIT	5425	1825.5	1780	0.3	3302.5	2628	0.5	2960.2	2080	0.4
129	Puranpur (SC)	PILIBHIT	7100	688.1	1154	0.2	1685.3	1992	0.3	1423.0	1563	0.2
130	Bisalpur	PILIBHIT	3601	409.0	786	0.2	1665.4	1972	0.5	1271.4	1291	0.4
131	Katra	SHAHJAHANPUR	4953	737.6	1418	0.3	3553.1	3972	0.8	3219.7	3402	0.7
132	Jalalabad	SHAHJAHANPUR	3329	507.5	907	0.3	2359.7	2600	0.8	2235.6	2243	0.7
133	Tilhar	SHAHJAHANPUR	3707	707.3	1030	0.3	3214.2	3309	0.9	2953.8	2861	0.8
134	Powayan (SC)	SHAHJAHANPUR	6747	996.5	1350	0.2	3880.8	4395	0.7	3761.1	3827	0.6
135	Shahjahanpur	SHAHJAHANPUR	1033	2842.9	804	0.8	3782.7	1013	1.0	3381.5	986	1.0
136	Dadraul	SHAHJAHANPUR	4374	3528.1	2125	0.5	6019.9	3989	0.9	5791.6	3545	0.8
137	Palia	KHERI	10318	1075.1	1889	0.2	3271.4	3765	0.4	3132.9	3336	0.3
138	Nighasan	KHERI	5760	455.1	972	0.2	2803.5	3330	0.6	2557.0	2925	0.5
139	Gola Gokrannath	KHERI	4678	1526.8	1880	0.4	3692.0	3358	0.7	3322.1	2969	0.6
140	Sri Nagar (SC)	KHERI	4305	1208.2	1893	0.4	3744.5	3625	0.8	3247.4	3253	0.8
141	Dhaurahra	KHERI	4954	720.8	1509	0.3	2928.8	3265	0.7	3003.0	3085	0.6





No.	AC Name	District Name	Total Pixels	Total Radiance	Lit Pixels 2015	Percent Lit	Total	Lit Pixels 2019	Percent Lit	Total Radiance	Lit Pixels 2020	Percent Lit
				2015		Pixels 2015	Radiance		Pixels 2019	2020		Pixels 2020
							2019					
142	Lakhimpur	KHERI	2495	2652.3	1849	0.7	5004.2	2292	0.9	4505.6	2153	0.9
143	Kasta (SC)	KHERI	3632	547.3	1157	0.3	3084.3	3309	0.9	2501.2	2698	0.7
144	Mohammdi	KHERI	4430	931.7	1386	0.3	4180.3	3845	0.9	3867.5	3245	0.7
145	Maholi	SITAPUR	4705	806.2	1427	0.3	3779.8	4049	0.9	3355.8	3391	0.7
146	Sitapur	SITAPUR	1477	2121.6	968	0.7	4027.2	1432	1.0	3884.1	1342	0.9
147	Hargaon (SC)	SITAPUR	3480	675.8	1012	0.3	2733.3	2850	0.8	2610.0	2482	0.7
148	Laharpur	SITAPUR	3256	406.1	806	0.2	2553.6	2766	0.8	2478.8	2319	0.7
149	Biswan	SITAPUR	3153	623.5	867	0.3	2290.2	2466	0.8	1941.1	1821	0.6
150	Sevata	SITAPUR	3756	370.8	904	0.2	2127.5	2734	0.7	1931.4	2390	0.6
151	Mahmoodabad	SITAPUR	2973	731.9	1402	0.5	1708.0	2039	0.7	1414.8	1459	0.5
152	Sidhauli (SC)	SITAPUR	3536	627.7	1073	0.3	3012.5	3057	0.9	2710.1	2564	0.7
153	Misrikh (SC)	SITAPUB	3860	333.5	552	0.1	3252.1	3370	0.9	3130.0	3058	0.8
15/	Sawaiinur	HABDOI	5206	361.3	772	0.1	27/83	3688	0.7	23/5 3	2063	0.6
155	Shahahad	HARDOI	3002	500.8	014	0.7	2/40.5	2127	0.7	2,704.7	2905	0.0
156	Hardoi	HARDOI	2477	1607.5	1522	0.2	3765.5	2118	0.0	2/94.7	2540	0.0
157		HARDOI	2761	200.5	528	0.4	3703.3	717	0.9	2084.0	2099	0.0
157	Sandi (SC)		4112	1290.5	1202	0.2	2393.4	2/1/	0.0	2004.9	2200	0.7
150	Bildram Mallanwan		4112	6575	1295	0.5	3224.0	3207	0.0	1888 2	2/01	0.7
159	Balamau (SC)		4854	670.2	1150	0.5	2020.9	2000	0.0	1000.5	2014	0.5
100	Sandila Sandila		2862	0/0.3	1231	0.3	2021.9	3340	0.7	2329.5	2550	0.5
