

# Oklahoma Panhandle Research & Extension Center

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<http://oaes.pss.okstate.edu/goodwell>

## ★ OPREC, Goodwell

- ❖ Biofuels
- ❖ Canola
- ❖ Corn
- ❖ Crop Rotation
- ❖ Feeding Distiller's Grains
- ❖ Irrigation & Water Management
- ❖ Soil Fertility
- ❖ Sorghum
- ❖ Soybeans
- ❖ Sunflowers
- ❖ Weed Management
- ❖ Wheat

## 2011 Research Highlights

Division of Agricultural Sciences and Natural Resources  
Oklahoma Panhandle Research and Extension Center  
Oklahoma State University  
Field & Research Services Unit  
Department of Animal Science  
Department of Entomology and Plant Pathology  
Department of Plant and Soil Sciences  
Department of Biosystems and Agricultural Engineering

## **OKLAHOMA PANHANDLE RESEARCH AND EXTENSION CENTER**

The Division of Agricultural Sciences and Natural Resources (DASNR) including the Oklahoma Agricultural Experiment Station (OAES) and the Oklahoma Cooperative Extension Service (OCES) at Oklahoma State University (OSU) have a long history of working cooperatively with Oklahoma Panhandle State University (OPSU) to meet the needs of our clientele, the farmers and ranchers of the high plains region. OAES is the research arm of DASNR and continues with the mission to conduct fundamental and applied research for the purpose of developing new knowledge that will lead to technology improvements addressing the needs of the people. The OCES continues to strive to disseminate the research information generated by OAES to the public through field days, workshops, tours, and demonstrations. This has been and will continue to be a major focus of our efforts at the Oklahoma Panhandle Research and Extension Center. Together as a team we have been able to solve many significant problems related to high plains agriculture.

The OPREC is centrally operated within the Field and Research Services Unit (FRSU) of the OAES. The FRSU serves as the back bone for well over 1,000 statewide field and lab based research trials annually. Our unit consists of 18 outlying research stations including the OPREC, the Controlled Environmental Research Lab, the Ridge Road Greenhouse Phase I and Phase II, the Noble Research Center and the Stored Product Research and Extension Center. The FRSU works to provide a central focus for station operations and management with the goal to improve overall efficiency by providing a systematic means for budget management, facility upgrades, consolidation of labor pools, maintenance and repair of equipment and buildings, and other infrastructure needs.

The Oklahoma Panhandle Research and Extension Center at Goodwell is committed to serving the people of the region. Many staff continue to serve our clientele and include; Rick Kochenower Area Agronomy Research and Extension Specialist, Britt Hicks Area Livestock Extension Specialist, and Lawrence Bohl Senior Station Superintendent of OPREC. Other essential OPREC personnel include Donna George Senior Secretary, Craig Chesnut Field Foreman II, Jake Baker Agriculturalist, and several wage payroll and part-time OPSU student laborers. OSU faculty members from numerous Departments utilize OPREC to conduct research and extension efforts in the Panhandle area. Additionally, OPREC continues to serve as a "hub" for our commodity groups and agriculture industries by hosting informative agriculture related meetings annually.

The DASNR, OAES, and OCES truly appreciate the support that our clientele, farmers, ranchers, commodity groups, industry, and other agricultural groups have given us over the years. Without your support many of our achievements would not have been possible. We look forward to your continued support in the future and to meeting the needs of the research, extension, and teaching programs in the high plains region.

Jonathan Edelson  
Interim Associate Director  
Oklahoma Agricultural Experiment Station  
Division of Agricultural Sciences and Natural Resources  
Oklahoma State University

The staff at OPREC, OAES F&RSU, Department of Plant and Soil Sciences, Department of Animal Science and Department of Biosystems and Ag Engineering at Oklahoma State University would like to thank the companies and individuals listed below, for providing resources utilized in research projects. Their valuable contributions and support allow researchers to better utilize research dollars. This research is important for producers in the high plains region, not just the Oklahoma panhandle. We would ask that the next time you see these individuals and companies that you say thank you with us.

