

CLIMATE CHANGE COLLECTION SCORECARD

Date: 4/26/05

Reviewer: Carrie Morrill

Name of resource: Statistics of US Historical Climate Network

Sponsoring Organization: Science Education Resource Center, Carleton College

URL: <http://serc.carleton.edu/introgeo/models/statistical/examples/XLstatsI.html>

Site Homepage: <http://serc.carleton.edu/>

RESOURCE WITHIN A SITE? Y / N

FOUND THROUGH DLESE? Y / N

IF SO, WHICH COLLECTIONS? Starting Point, CRS Annotated Collection

RECOMMENDATION YES YES WITH RESERVATIONS NO

STARS 1 2 3 4 5 (LAME TO STELLAR)

NARRATIVE: *In this activity students use historical climate data and Excel to examine recent trends in temperature. This also serves as a good introduction to Excel and some basic statistical techniques. Directions on how to use Excel are very detailed and helpful. The activity could benefit from the addition of more "big-picture" questions designed to get students thinking more about their results.*

INTENDED USE

REFERENCE

COMPUTER ACTIVITY

NON-COMPUTER ACTIVITY

EDUCATOR OR LEARNER OR **BOTH** IF FOR LEARNER, EVIDENCE ITS BEEN TESTED? Y / N

BEGINNER OR ADVANCED OR BOTH

Easily Printed? Y / N

BUGS & TECHNICAL DIFFICULTIES (PROBLEMATIC TO ROBUST)

1 2 3 4

COMMENTS: *All links work.*

SCIENTIFIC ACCURACY (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)

1 2 3 4

EVIDENCE IT HAS BEEN REVIEWED FOR ACCURACY? Y / N

COMMENTS: *Little scientific background information. In this activity, students do the science.*

PEDAGOGICAL INFORMATION

REFERENCE ONLY

TEACHER GUIDE

MATERIALS LIST

ASSESSMENT STRATEGIES

TIMEFRAME PROVIDED

STANDARDS ALIGNMENT

PROMOTES STUDENT LEARNING (WEAK TO STRONG)

1 2 3 4

COMMENTS: *A lot of plug-and-chug. Adding a couple more big-picture questions might help students think about their results some more. For example: Why do you think there is a lag between solar output and air temperature?*

APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)

1 2 3 4

COMMENTS: *Pdf file is relatively unexciting. Make the questions stand out more with different formatting.*

VISUAL APPEAL (WEAK TO STRONG)

1 2 3 4

COMMENTS: *See design comments above.*

TEACHING TIPS: *This exercise can serve several purposes: exploring recent trends in temperature and precipitation, learning how to use Excel, and learning some basic statistics. Parts of the activity would be fine for middle-school or high-school students, other parts would be too advanced.*

RECOMMENDATIONS FOR DEVELOPER: *See comments on promoting student learning.*