160	Pandormau		2003	/23·3	044	0.3	2100.1	20//	0.7	2000.5	1/04	0.0
162	Safigur (SC)		3000	500.1	924	0.2	2309.0	2302	0.0	2103.1	1900	0.5
103	Mohan (SC)		3503	399.2	/20	0.2	2159.0	2550	0./	1932.9	20//	0.0
104	Monali (SC)		303/	1593.2	2005	0.6	3552.2	3144	0.9	3340.3	2029	0.0
105	Dhagwantnagar		2/00	4/05.0	1/34	0.0	0334./	2204	0.0	0104.1	2021	0./
100	Bhagwanthagar		4050	1130.3	1918	0.4	3313.2	3030	0./	2//9.4	20//	0.6
167			5310	1348.8	23/1	0.4	3/86.0	4113	0.8	3161.6	32/9	0.6
100			3312	5103.2	3200	1.0	6398.8	3200	1.0	5/94.3	316/	1.0
169			2/28	13832.6	269/	1.0	16584.2	2/08	1.0	155//.2	2669	1.0
170	Sarojini Nagar	LUCKNOW	2432	14676.2	2383	1.0	20612.3	2413	1.0	18274.2	2385	1.0
171	Lucknow West	LUCKNOW	266	7203.3	266	1.0	8549.3	266	1.0	7753.1	266	1.0
172		LUCKNOW	230	8022.7	230	1.0	9446.2	230	1.0	8601.3	230	1.0
173	Lucknow East	LUCKNOW	224	9236.8	224	1.0	10694.7	224	1.0	9603.4	224	1.0
174	Lucknow Central	LUCKNOW	164	9172.5	164	1.0	8555.0	164	1.0	7391.7	164	1.0
175	Lucknow Cantt.	LUCKNOW	275	7329.6	275	1.0	8295.9	275	1.0	7413.8	275	1.0
176	Mohanlalganj (SC)	LUCKNOW	3577	5095.3	3423	1.0	6667.6	3274	0.9	5893.1	2909	0.8
177	Bachhrawan (SC)	RAE BARELI	4249	696.6	1006	0.2	3449.9	3466	0.8	2977.4	2949	0.7
178		RAE BARELI	3483	1275.5	1472	0.4	3805.1	3176	0.9	3322.0	2881	0.8
179	Harchandpur	RAE BARELI	3471	1778.9	2571	0.7	3392.2	3132	0.9	2959.3	2780	0.8
180	Rae Bareli	RAE BARELI	2814	3743.3	1501	0.5	6817.0	2642	0.9	5896.6	2391	0.8
181	Salon (SC)	RAE BARELI	3154	498.4	896	0.3	2761.5	2765	0.9	2460.7	2503	0.8
182	Sareni	RAE BARELI	3858	3090.2	2910	0.8	5157.0	3601	0.9	4812.3	3396	0.9
183	Unchahar	RAE BARELI	2941	2350.6	1924	0.7	4064.8	2663	0.9	3883.0	2500	0.9
184	Jagdishpur (SC)	SULTANPUR	2993	1604.6	2049	0.7	4024.8	2904	1.0	3576.6	2649	0.9
185	Gauriganj	SULTANPUR	3450	1884.6	2466	0.7	4265.6	3296	1.0	3986.2	3134	0.9
186	Amethi	SULTANPUR	3079	1598.4	2386	0.8	3493.5	2938	1.0	3495.2	2759	0.9
192	Kaimganj (SC)	FARRUKHABAD	4043	367.0	519	0.1	2403.9	2839	0.7	2341.6	2444	0.6
193	Amritpur	FARRUKHABAD	3547	336.5	729	0.2	1929.8	2498	0.7	1950.3	2279	0.6
194	Farrukhabad	FARRUKHABAD	916	2029.5	644	0.7	2685.6	849	0.9	2469.8	850	0.9
195	Bhojpur	FARRUKHABAD	2963	688.0	1072	0.4	2857.8	2720	0.9	2747.4	2508	0.8
196	Chhibramau	KANNAUJ	3098	4024.8	2973	1.0	3983.8	2967	1.0	3334.1	2619	0.8
197	Tirwa	KANNAUJ	4445	3191.2	3652	0.8	3908.5	3909	0.9	3104.7	2890	0.7
198	Kannauj (SC)	KANNAUJ	3410	5687.2	3150	0.9	5233.1	3092	0.9	4924.4	2869	0.8
199	Jaswantnagar	ETAWAH	4024	7085.5	3925	1.0	7653.0	3968	1.0	6831.1	3880	1.0

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No.	AC Name	District Name	Total Pixels	Total Radiance	Lit Pixels 2015	Percent Lit	Total	Lit Pixels 2019	Percent Lit	Total Radiance	Lit Pixels 2020	Percent Lit
