

15.1 Feeding the World

Globally –

Worldwide: about _____ people live on a meat-based diet while about _____ live on plant-based diet

The US food production system uses about:

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More than _____ are consumed each year –

Livestock outweighs Humans by _____

-Due to rise in population and the need to feed more people, _____ is a growing concern in the US

-Each year about

-About 60% of US pastureland is being overgrazed which can accelerate erosion

-It takes _____ years to replace 1 inch of soil!

WHO estimates that _____ people are _____

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Effects of malnourishment:

2004 UNFAO estimated :

Undernourished = not enough calories

-182 million kids under 5 are undernourished

-Occurring in South Asia and sub-Saharan Africa

-Sub-Saharan Africa produces less food per person today than it did in 1950

Civil wars, HIV, floods, droughts, soil erosion

Brainstorm: Why do we have people without enough food when we produce more than enough?

Reasons:

Switch to _____
(warn water scientists)

Water deficits can be met by _____

Corn and wheat prices rose ~50% with droughts in US and Russia

Animal protein consumes _____

1/3 of the world's arable land is used to grow crops to feed animals

Humans derive 20% of protein from _____ products, but may need to drop to just 5% to feed an extra 2 billion people by 2050

Brainstorm: What could or should the US and the world do to produce enough food?

US:

Globally:

Food Shortages in 2008 led to:

Family Slides

Italy (southern Europe) slide 18

United States slide 19

Egypt (northern Africa) slide 20

Bhutan (southern Asia) slide 21

Chad (central Africa) slide 22

What is Food Security?

Increasing food security by:

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