Sevilleta

Will Pockman
LTER SCIENCE COUNCIL MEETING 2018
MADISON, WI
Site News – LTER award starts July 1*!

New conceptual framework: **Climate variability under a changing mean**

New publications in 2017: **35**

New Team of PIs:

Jennifer Rudgers (UNM)  Marcy Litvak (UNM)  Seth. Newsome (UNM)  Tom Miller (Rice)  Yiqi Luo (NAU)  Will Pockman (UNM)  Scott Collins (UNM)
Organic Matter at SEV... not much.

Decomposition Rate

Zhang et al. 2008

Brandt et al. 2010
SEV Organic Matter – experimental opportunities

Signature Experiment: What are the ecological consequences of increasing variability under a changing mean climate?

What is the role of carbon use efficiency of plants and microbes in mediating SOM turnover.

How can we leverage site characteristics beyond clay content to improve our understanding of SOM dynamics?

Sinsabaugh et al., 2017

Rasmussen et al., 2018

CUE_e = \frac{(\text{GPP} - \text{R_n})}{\text{GPP}} = \frac{\text{NPP}}{\text{GPP}}

CUE_n = \frac{\text{Microbial growth (\mu)}}{(\mu + \text{R_n})}

CUE_e = \frac{\text{NEP}}{\text{GPP}}