				2015		Pixels 2015	Radiance		Pixels 2019	2020		Pixels 2020
							2019					
200	Etawah	ETAWAH	2782	7472.6	2546	0.9	7010.6	2598	0.9	5968.1	2426	0.9
201	Bharthana (SC)	ETAWAH	5403	5408.4	4448	0.8	6514.7	4740	0.9	6006.7	4275	0.8
202	Bidhuna	AURAIYA	4244	3580.5	3765	0.9	4346.3	3969	0.9	4170.6	3637	0.9
203	Dibiyapur	AURAIYA	3425	11184.2	2814	0.8	10402.5	3350	1.0	10860.1	3180	0.9
204	Auraiya (SC)	AURAIYA	2737	1601.9	1573	0.6	3545.1	2313	0.8	3444.9	2033	0.7
205	Rasulabad (SC)	KANPUR DEHAT	4525	1614.5	2297	0.5	3282.7	3373	0.7	3267.0	2969	0.7
206	Akbarpur-Raniya	KANPUR DEHAT	3426	3850.2	2503	0.7	6140.4	3013	0.9	5696.1	2690	0.8
207	Sikandra	KANPUR DEHAT	4468	1417.8	2253	0.5	3228.6	3512	0.8	2594.5	2646	0.6
208	Bhognipur	KANPUR DEHAT	4163	1847.5	2303	0.6	3164.3	3276	0.8	3031.6	2834	0.7
209	Bilhaur (SC)	KANPUR NAGAR	4456	1713.8	2033	0.5	4068.2	3527	0.8	3917.9	3276	0.7
210	Bithoor	KANPUR NAGAR	3524	4380.7	2252	0.6	7295.4	3379	1.0	7264.9	3170	0.9
211	Kalyanpur	KANPUR NAGAR	368	6431.3	368	1.0	8303.2	368	1.0	8994.8	368	1.0
212	Govindnagar	KANPUR NAGAR	232	5813.1	232	1.0	6573.4	232	1.0	6477.3	232	1.0
213	Sishamau	KANPUR NAGAR	25	1007.6	25	1.0	1128.0	25	1.0	1087.1	25	1.0
214	Arya Nagar	KANPUR NAGAR	57	1557.1	57	1.0	1712.6	57	1.0	1561.7	57	1.0
215	Kidwai Nagar	KANPUR NAGAR	109	3864.0	109	1.0	4506.8	109	1.0	4620.7	109	1.0
216	Kanpur Cantt.	KANPUR NAGAR	204	3994.3	204	1.0	4547.8	204	1.0	4453.4	204	1.0
217	Maharajpur	KANPUR NAGAR	1845	4263.3	1474	0.8	6503.4	1785	1.0	6669.7	1693	0.9
218	Ghatampur (SC)	KANPUR NAGAR	4803	770.6	1440	0.3	4871.6	3918	0.8	4111.5	3361	0.7
238	Jahanabad	FATEHPUR	4409	1635.2	1984	0.4	3514.9	3697	0.8	3293.0	3347	0.8
239	Bindki	FATEHPUR	3173	2494.6	2400	0.8	3744.0	3040	1.0	3816.0	2931	0.9
240	Fatehpur	FATEHPUR	2933	3146.1	1760	0.6	4350.4	2659	0.9	4271.0	2533	0.9
241	Ayah Shah	FATEHPUR	3748	305.4	699	0.2	2358.0	2902	0.8	2273.2	2656	0.7
242	Husainganj	FATEHPUR	3261	405.7	779	0.2	2513.6	2820	0.9	2479.5	2609	0.8
243	Khaga (SC)	FATEHPUR	3964	785.7	1300	0.3	2816.7	3165	0.8	2935.1	2969	0.7
251	Sirathu	KAUSHAMBI	3096	2035.0	2501	0.8	3179.5	2740	0.9	3494.6	2721	0.9
252	Manjhanpur (SC)	KAUSHAMBI	3611	1149.0	1695	0.5	2657.2	2931	0.8	2621.7	2751	0.8
253	Chail	KAUSHAMBI	3712	7531.5	2922	0.8	10094.5	3512	0.9	8926.7	3495	0.9
266	Kursi	BARABANKI	3692	1535.8	1942	0.5	3864.2	3143	0.9	3403.3	2625	0.7
267	Ram Nagar	BARABANKI	3558	817.6	1457	0.4	2541.4	2798	0.8	1876.9	2196	0.6
268	Barabanki	BARABANKI	2523	3992.9	2193	0.9	6079.4	2434	1.0	5307.4	2188	0.9
269	Zaidpur (SC)	BARABANKI	2842	1522.0	2057	0.7	3301.5	2630	0.9	2635.6	2124	0.7
270	Dariyabad	BARABANKI	3942	1066.5	1905	0.5	3035.8	3066	0.8	2481.9	2498	0.6
272	Haidergarh (SC)	BARABANKI	3264	879.5	1517	0.5	3403.4	2804	0.9	2725.8	2302	0.7

