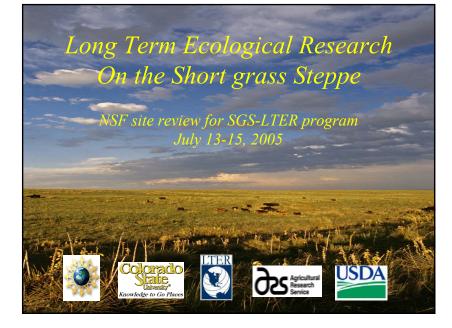
Our Agenda for today

- 8:00 Introduction and Overview of SGS-LTER Gene Kelly
- 8:30 Biogeochemistry Research Activities Indy Burke
- 8:50 Plant-Grazing Dynamics Research Activities Bill Lauenroth
- 9:10 Faunal Ecology Research Activities Mike Antolin
- 9:30 Land Atmosphere Research Activities Jack Morgan

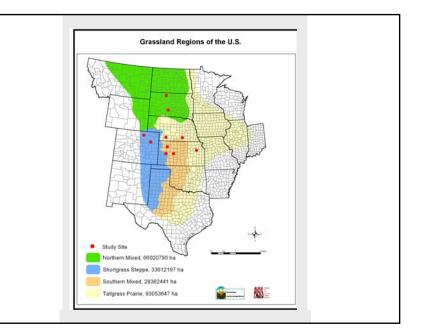
10:20 Break

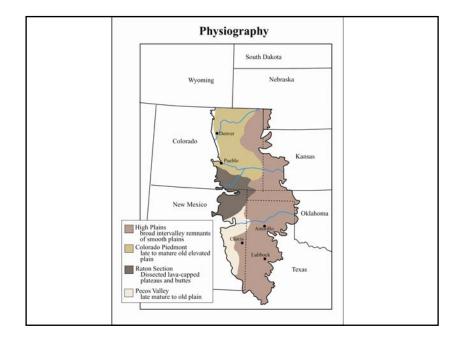
- 10:30 Vans depart from LSC for SGS-LTER Site
- 11:15 Stop 1 Land-Atmosphere Research
- 12:30 Stop 2 Lunch in the cottonwoods (box lunches provided)
- 1:30 Stop 3 *Plant Ecosystem Dynamics Research*
- 2:45 Stop 4 *Biogeochemistry Research*
- 4:00 Stop 5 Faunal Ecology Research
- 5:15 Poster session/cocktail hour, followed by barbecue
- 7:30 Transport Site Review Team back to Armstrong Hotel

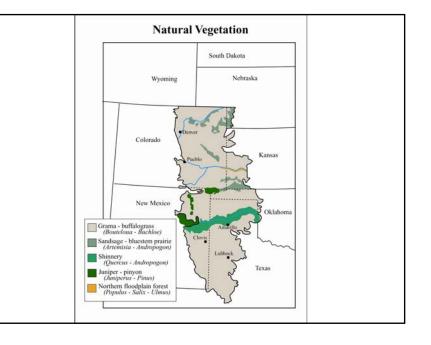


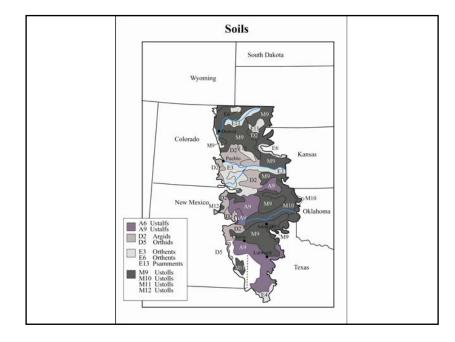
Our goals for the site review are to:

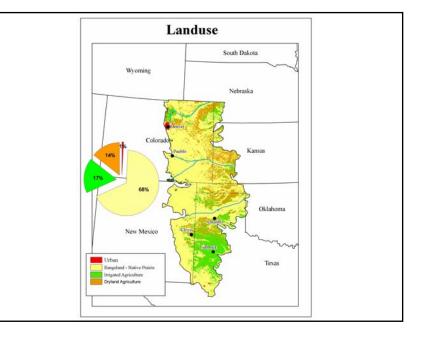
- Provide introduction and background to the Shortgrass Steppe LTER Program
- Highlight current research activities and accomplishments
- Tour SGS facilities and field research sites
- Provide updates on information management
- Overview and updates on educational and outreach activities
- Overview project management
- Present the central focus for the next three years, new initiatives and plans for the future









