

2003-2004 Progress Report

Ohio Sea Grant

College Program

education outreach research



Ohio Sea Grant Staff

Ohio Sea Grant College Program

Dr. Jeffrey M. Reutter, Director, reutter.1@osu.edu

Jill Jentes Banicki, Communications Manager, jentes.1@osu.edu

Nancy Cruickshank, Publications Manager, cruickshank.3@osu.edu

Dr. Rosanne W. Fortner, Education Coordinator, fortner.2@osu.edu

John Tripp, Fiscal Manager, tripp.3@osu.edu

Bonita Cordi, Office Associate, cordi.2@osu.edu

Stone Laboratory

Dr. Jeffrey M. Reutter, Director, reutter.1@osu.edu

Dr. Rosanne W. Fortner, Associate Director, fortner.2@osu.edu

John Hageman, Laboratory Manager, hageman.2@osu.edu

Matt Thomas, Asst. Lab. Manager, thomas.347@osu.edu

Kelly Dress, Office Associate, dress.3@osu.edu

Art Boone, Manager of Housing and Food Services, boone.2@osu.edu

Arleen Pineda, Program Coordinator, pineda.2@osu.edu

Al Duff, Superintendent for Physical Facilities, duff.1@osu.edu

Ohio Sea Grant Extension Staff

Lake & Ashtabula Counties

Frank R. Lichtkoppler*, lichtkoppler.1@osu.edu

Lake County Extension Office, 99 E. Erie Street, Painesville, OH 44077

440.350.2582, Fax 440.350.5928

Ottawa County

Fred L. Snyder*, snyder.8@osu.edu

Camp Perry, Building 1, Port Clinton, OH 43452

419.635.1022, Fax 440.350.5928

Ottawa County

John R. Hageman, Jr., hageman.2@osu.edu

F.T. Stone Laboratory, P.O. 119, Put-in-Bay, OH 43456

419.285.2341 or 614.247.6502, Fax 614.247.6578

Erie & Lorain Counties

David O. Kelch, kelch.3@osu.edu

Lorain County Extension Office, 42110 Russia Road, Elyria, OH 44035

440.326.5851, Fax 440.326.5878

Lucas County

Joe Lucente, lucente.6@osu.edu

Lucas County Extension Office, One Gov. Ctr., Suite 550, Toledo, OH 43604

419.213.4254, Fax 419.213.4241

Cuyahoga County

Walter D. Williams, wwilliams@gcpartnership.com

Greater Cleveland Partnership, 200 Tower City Center,

50 Public Square, Cleveland, OH 44113-2291

216.621.3300, Fax 216.621.6013

*Program Co-Coordinators

Ohio Sea Grant College Program

The Ohio State University

1314 Kinnear Rd.

Columbus, OH

43212-1194

Phone: 614.292.8949

Fax: 614.292.4364

www.sg.ohio-state.edu

F.T. Stone Laboratory (Field Station)

The Ohio State University

PO Box 119, Put-in-Bay, OH 43456

Phone: 419.285.2341, 614.247.6500

Fax: 614.247.6578

www.stonelab.ohio-state.edu

Additional copies of this document are available from Ohio Sea Grant.

For more information, contact the Columbus Office.

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Ohio Sea Grant College Program

2003-2004 Progress Report

Jeffrey M. Reutter, Ph.D., Director

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Ohio Sea Grant College Program

2003-2004 Progress Report

Jeffrey M. Reutter, Ph.D., Director

Program Highlights: Grant No. NA16RG2252

This has been a great year for the program with some exciting research collaborations, development of new strategic and implementation plans, and a major milestone in our endowments.

