AGRILUTURAL PRODUCTIVITY

Impacts of climate change

CAUSE

FURTHER CAUSES

Soil Erosion: increase drying effect of soil

altering chemical properties of soil by preceptition, surface run off

Increased release of carbon dioxide is driving a positive feedback cycle as additional carbon dioxide is released from the soil.

- Increase in percipitaion
- Increase in CO2 levles
- limited water avaliablity
- Increase in, floods, droughts and heatwaves

EFFECT

CROPS

- heat stress in crops
- spread of disease
- reduce crop quality
- reduce yield of crops
- season shift will damage weather sensitive crops
- dry soil becomes infertile

LIVESTOCK

-increase mortality
-decrease appetite (more time will be needed to reach target weight)

-increase in pests and diseases
-warmer weather brings increase in pests, parasites and disease

-tropical diseases expected to spread into higher altitudes, livestock have no immunity to that-
->results in increase of veterinary fees for farmers

LIMITS TO CULTIVATION

-growing areas in Russia may extend by up to 64% by 2080 (an additional 245 million hectares)
-maize, sunflowers and soya beans will be viable at higher latitudes and altitudes
-Shrinkage of crop yield in equatorial area due to drastic increase in temperature levels
-Less frequent freezing and earlier end to winter season increase the range of citrus fruit growth e.g. Florida

IMPACTS

IMPACTED CROPS

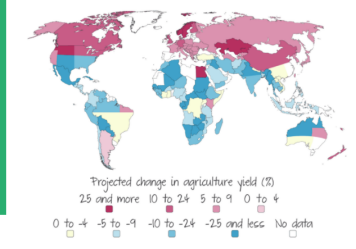
Positive:
Rice
Soya Beans

Negative:
Wheat
Maize

IMPACTED LIVESTOCK

- Pasture land becomes infertile and dry for animals
- Decrease in milk production
- Reduction in reproductive capacity
- Decrease in feed for livestock

GLOBAL IMPACT



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