

SIDNEY HIGH SCHOOL ADVANCED FLOOD WARNING



4/4/2008



From State Farm Insurance Press Release, February, 2008, regarding grant funding for project:

This presentation officially recognizes students at Sidney Central who have worked on a disaster preparedness-service learning grant from State Farm's Youth Advisory Board. The Youth Advisory Board is made up of students across the country with a commitment to Service Learning initiatives. The Sidney grant has been so successful that the Youth Advisory Board has decided to contribute additional funding. Sidney High School students will be talking about their work in the project and about on-going research. Lunch will follow the presentations.

Through the grant, Sidney High School students have worked to install, monitor and collect data from a network of rain and river gages. Data from the network is satellite-linked to a computer system located in the high school. This system provides the Sidney community with advanced warning time in the event of future flooding. Students and teachers in meteorology, earth science, and hydrology classes are involved in the project, as well as summer interns for the on-going Upper Susquehanna Watershed Project. The grant was written last year by science teachers and Upper Susquehanna Watershed Project directors, Rich Townsend, Dave Pysnik, and Todd Paternoster. Teachers Jay Waltz and Dave Teitelbaum are now also involved in the project.

Students make flood potential forecasts on a daily basis and upload this information to the world wide web. Anyone can access this information by going to the following website.

http://meteorol.sidney.shs.schoolfusion.us/modules/groups/group_pages.phtml?gid=239626&nid=28319&sessionid=65045a4cd3c21b0cc4f9012b4052692d

Data from the system is stored for future student research projects. Summer interns and independent study students will be researching the need for future flood mitigation projects along the Susquehanna and its tributaries.

The new funding for the grant will be used for additional rainfall and river gage stations, new web-based software, and repair and maintenance costs.

OWNER: Sidney High School Advanced Flood Warning System
CONTACT: Rich Townsend
(607)563-2135
Sydney High School
95 West Main Street
Binghamton, NY 13838
EQUIPMENT: Xlite Data Recorders, Satlink2 HDR
Satellite Transmitters Raven CDMA/
GSM Cellular
MODEMS Temp/Humidity, Sensors,
Atmospheric Pressure Sensors,
Rain Gauge Tipping Buckets,
Wind Sensors, Prop and Vane,
Pyranometers
PROJECT: Designed, manufactured and
provided training for a real time
flood warning system for the upper
Susquehanna River Basin, consisting
of precipitation, atmospheric,
light and wind sensors monitoring
meteorological parameters in
real time using high data rate
satellite transmitters and cellular
communications. This data is then
used to determine and prepare for
potential flood conditions.
DATE: June 2007 (Adding stations as of
2008)

SUTRON