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Take home test for Geospatial Data Analyst group 2025

Parametrics.Ag

**Question 1:**

Using the provided data sources, identify the countries with the highest vegetable production per capita. Include the production amount per capita in your findings.

For the top 20 countries –

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **rank** | **country** | **veg\_production (in tonnes)** | **population** | **production\_per\_capita** |
| 1 | China | 594,049,398 | 1425883925 | 0.416618343 |
| 2 | North Macedonia | 695,920 | 1840233 | 0.378169504 |
| 3 | Albania | 988,507 | 2827608 | 0.349591245 |
| 4 | Turkiye | 25,960,714 | 87058473 | 0.298198591 |
| 5 | Netherlands | 5,293,140 | 18268314 | 0.289744308 |
| 6 | Uzbekistan | 9,903,740 | 34938955 | 0.283458392 |
| 7 | Spain | 12,668,790 | 47828382 | 0.264880171 |
| 8 | Tonga | 27,320 | 105042 | 0.260086442 |
| 9 | Tunisia | 3,138,362 | 12119334 | 0.258954989 |
| 10 | Bosnia and Herzegovina | 799,683 | 3204802 | 0.249526492 |
| 11 | Guyana | 194,361 | 821637 | 0.236553368 |
| 12 | Ukraine | 9,675,389 | 41048766 | 0.235704747 |
| 13 | Tajikistan | 2,374,585 | 10182222 | 0.23320892 |
| 14 | Kazakhstan | 4,450,783 | 20034609 | 0.222154722 |
| 15 | Portugal | 2,288,910 | 10417073 | 0.219726789 |
| 16 | Armenia | 599,918 | 2880874 | 0.208241666 |
| 17 | Laos | 1,533,045 | 7559007 | 0.202810369 |
| 18 | Belarus | 1,782,395 | 9173237 | 0.194303821 |
| 19 | Greece | 1,918,930 | 10412480 | 0.18429135 |
| 20 | South Korea | 9,476,881 | 51782512 | 0.183013157 |

**Question 2:**

Create a visualization that maps the total and per capita vegetable production across all countries. Ensure the map is clear and provides insights into geographic production trends.

Total vegetable production across countries-

A map of the world with different colored countries/regions

Description automatically generated

Per capita vegetable production across countries –

A map of the world

Description automatically generated