

CLIMATE CHANGE COLLECTION SCORECARD

Date: 2/18/05

Reviewer: Carrie Morrill

Name of resource: Time and Cycles: Dendrochronology

Sponsoring Organization: UCAR

URL: http://www.ucar.edu/learn/1_2_2_11t.htm

Site Homepage: <http://www.ucar.edu/learn>

RESOURCE WITHIN A SITE? Y / N

FOUND THROUGH DLESE? Y / N

IF SO, WHICH COLLECTIONS? DLESE Community Collection, CRS Annotated Collection

RECOMMENDATION YES YES WITH RESERVATIONS NO

STARS 1 2 3 4 5 (LAME TO STELLAR)

NARRATIVE In this exercise, students use tree-ring samples drawn on paper to study how rainfall has varied in a fictional town. The exercise is limited in scope, but I've suggested a few extensions in the teacher tips.

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

SCIENTIFIC ACCURACY (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)

1 2 3 4

EVIDENCE IT HAS BEEN REVIEWED FOR ACCURACY? Y / N

COMMENTS: The statement "During wet, cool years, most trees grow more than during hot, dry years and the rings are wider" is a generalization. In some areas, particularly high latitudes or elevations, tree will grow more in warmer years.

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: Exercise is interesting and interactive.

APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)

1 2 3 4

COMMENTS: Good diagrams explaining exercise.

VISUAL APPEAL (WEAK TO STRONG)

1 2 3 4

TEACHING TIPS: To extend the exercise, have students measure ring width (a common measurement dendrochronologists make) for each year and plot the timeseries. Look for any trends in the data or periods that had above-normal or below-normal precipitation. You could also use real tree stumps collected from your community.

RECOMMENDATIONS FOR DEVELOPER: Mention extensions such as the ones listed above.