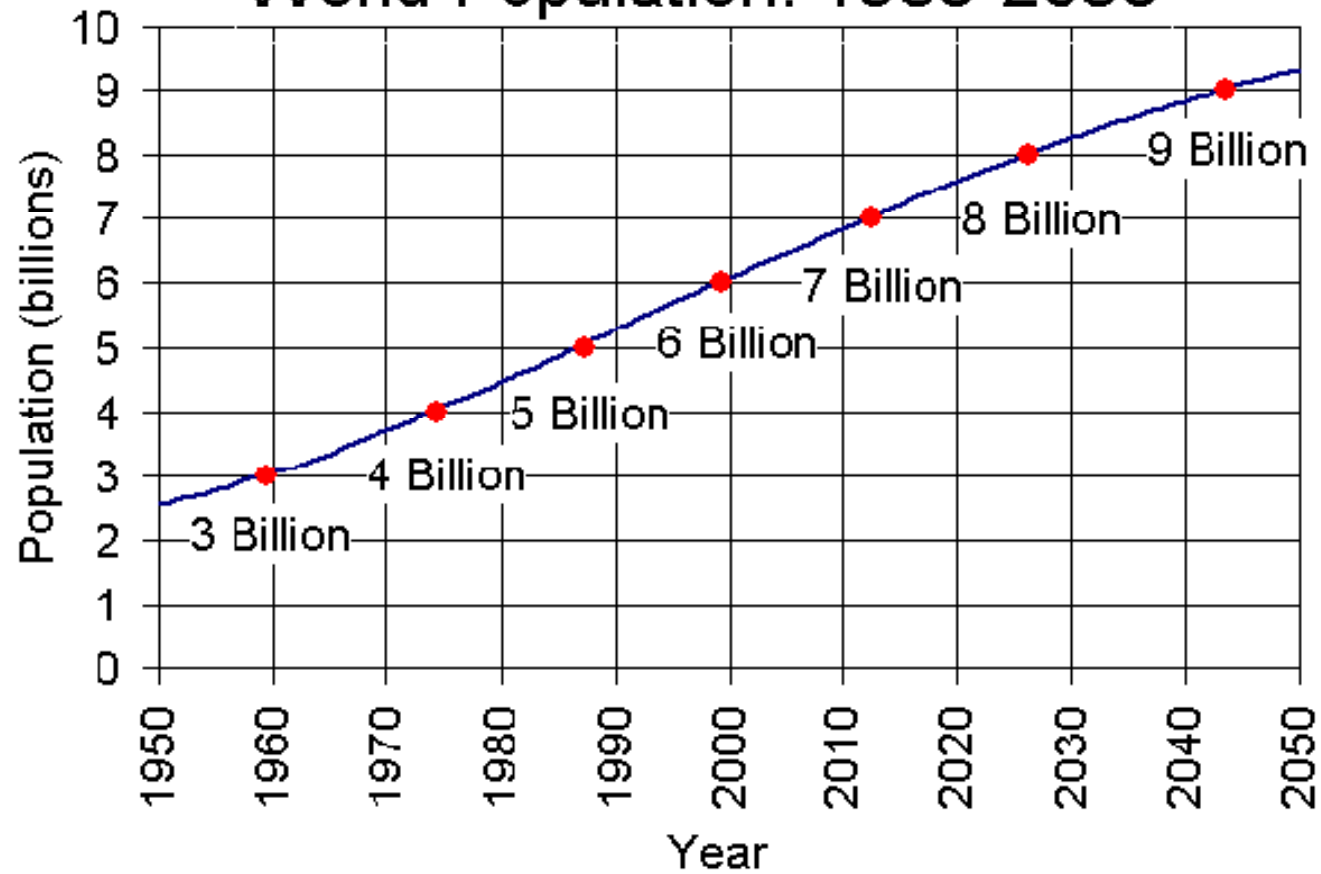


The Future of Agriculture

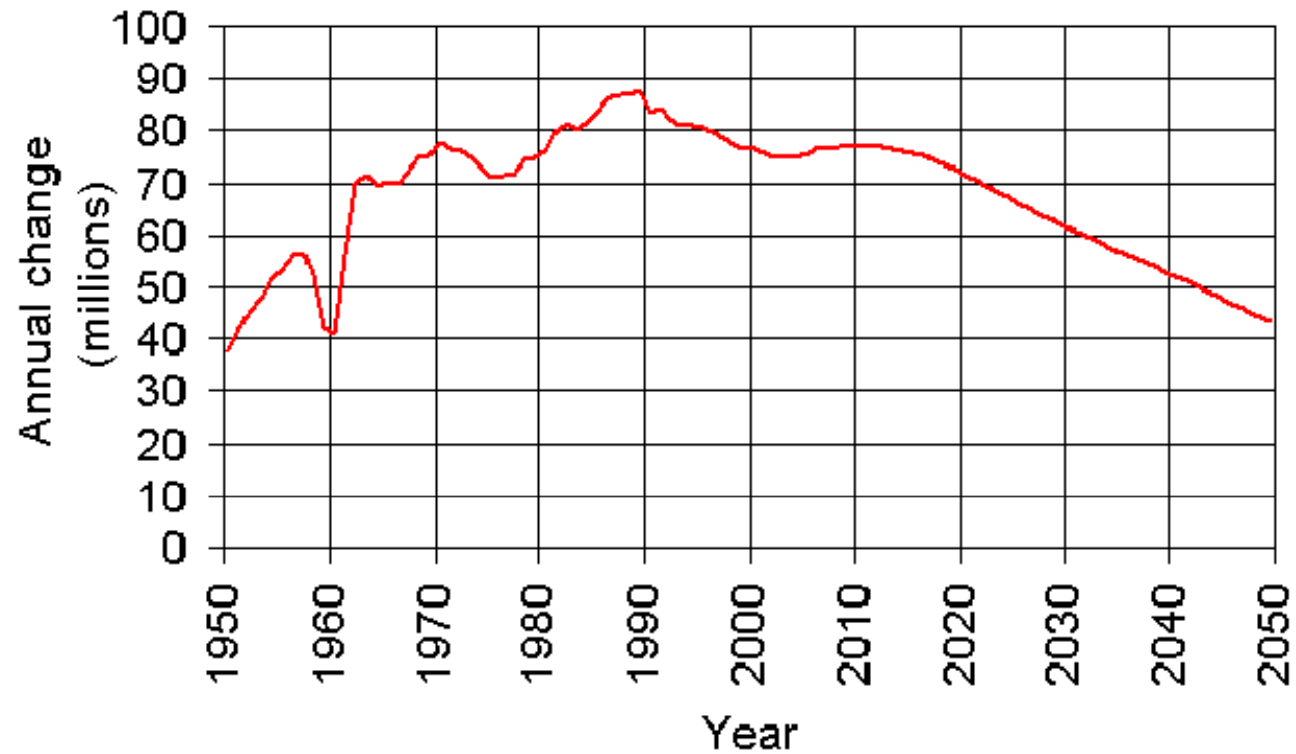
Something to be proud of

World Population: 1950-2050



Source: U.S. Census Bureau, International Data Base, June 2009 Update.

Annual World Population Change: 1950-2050



Source: U.S. Census Bureau, International Data Base, June 2009 Update.

- 6,792,130,276 people in the world today.
- 9 billion people in the world by 2042
- Almost a 50% increase during your career.
- Somebody has to feed all these people.
- We need energy for all these people.
- Somebody has to clothe all these people.



GET TOWN

£ GROOVY

- With this many people to feed and clothe and energize, there is no doubt agriculture world wide is alive and well.
- The question is, what will agriculture look like in the future; what role will the U.S. play; what role will Arkansas play?

