

# Sheyenne Watershed Environmental Pollution Sources (SWEPS)

## Grant of \$5750 awarded to:

Donald L. Hoff  
A. Professor of Science  
Valley City State University  
Valley City, ND 58072

## Expenditures as of July 07

The entire \$5750 grant award was spent as budgeted for supplies/materials, travel/training, and indirect costs.

## Courses, groups, or individuals using GPS/GIS/Remote Sensing this year as a result of this grant:

Environmental Geology Watershed survey and mapping	Prof. Hoff	7 students
Botany Tree and shrub location and mapping	Prof. Alexander	20 students
Wildlife Management Species location and mapping	Prof. Anderson	7 students
Intro GIS new course this year		20 students
Introduction to Earth Science Latitude/longitude and mapping	Prof. Hoff	55 students
Regional Science Olympiad held on VCSU campus in Mar 07		30 high school students
Adult Education North Country Trails group	Prof. Kringle	25 adults
Valley City Public Works (Water and Sewer Dept.) interviews and presentations		

The GPS's and mapping software were used most extensively in the Environmental Geology course where the students used GPS to record point sources of pollution in the Sheyenne watershed. They then used this information, remote sensing, sampling and analysis, and topographical maps to develop a report. See attached powerpoint reports.

Not only the science department and its students benefited from this grant. Another division (Language Arts/Prof. Kringle), the general public, and the Valley City Public Works all utilized GPS/GIS/Remote Sensing due to this effort.

Overall I feel this grant yielded results that met or exceeded the goals of the original proposal.

Don Hoff