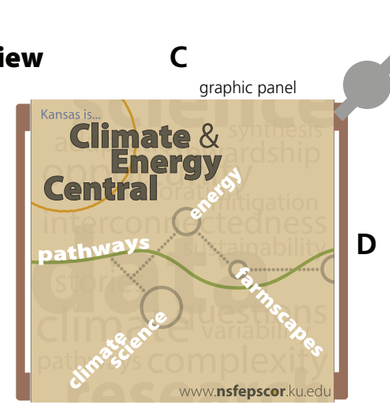
Climate & Energy Central

Introduction

Scale :1” = 1’

Top View



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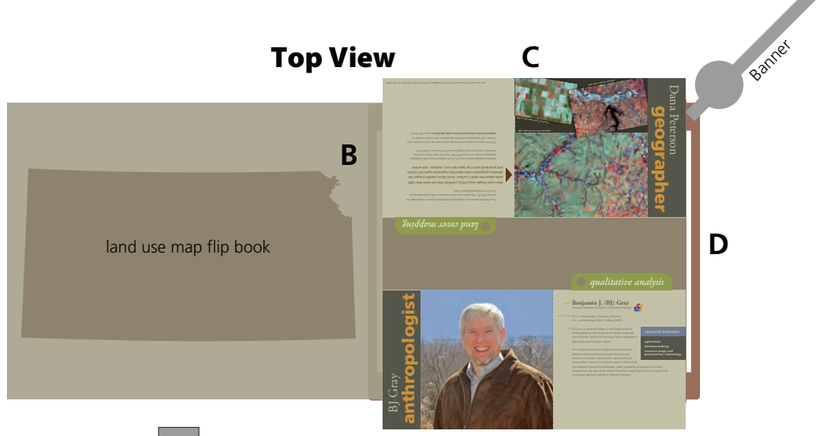
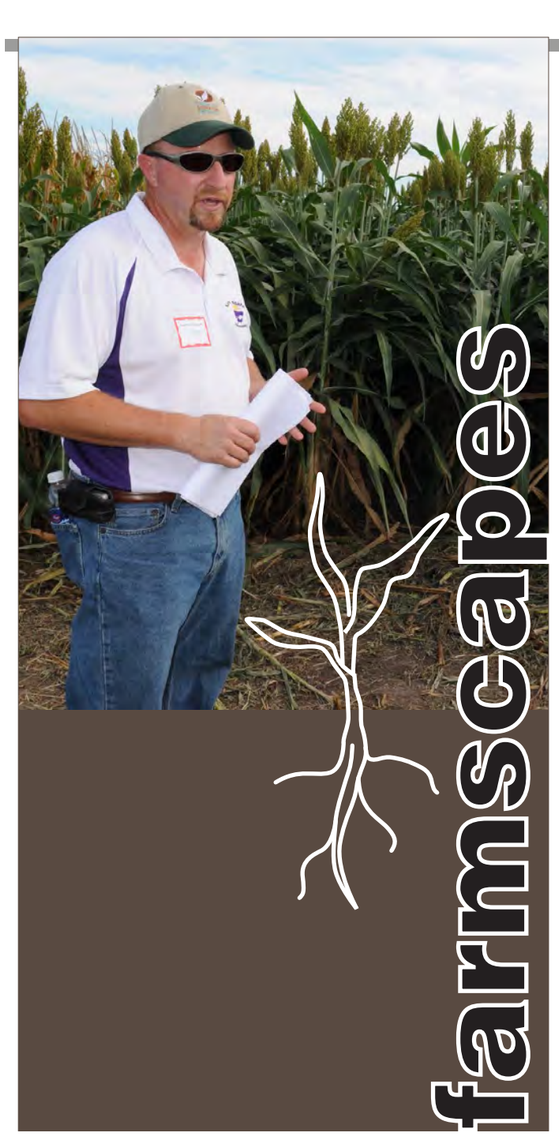
Farmscape

Scale :1” = 1’

Top View





How is the average farmer responding to enviromental changes?