Enrollment at Stone Laboratory. During the summer of 2004, a total of 154 students from 15 colleges and universities and 45 high schools took college courses at Stone Laboratory. Since 1990, students from 93 colleges and universities (46 in state and 47 out of state) and 326 high schools (316 in state and 10 out of state) have taken college courses at Stone Laboratory, and since 2000, students from 48 colleges and universities (28 in state and 20 out of state) and 140 high schools (138 in state and 2 out of state) have taken courses there. With the assistance of the Friends of Stone Laboratory (FOSL) we were able to award 36 scholarships totaling \$14,254 in 2004. The FOSL also received 30 applications and awarded six scholarships to outstanding high school students at State Science Day sponsored by the Ohio Academy of Science. Finally, using funds from newly created research endowments, we will implement a program of "Research Experiences for Undergraduates" in 2005.

Outreach at Stone Laboratory. Our spring and fall aquatic workshop/field trip/conference program attracted 177 groups (record) and 5,709 participants in 2003, and 145 groups and 5,379 participants in 2004.

Distance Learning. In 2003, with support from US EPA, the OSU UNITS program, and Ohio Sea Grant, equipment was purchased and the Laboratory conference room was renovated to allow distance-learning broadcasts. The summer Guest Lecture series in 2003 and 2004 were broadcast to main campus and fish dissection laboratory exercises were broadcast to high schools around the state. Ohio Sea Grant hosted the Great Lakes Sea Grant Network Conference at Stone Lab in September 2004 and used our distance learning equipment to allow Paul Horvatin, US EPA, to speak to and interact with the group.

Supporting Diversity. An experimental offering of one of our one-week courses for students in the Minority Research Initiative was very successful in 1998 and followed a successful offering for students from the Young Scholars Program in 1997. We enrolled two Young Scholars in 1999, but the program was unable to send any in 2000 due to funding difficulties. Four students from the Young Scholars Program enrolled in 2001, 1 during 2002, 9 in 2003, and 9 in 2004, while the Columbus Public Schools' I Know I Can Program supported 14 students in 2001, 9 in 2002, 11 in 2003, and 3 in 2004.

Research. During 2003, 26 investigators and 46 students and technicians from 16 agencies and institutions worked on 24 projects at Stone Laboratory. During 2004, 19 investigators and 47 students and technicians from 12 agencies and institutions worked on 19 projects at Stone Laboratory. During 2003-

2004 Ohio Sea Grant supported 41 large, competitively funded projects, including 14 new projects. We also supported 24 development fund projects, including 14 new projects. These investigators came from 11 universities. During 2003-2004 Sea Grant scientists produced 102 publications (41 scientific papers, 27 reports, 18 popular press articles, and 16 scientific papers awaiting publication), made 168 scientific presentations, and supported 48 students on their projects. In 2004, a group of Ohio Sea Grant scientists was awarded a \$1.4 million biocomplexity grant from the National Science Foundation.

GOOS/IOOS/AIS. Dr. Reutter was named to the National Steering Committee for the Global Ocean Observing System in 2003. The Sea Grant Association asked him to Chair a Sea Grant Work Group for the Integrated Ocean Observing System composed of Sea Grant representatives from each of the Regional Associations in 2004. The Sea Grant Association also asked him to Co-Chair the AIS Theme Team in 2004.

Equipment and Facilities at Stone Laboratory. While Stone Laboratory is the oldest freshwater biological field station in the country and has served as Ohio's Lake Erie laboratory since 1895, until 2002, we had never received federal funding to improve the Laboratory for the benefit of thousands of students and research scientists each year. Through the hard work and leadership of Senator Mike DeWine, Stone Laboratory received \$348,000 for equipment and facilities through NOAA. Most of the new equipment items arrived in 2003—30 new microscopes, 3 new vans for students and researchers, a new research vessel, monitoring equipment for our work on the "Dead Zone," and much more. In 2004, new educational signage was installed at Stone Laboratory including a large walk-through educational kiosk/gazebo. More work is planned for 2005. **Thank you Senator DeWine and NOAA!!** Ohio State University has also committed \$2.3 million and completed the planning and design phases to bring city water and sewer lines from the Village of Put-in-Bay to the Stone Laboratory Research Building and then across the bay to Gibraltar Island. This work should be completed in 2006.

