Agriculture

Agriculture = the use of the land to produce food products for human and animal consumption and raw materials for industry

Agriculture

- Agriculture is important because:
 - it provides employment (about 40-45% of the world's labour force)
 - food production continues to rise and yields per hectare have increased
 - trade in agricultural products has escalated
 - farmland accounts for about 36% of global land use
 - it provides the basis of many manufacturing and service industries such as food processing, agricultural
 equipment, agricultural inputs (seeds, fertilizers, etc.) and a variety of services (financial, veterinary, marketing,
 transport)

Developed countries

- Importance of farming has declined in terms of employment
- Contribution to GNP is up to 10%

Economically LDCs

- Agriculture employs a major part of population <=> little industry
- Contribution to GNP is up to 50% (Ethiopia 51%, Ghana 45%, Tanzania 56%)
- Agriculture = primary industry => provides raw materials for the processing and manufacturing industry
 - e.g. milk for dairy industry
 - e.g. hemp/cotton/wool for clothing industry
 - . e.g. wheat for food industry
- Basic input in agriculture is <u>soil</u> (land)
 we plant the seeds into the soil, not to water, etc.

Farming as a system

Farming as a system

- a farm = a system
- Inputs into the system
- Processes taking place in it
- Outputs from the system
 - e.g. profits can be reused back in the system

Farming as a system

- Physical inputs
 - Climate
 - Amount and season of rain
 - Summer and winter temperature
 - Growing season
 - Relief
 - Soils and drainage

• Human and economic inputs

- Labour
- Rent
- Transport costs
- Machinery
- Fertilisers and pesticides
- Government control
- Seeds livestock
- Farm buildings
- Energy (electricity)
- Farming systems vary within and between countries because of different:
 - Physical conditions
 - Human conditions
 - Economic conditions
 - e.g. rice farming in India is quite different from the system of mixed farming in England
- Farmer as a decision maker
 - has to decide which crops to grow or which animals to rear => decision based on
 - physical factors
 - human factors
 - economic factors
 - chooses the type of farming most suitable to the conditions
 - using the <u>most efficient method</u>
 - to gain maximum profit

Types of farming

Types of farming

- Arable farming = ploughing of the land and the growing of crops
 - e.g. wheat, barley, peas, sugar beet, carrot, celery
- Pastoral farming = rearing animals
 - e.g. cattle, sheep, chicken

- Mixed farming = Arable + Pastoral farming together
 - Subtypes of farming:
 - Dairy farming
 - · Hill sheep farming
 - Horticulture
- Intensive farming = high inputs and high yields per unit area
 - e.g. wheat production in south Slovakia (5t/ha) or battery hen production ("battery farm")
- Extensive farming = low inputs and low yields (large areas)
 - e.g. free range chicken production in economically LDCs
- Nomadic farming = farmers move seasonally with their herds
 - . e.g. pastoralists in Kenya
- **Sedentary farming** = farmers remain in the same place
 - . e.g. dairy farm in Europe
- Commercial farming = products are sold to make a profit
 - e.g. market gardening in Netherlands
- Subsistence farming = products are consumed by the cultivators
 - e.g. cultivation by tribes in Amazonian rainforest
 - What is the interaction between commercial/subsistence farming and development of a country?
 - the more developed country = the more commercial farming
 - the less developed country = the more subsistence farming

Keywords

- inputs, processes, outputs, profits, incomes, expenditures, reinvestments, yields
- cultivating, growing crops, rearing animals, storage, drainage, irrigation (drainage), seeds, livestock, fertilisers, pesticides
- arable/pastoral/mixed farming, dairy/hill sheep farming, commercial/subsistence farming, intensive/extensive farming, nomadic/sedentary farming
- horticulture, graze (grazing), cattle, sheep, wheat, barley, peas, sugar beet, carrot, celery, herd, hemp, cotton, wool
- labour force (workforce), raw materials, (un)employment, food production, farmland