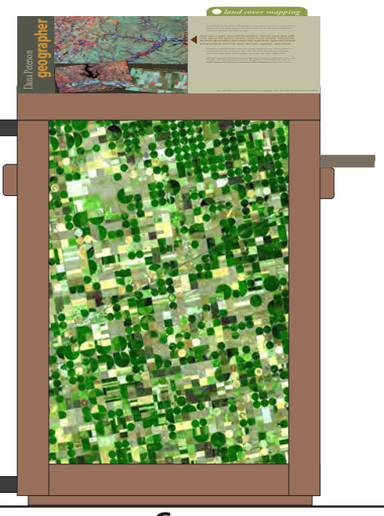
scientists study farming decisions

Kansas EPSCoR includes the BACC.FLUD group which is studying Biofuels And Climate Change: Farmers Land Use Decisions.

BACC.FLUD scientists survey Kansas farmers about their choices on growing “biofuel” crops (feedstock for renewable energy production). They interview farmers about how they use their land and compare that with information collected with satellite remote sensing technology. The scientists spend time talking with farmers about the many factors that influence their decisions.

To understand the complex choices Kansas farmers must make, the land use scientists are focusing on:

- availability of water
- perceptions of sustainability with respect to water and soil productivity
- loss in surface water quality due to change in land use (Conservation Research Program and similar government programs)
- social networks and farmers’ values and histories
- government policies that promote or restrain certain land uses (for example, corn subsidies)
- economic factors such as food crop prices and biofuel crop prices.



C

1 in 5 Kansans work in jobs related to agriculture and food production.

B

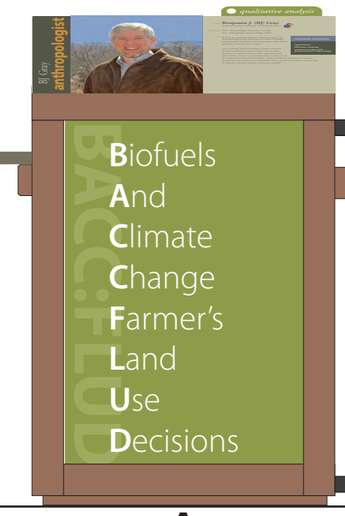
science in numbers & words

Scientists study the natural and human world. Some focus on experiments that result in **quantitative information**—data presented in numbers. Others do studies that seek **qualitative information**—data told in words.

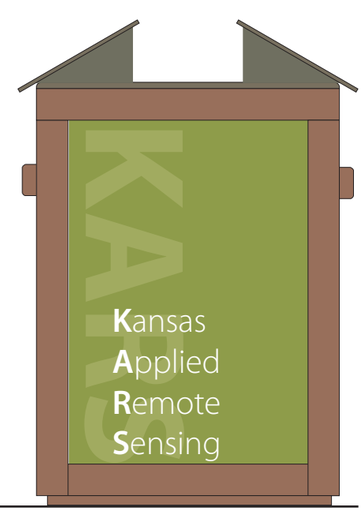
Combining quantitative and qualitative research helps scientists make better predictions about land use and the impact on water. We all discover more about our world when scientists ask different questions and search for answers in different ways.

Kansas EPSCoR research includes scientists from many different fields of study. They also represent different Kansas universities. Together they are learning how farmers make decisions to grow biofuel crops and their responses to climate change.

How many kinds of scientists can you find in the BACC.FLUD group? ?