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Central UP Maps

No.	AC Name	District Name	Change in Total Radiance 2015-19	Percent Change in Total Radiance 2015-19	Change in Total Radiance 2019-20	Percent Change in Total Radiance 2019-20	Change in Lit Pixels 2015-19	Change in Percent Lit Pixels 2015-19	Change in Lit Pixels 2019-20	Change in Percent Lit Pixels 2019-20
34	Suar	RAMPUR	1206.8	64.0	-265.0	-8.6	277	0.1	-118.0	-0.1
35	Chamraua	RAMPUR	1024.8	23.3	-980.6	-18.1	428	0.2	-184.0	-0.1
36	Bilaspur	RAMPUR	2131.3	87.2	-395.5	-8.6	675	0.2	-433.0	-0.1
37	Rampur	RAMPUR	184.9	11.4	-349.8	-19.3	56	0.1	-20.0	0.0
38	Milak (SC)	RAMPUR	1436.3	179.0	-248.7	-11.1	1004	0.4	-177.0	-0.1
95	Tundla (SC)	FIROZABAD	608.1	12.2	-678.3	-12.1	31	0.0	-138.0	-0.1
96	Jasrana	FIROZABAD	2406.5	163.4	-193.2	-5.0	1529	0.4	-225.0	-0.1
97	Firozabad	FIROZABAD	-630.9	-27.7	-165.3	-10.0	0	0.0	0.0	0.0
98	Shikohabad	FIROZABAD	1181.1	19.0	-636.2	-8.6	256	0.1	-96.0	0.0
99	Sirsagani	FIROZABAD	1898.9	90.1	-157.9	-3.9	601	0.2	-193.0	-0.1
100	Kasgani	FTAH	2440.0	127.8	-283.0	-6.5	033	0.3	-127.0	0.0
100	Amannur	FTAH	1558.8	170.0	-150.2	-6.1	1007	0.1	-265.0	-0.1
107	Pativali	FTAH	1384 5	08.0	-200.0	-7 5	1092	0.3	-300.0	-0.1
102	Aligani	ЕТАН	2705.0	90.0 466 7	-506.1	-17.6	2108	0.5	-260.0	-0.1
103	Ftah	ЕТАН	2/93:0	220.1	-67.7	-10	1707	0.0	-285.0	-0.1
104	Marbara	ETAH	2442.7	229.1	-07.7	-1.9	1797	0.0	-205.0	-0.1
105	Inditiala		2/90.0	2/2·5	-203.7	-3.4	770	0.0	-120.0	-0.1
100	Jalesal (SC)		875.4	50.1	-337.7	-0.0	729	0.2	-189.0	-0.1
107	Phongaon		678.6	23.1	-235.1	-5.0	/0	0.0	-50.0	0.0
100	Kichopi (SC)		020.0	23.2	-255.0	-/.0	101	0.0	-169.0	-0.1
109	Kishahi (SC)		1013.5	34./	-/49.4	-12.0	335	0.1	-264.0	-0.1
110			595.0	10.0	-1099.5	-1/./	120	0.0	-433.0	-0.1
112	Bisauli (SC)	BUDAUN	2264.2	139.8	-1/9.5	-4.0	914	0.3	-92.0	0.0
113	Sanaswan	BUDAUN	2443.4	192.8	-258.9	-7.0	1597	0.3	-241.0	-0.1
114	BIISI	BUDAUN	1957.6	167.4	-316.7	-10.1	1144	0.3	-224.0	-0.1
115	Badaun	BUDAUN	1217.4	69.7	-274.0	-9.2	765	0.3	-168.0	-0.1
116	Shekhupur	BUDAUN	1954.4	126.7	-367.5	-10.5	1571	0.4	-408.0	-0.1
117	Dataganj	BUDAUN	1961.3	453.2	-210.5	-8.8	2127	0.5	-393.0	-0.1
118	Baheri	BAREILLY	1877.1	163.8	-223.5	-7.4	1152	0.4	-292.0	-0.1
119	Meerganj	BAREILLY	1735.7	161.8	-96.2	-3.4	1010	0.3	-239.0	-0.1
120	Bhojipura	BAREILLY	2898.2	79.9	-258.0	-4.0	864	0.3	-245.0	-0.1
121	Nawabganj	BAREILLY	2509.4	365.4	-243.4	-7.6	1900	0.6	-365.0	-0.1
122	Faridpur (SC)	BAREILLY	2120.8	187.2	-222.1	-6.8	1622	0.4	-443.0	-0.1
123	Bithari Chainpur	BAREILLY	2295.8	76.8	-246.5	-4.7	613	0.2	-116.0	0.0
124	Bareilly	BAREILLY	820.5	25.3	-265.4	-6.5	-1	0.0	0.0	0.0
125	Bareilly Cantt.	BAREILLY	592.8	24.7	-313.2	-10.5	0	0.0	0.0	0.0
126	Aonla	BAREILLY	2052.6	283.8	-142.3	-5.1	1435	0.5	-144.0	-0.1
