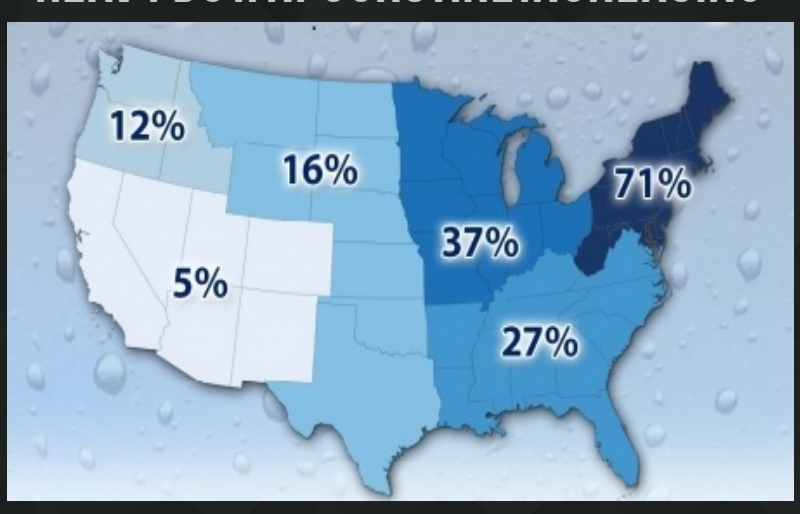
RAINFALL INTENSITY AND EROSION

TOP 10% HEAVIEST RAIN EVENTS ARE RESPONSIBLE FOR 60-70% OF ERODED SOIL

HEAVY DOWNPOURS ARE INCREASING



Percent increase from 1958 to 2012 in the amount of precipitation in heavy events

~35%

Of an increase in rainfall erosivity from 2011 to 2030 is predicted by climate models

EROSION IS A TERRIBLE SOURCE OF SOIL DEGRADATION

It eats away at the soil structure making the problem worse

1 mm/hr of rain can erode 34 lb soil/ acre

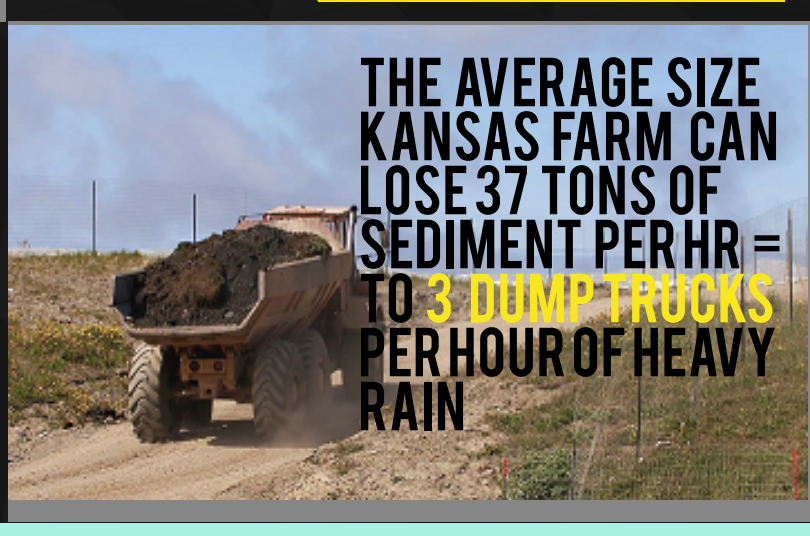
9 mm/hr can erode over 100 lb soil/acre

In many places rainfall intensity is

INCREASING

While total rainfall is

DECREASING



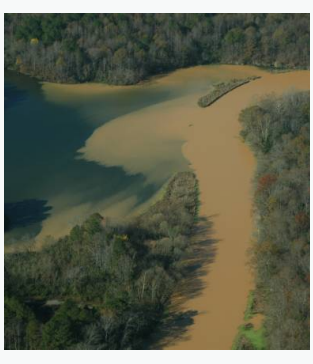
THE AVERAGE SIZE KANSAS FARM CAN LOSE 37 TONS OF SEDIMENT PER HR = TO 3 DUMP TRUCKS PER HOUR OF HEAVY RAIN