A

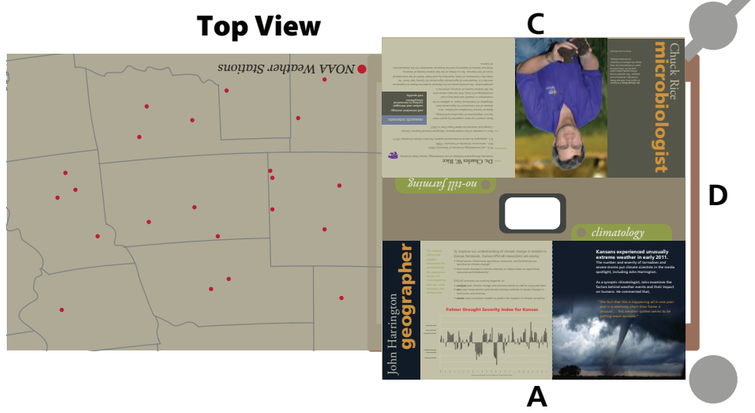


Climate & Energy Central

Climate Science

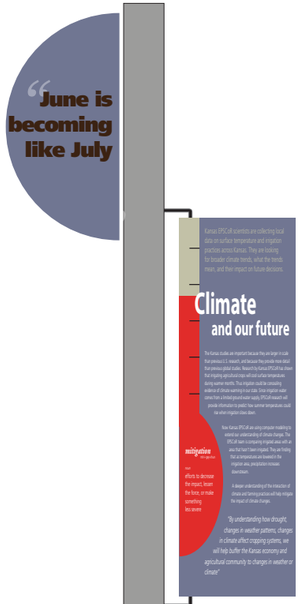
Scale :1" = 1'

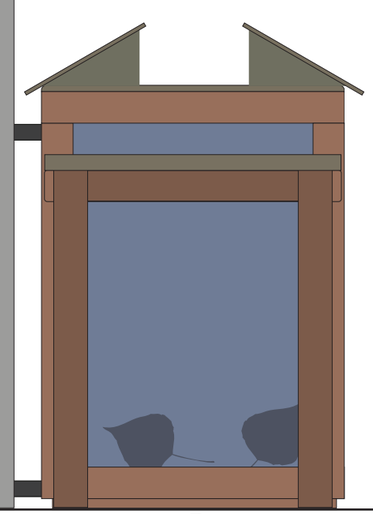
Top View



Is the Kansas climate changing?

C





B

A

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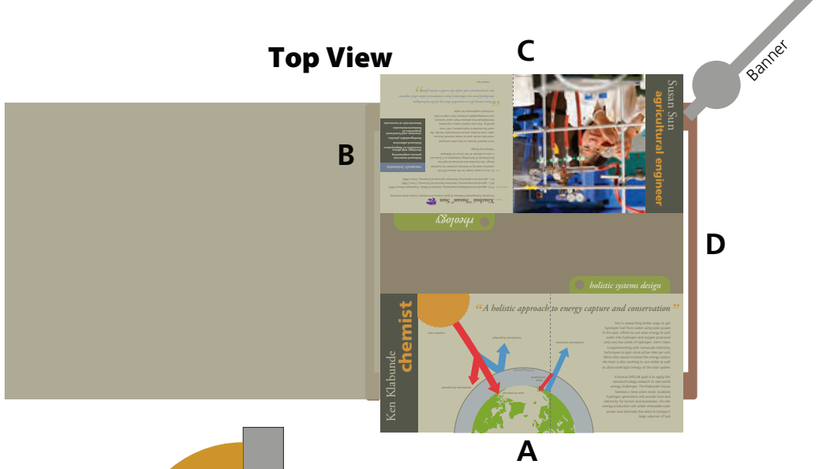
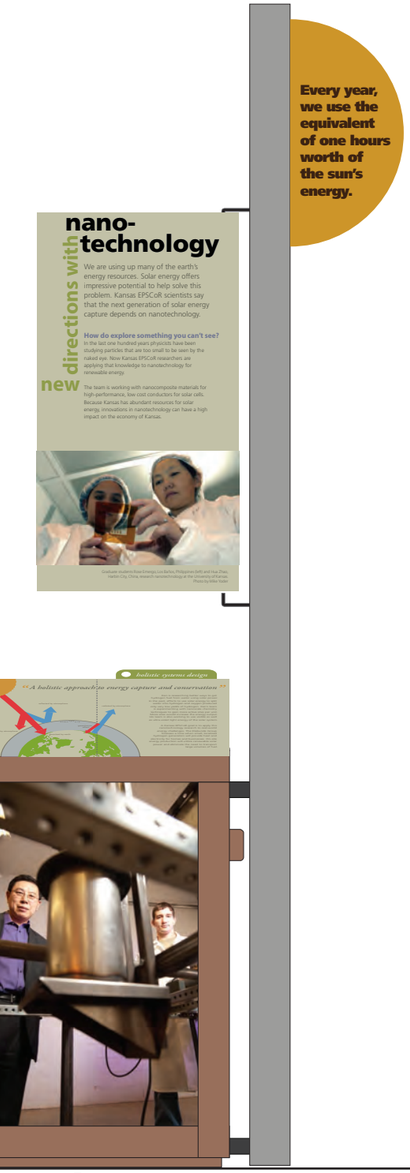
Energy