Communications, Web Site and Electronic Reports. Our web site (www.sg.ohio-state.edu) was significantly improved in 2003 and 2004 to make it more useful to students, teachers, scientists, elected officials, and the general public, and to make it handicapped accessible. The site contains copies of *Twine Line*, many of our publications, information on courses and programs at Stone Laboratory, and summaries of all of our research projects. This site and our electronic reporting system for research projects were selected as "best management practices" by the National Sea Grant College Program. The site contains over 1000 pages of information. In 1999, the site had 258,165 hits. In 2000 it had over 571,756, in 2001 it had 988,631 hits, in 2002 it had 1,623,916 hits, in 2003 it had 1,526,882 hits, and in 2004 it had 1,173,646 hits with over 60,000 unique users in both 2003 and 2004. Our Communications program produced 72 different publications during 2003-04 that were distributed to over 125,000 people. In 2003, *Twine Line* received its second national *APEX Award of Excellence* in the "Feature Writing" category for the *Entering the Zone* article in the Sept/Oct 2002 issue. In April 2003, *Twine Line's* article *Walleye Anglers Keep Pace with Changing Lake Erie* was awarded second place in the "Best Magazine How-To Article" category at the 2003 Outdoor Writers of Ohio Convention. In 2004, Communications' eight-part research review series won another national APEX award in writing, while the 2003 Stone Lab campaign won for education campaigns.

Creation of New Endowments. Clearly 2003 was a banner year for our fundraising efforts with the creation of six new research, education, outreach, and development endowments. Two new research endowments (Franz and Kate Stone Fund and John L. Crites Fund) totaling approximately \$425,000 were

created; two scholarship endowments (Kelly Prochazka and Spark Baumler Memorial Endowments) totaling \$50,000 were created; an education, outreach and development endowment (John H. Dunlap, Jr. Fund) with a current total of just over \$50,000 was created; and a botany teaching endowment was created with a deferred gift of \$500,000 (Ronald L. and Darwin Stuckey Fund). Many of the above endowments were approved by the Ohio State University Board of Trustees in 2004 and another scholarship endowment (\$25,000), the Sally and Jackson Smith Fund, was created. We also successfully completed a challenge (the FOSL raised \$25,000 and Shirley Bowser matched it with \$50,000) that added \$75,000 to the Dunlap Fund in 2004. In 2004, our web site was modified to allow electronic donations to any of our endowments.

Special Outreach Activities

The past two years have been very productive for the Ohio Sea Grant College Program with a number of special outreach activities. The brief list below contains a few of the highlights. See Appendix E for a more complete list of accomplishments and activities.

- In February 2003 and 2004 we hosted the fifth and sixth Sea Grant/Stone Laboratory Winter Lecture Series in Columbus. These programs focused sport fishing in Lake Erie and life at Stone Laboratory during the winter. In 2004 we also initiated a silent auction that generated over \$1,600 in donations.
- On 14 August 2003, we co-hosted the second Put-in-Bay Legislative Day with Rep. Chris Redfern and Senator Randy Gardner. Over 40 elected officials attended.
- In September 2003 the FOSL hosted the Sixth Annual Stone Laboratory Open House with Ohio Sea Grant and the Lake Erie Commission. Over 900 people (new record) attended the all-day event. The program was repeated in September 2004 with over 1300 (new record) in attendance.
- In September 2003 we hosted a weekend training session for the Great Lakes Fisheries Leadership Institute at Stone Laboratory.
- In 2003 and 2004 we continued to lead efforts and work collaboratively with the Lake Erie Marine Trades Association and the ODNR on the creation of a Clean Marinas Program and a Clean Boater Program. Ohio's first Clean Marinas and Boaters pledged in 2004.
- In 2003 our economic development agent in Cleveland brought in \$5.7 million of investment and 117 new jobs to the area.
- In July 2004, Ohio Sea Grant hosted its 15th State Legislature/Congressional Day on Lake Erie. The all-day event attracted elected officials and decision makers from over 25 offices.
- In July 2004, Kelly Riesen was hired as our new Fisheries Extension Coordinator with special funding from the National Sea Grant College Program.
- In September 2004, we hosted the Great Lakes Sea Grant Network meeting at Stone Laboratory.

