# Inorganic Nitrogen Deposition in the Central Texas Panhandle

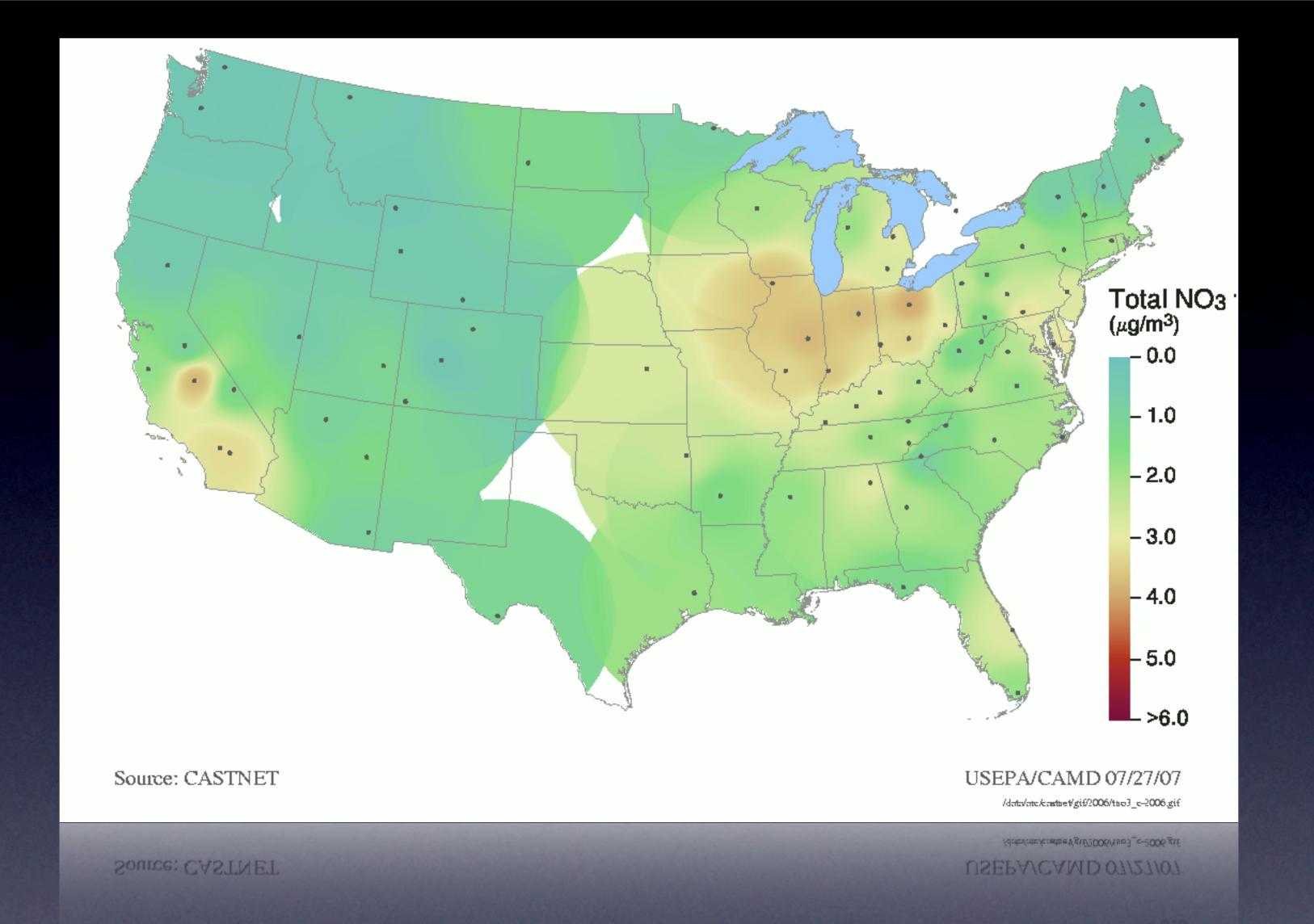
Clean Air Status and Trends Network (CASTNET)
National Atmospheric Deposition Program (NADP)
Texas AgriLife Research-Amarillo

#### Acknowledgments

- Jack Bush, Gary Marek, Kevin Heflin, Graham Hartmann, and Brad Wilhite (site establishment)
- Lanny McDonald and Jack Bush (site operators)