SOIL EROSION + CLIMATE CHANGE IS DANGEROUS

Reduced water storage

Lost nutrients and poor soil health

More runoff pollution

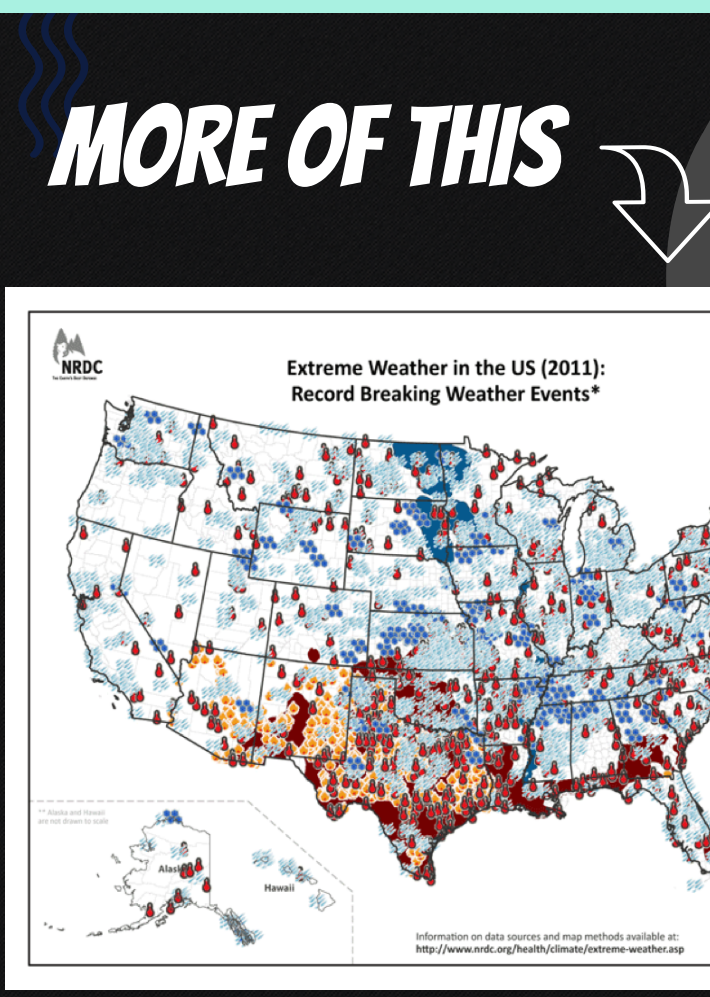


Sediment loading in water bodies

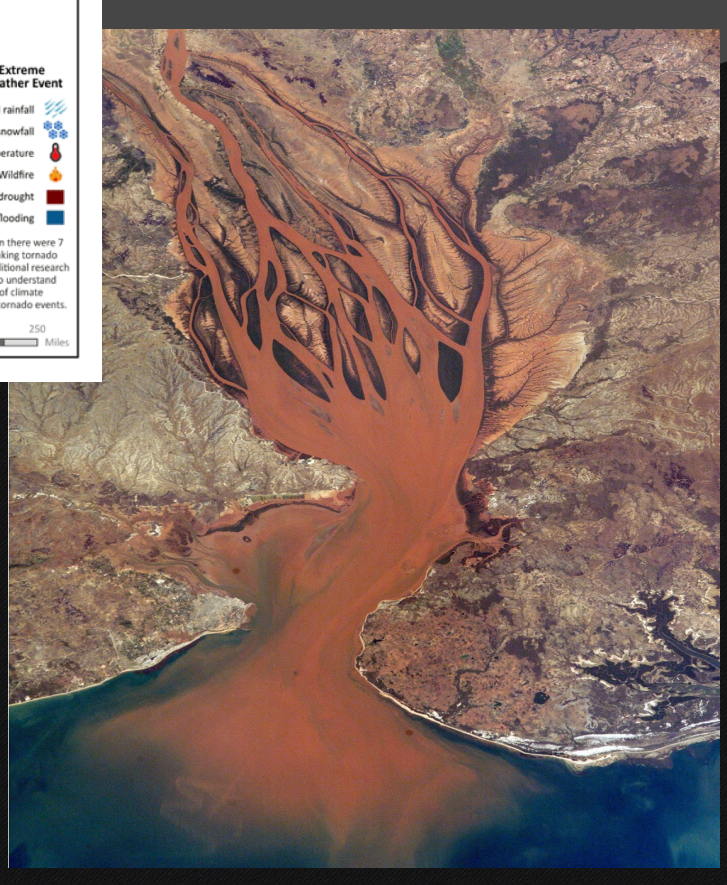
A 1 DEGREE C GLOBAL TEMPERATURE INCREASE IS EXPECTED TO INCREASE RAINFALL AND RUNOFF EVENTS THAT FALL IN THE 99TH PERCENTILE BY 70-99%

Leading to Reduced Agricultural Production, Landslides, Flashfloods, Mudflows

MORE OF THIS



IS GOING TO GIVE US MORE OF THIS



YOU CAN HELP!

Use best management practices to control erosion and keep soil in the fields where it belongs