Fellowships

Felix Martinez, a Ph.D. candidate in The Ohio State University Department of Evolution, Ecology and Organismal Biology, began his Knauss year in Washington on 1 February 2003. LeAnn Southward, received her MS Degree from the same department in December 2003 and began her fellowship year on 1 February 2004. Gene Kim, is currently finishing his Ph.D. in the same department and began his fellowship year 1 February 2005. Felix worked for NOAA and was recently hired into a regular full-time position. LeAnn worked for the US State Department specializing in Pacific fishing issues and is currently working for NOAA. Gene is spending his fellowship year on the staff of the House Science Committee.

Appointments—State, Regional, and National Leadership

The following information on appointments is presented to demonstrate the program's impact and influence on state, regional, national, and international issues in science. Each of our Sea Grant District Extension Specialists and our communications coordinator hold leadership appointments within their communities, the state, and the University as do many of our Sea Grant researchers and educators. Dr. Reutter holds the following leadership positions: President of the National Association of Marine Laboratories, Co-Founder of the Lake Erie Millennium Network, Co-Chair of the Sea Grant AIS Theme Team, Co-Chair of the Sea Grant IOOS Work Group, Member of the National GOOS Steering Committee, Member of the Board of Directors of the Great Lakes Protection Fund (term completed in January 2005—originally appointed in 1992), Member of the Sea Grant Law Center Advisory Board, Member of the NURC NE and Great Lakes Center Advisory Board, Member of the Old Woman Creek NERR Advisory Board, Member of the Board of Directors of the Ohio Academy of Science, Member of the Lake Erie Protection Fund Grant Making Committee, Member of the National Federation of Regional Associations of IOOS, Member of the Great Lakes Observation System Steering Committee, and more.

The State of the Program

From the information presented above, it should be clear that the Ohio Sea Grant College Program is in very good shape and continues to grow. Federal support remains very strong, but state support for our line item has fallen slightly in the past two years due to the economy and the state budget crisis. Support for the National Sea Grant College Program within Congress remains strong, the program was reauthorized for five years, and the federal budget looks good. As noted above, donations in the past two years have been the highest in the 110-year history of the programs. Furthermore, while state support for our line item has been reduced in recent years, a new bill was introduced in the Legislature and passed in early 2005 creating a new "Fish Lake Erie" license plate. Proceeds from the sale of the plate are to come to the Ohio Sea Grant College Program.

Program Plans

Some of our top action items for the next two years include:

- 1) Greatly increase our focus on external fund raising including projects to:
 - a. Raise funds to complete the renovation of Cooke's Castle—\$2.8 mil.
 - b. Raise funds to renovate the Stone Laboratory Research Building—\$1 mil.
 - c. Raise funds to construct new faculty/research housing at Stone Laboratory—\$300,000.
 - d. Raise funds for research and scholarship endowments—\$1 million each.
- 2) Complete our new Strategic Plan and Implementation Plan and follow the pattern of the NOAA Strategic Plan with additional goals from the University's Academic Plan and the priorities of the Council of Great Lakes Governors.
- 3) Continue to lead efforts with GLERL to develop a Great Lakes Observation and Ecosystem Forecasting System as part of IOOS and GOOS including placement of a series of monitoring buoys around all of the Great Lakes.
- 4) Continue to lead efforts to address the Lake Erie Dead Zone and to strengthen the Lake Erie at the Millennium Network.
- 5) Develop formal relationships between Ohio Sea Grant/Stone Laboratory and federal and state agencies.
- 6) Increasingly focus fund raising efforts on larger donations and the development of large endowments.
- 7) Begin selling a "Fish Lake Erie" license plate to support Sea Grant/Stone Lab.
- 8) Get at least 10 designated clean marinas in the program by the end of 2004
- 9) Create a mechanism to allow boaters to register for the Clean Boater Program at our web site and retrieve materials at designated clean marinas.
- 10) Revise our web site and link all products to our databases and allow electronic submission and review of research proposals.

