```
In [ ]: import pandas as pd
         from datetime import datetime
         import numpy as np
         # Population
         df1 = pd.read_csv("./Afghanistan_Population.csv",usecols=[0,1,2,3],encoding='la
         tin1', sep=',',quotechar='"', index_col=None, header=0)
         # IED
          \label{eq:df2}  \mbox{ df2 = pd.read\_csv("./Afghanistan\_IED.csv",usecols=[0,1,2],encoding='latin1', se p=',',quotechar='"', index\_col=$None, header=0) } 
         df2
In [ ]: df1_radius = df1["T0TAL"]*(218)-557
In [ ]: df1["Area"] = df1_radius
In []: df1["Radius"] = np.sqrt((df1["Area"]/3.141592653))
In [ ]: | df1["Nbr_Of_IED"] = np.zeros(len(df1["Radius"]))
In [ ]: from math import sin, cos, sqrt, atan2, radians
         def isInside(lat1,lon1,radius,lat2,lon2):
              R = 6373.0 \# earth
              dlon = lon2 - lon1
              dlat = lat2 - lat1
              a = \sin(dlat / 2)**2 + \cos(lat1) * \cos(lat2) * \sin(dlon / 2)**2
              c = 2 * atan2(sqrt(a), sqrt(1 - a))
              distance = R * c
              if(distance <= radius):</pre>
                  return 1;
              else:
                  return 0;
```

```
In [ ]: lat1 = 0;
        lat2 = 0;
        lon1 = 0;
        lon2 = 0;
        rad = 0;
        nbr_of_ied = 0;
        array = np.zeros(len(df1["NAME"]))
        for i in range(len(df1["NAME"])):
            lat1 = df1["Latitude"][i];
            lon1 = df1["Longitude"][i];
            rad = df1["Radius"][i];
            nbr of ied = 0;
            for j in range(len(df2["YEAR"])):
                lat2 = df2["Latitude"][j];
                lon2 = df2["Longitude"][j];
                if(isInside(lat1,lon1,rad,lat2,lon2) == 1):
                    nbr_of_ied += 1;
            array[i] = nbr_of_ied
In [ ]: df1["Nbr_Of_IED"] = array
In [ ]: df1["IED_by_capita"] = df1["Nbr_0f_IED"]/df1["TOTAL"]
In [ ]: df1.loc[df1['IED by capita'].idxmax()]
In [ ]: | df1["IED_by_capita"] = df1["IED_by_capita"]/0.0282407
In [ ]: df1["IED_by_capita"] = np.round(df1["IED_by_capita"],4)
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In [24]: df1

Out[24]:

1 Anardara 28441.0 32.885044 61.140320 6199581.0 1404,773264 514.0 0 2 Kohsan 55562.0 34.653915 61.201502 12111959.0 1963,506122 261.0 0 3 Lash-e-Juwayn 28561.0 31.828782 61.233559 6225741.0 1407,733963 94.0 0 4 Shibkoh 23881.0 32.131993 61.280200 5205501.0 1287,230528 40.0 0 5 Ghoryan 90940.0 34.341515 61.501926 19824363.0 2512,029206 661.0 0 6 Gulran 96124.0 35.210885 61.607058 20954475.0 2582,637519 31.0 0 7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011,685111 366.0 0 8 Zaranj 58174.0 30.960662 61.891391 11954999.0 1950,742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851		NAME	TOTAL	Latitude	Longitude	Area	Radius	Nbr_Of_IED	IED_b
2 Kohsan 55562.0 34.653915 61.201502 12111959.0 1963.506122 261.0 0 3 Lash-e-Juwayn 28561.0 31.828782 61.233559 6225741.0 1407.733963 94.0 0 4 Shibkoh 23881.0 32.131993 61.280200 5205501.0 1287.230528 40.0 0 5 Ghoryan 90940.0 34.341415 61.501926 19824363.0 2512.029206 661.0 0 6 Guiran 96124.0 35.210885 61.607058 20954475.0 2582.637519 31.0 0 7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011.685111 366.0 0 8 Zaranj 58174.0 30.960662 61.852623 12681375.0 2009.130915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 11954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851	0	Khash	38882.0	28.085328	60.767922	8475719.0	1642.530106	18.0	0.0164
