

CMaP PROJECT

Project Title: Territorial water rights meets modern technology.

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Class: Roosevelt 2008

Project Description	Mapping headgates in the Henry's Fork drainage
Community Issue or Problem Selected -How project evolved?	Many headgates are unmarked and known only by verbal description along the Henry's.
Community Partner(s)	Wyoming State Engineers and Henry's Fork Ditch rider
Project Objectives	Use GPS to mark and GIS to map headgate locations, water right allowance and priority.
Utah Core Standards/Objectives	PreAlgebra Standard 4 obj 2 and Standard 5 obj 2. Geometry Standard 4 obj 1 and 2
Essential Question(s) -Spatial Issue	If a water allotment system has been working fairly smoothly since 1868, can modern technology help engineers improve their efficiency?
Assessments (rubrics, scoring guides)	Scores for instructional in class assignment completion. Rubric for Map completion- to include functionality, accuracy, appeal and promptness.

Project Products	Finished map with long/lat locations and water right data availability for download, transfer etc.
Project Timeline (include a step by step Procedures)	<ol style="list-style-type: none"> 1. query state engineer for current data access. July 2. train students in GPS and different methods of water volume measurement. September 3. assign areas for waypoint collection. Sep to Jan. 4. Collect all data and create map March
Resources Needed	GPS and Arcmap computers transportation. Information from State Engineer and Ditch Rider
Skills Required	Proficiency in Waypoint marking, following instructions, map building in ArcMap, downloading and importing data from GIS
Project Team Member Roles	<p>Teacher(s): Instruct students in GPS and Arcmap, coordinate with State Engineer and Ditch Rider</p> <p>Students: Mark Headgates and map locations on ArcMap.</p> <p>Partner(s): provide headgate descriptions and information necessary to locate headgates.</p>
Celebration/Presentation	Present finished product to Engineers office with write up in local paper
Project Evaluation	Consider time investment to production and success ratio. Evaluate enthusiasm factor.
Project Bibliography	Source for Wyoming state water rights.
Plans for Future CMAP Activities	