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Archer Daniels Midland Company  
BASF  
Bayer Crop Sciences  
Dow Agro Sciences (Jodie Stockett)  
DuPont (Jack Lyons and Robert Rupp)  
Farm Credit of Western Oklahoma  
Green Country Equipment  
Hitch Enterprises  
Liquid Control Systems (Tim Nelson)  
Midwest Genetics (Bart Arbuthnot)  
Monsanto (Ben Mathews, T. K. Baker, Mike Lenz)  
National Sorghum Producers  
Rick Nelson  
GM Northwest Cotton Growers Co-op  
Oklahoma Genetics, Inc.  
Oklahoma Grain Sorghum Commission  
Oklahoma Wheat Commission  
Oklahoma Wheat Growers  
OPSU  
Orthman Manufacturing  
Pioneer Seed (Ramey Seed)  
Sorghum Partners  
Hopkins Ag/AIM Agency (J. B. Stewart & Jarrod Stewart)  
Syngenta  
Texhoma Wheat Growers  
Triumph Seed Company  
United Sorghum Checkoff Program  
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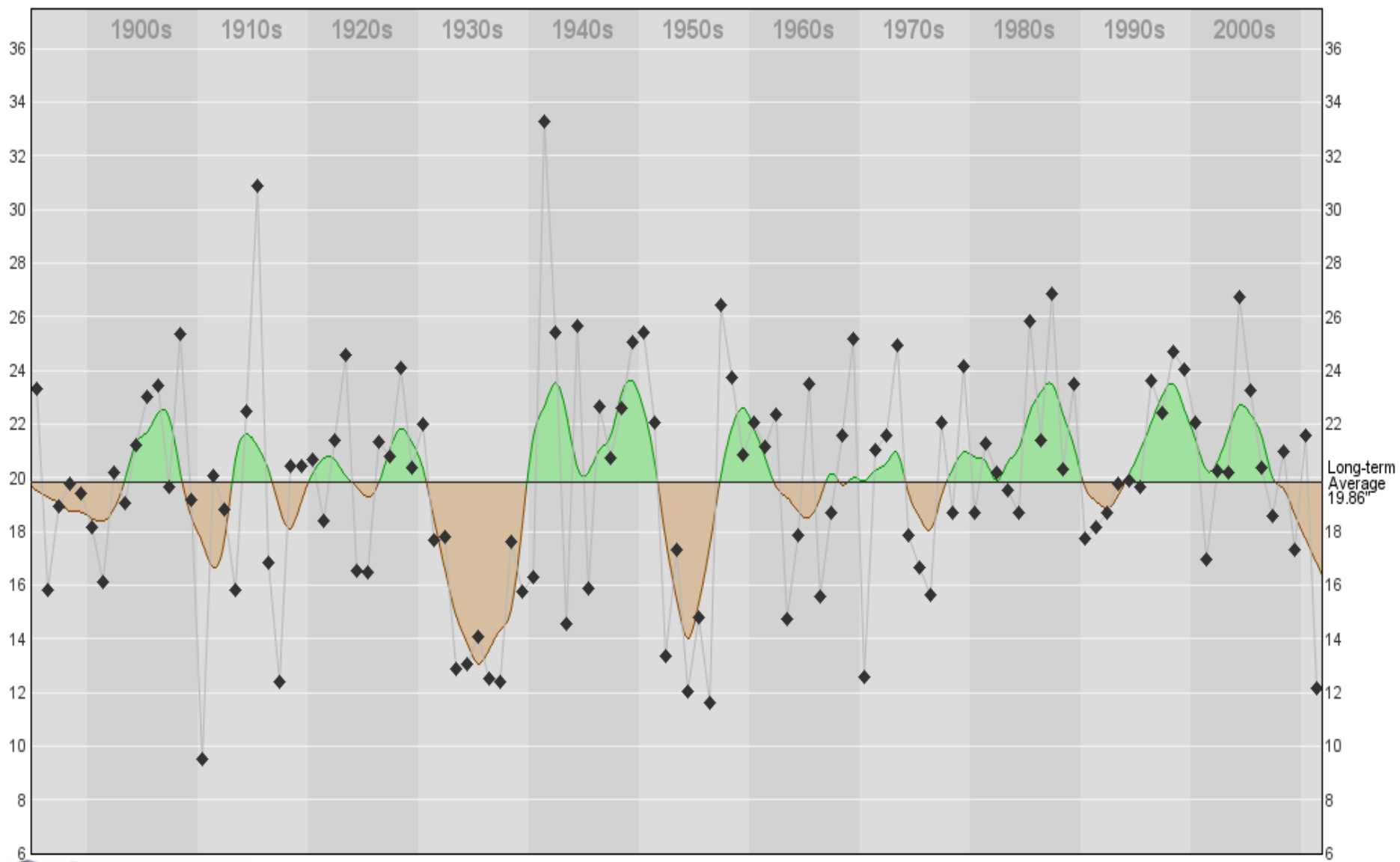
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## 2012 Oklahoma Panhandle Research and Extension Center