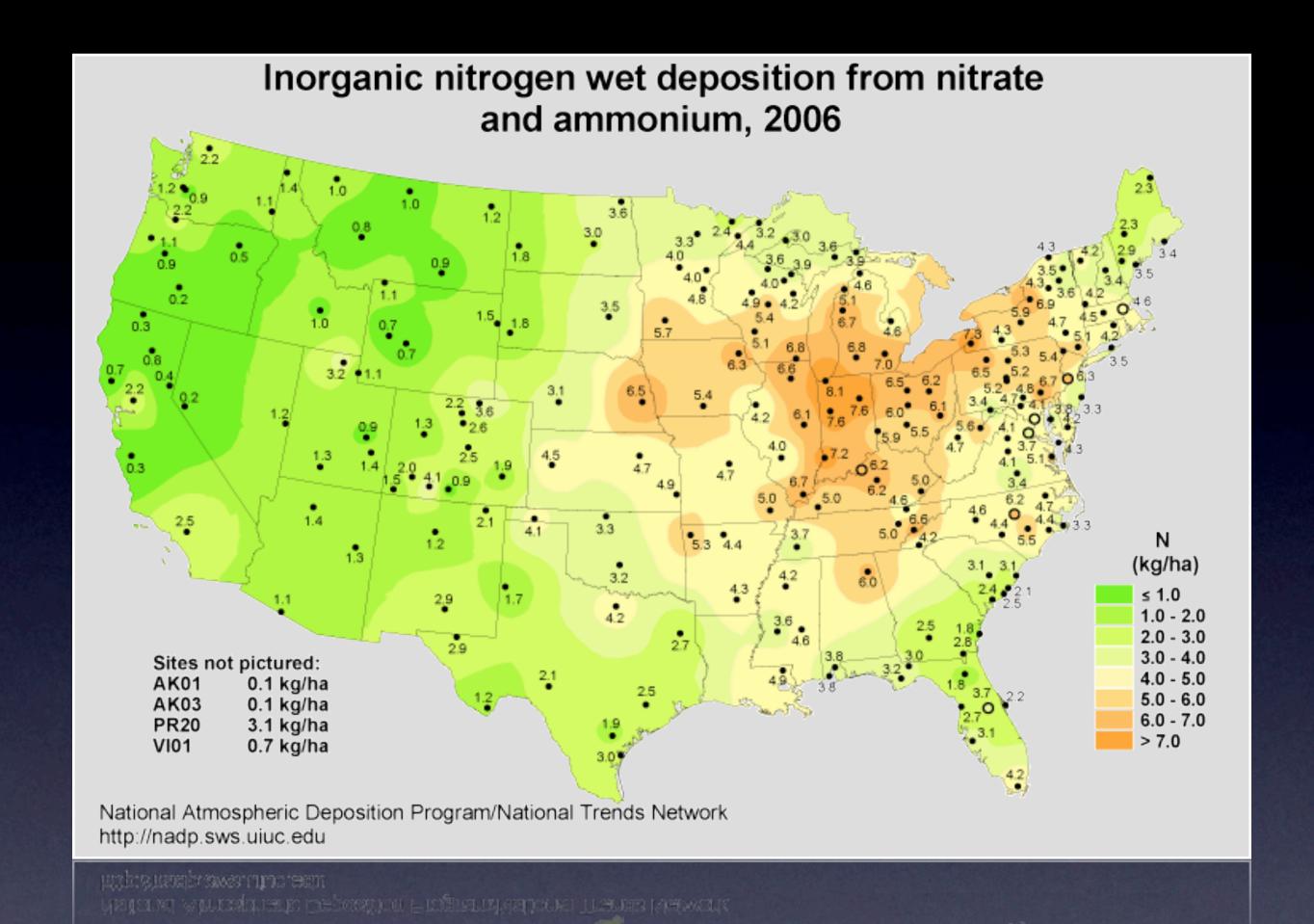
CASTNET Sites in the United States



CASTNET (2001-2006)