3 Lash-e-Juwayn 28561.0 31.828782 61.233559 6225741.0 1407.733963 94.0 0 4 Shibkoh 23881.0 92.131993 61.280200 5205501.0 1287.230528 40.0 0 5 Ghoryan 90940.0 34.341415 61.501926 19824363.0 2512.029206 661.0 0 6 Guiran 96124.0 35.210885 61.607058 20954475.0 2582.637519 31.0 0 7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011.685111 366.0 0 8 Zaranj 58174.0 30.960662 61.852623 126175.0 2009.130915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 17954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 16748941.0 1465.692547 231.0 0 12 Chakhansur 24241.0 31.187788	1	Anardara	28441.0	32.885044	61.140320	6199581.0	1404.773264	514.0	0.6399
4 Shibkoh 23881.0 32.131993 61.280200 5205501.0 1287.230528 40.0 0 5 Ghoryan 90940.0 34.341415 61.501926 19824363.0 2512.029206 661.0 0 6 Guiran 96124.0 35.210885 61.607058 20954475.0 2582.637519 31.0 0 7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011.685111 366.0 0 8 Zaranj 58174.0 30.960662 61.852623 12681375.0 2009.130915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 16748941.0 1465.692547 231.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 6748941.0 1465.692547 231.0 0 11 Pushtrod 41522.0 32.480918 62.082399 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788	2	Kohsan	55562.0	34.653915	61.201502	12111959.0	1963.506122	261.0	0.1663
5 Ghoryan 90940.0 34.341415 61.501926 19824363.0 2512.029206 661.0 0 6 Gulran 36124.0 35.210885 61.607058 20954475.0 2582.637519 31.0 0 7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011.685111 366.0 0 8 Zaranj 58174.0 30.960662 61.852623 12681375.0 2009.139915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 11954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 11954999.0 1950.742005 401.0 0 11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.37998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049	3	Lash-e-Juwayn	28561.0	31.828782	61.233559	6225741.0	1407.733963	94.0	0.1165
6 Gulran 96124.0 35.210885 61.607058 20954475.0 2582.637519 31.0 0 7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011.685111 366.0 0 8 Zaranj 58174.0 30.960662 61.852623 12681375.0 2009.130915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 11954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 6748941.0 1465.692547 231.0 0 11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 19 Pashtunzarghun 102364.0 34.183276 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 75124.0 35.077911 62.873525 16376475.0 2883.154374 107.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2883.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1946.468700 1207.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187799 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1946.468700 1207.0 0 38.149728 70.907124 5885879.0 1368.770790 393.0 0	4	Shibkoh	23881.0	32.131993	61.280200	5205501.0	1287.230528	40.0	0.0593
7 Zindajan 58322.0 34.345559 61.741490 12713639.0 2011.685111 366.0 0 8 Zaranj 58174.0 30.960662 61.852623 12681375.0 2009.130915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 11954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 6748941.0 1465.692547 231.0 0 11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.02	5	Ghoryan	90940.0	34.341415	61.501926	19824363.0	2512.029206	661.0	0.2574
8 Zaranj 58174.0 30.960662 61.852623 12681375.0 2009.130915 114.0 0 9 Adraskan 54842.0 33.671608 61.981391 11954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 6748941.0 1465.692547 231.0 0 11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 19 Pashtunzarghun 102364.0 34.183276 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1968.770790 393.0 0 240 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0	6	Gulran	96124.0	35.210885	61.607058	20954475.0	2582.637519	31.0	0.0114