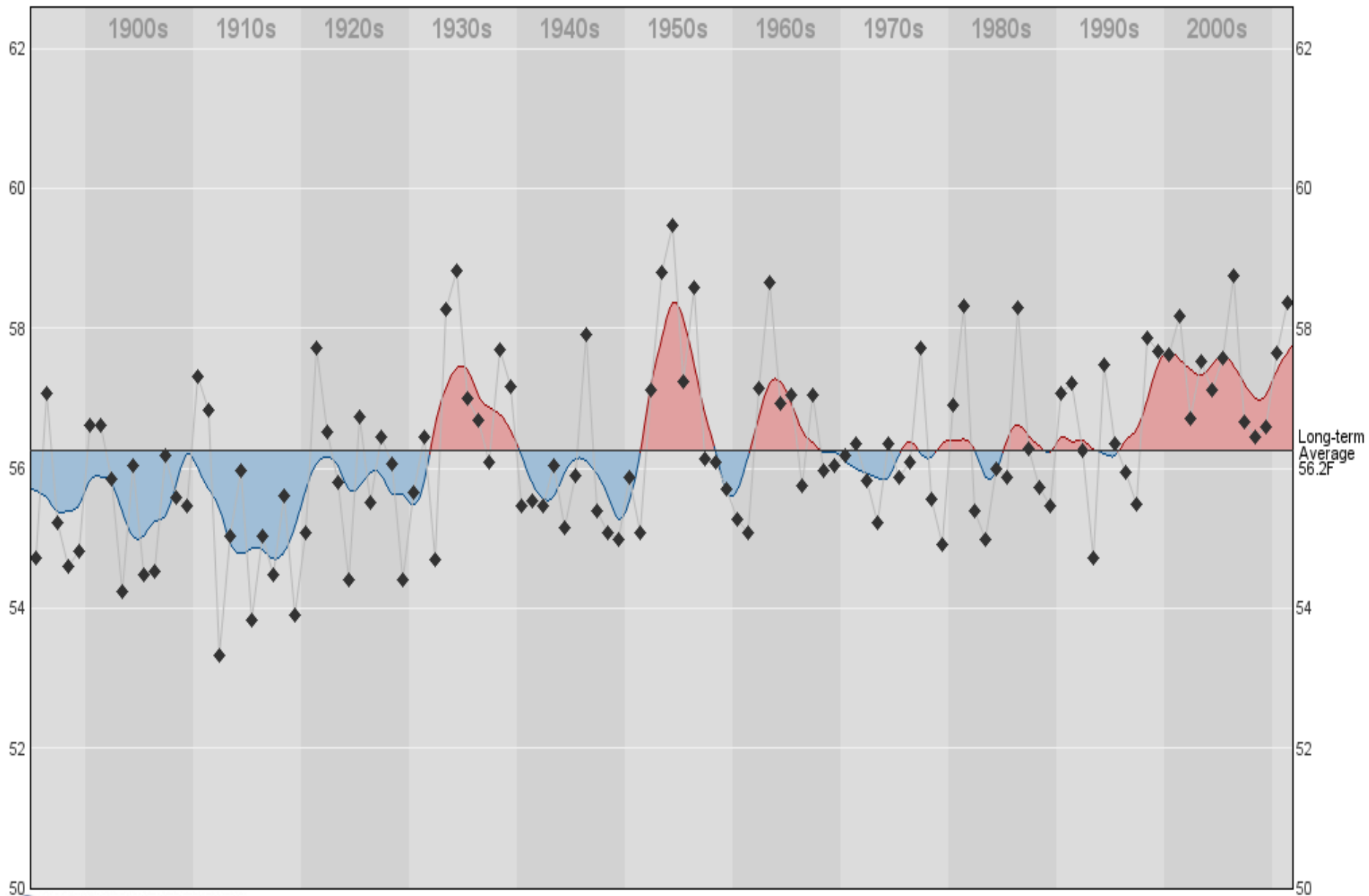
### Staff and Principal Investigators

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**OKLAHOMA CLIMATOLOGICAL SURVEY** Annual Precipitation History with 5-year Tendencies  
 OK-CD1 (1-Panhandle): 1895-2011

■ Wetter periods    ■ Drier periods  
◆ Annual precipitation value