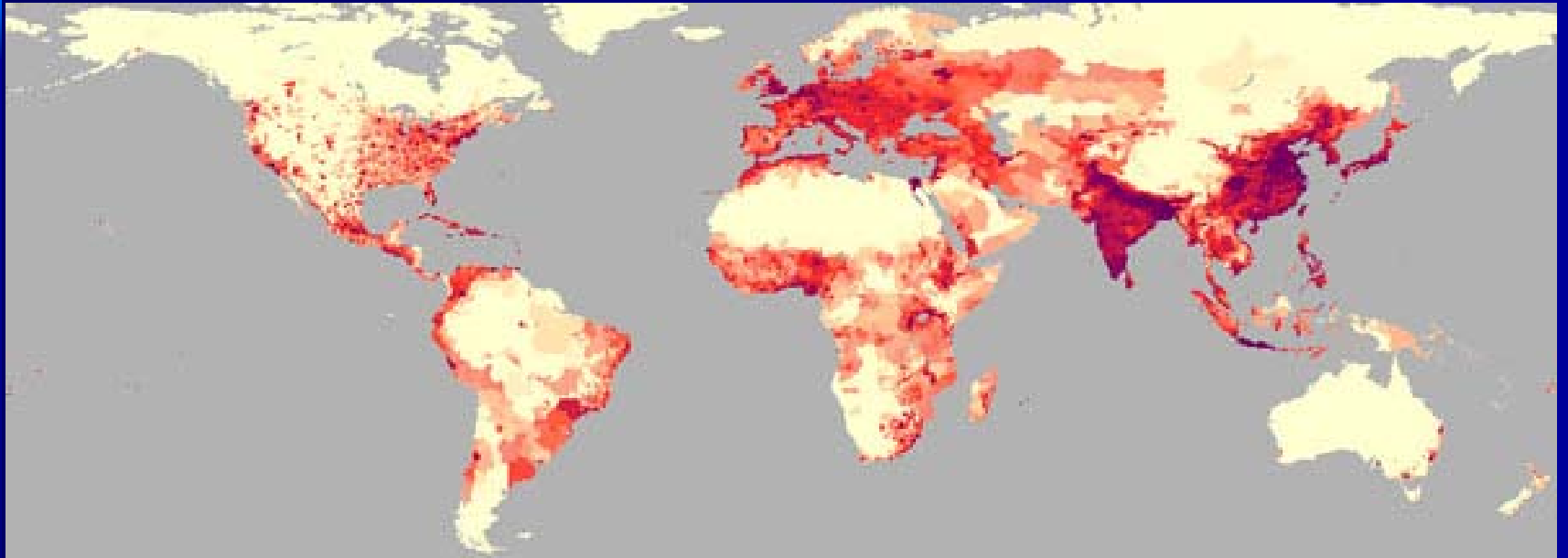
- More people need more land on which to live, which means more land for houses and buildings and roads.
- How will we grow more food on less land?

World Population by Continents

Continent	Human beings (millions)
World	6,705
Africa	967
Americas and the Caribbean	915
Asia	4,052
Europe	736
Oceania	35

updated: August 2008 Source: [Population Reference Bureau](#) (World Population Data Sheet)

Countries with the highest population density



The most populated countries of the world.