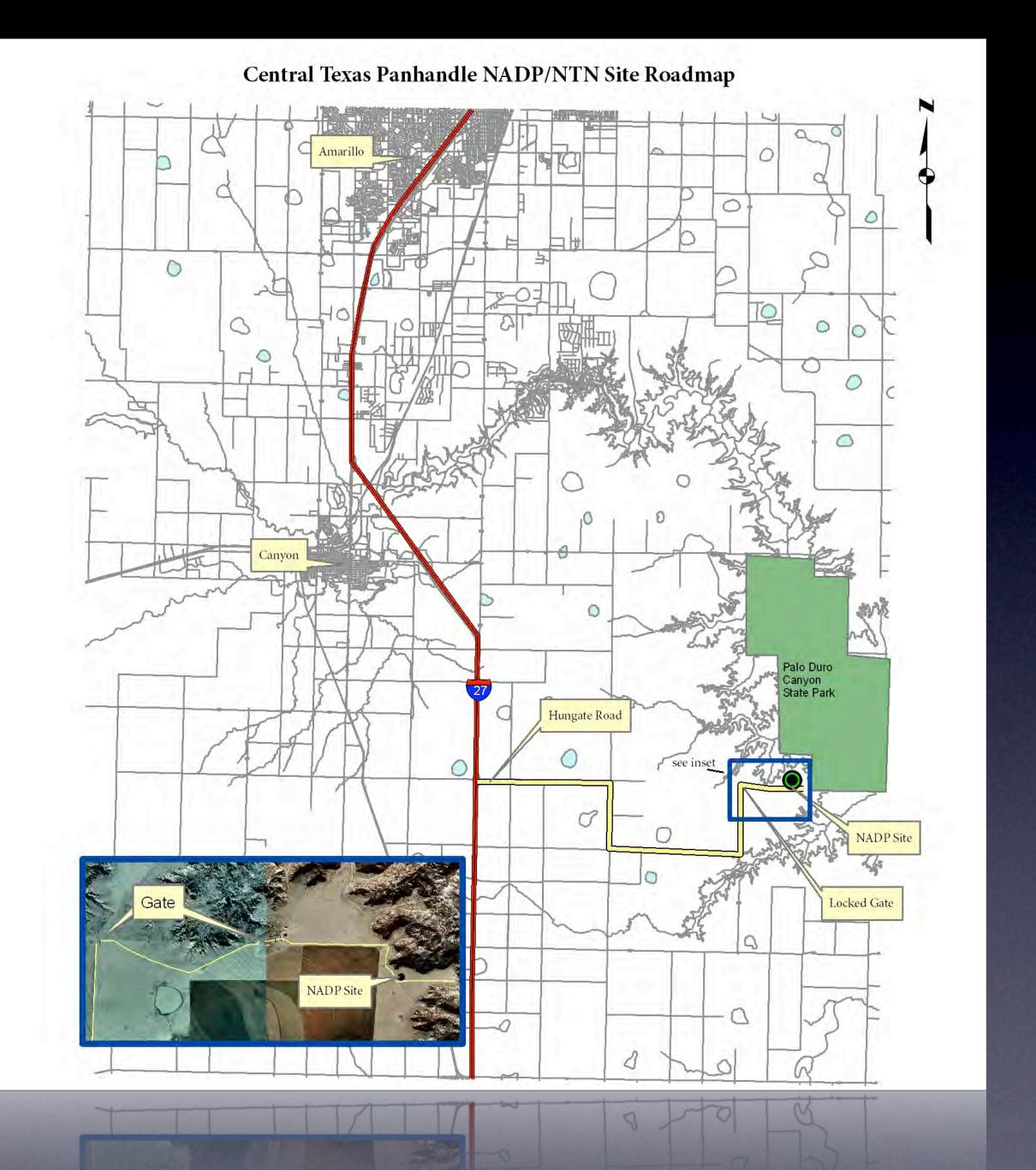


NADP Sites in the United States



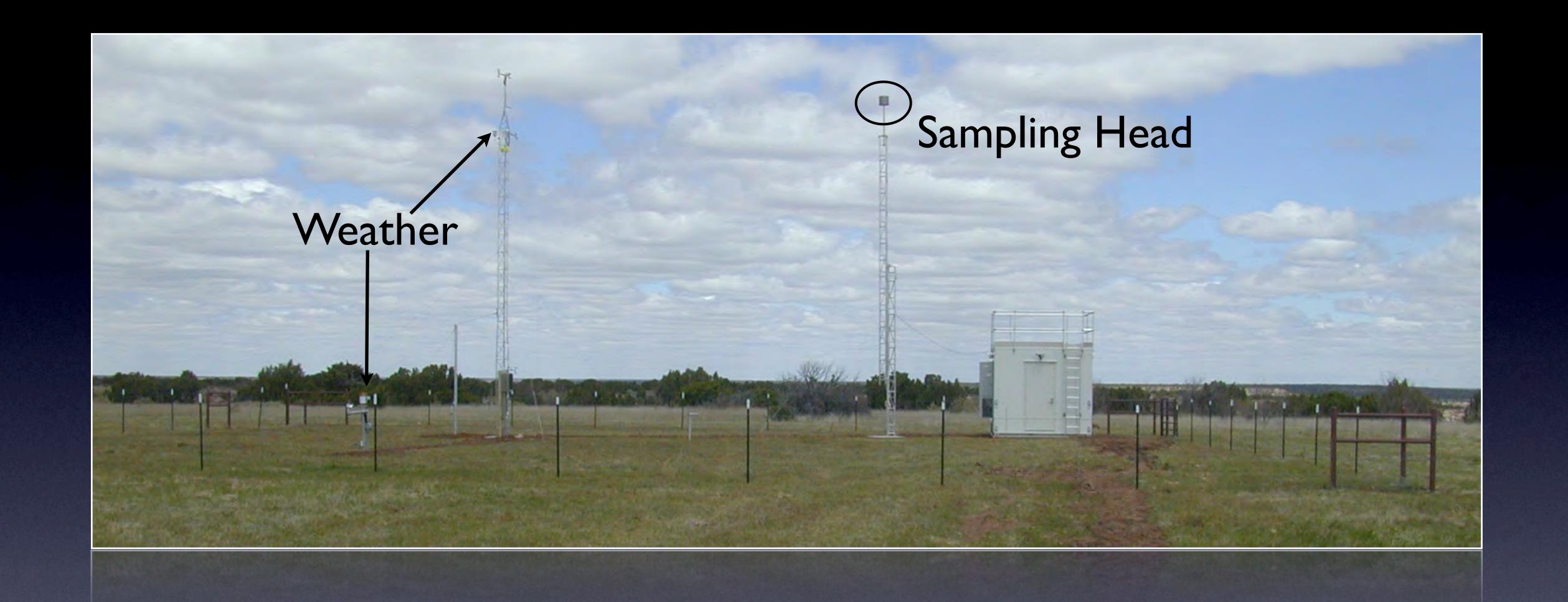