**OKLAHOMA** Annual Temperature History with 5-year Tendencies  
 CLIMATOLOGICAL SURVEY OK-CD1 (1-Panhandle): 1895-2011

■ Warmer periods    ■ Cooler periods  
◆ Annual temperature value

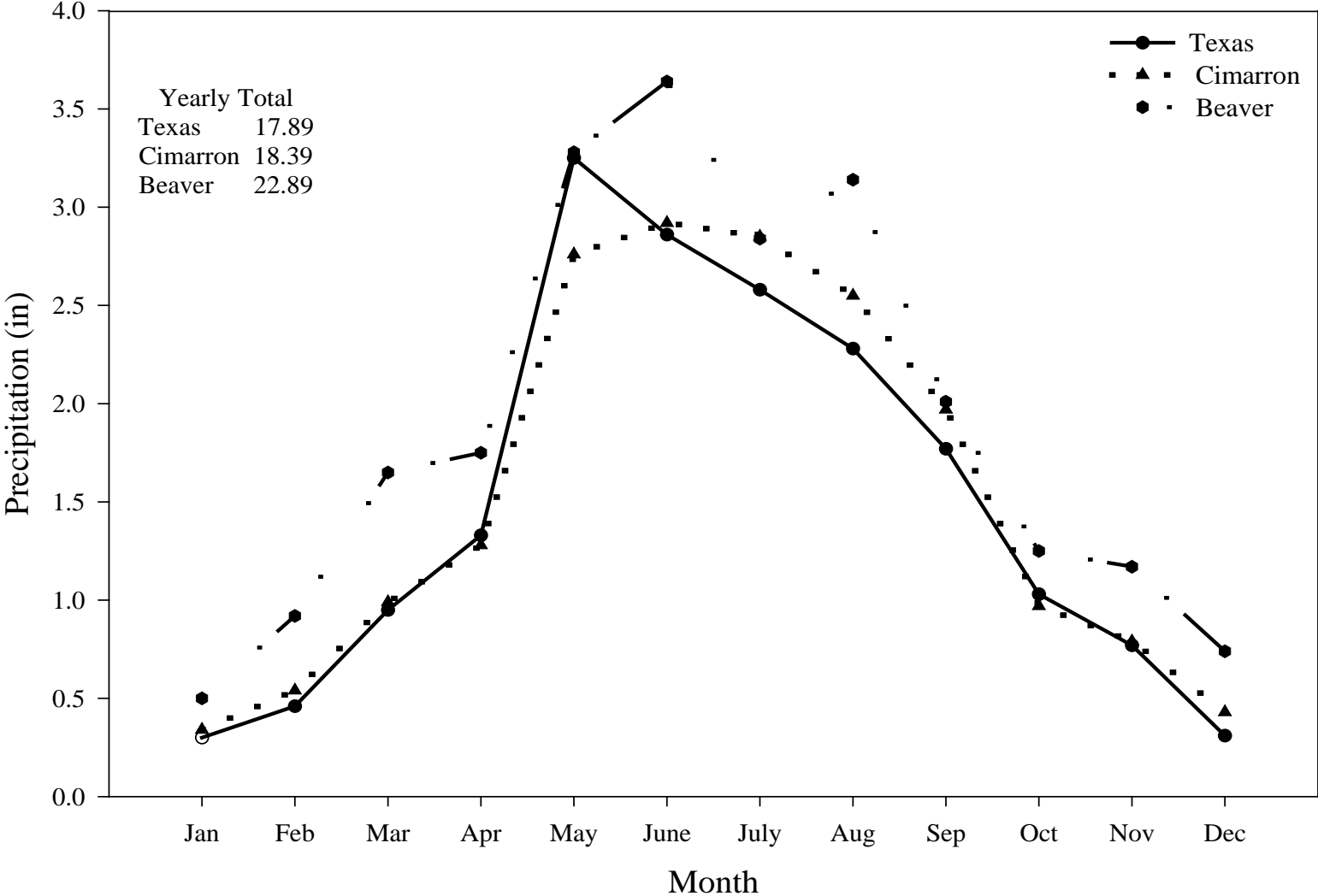
**Climatological data for Oklahoma Panhandle Research and Extension Center, 2011.**

