

CLEAR

Center for Land Use Education & Research

At the University of Connecticut

Progress Report 2002 - 2007





Contact Information

University of Connecticut,
 Cooperative Extension System
 P.O. Box 70
 1066 Saybrook Road
 Haddam, Connecticut 06438
 Email: clear@uconn.edu
 Website: clear.uconn.edu

Dan Civco, Director
 Department of Natural Resources
 Management and Engineering
 Email: daniel.civco@uconn.edu
 Phone: 860-486-2840

Chet Arnold, Associate Director
 Department of Extension
 Email: chester.arnold@uconn.edu
 Phone: 860-345-5230

Acknowledgements

Written and edited by Chester Arnold,
CLEAR Associate Director, with contributions
 from CLEAR principals.

Design and production management by
 Kara Bonsack, *Graphic Designer*, Department
 of Extension.

Photography by Kara Bonsack, except where
 indicated.

Printing funded by NASA DEVELOP, a program
 of the NASA Science Mission Directorate
 Applied Sciences Program. Visit NASA
 DEVELOP at <http://develop.larc.nasa.gov>.

This report is printed with non-volatile veg-
 etable oil-based inks on 100% postconsumer
 recycled, process-chlorine-free paper using
 100% windpower. This paper is certified by
 Green Seal.

CLEAR publication # 070731.1



Contents

About CLEAR	4
Highlights & Impacts	
Research	6
Tools & Training	10
Outreach Education	12
Upcoming Projects & Initiatives	14
Future Goals	15
CLEAR Activities & Projects	15
Partners & Cooperators	16
Staff & Funding	17
Grant Funded Projects	
Research	18
Applications & Training Projects	18
Outreach Education Projects	19
Selected Awards	21
Publications	
Journal Articles	22
Magazine, Newsletter & Other Articles	23
Books	23
Abstracts & Proceedings	24
Recent Websites & Web Tools Developed	25
Major Outreach Publications	25
CLEAR Programs in Action	26

About CLEAR



This Report summarizes the major projects, partnerships and accomplishments of CLEAR (Center for Land Use Education and Research) during its first five years of existence, April 2002 - April 2007. More detailed information on CLEAR research, training and outreach programs can be found on the Center website (page 5), and on the websites of CLEAR's component programs (pages 26 and 27).

Large photo: Aerial photo, New London and Waterford, CT area. (Photo by Tom Walsh, Shoreline Aerial Photography.) Circle photo: Local officials attend the Land Use Academy's Map Reading for Site Plan Review workshop in West Hartford, CT.

CLEAR provides a unique resource to a wide variety of organizations and individuals, within Connecticut and beyond. The Center conducts remote sensing landscape research, develops landscape analysis tools and training programs and delivers outreach educational programs directly to Connecticut communities. Established in 2002, CLEAR is based in the College of Agriculture and Natural Resources and incorporates programs, faculty and staff from the Department of Extension, the Department of Natural Resources Management and Engineering and other departments. In addition, CLEAR has a close relationship with the Connecticut Sea Grant College Program, located within the College of Liberal Arts and Sciences. CLEAR's multidisciplinary and integrated approach to land use issues allows the Center to bring together three university-

based national research and education networks: the USDA Land Grant, NOAA Sea Grant and NASA Space Grant College Programs.

CLEAR is comprised of a number of ongoing research, training and outreach programs, some of which date well before the formation of the Center. This report contains brief descriptions of some of the major projects undertaken by CLEAR faculty, information on Center staffing and funding, and lists of projects, publications, awards and other accomplishments. Although much of the information that follows is categorized into research, tools and training, and education "bins," it should be noted that CLEAR takes particular pride in the high level of integration of its research, education, tool development and outreach functions.

CLEAR Programs

NEMO Program (Nonpoint Education for Municipal Officials)

National NEMO Network

Geospatial Technology Program (GTP)

Land Use Planning Program

Land Use Academy

Extension Forestry Program

Green Valley Institute (GVI)

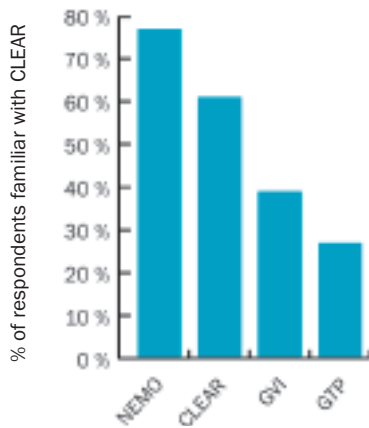
LERIS (Laboratory for Earth Resource Information Systems)

See pages 26 and 27 for additional program information.

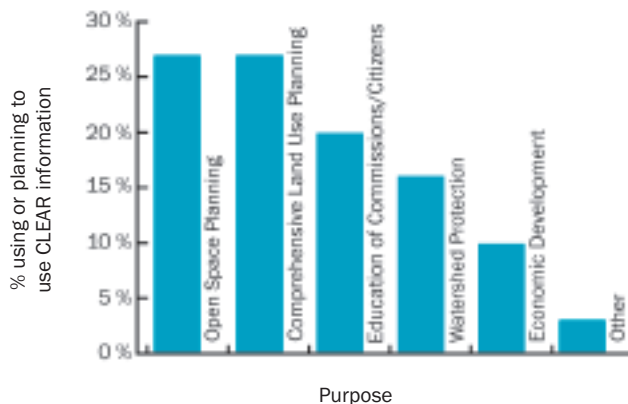
A Measure of Success

In late 2004 and early 2005, approximately a year after the web release of the *Connecticut's Changing Landscape* study, a graduate student at another university undertook a survey of Connecticut town officials to gather information about their use of geospatial technology and their technology and data needs. As part of that survey, she also asked a few questions about the recognition of CLEAR and CLEAR programs, and use of CLEAR websites and data. 74 of Connecticut's 169 towns responded to the survey. The results show a very high degree of recognition and use, especially given the timing, less than 2 years after CLEAR's debut.

Question:
Have you heard of any of these programs at the University of Connecticut? The graph below shows the percent of responding towns that were familiar with the CLEAR programs.



Question:
How have you used, or how are you planning to use, the CLEAR information? The graph below shows the percent of responding towns using or planning to use CLEAR information for a given purpose.



CLEAR Website clear.uconn.edu

The CLEAR website is a major resource to a wide variety of Connecticut residents. During the first 6 months of 2007, an average of **4800 people per month visited the site** and the web statistics show many of those visited multiple times (for a total average of 8200 visits to the site per month). The CLEAR website includes:

- Research results
- Maps, charts and data
- Educational program information
- Case studies
- Topical information on natural resource management
- Publications
- And more!



The CLEAR website is divided into three main sections, Research, Imagery and Data, and Education. Links to CLEAR programs' websites can also be found on the home page.