# TIN Wet Deposition, 2006

Lat 34.8803 N Lon 101.6649 W Elev 1050 m





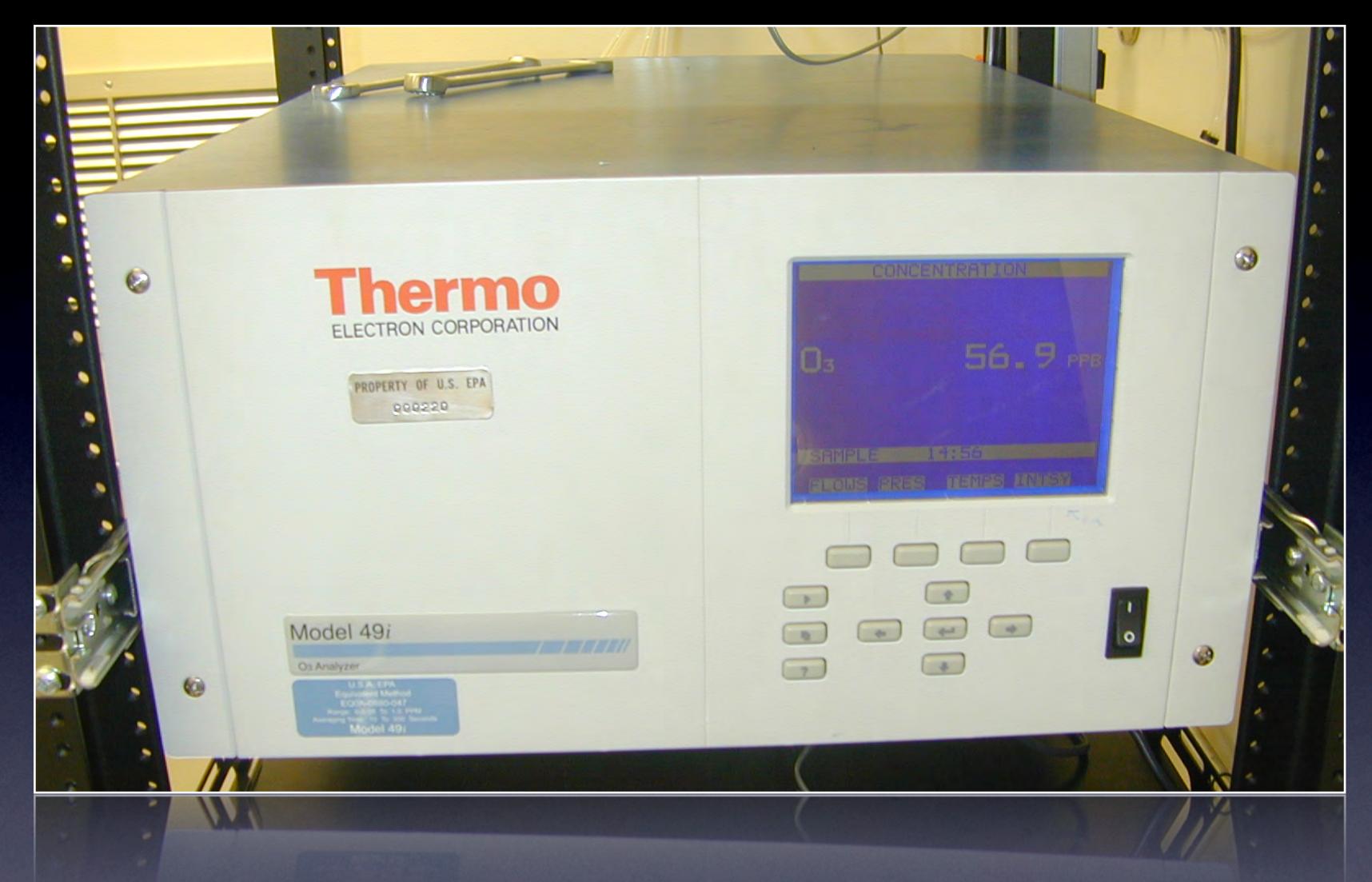
Early Site Establishment (looking N)