Month	Temperature								Precipitation				Wind	
	Max		Min		Max. mean		Min. mean		Inches		Long term mean	Largest one day total	AVG mph	Max mph
	2011	2010	2011	2010	2011	2010	2011	2010	2011	2010				
Jan	73	67	-5	-6	49	48	17	17	0.12	0.49	0.30	0.04	10.5	43.7
Feb	81	57	-8	9	52	39	18	20	0.09	1.51	0.46	0.05	13.7	51.6
March	85	87	9	18	63	60	31	30	0.06	2.51	0.95	0.03	13.1	55.2
April	92	87	27	24	74	69	39	41	0.94	1.76	1.33	0.63	15.5	63.2
May	103	92	31	31	81	77	47	47	0.51	2.64	3.25	0.42	15.0	63.3
June	111	103	53	51	97	91	62	63	0.53	3.16	2.86	0.29	15.1	61.6
July	108	102	62	58	101	93	68	66	0.17	1.22	2.58	0.06	11.8	51.2
Aug	105	103	62	49	98	93	68	64	2.05	5.42	2.28	0.67	10.6	51.3
Sept	102	99	41	42	83	88	54	56	1.67	0.20	1.77	0.75	11.3	45.5
Oct	91	89	29	26	76	76	43	43	0.61	0.81	1.03	0.32	13.5	53.1
Nov	76	81	20	8	61	61	31	27	0.79	0.29	0.77	0.44	13.7	57.2
Dec	64	71	2	2	41	51	21	22	1.17	0.34	0.31	0.62	12.8	52.2
	Annual total				73	70	41.5	40.5	8.71	13.03	17.9	NA	NA	NA