9 Adraskan 54842.0 33.671608 61.981391 11954999.0 1950.742005 401.0 0 10 Khak-e-Safed 30961.0 32.677851 61.981391 6748941.0 1465.692547 231.0 0 11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 15905377.0 2260.5149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 20 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0	7	Zindajan	58322.0	34.345559	61.741490	12713639.0	2011.685111	366.0	0.2222
10 Khak-e-Safed 30961.0 32.677851 61.981391 6748941.0 1465.692547 231.0 0 11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.4	8	Zaranj	58174.0	30.960662	61.852623	12681375.0	2009.130915	114.0	0.0694
11 Pushtrod 41522.0 32.480918 62.028239 9051239.0 1697.379998 201.0 0 12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689	9	Adraskan	54842.0	33.671608	61.981391	11954999.0	1950.742005	401.0	0.2589
12 Chakhansur 24241.0 31.187788 62.089746 5283981.0 1296.897602 0.0 0 13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 15905377.0 2250.075275 542.0 0 21 Abkamari 75124.0 <th< th=""><td>10</td><td>Khak-e-Safed</td><td>30961.0</td><td>32.677851</td><td>61.981391</td><td>6748941.0</td><td>1465.692547</td><td>231.0</td><td>0.2642</td></th<>	10	Khak-e-Safed	30961.0	32.677851	61.981391	6748941.0	1465.692547	231.0	0.2642
13 Shindand 182655.0 33.307049 62.136421 39818233.0 3560.131629 1964.0 0 14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187799 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187799 51.0 0 20 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0	11	Pushtrod	41522.0	32.480918	62.028239	9051239.0	1697.379998	201.0	0.1714
14 Guzara 149887.0 34.046771 62.168857 32674809.0 3225.013913 1916.0 0 15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 23 Farsi 31322.0 3	12	Chakhansur	24241.0	31.187788	62.089746	5283981.0	1296.897602	0.0	0.0000
15 Kushk-e-Kohna 46682.0 35.027775 62.168857 10176119.0 1799.766452 9.0 0 16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.69	13	Shindand	182655.0	33.307049	62.136421	39818233.0	3560.131629	1964.0	0.3807
16 Herat 477452.0 34.352865 62.204029 104083979.0 5755.949923 2861.0 0 17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 25 Balamurghab 99244.0 35.640	14	Guzara	149887.0	34.046771	62.168857	32674809.0	3225.013913	1916.0	0.4526
17 Charburjak 27001.0 30.134523 62.262663 5885661.0 1368.745441 32.0 0 18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346	15	Kushk-e-Kohna	46682.0	35.027775	62.168857	10176119.0	1799.766452	9.0	0.0068
18 Karukh 65299.0 34.491120 62.603100 14234625.0 2128.619709 946.0 0 19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.5753	16	Herat	477452.0	34.352865	62.204029	104083979.0	5755.949923	2861.0	0.2122
19 Balabuluk 72963.0 32.689845 62.732388 15905377.0 2250.075275 542.0 0 20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 <th< th=""><td>17</td><td>Charburjak</td><td>27001.0</td><td>30.134523</td><td>62.262663</td><td>5885661.0</td><td>1368.745441</td><td>32.0</td><td>0.0420</td></th<>	17	Charburjak	27001.0	30.134523	62.262663	5885661.0	1368.745441	32.0	0.0420
20 Pashtunzarghun 102364.0 34.183276 62.732388 22314795.0 2665.149125 1081.0 0 21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 3	18	Karukh	65299.0	34.491120	62.603100	14234625.0	2128.619709	946.0	0.5130