# CASTNET (before NADP)



CASTNET Raingage & Pyranometer



CASTNET O<sub>3</sub> Analyzer



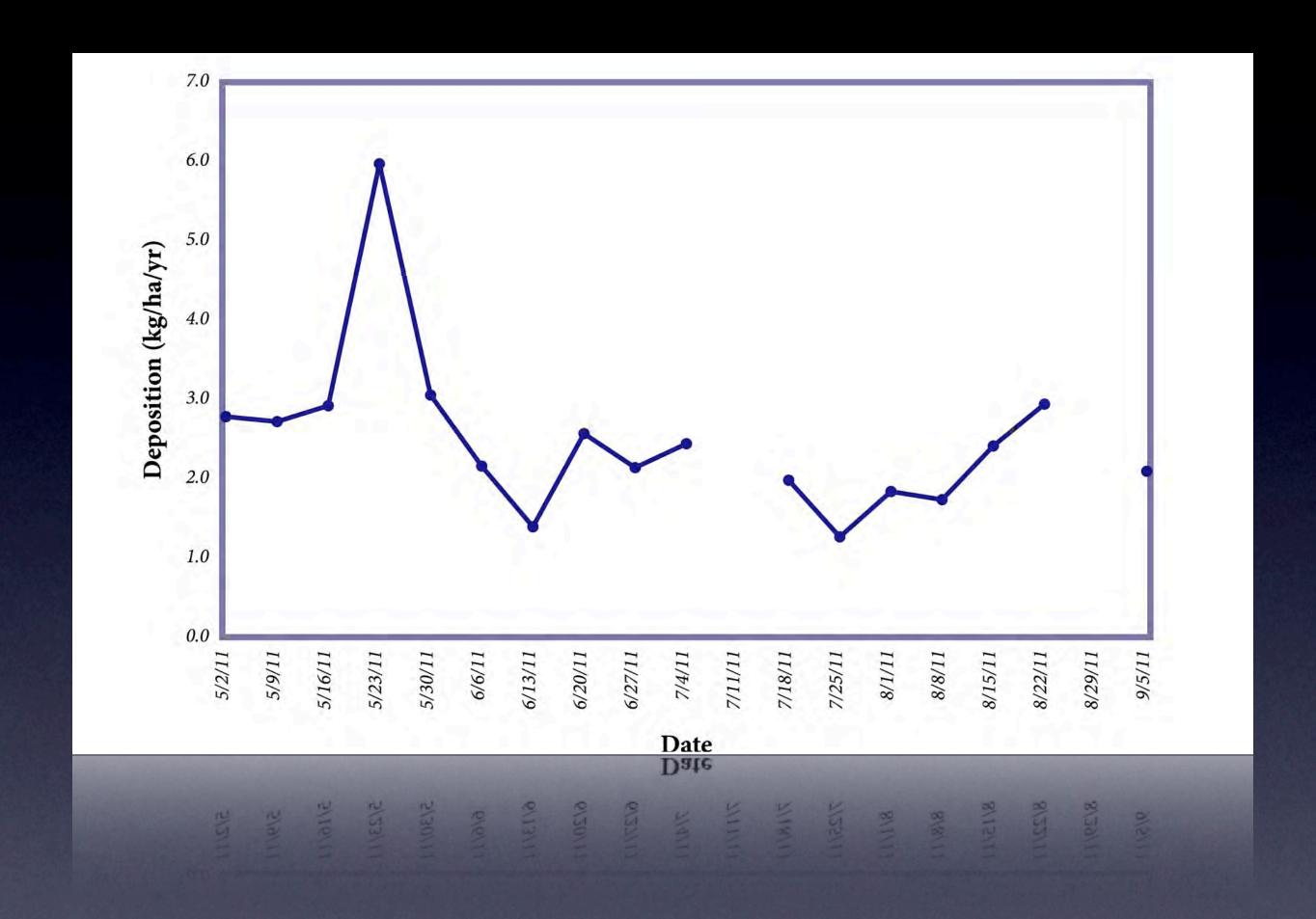
# CASTNET Datalogger and MFC



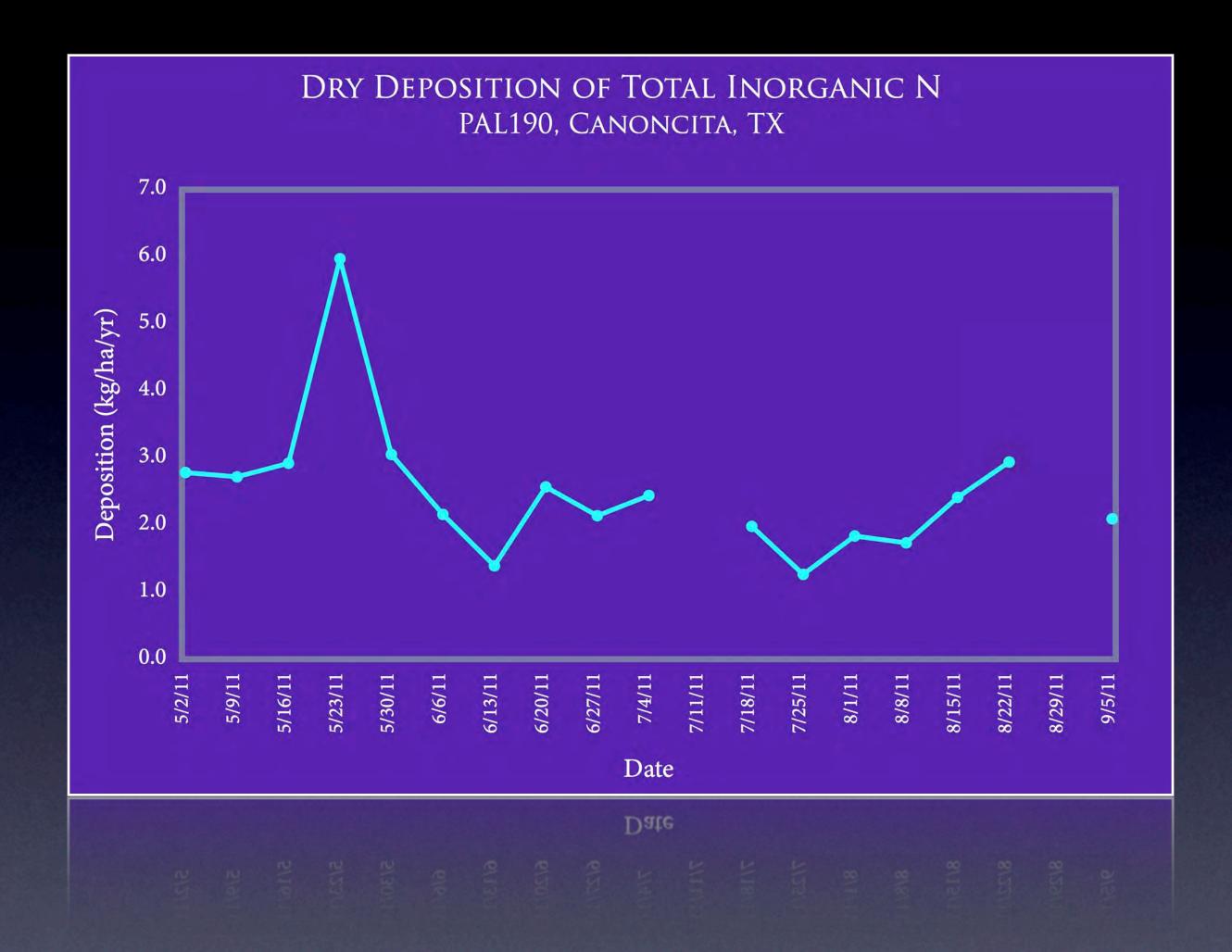