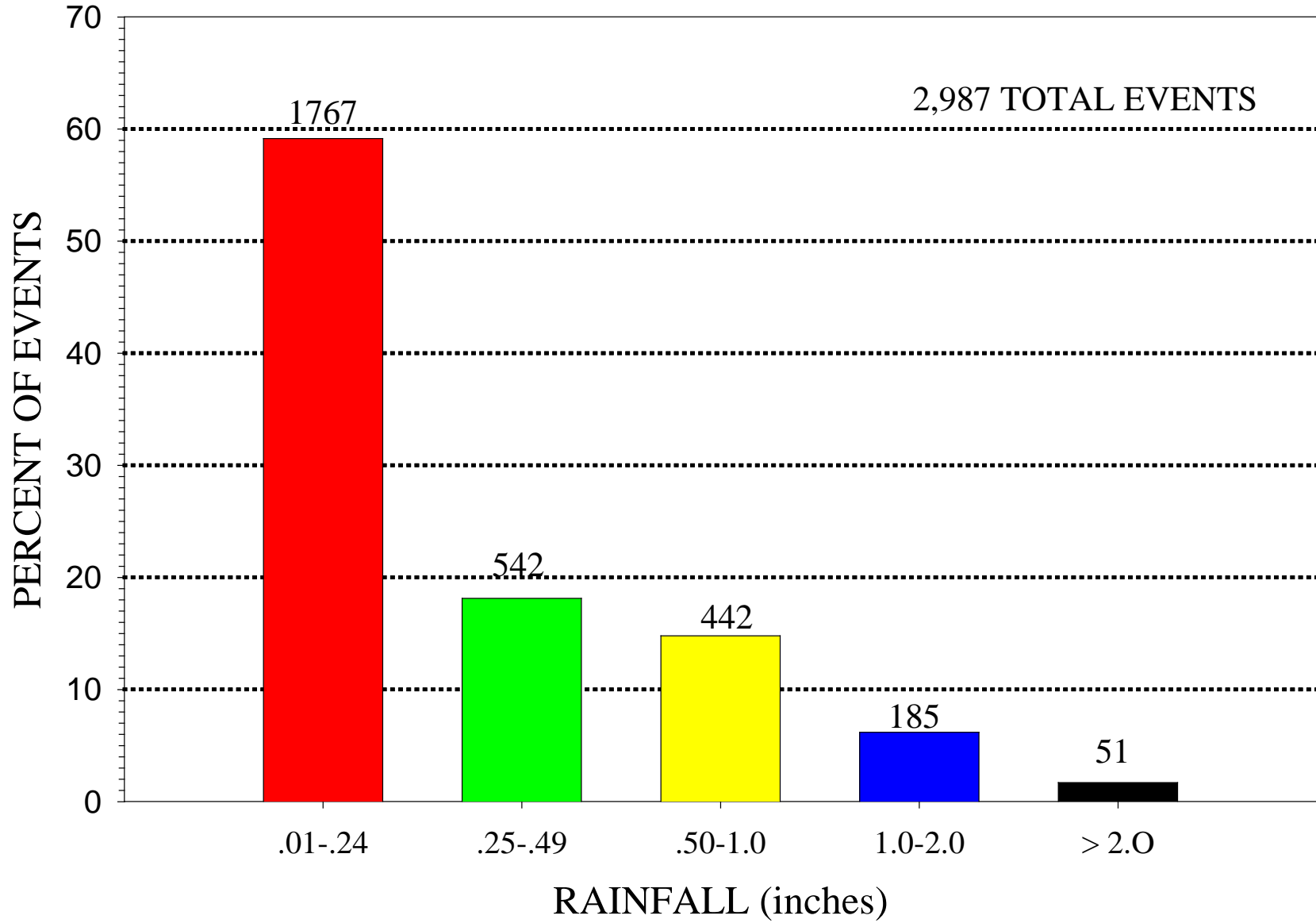
Data from Mesonet Station at OPREC



