

Overview

The earth can support 17.5 Billion humans

According to <http://www.intmath.com/Exponential-logarithmic-functions/world-population-live.php>

By the year 2100 there will be 18.4 Billion people on earth.

The Calculations below show how many humans the earth can support.

Kilojoules to Carb converter

1 Kj = 0.238845897 Calories

Carb to Kj converter

1 Calorie = 4.1868 Kilojoules

(Calculations are based on potatoes as it is a basic crop)

Potatoes needed in a fortnight

364.25 Kilojoules in 100g of spud 3642.516 Kj per kilogram

52.16 kg per fortnight

3.73 kg per day

If a cup (158g) of rice is

580.00 Cal or

2428.34 Kj

0.67 Kg of spud needed to equal one cup of rice

9.33 kg per fortnight

If there is an annual crop of

12000 kg per hectare per annum then
(this needed to be checked)

1356.205436 Kg needed per annum

10000 sqm per hectare

0.11301712 hectare needed

1130.171197 sqm needed per person

But this is if you just lived on potatoes

If you ate normally which is the

0.67 kg per day then

243.3333333 kg per year

0.020277778 hectare needed

202.7777778 square metres needed

Earths land surface area

150000000 sq kilometre

<http://hypertextbook.com/facts/2001/DanielChen.shtml>

Earths land surface area

1.5E+14 sq metre

Total humans the earth can support

132,723,255,061

133 Billion humans

This does not take into account unusable land or uninhabitable land or food from the sea.

Overview

From wikipedia

<http://en.wikipedia.org/wiki/Earth>

Currently the total arable land is 13.31% of the land surface, with only 4.71% supporting permanent crops.[6] Close to 40% of the Earth's land surface is presently used for cropland and pasture, or an estimated 1.3×10^7 km² of cropland and 3.4×10^7 km² of pastureland.[64]

So using 13.31% the earth can support **17,665,465,249** 95kg humans

That's 17.5 Billion human maximum population.

So according to

<http://www.intmath.com/Exponential-logarithmic-functions/world-population-live.php>

By the year 2100 there will be 18.4 Billion people on earth.

Is it true that as the standard of education goes up the birth rate comes down?

<http://www.breathingearth.net/>