127	Pilibhit	PILIBHIT	799.9	85.3	-419.3	-24.1	392	0.2	-439.0	-0.2
128	Barkhera	PILIBHIT	1476.9	80.9	-342.3	-10.4	848	0.2	-548.0	-0.1
129	Puranpur (SC)	PILIBHIT	997.2	144.9	-262.3	-15.6	838	0.1	-429.0	-0.1
130	Bisalpur	PILIBHIT	1256.4	307.2	-393.9	-23.7	1186	0.3	-681.0	-0.2
131	Katra	SHAHJAHANPUR	2815.5	381.7	-333.4	-9.4	2554	0.5	-570.0	-0.1
132	Jalalabad	SHAHJAHANPUR	1852.2	365.0	-124.1	-5.3	1693	0.5	-357.0	-0.1
133	Tilhar	SHAHJAHANPUR	2506.9	354.4	-260.4	-8.1	2279	0.6	-448.0	-0.1
134	Powayan (SC)	SHAHJAHANPUR	2884.3	289.5	-119.7	-3.1	3045	0.5	-568.0	-0.1
135	Shahjahanpur	SHAHJAHANPUR	939.8	33.1	-401.1	-10.6	209	0.2	-27.0	0.0
136	Dadraul	SHAHJAHANPUR	2491.8	70.6	-228.3	-3.8	1864	0.4	-444.0	-0.1
137	Palia	KHERI	2196.3	204.3	-138.5	-4.2	1876	0.2	-429.0	0.0
138	Nighasan	KHERI	2348.4	516.0	-246.5	-8.8	2358	0.4	-405.0	-0.1
139	Gola Gokrannath	KHERI	2165.2	141.8	-369.9	-10.0	1478	0.3	-389.0	-0.1
140	Sri Nagar (SC)	KHERI	2536.3	209.9	-497.0	-13.3	1732	0.4	-372.0	-0.1
141	Dhaurahra	KHERI	2208.0	306.3	74.2	2.5	1756	0.4	-180.0	0.0





No.	AC Name	District Name	Change in Total	Percent Change in	Change in Total	Percent Change in	Change in Lit Pixels	Change in Percent	Change in Lit Pixels	Change in Percent
			Radiance 2015-19	Total Radiance	Radiance 2019-20	Total Radiance	2015-19	Lit Pixels 2015-19	2019-20	Lit Pixels 2019-20
				2015-19		2019-20				
142	Lakhimpur	KHERI	2352.0	88.7	-498.6	-10.0	443	0.2	-139.0	-0.1
143	Kasta (SC)	KHERI	2537.0	463.6	-583.1	-18.9	2152	0.6	-611.0	-0.2
144	Mohammdi	KHERI	3248.6	348.7	-312.8	-7.5	2459	0.6	-600.0	-0.1
145	Maholi	SITAPUR	2973.7	368.9	-424.1	-11.2	2622	0.6	-658.0	-0.1
146	Sitapur	SITAPUR	1905.6	89.8	-143.1	-3.6	464	0.3	-90.0	-0.1
147	Hargaon (SC)	SITAPUR	2057.6	304.5	-123.3	-4.5	1838	0.5	-368.0	-0.1
148	Laharpur	SITAPUR	2147.5	528.8	-74.8	-2.9	1960	0.6	-447.0	-0.1
149	Biswan	SITAPUR	1666.8	267.3	-349.2	-15.2	1599	0.5	-645.0	-0.2
150	Sevata	SITAPUR	1756.7	473.8	-196.1	-9.2	1830	0.5	-344.0	-0.1
151	Mahmoodabad	SITAPUR	976.1	133.4	-293.1	-17.2	637	0.2	-580.0	-0.2
152	Sidhauli (SC)	SITAPUR	2384.8	379.9	-302.4	-10.0	1984	0.6	-493.0	-0.1
153	Misrikh (SC)	SITAPUR	2918.6	875.0	-113.1	-3.5	2827	0.7	-321.0	-0.1
154	Sawaiipur	HARDOI	2387.0	660.6	-403.0	-14.7	2965	0.6	-725.0	-0.1
155	Shahabad	HARDOI	2503.2	417.3	-308.3	-9.9	2218	0.6	-586.0	-0.1
156	Hardoi	HARDOI	2067.9	121.8	-304.9	-8.1	1505	0.5	-419.0	-0.1
157	Gopamau (SC)	HARDOI	2102.9	724.0	-308.5	-12.9	2179	0.7	-449.0	-0.1
158	Sandi (SC)	HARDOI	1862.7	136.8	-182.2	-5.7	1014	0.5	-426.0	-0.1
159	Bilgram-Mallanwan	HARDOI	1371.5	208.6	-140.6	-6.9	1203	0.3	-339.0	-0.1
160	Balamau (SC)	HARDOI	2151.6	321.0	-492.4	-17.4	2109	0.4	-782.0	-0.2
161	Sandila	HARDOI	1444.8	100.7	-159.6	-7.4	1233	0.4	-203.0	-0.1