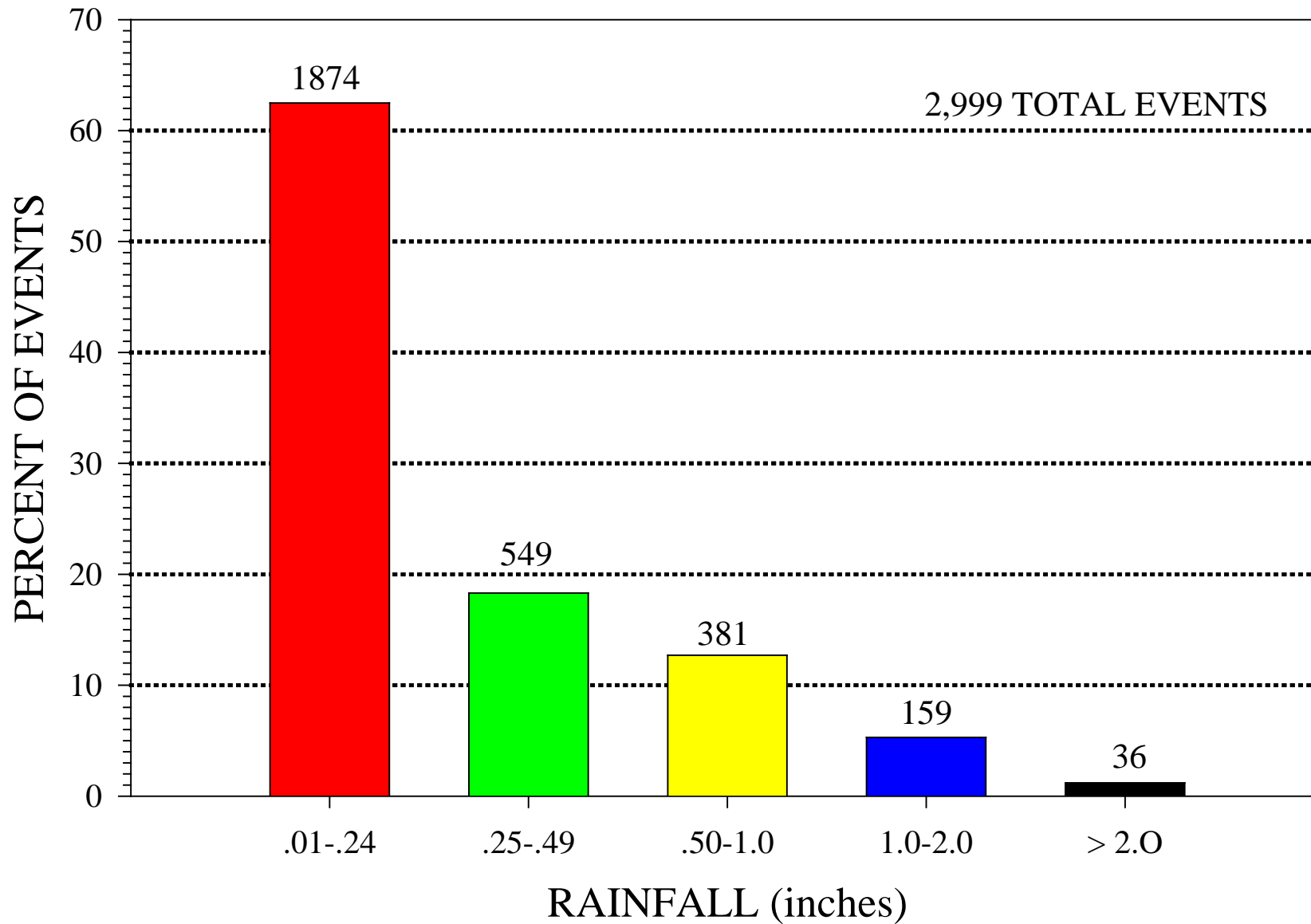
# Longterm Average Precipitation by county (1948-98)