21 Abkamari 75124.0 35.077911 62.873525 16376475.0 2283.154374 107.0 0 22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 <	19	Balabuluk	72963.0	32.689845	62.732388	15905377.0	2250.075275	542.0	0.2630
22 Bakwa 36242.0 32.230825 62.920592 7900199.0 1585.784174 117.0 0 23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 <t< th=""><td>20</td><td>Pashtunzarghun</td><td>102364.0</td><td>34.183276</td><td>62.732388</td><td>22314795.0</td><td>2665.149125</td><td>1081.0</td><td>0.3739</td></t<>	20	Pashtunzarghun	102364.0	34.183276	62.732388	22314795.0	2665.149125	1081.0	0.3739
23 Farsi 31322.0 33.696641 63.092771 6827639.0 1474.213347 133.0 0 24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 239 Darwaz 27002.0 38.149728 70.907124 5885879.	21	Abkamari	75124.0	35.077911	62.873525	16376475.0	2283.154374	107.0	0.0504
24 Qala-e-Naw 67658.0 34.969090 63.144304 14748887.0 2166.729458 159.0 0 25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 239 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0 240 Darwaz-e-Balla 23641.0 38.149728 70.907124 <t< th=""><td>22</td><td>Bakwa</td><td>36242.0</td><td>32.230825</td><td>62.920592</td><td>7900199.0</td><td>1585.784174</td><td>117.0</td><td>0.1143</td></t<>	22	Bakwa	36242.0	32.230825	62.920592	7900199.0	1585.784174	117.0	0.1143
25 Balamurghab 99244.0 35.640348 63.309294 21634635.0 2624.217637 81.0 0 26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 239 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0 240 Darwaz-e-Balla 23641.0 38.149728 70.907124 5153181.0 1280.745274 372.0 0	23	Farsi	31322.0	33.696641	63.092771	6827639.0	1474.213347	133.0	0.1504
26 Saghar 35402.0 33.575346 63.675056 7717079.0 1567.297846 606.0 0 27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0	24	Qala-e-Naw	67658.0	34.969090	63.144304	14748887.0	2166.729458	159.0	0.0832
27 Chisht-e-Sharif 24242.0 34.340130 63.752880 5284199.0 1296.924355 66.0 0 28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 239 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0 240 Darwaz-e-Balla 23641.0 38.149728 70.907124 5153181.0 1280.745274 372.0 0	25	Balamurghab	99244.0	35.640348	63.309294	21634635.0	2624.217637	81.0	0.0289
28 Purchaman 54602.0 33.179276 63.769538 11902679.0 1946.468700 1207.0 0 29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0	26	Saghar	35402.0	33.575346	63.675056	7717079.0	1567.297846	606.0	0.6061
29 Ghormach 56282.0 35.649546 63.911330 12268919.0 1976.187798 51.0 0 </th <td>27</td> <td>Chisht-e-Sharif</td> <td>24242.0</td> <td>34.340130</td> <td>63.752880</td> <td>5284199.0</td> <td>1296.924355</td> <td>66.0</td> <td>0.0964</td>	27	Chisht-e-Sharif	24242.0	34.340130	63.752880	5284199.0	1296.924355	66.0	0.0964
	28	Purchaman	54602.0	33.179276	63.769538	11902679.0	1946.468700	1207.0	0.7828
239 Darwaz 27002.0 38.149728 70.907124 5885879.0 1368.770790 393.0 0 240 Darwaz-e-Balla 23641.0 38.149728 70.907124 5153181.0 1280.745274 372.0 0	29	Ghormach	56282.0	35.649546	63.911330	12268919.0	1976.187798	51.0	0.0321
240 Darwaz-e-Balla 23641.0 38.149728 70.907124 5153181.0 1280.745274 372.0 0									
	239	Darwaz	27002.0	38.149728	70.907124	5885879.0	1368.770790	393.0	0.5154
241 Chawkay 36482 0 34 806159 70 978456 7952519 0 1591 026530 140 0	240	Darwaz-e-Balla	23641.0	38.149728	70.907124	5153181.0	1280.745274	372.0	0.5572
211 Shamay	241	Chawkay	36482.0	34.806159	70.978456	7952519.0	1591.026530	140.0	0.1359
242 Khaskunar 35762.0 34.643368 71.026005 7795559.0 1575.247123 57.0 0	242	Khaskunar	35762.0	34.643368	71.026005	7795559.0	1575.247123	57.0	0.0564

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