167	Bangermau	UNNAO	1800.8	306.2	-205.8	-8.6	1458	0.4	-304.0	-0.1
163	Safipur (SC)	UNNAO	1760.4	440.0	-226.7	-10.5	1828	0.5	-479.0	-0.1
164	Mohan (SC)	UNNAO	1050.0	123.0	-203.8	-5.7	1130	0.3	-315.0	-0.1
165	Unnao	UNNAO	1548.9	32.4	-170.6	-2.7	470	0.2	-183.0	-0.1
166	Bhagwantnagar		2182.8	103.1	-533 8	-16.1	1718	0.4	-750.0	-0.2
167	Purwa	UNNAO	2437.3	180.7	-624.5	-16.5	1742	0.3	-834.0	-0.2
168	Malibabad (SC)		1235.6	23.0	-604.5	-0.4	66	0.0	-99.0	0.0
160	Bakshi Kaa Talab	LUCKNOW	2751.6	10.0	-1007.1	-6.1	11	0.0	-39.0	0.0
170	Sarojini Nagar	LUCKNOW	5936.1	40.4	-2338.1	-11.3	30	0.0	-28.0	0.0
171	Lucknow West	LUCKNOW	1346.0	18.7	-796.3	-0.3	0	0.0	0.0	0.0
172	Lucknow North		1423.5	17.7	-844.0	-8.9	0	0.0	0.0	0.0
172	Lucknow Fast	LUCKNOW	1457.8	15.8	-1001.2	-10.2	0	0.0	0.0	0.0
17/	Lucknow Central		-617 5	-6.7	-1163.2	-13.6	0	0.0	0.0	0.0
175	Lucknow Cantt		066.2	13.7	-882.1	-10.6	0	0.0	0.0	0.0
176	Mohanlalgani (SC)		1572.3	30.0	-774.6	-11.6	-140	0.0	-365.0	-0.1
173	Bachbrawan (SC)	RAF BARFI I	2753.3	305.2	-472.5	-13.7	2460	0.6	-517.0	-0.1
178	Tiloi	RAF BARFI I	2529.7	198.3	-483.1	-12.7	1704	0.5	-295.0	-0.1
170	Harchandpur	RAF BARFI I	1613.3	90.7	-432.0	-12.8	561	0.2	-352.0	-0.1
180	Rae Bareli	RAF BARFI I	3073.6	82.1	-920.4	-13.5	1141	0.4	-251.0	-0.1
181	Salon (SC)	RAF BARFI I	2263.0	454.0	-300.9	-10.9	1869	0.6	-262	-0.1
182	Sareni	RAF BARFI I	2066.8	66.9	-344.7	-6.7	691	0.2	-205.0	-0.1
183	Unchahar	RAF BARFI I	1714.2	72.9	-181.8	-4.5	739	0.3	-163.0	-0.1
184	Jagdishpur (SC)	SULTANPUR	2420.2	150.8	-448.2	-11.1	855	0.3	-255.0	-0.1
185	Gaurigani	SULTANPUR	2381.0	126.3	-270.4	-6.5	830	0.2	-162.0	0.0
186	Amethi	SULTANPUR	1895.1	118.6	1.7	0.0	552	0.2	-179.0	-0.1
192	Kaimgani (SC)	FARRUKHABAD	2037.0	555.1	-62.3	-2.6	2320	0.6	-395.0	-0.1
193	Amritpur	FARRUKHABAD	1503.3	473.5	20.5	1.1	1769	0.5	-210.0	-0.1
194	Farrukhabad	FARRUKHABAD	656.0	37.3	-215.8	-8.0	205	0.2	1.0	0.0
105	Bhoipur	FARRUKHABAD	2160.8	315.4	-110.5	-3.0	1648	0.6	-212.0	-0.1
106	Chhibramau	KANNAUJ	-41.1	דיעיע -1.0	-640.7	-16.3	-6	0.0	-348.0	-0.1
107	Tirwa	KANNAUJ	717.4	22.5	-803.0	-20.6	257	0.1	-1010.0	-0.2
198	Kannaui (SC)	KANNAUJ	-454.1	-8.0	-308.7	-5.9	-58	0.0	-223.0	-0.1
199	Jaswantnagar	ETAWAH	567.5	8.0	-821.9	-10.7	43	0.0	-88.0	0.0
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No.	AC Name	District Name	Change in Total	Percent Change in	Change in Total	Percent Change in	Change in Lit Pixels	Change in Percent	Change in Lit Pixels	Change in Percent
			Radiance 2015-19	Total Radiance	Radiance 2019-20	Total Radiance	2015-19	Lit Pixels 2015-19	2019-20	Lit Pixels 2019-20
				2015-19		2019-20				
200	Etawah	ETAWAH	-462.0	-6.2	-1042.5	-14.9	52	0.0	-172.0	-0.1
201	Bharthana (SC)	ETAWAH	1106.4	20.5	-508.0	-7.8	292	0.1	-465.0	-0.1