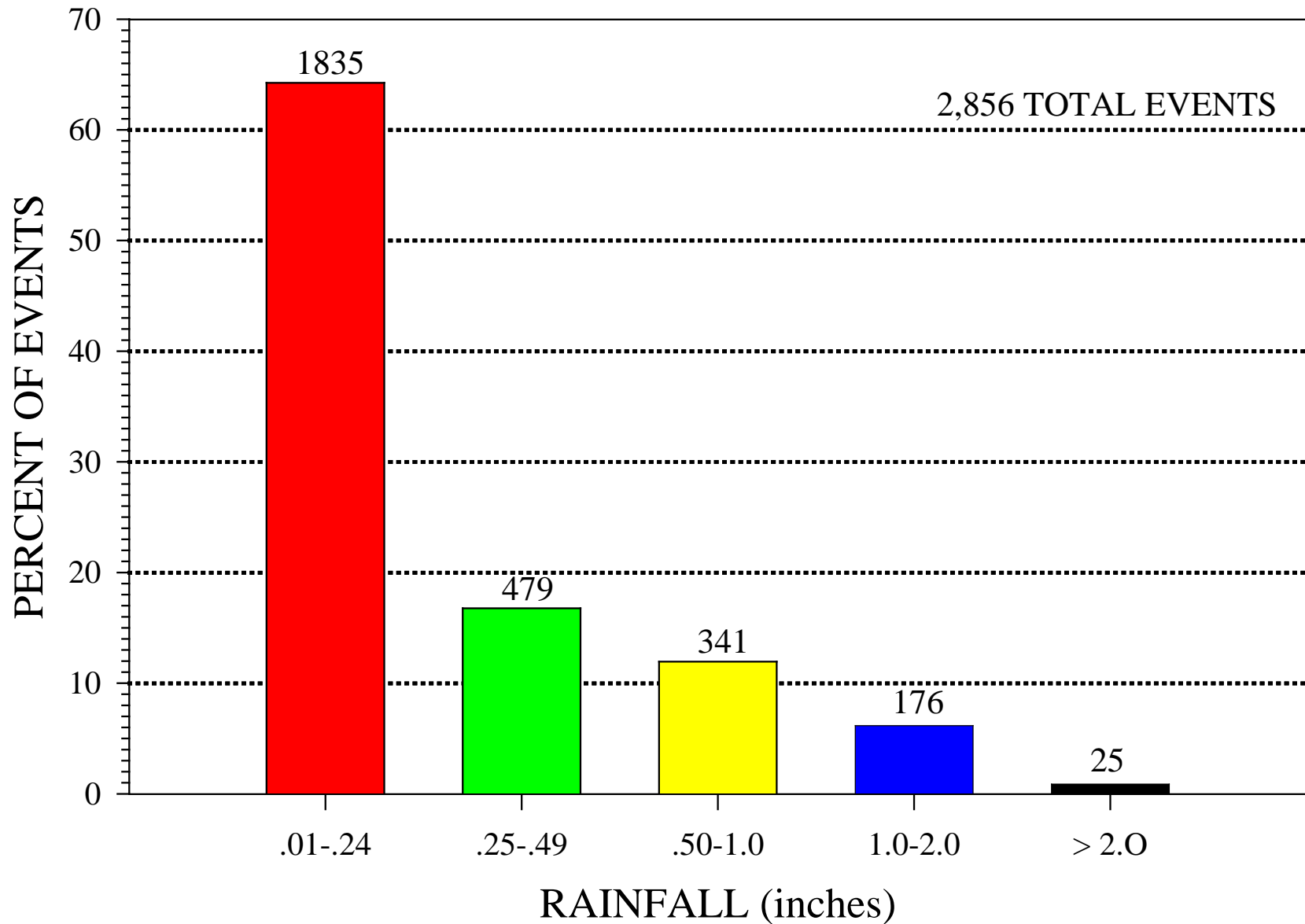
# BEAVER COUNTY 1948-99



# CIMARRON COUNTY 1948-99



# TEXAS COUNTY 1948-99



# Oklahoma Panhandle Research & Extension Center

## 2011 Research Highlights

### Crops

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