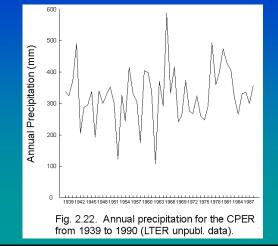


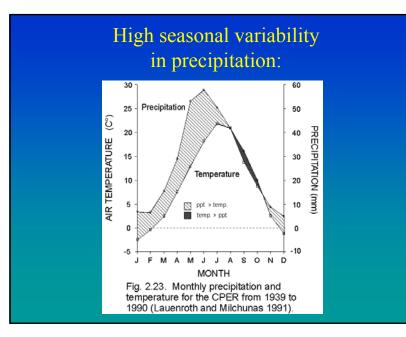
The evolution of this grassland system was driven by *grazing, periods of drought and landscape instability.*

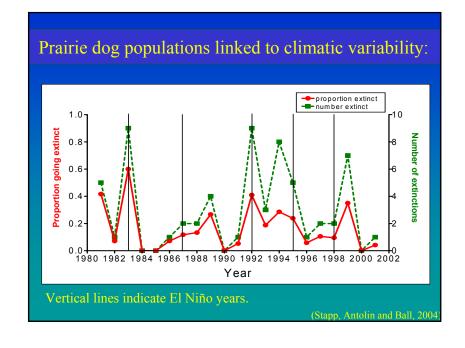
These essential and interactive factors were responsible for the structure and function of this ecosystem

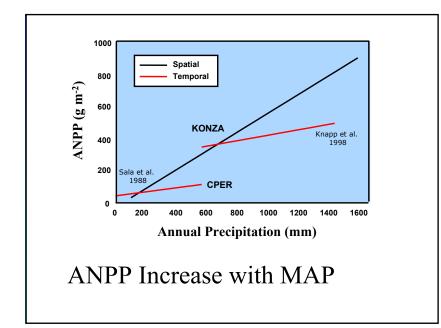




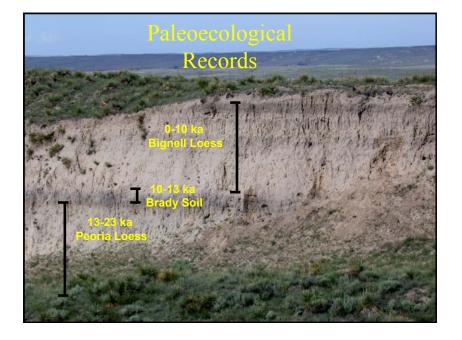




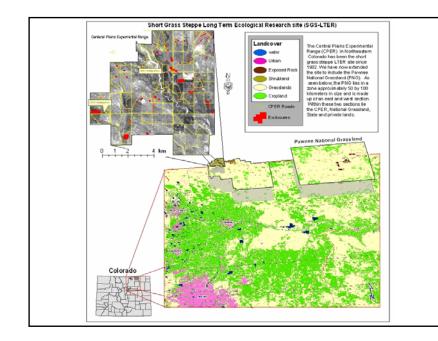


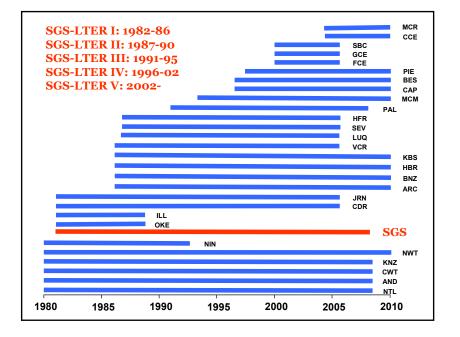






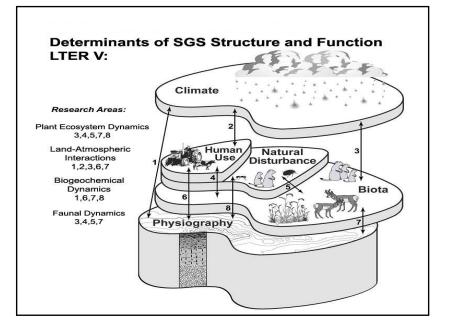
"The nature of the vegetation and the distribution of resources belowground promotes resistance of this system to disturbance and is unmatched elsewhere".