202	Bidhuna	AURAIYA	765.8	21.4	-175.7	-4.0	204	0.0	-332.0	-0.1
203	Dibiyapur	AURAIYA	-781.6	-7.0	457.6	4.4	536	0.2	-170.0	0.0
204	Auraiya (SC)	AURAIYA	1943.2	121.3	-100.2	-2.8	740	0.3	-280.0	-0.1
205	Rasulabad (SC)	KANPUR DEHAT	1668.1	103.3	-15.6	-0.5	1076	0.2	-404.0	-0.1
206	Akbarpur-Raniya	KANPUR DEHAT	2290.2	59.5	-444.3	-7.2	510	0.1	-323.0	-0.1
207	Sikandra	KANPUR DEHAT	1810.8	127.7	-634.1	-19.6	1259	0.3	-866.0	-0.2
208	Bhognipur	KANPUR DEHAT	1316.7	71.3	-132.7	-4.2	973	0.2	-442.0	-0.1
209	Bilhaur (SC)	KANPUR NAGAR	2354.5	137.4	-150.4	-3.7	1494	0.3	-251.0	-0.1
210	Bithoor	KANPUR NAGAR	2914.7	66.5	-30.5	-0.4	1127	0.3	-209.0	-0.1
211	Kalyanpur	KANPUR NAGAR	1871.9	29.1	691.5	8.3	0	0.0	0.0	0.0
212	Govindnagar	KANPUR NAGAR	760.3	13.1	-96.1	-1.5	0	0.0	0.0	0.0
213	Sishamau	KANPUR NAGAR	120.4	11.9	-40.9	-3.6	0	0.0	0.0	0.0
214	Arya Nagar	KANPUR NAGAR	155.5	10.0	-150.9	-8.8	0	0.0	0.0	0.0
215	Kidwai Nagar	KANPUR NAGAR	642.8	16.6	114.0	2.5	0	0.0	0.0	0.0
216	Kanpur Cantt.	KANPUR NAGAR	553.5	13.9	-94.4	-2.1	0	0.0	0.0	0.0
217	Maharajpur	KANPUR NAGAR	2240.1	52.5	166.3	2.6	311	0.2	-92.0	0.0
218	Ghatampur (SC)	KANPUR NAGAR	4101.0	532.2	-760.1	-15.6	2478	0.5	-557.0	-0.1
238	Jahanabad	FATEHPUR	1879.7	115.0	-221.9	-6.3	1713	0.4	-350.0	-0.1
239	Bindki	FATEHPUR	1249.5	50.1	72.0	1.9	640	0.2	-109.0	0.0
240	Fatehpur	FATEHPUR	1204.3	38.3	-79.5	-1.8	899	0.3	-126.0	0.0
241	Ayah Shah	FATEHPUR	2052.6	672.1	-84.9	-3.6	2203	0.6	-246.0	-0.1
242	Husainganj	FATEHPUR	2107.9	519.6	-34.1	-1.4	2041	0.6	-211.0	-0.1
243	Khaga (SC)	FATEHPUR	2030.9	258.5	118.4	4.2	1865	0.5	-196.0	0.0
251	Sirathu	KAUSHAMBI	1144.5	56.2	315.1	9.9	239	0.1	-19.0	0.0
252	Manjhanpur (SC)	KAUSHAMBI	1508.2	131.3	-35.5	-1.3	1236	0.3	-180.0	0.0
253	Chail	KAUSHAMBI	2563.0	34.0	-1167.7	-11.6	590	0.2	-17.0	0.0
266	Kursi	BARABANKI	2328.4	151.6	-460.9	-11.9	1201	0.3	-518.0	-0.1
267	Ram Nagar	BARABANKI	1723.8	210.8	-664.5	-26.1	1341	0.4	-602.0	-0.2
268	Barabanki	BARABANKI	2086.5	52.3	-772.0	-12.7	241	0.1	-246.0	-0.1
269	Zaidpur (SC)	BARABANKI	1779.5	116.9	-665.9	-20.2	573	0.2	-506.0	-0.2
270	Dariyabad	BARABANKI	1969.3	184.7	-554.0	-18.2	1161	0.3	-568.0	-0.1
272	Haidergarh (SC)	BARABANKI	2523.9	287.0	-677.7	-19.9	1287	0.4	-502.0	-0.2

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Bundelkhand UP

No.	AC Name	District Name	Total Pixels	Total Radiance	Lit Pixels 2015	Percent Lit	Total Radiance	Lit Pixels 2019	Percent Lit	Total Radiance	Lit Pixels 2020	Percent Lit
				2015		Pixels 2015	2019		Pixels 2019	2020		Pixels 2020
219	Madhaugarh	JALAUN	8039	2119.8	4030	0.5	4716.1	6133	0.8	4443.8	5292	0.7
220	Kalpi	JALAUN	9092	2866.4	4256	0.5	5173.1	6047	0.7	4785.7	5237	0.6
221	Orai (SC)	JALAUN	6591	3448.3	3491	0.5	5867.4	4494	0.7	5626.8	4121	0.6