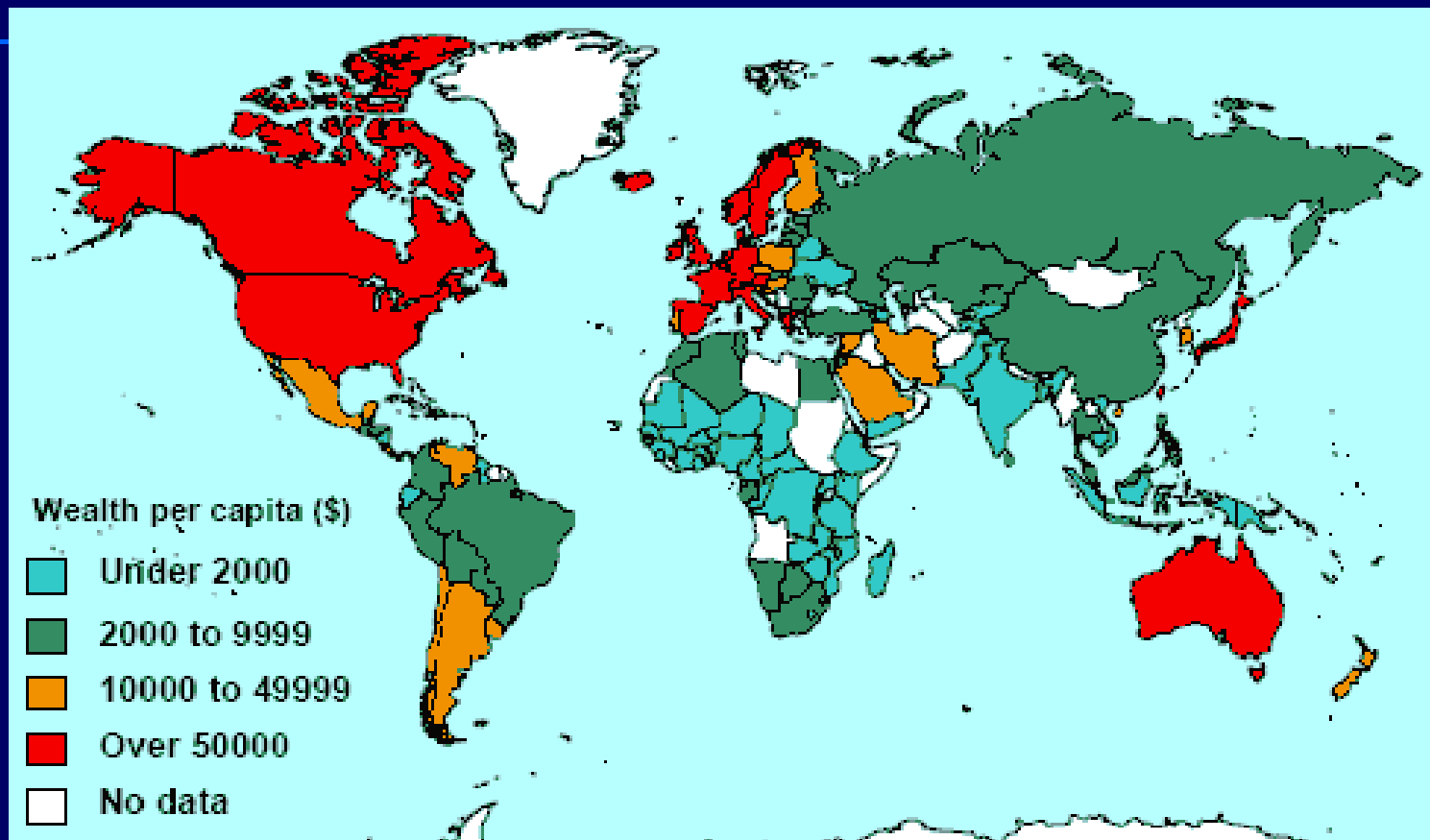
Country	Human Beings (millions)
<u>China</u>	1,324.7
<u>India</u>	1,149.3
<u>United States</u>	304.5
<u>Indonesia</u>	239.9
<u>Brazil</u>	195.1

updated: Aug 2008 - Source: 2008 World Population Data Sheet
Population Reference Bureau

Challenges facing agriculture

- Production: growing more food and fiber on less land.
- Transportation: getting products from the people who can grow it to the people who want to eat it.
- Comparative advantage: who can produce what the cheapest.

