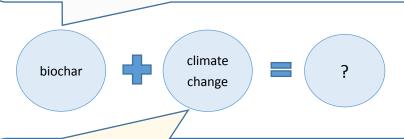
## Biochar application to agriculture soil:

- carbon sequestration
- reducing greenhouse gas
- improving soil quality, soil structure, nutrient availability



## **Extreme Hydrological Processes:**

- long term drought
- higher frequency of wet-dry cycle
- flooding

How do drought and wet-dry cycles with biochar amendments impact on agriculture soils:

- Nutrient leaching (e.g. NO<sub>3</sub>)
- ➤ Soil pH
- ➤ Soil water extractable organic matter (WEOM)
- > Soil microbial activities

## North American Drought 2011-2014