222	Babina	JHANSI	6831	5736.4	4513	0.7	9084.7	5571	0.8	8897.7	5372	0.8
223	Jhansi Nagar	JHANSI	789	7363.4	788	1.0	8539.2	788	1.0	8030.5	785	1.0
224	Mauranipur (SC)	JHANSI	8998	2222.6	3923	0.4	5094.0	5807	0.6	4968.5	5521	0.6
225	Garautha	JHANSI	9553	2393.3	4017	0.4	4657.6	5359	0.6	4787.0	5036	0.5
226	Lalitpur	LALITPUR	11090	3200.7	4532	0.4	5195.8	6212	0.6	5413.3	5841	0.5
227	Mehroni (SC)	LALITPUR	14796	3617.4	4040	0.3	5843.1	6178	0.4	5465.8	5828	0.4
228	Hamirpur	HAMIRPUR	10384	3723.3	4790	0.5	6288.2	6337	0.6	6059.6	5904	0.6
229	Rath (SC)	HAMIRPUR	11730	2362.4	4101	0.3	4014.8	5330	0.5	3901.6	4909	0.4
230	Mahoba	МАНОВА	5467	2593.9	2766	0.5	5749.5	3693	0.7	4964.3	3477	0.6
231	Charkhari	МАНОВА	9335	2110.0	3944	0.4	3952.0	5208	0.6	3648.5	4651	0.5
232	Tindwari	BANDA	7760	2649.5	3227	0.4	4918.2	4720	0.6	4888.2	4506	0.6
233	Baberu	BANDA	6552	533.4	1188	0.2	1803.1	3082	0.5	1877.1	2819	0.4
234	Naraini (SC)	BANDA	6188	1091.3	1941	0.3	2522.5	3363	0.5	2665.9	3169	0.5
235	Banda	BANDA	2931	933.1	1335	0.5	1694.8	1846	0.6	1731.5	1818	0.6
236	Chitrakoot	CHITRAKOOT	5821	2009.5	2281	0.4	3277.9	3457	0.6	3380.6	3275	0.6
237	Manikpur	CHITRAKOOT	10099	1249.8	2716	0.3	3174.3	4586	0.5	3114.9	4111	0.4





Bundelkhand Maps

No.	AC Name	District Name	Change in Total	Percent Change in	Change in Total	Percent Change in	Change in Lit Pixels	Change in Percent	Change in Lit Pixels	Change in Percent
			Radiance 2015-19	Total Radiance 2015-	Radiance 2019-20	Total Radiance 2019-	2015-19	Lit Pixels 2015-19	2019-20	Lit Pixels 2019-20
				19		20				
219	Madhaugarh	JALAUN	2596.3	122.5	-272.3	-5.8	2103	0.3	-841.0	-0.1
220	Kalpi	JALAUN	2306.7	80.5	-387.3	-7.5	1791	0.2	-810.0	-0.1
221	Orai (SC)	JALAUN	2419.1	70.2	-240.6	-4.1	1003	0.2	-373.0	-0.1
222	Babina	JHANSI	3348.3	58.4	-187.1	-2.1	1058	0.2	-199.0	0.0
223	Jhansi Nagar	JHANSI	1175.7	16.0	-508.7	-6.0	0	0.0	-3.0	0.0
224	Mauranipur (SC)	JHANSI	2871.4	129.2	-125.5	-2.5	1884	0.2	-286.0	0.0
225	Garautha	JHANSI	2264.3	94.6	129.4	2.8	1342	0.1	-323.0	0.0
226	Lalitpur	LALITPUR	1995.0	62.3	217.5	4.2	1680	0.2	-371.0	0.0
227	Mehroni (SC)	LALITPUR	2225.7	61.5	-377.3	-6.5	2138	0.1	-350.0	0.0
228	Hamirpur	HAMIRPUR	2564.8	68.9	-228.6	-3.6	1547	0.1	-433.0	0.0
229	Rath (SC)	HAMIRPUR	1652.4	69.9	-113.2	-2.8	1229	0.1	-421.0	0.0
230	Mahoba	МАНОВА	3155.6	121.7	-785.2	-13.7	927	0.2	-216.0	0.0
231	Charkhari	МАНОВА	1841.9	87.3	-303.5	-7.7	1264	0.1	-557.0	-0.1
232	Tindwari	BANDA	2268.7	85.6	-30.0	-0.6	1493	0.2	-214.0	0.0
233	Baberu	BANDA	1269.7	238.0	74.0	4.1	1894	0.3	-263.0	0.0
234	Naraini (SC)	BANDA	1431.2	131.1	143.4	5.7	1422	0.2	-194.0	0.0
235	Banda	BANDA	761.7	81.6	36.8	2.2	511	0.2	-28.0	0.0
236	Chitrakoot	CHITRAKOOT	1268.5	63.1	102.6	3.1	1176	0.2	-182.0	0.0
237	Manikpur	CHITRAKOOT	1924.5	154.0	-59.4	-1.9	1870	0.2	-475.0	0.0

