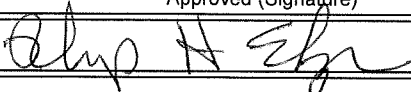


SE

U.S. Department of Agriculture Accomplishments Report AD-421 U.S. Dept. of Agriculture, State Agricultural Experiment Stations and Other Institutions			Date (Month, Day, Year) 03/22/2012
1. Accession 0221537	Agency Identification No. 2. NIFA 3. LA.B	5. Work Unit/Project No. LAB94032	6. Status Annual Report
7. Title The National Atmospheric Deposition Program (NADP)			
12. Investigator Name(s) (Last Name and Initials) McCormick, M. E.			
20. Termination Date 09/30/2014		40. Period Covered (mo/da/year): 01/01/2011 TO 12/31/2011	
Outputs: LA30 site reports are prepared monthly to document local precipitation type, amount and chemistry. The National Atmospheric Deposition Program (NADP) also publishes an annual summary that contains average precipitation and chemistry for all 115 sites throughout the US (including Alaska and Puerto Rico). This data is being used by state and federal agencies, universities, policy makers, primary and secondary schools, and others to make informed decisions on environmental issues related to precipitation, deposition chemistry and atmospheric mercury trends. The data is also available via the web site http://isws.illinois.edu .			
Outcomes/Impacts: The NADP site LA30 is located at latitude 30.7819 and longitude 90.2021 on the Louisiana State University Agricultural Center's Southeast Research Station near Franklinton, LA. The station is located approximately 100 kilometers north of New Orleans. In the spring of 2011, a new more remote site was selected on the Southeast Research Station for the NADP equipment. The site was moved due to construction of an asphalt plant close to the original site. Solar panels and new equipment were installed. Automated precipitation collection equipment is visited weekly, and total precipitation and a precipitation event chart are collected. A precipitation form is used to record total precipitation weight, precipitation in cm, contaminants, etc. A subsample of precipitation equaling approximately one liter is mailed to the Central Analytical Laboratory at the University of Illinois. According to the most recent NADP summary, precipitation at site LA30 in Louisiana may be characterized as moderately high in volume (125-150 cm), low in nitrites, nitrates and calcium, and moderately high in chloride. Average precipitation pH was 4.9 which is typical of precipitation from most Gulf Coast states. In general, precipitation east of the Mississippi River had a pH of less than 5.0 while west of the river pH values were less acidic, ranging from 5.3 to 6.3. Nitrogen deposition was relatively low at this site (2.8 kg/ha) compared to that recorded in Midwestern states which was over 7.0 kg/ha at many sites. Although not assayed at this site, data from Mississippi and Florida sites indicate that precipitation in Gulf Coast States contains some of the highest levels of mercury in the US (15-20 microgram/square meter).			
Publications: No Publications Reported			
Participants: M. McCormick (PI), and Jerry Simmons, LSU AgCenter.			
Target Audiences: Nothing significant to report during this reporting period.			
Project Modifications: Nothing significant to report during this reporting period.			
Approved (Signature)		Title	Date
			3-23-12