SGS-LTER conceptual framework:

- LTER I (1982-86): Landscape structure and catena concept
- LTER II (1987-90): Origin and persistence of spatial patterns.
- LTER III (1990-96): Nested hierarchy of spatial/ temporal patterns & scales
- LTER IV (1997-02): Determinants of ecosystem structure & function



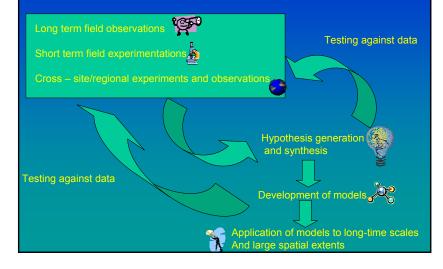
LTER V

What factors regulate the ecological structure and function of the SGS over space and time ?

How do the factors that regulate the ecological structure and function and the coupling of biotic and abiotic components vary spatially and temporally within the SGS?

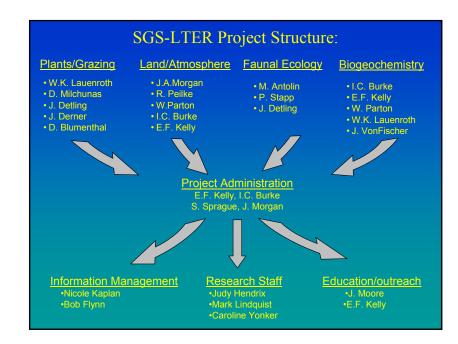
What are the biotic and abiotic <u>thresholds</u> that determine the vulnerability of the SGS to changes in the factors influencing ecological structure and function?

How we do our science:



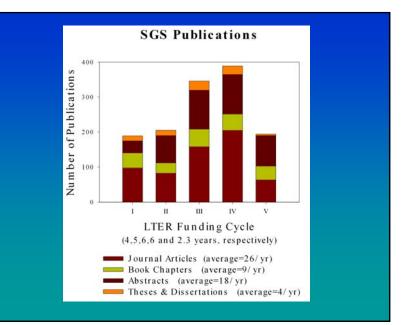
SGS-LTER Leadership:

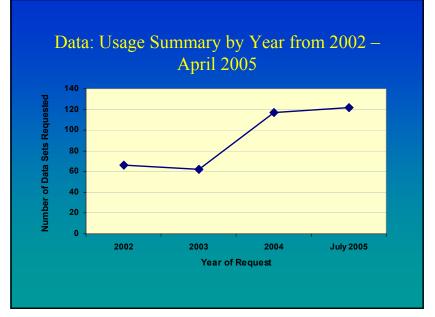
- LTER I : Lauenroth/Woodmansee
- LTER II: Lauenroth
- LTER II/III: Lauenroth/Burke
- LTER III: Burke/Lauenroth
- LTER IV: Burke/Lauenroth/Kelly
- LTER V: Kelly/Burke/Antolin



Key aspects of SGS-LTER program management:

- Distributed leadership (day-to-day)
- Working groups (L/A, BGC, P/G, FE, IM, E/O)
- Workshop every other year
- Brown Bag Seminars and PI meetings (2x month)
- E-mail, listserv and web page communications with all collaborators
- Subcontracts to support non-CSU collaborators
- Administrative and Scientific support for Grant Writing/Submission





LTER K-12 Initiatives		
DOE UBMS FSI NSF RAMHSS NSF Schoolyard NSF EdEn	1996-2008 1958-pres Supplements Supplements 2004-2006	\$ 3.2M \$100K yr ¹ \$10K yr ¹ \$15K yr ¹ \$68K
LTER Undergraduate Initiatives		
NSF REU	Supplements	\$10K
NSF UBM	March 2005	\$ 1.2M
NSF UMEB	October 2005	\$ 500K
LTER Graduate Initiatives		
NSF GK-12	2001-2010	\$ 2.9M
NSF CLT-W	2001-2006	\$ 10M
CDE MSP	2003-2006	\$ 750K