NADP Weighing Raingage



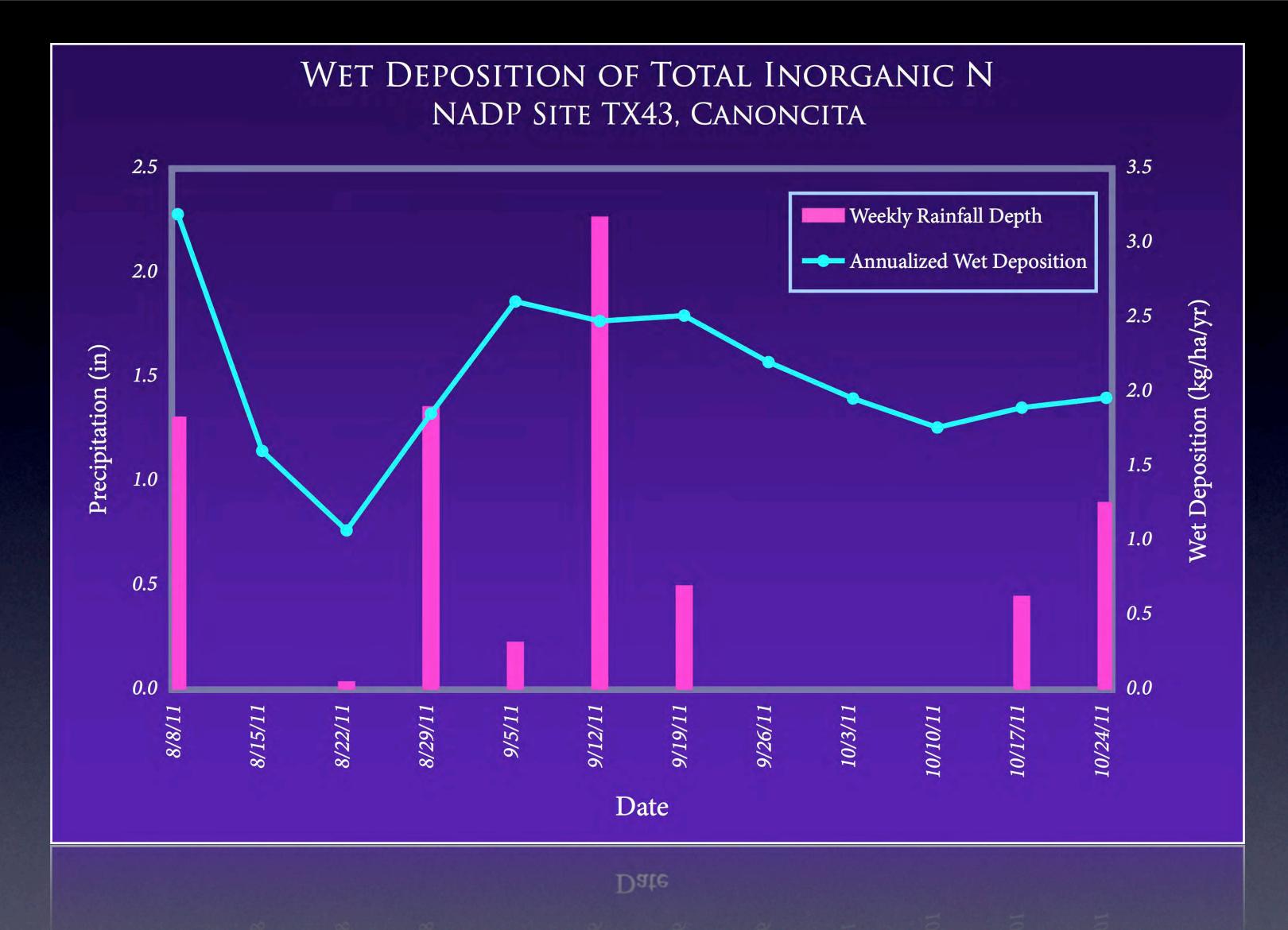
#### NADP Rainfall Sampler



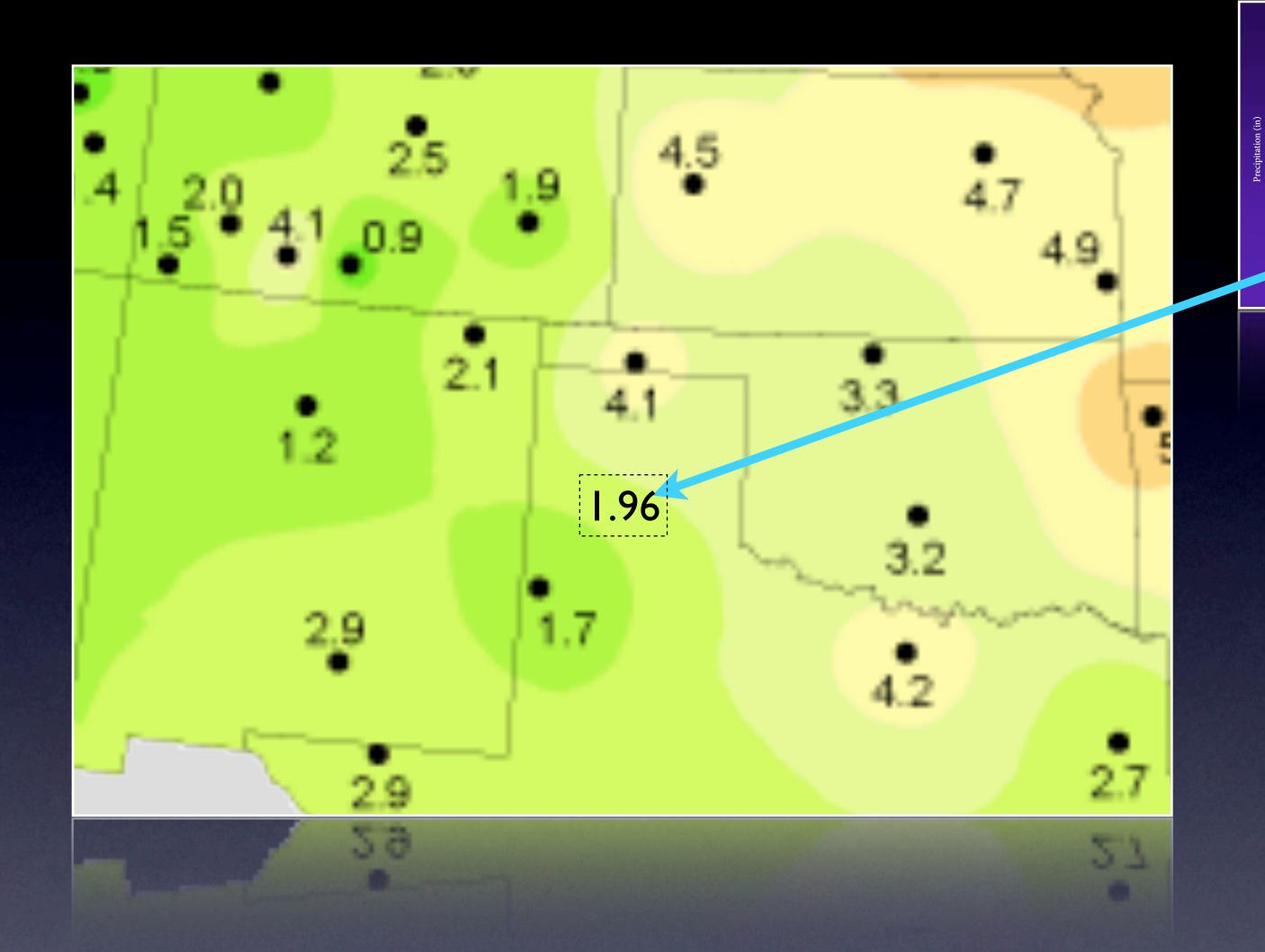
# TIN Dry Deposition = 3 kg ha-1 yr-1



### TIN Dry Deposition = 3 kg ha-1 yr-1



Wet Deposition = 2 kg N ha-1 yr-1



WET DEPOSITION OF TOTAL INORGANIC N NADP SITE TX43, CANONCITA

# TIN Wet Deposition, 2006

# TIN Deposition, 2007 (est.) $(Dry + Wet) = 5 kg N ha^{-1} yr^{-1}$

(Europe = 17 kg N ha<sup>-1</sup> yr<sup>-1</sup>)\*

 $(U.S. = 5.1 \text{ kg N ha}^{-1} \text{ yr}^{-1})**$