World Wealth Levels in Year 2000



Press Release

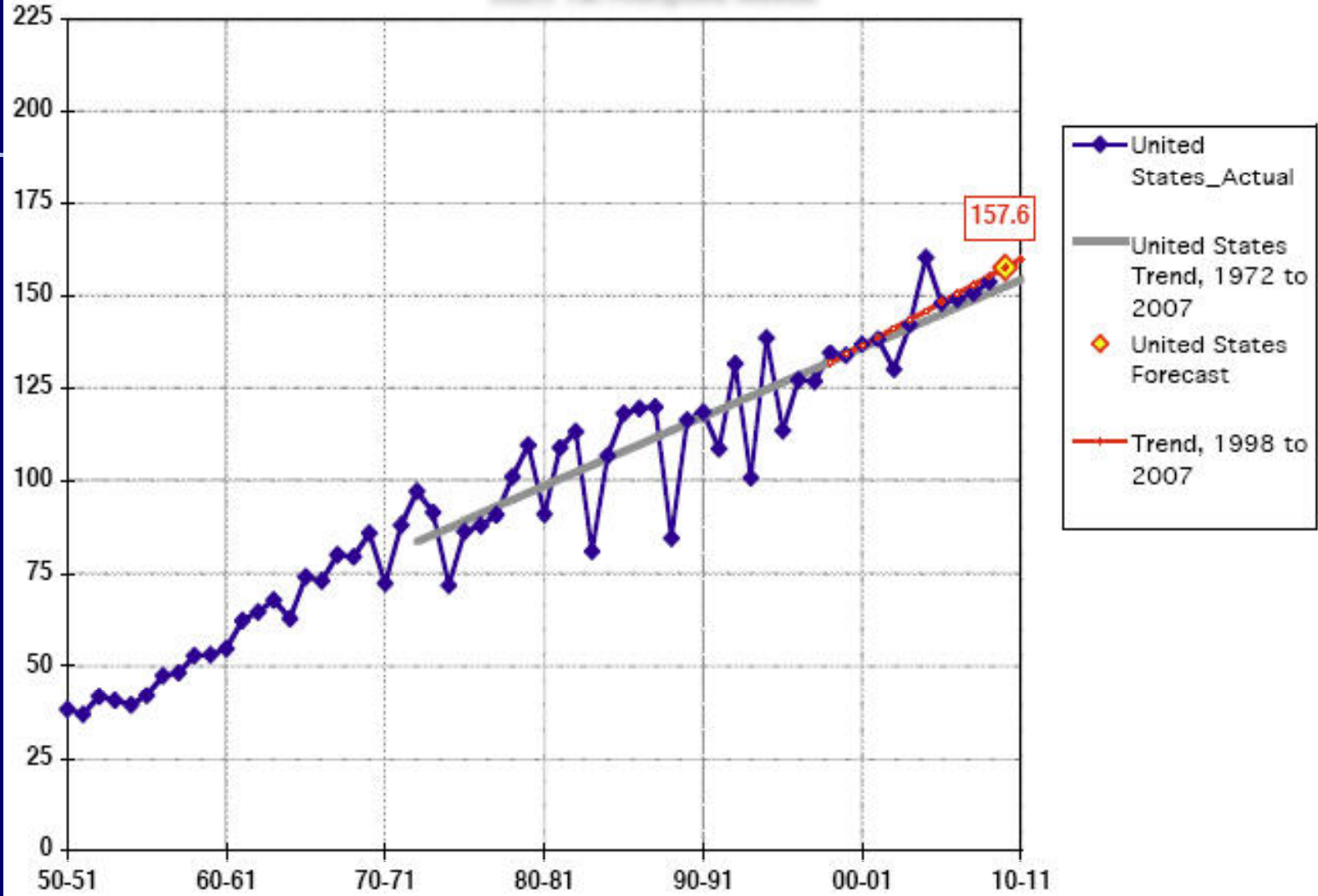
World Institute for Development Economics Research of the United Nations University