Scale :1" = 1'

Top View





C B A

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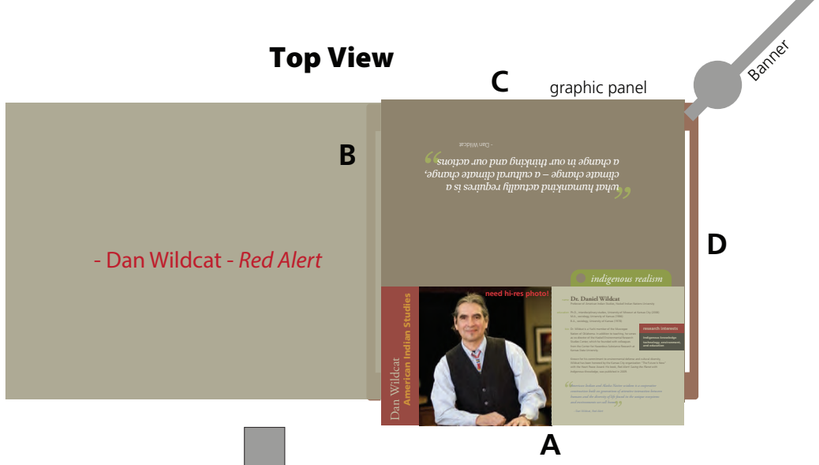
Pathways

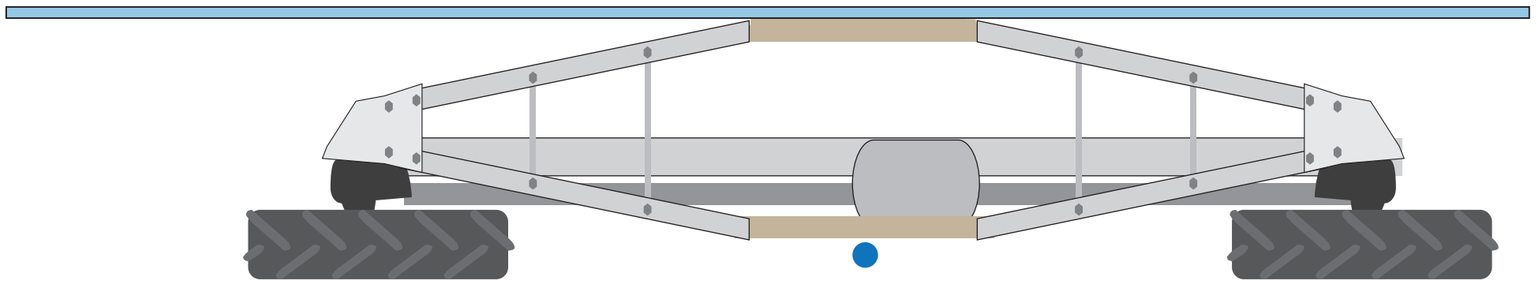
Scale :1” = 1’

Top View



Kansas EPSCoR Exhibit Project: **Centre Pivot Layout**
Based on parts to be supplied by Inman Irrigation/Valley
Background image from Valley- "Holdrege"
Flint Hills Design/Kauffman Museum, 3/27/12, KM 12/3/2015

Scale: 1/2" = 1'



Mural size: 240" x 100"

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Intro/ice core data mural

KM/FHD cr 3/28/12

Scale : 1" = 10"

"Dangler" which gives latest CO2 number

Banner width- 20'