5dec2006

UNITED STATES CORN YIELD HISTORY AND TREND

Bushels per acre

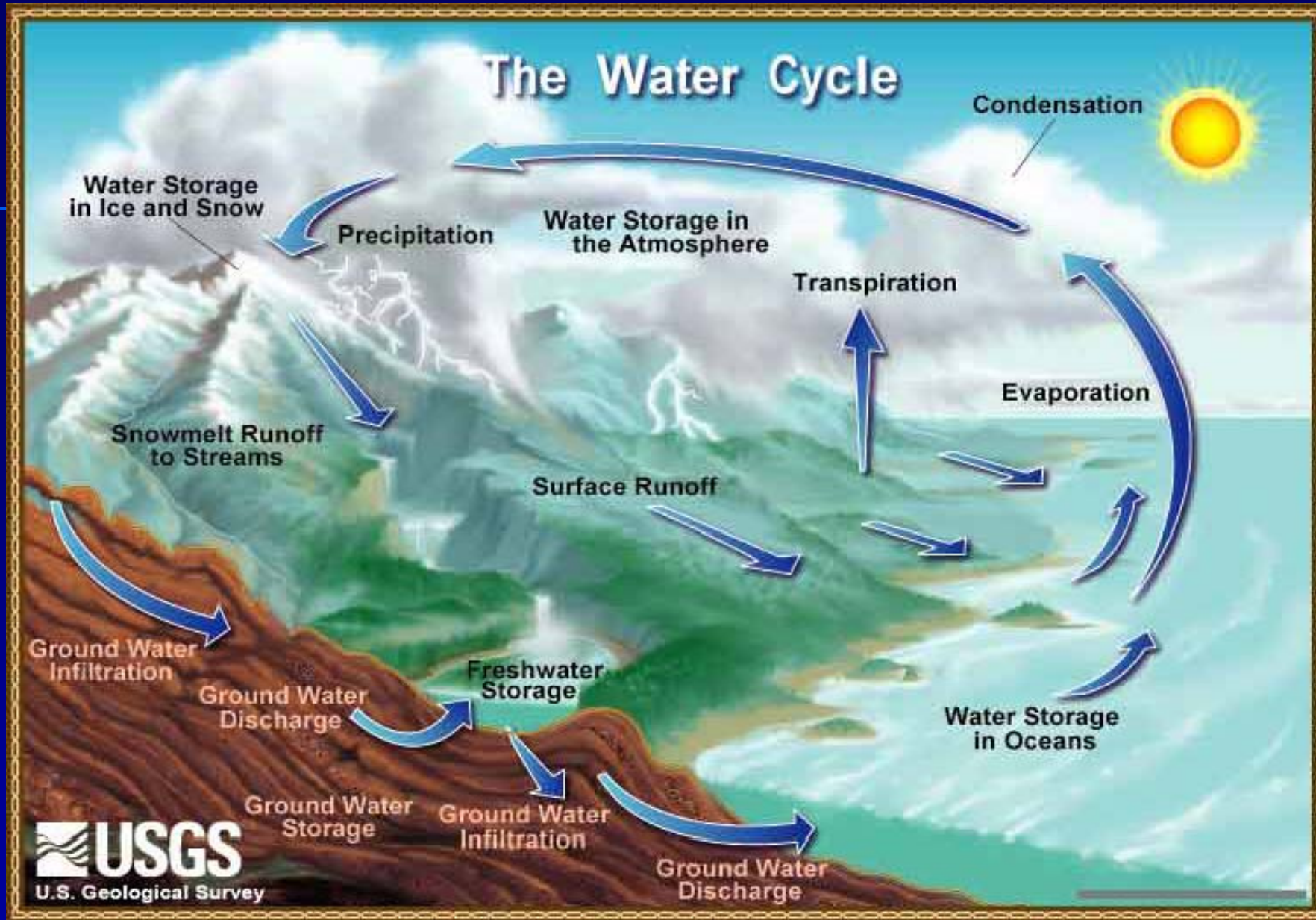
Source: The ProExporter Network



Current issues for global agriculture

- Water – one-third of the world is facing water shortages.
 - Urban uses
 - Recreational uses
 - Pollution
- Climate change
- Governments and policies

The Water Cycle



What role will the U.S. play in the future?

- The U.S. is a major consumer.
- We export about 1/3 of our agricultural production. Reliable and of good quality
- A leader in technology
- Expensive labor, land and machinery.
- Production could easily shift to other countries.

What role will Arkansas play in the future?

- We are a respectable producer in the U.S. and World.
- We have good climate, soil, water, etc.
- Close proximity to U.S. markets and export facilities.
- We have responsive legislators.
- We don't grow many specialty or high value crops.

Summary

- Feeding and clothing the world is a big job that is only going to get bigger.
- Agriculture is a global industry consisting of production, transportation, further processing and marketing.
- Agriculture is always changing.
- Certain areas of agriculture will rise and fall, but agriculture as a whole will remain viable.