The Future

While Lake Erie is clearly better than it was in 1969 when the Cuyahoga River burned, it is not clean enough, and we are concerned that the trend seems to be headed in the wrong direction. In the past three years Ohio Sea Grant has led efforts to understand the causes for the Lake Erie Dead Zone and the increase in phosphorous concentrations. We will continue to support research projects in this area and projects that maximize the value of this outstanding resource, but will also support projects that help us understand Lake processes to allow more informed resource management and projects to develop new technologies to clean up the problems of the past. We will continue to focus on the 3 Es, education, the environment, and the economy, through a combination of research, education and outreach, in collaboration with the government, academia, and the private sector. Our strategy is to focus university expertise on real-world problems.

Appendix A

Program Funding

Appendix A

Program Funding (*all sources*): 2003 & 2004

Federal Sea Grant Funding

\$1,059,200	NOAA	Omnibus 1 March 2003 (Grant # NA16RG2252)
38,000	NOAA	Knauss Fellow- Martinez
38,400	NOAA	Ship time from NOAA
99,999	NOAA	National Aquatic Nuisance Species Report
32,445	U of MN	ANS/Bait Fish/HACCP-GLPF/Univ. of Minnesota
75,000	ODNR	Ohio Clean Marinas Program. (Hushak 10/03—12/04)
50,000	NOAA	Geophysical data record verification (Shum; 10/03—9/04)
254,139	NOAA	Marine Biotechnology Supplemental Funding - Sayre
25,000	LEPF	Clean boater program (Hushak 10/03—11/05)
18,317	NOAA	ANS Supplemental Funding - Lichtkoppler
\$1,690,500		Subtotal 2003
\$1,064,200	NOAA	Omnibus 1 March 2004 (Grant # NA16RG2252)
50,000	NOAA	Geophysical data record verification (Shum; 10/04—9/05)
90,000	NOAA	Ohio Sea Grant College Program Fisheries Extension (Snyder; 5/04—4/06)
1,434,030	NSF	BE/CNH: Biocomplexity (Culver, Reutter, et al- 9/04—2/09)
38,000	NOAA	Knauss Fellow—Southward
34,107	USFWS	Huron-Erie corridor system habitat; (Reutter; 8/11/04—9/30/05)
20,977	ODNR	Boater participation- Safety Survey. (Hushak 7/04—6/05)
75,000	ODNR	Ohio Clean Marinas Program. (Kelch 10/04—6/05)
25,000	LEPF	Clean boater program (Hushak 10/03—11/05)
19,105	NOAA	ANS Supplemental Funding—Lichtkoppler
16,716	NOAA	Ship time from NOAA
\$2,867,135		Subtotal 2004
\$4,557,635		Total Federal 2003-04

Matching Support from Universities

\$677,688	2003 Sea Grant Omnibus
165,935	Marine Biotechnology Supplemental Funding—Sayre
11,092	Clean boater program Hushak (10/03—11/05)
9,159	ANS Supplemental Funding—Lichtkoppler
\$863,874	Subtotal 2003
\$596,372	2004 Sea Grant Omnibus
45,000	Ohio Sea Grant College Program Fisheries Extension (Snyder; 5/04—4/06)
14,455	Huron-Erie corridor system habitat; (Reutter; 8/11/04—9/30/05)
7,533	Boater participation- Safety Survey. Hushak (7/04—6/05)
11,091	Clean boater program Hushak (10/03—11/05)
9,553	ANS Supplemental Funding—Lichtkoppler
\$684,004	Subtotal 2004
\$1,547,878	Total University Match 2003-04

State Line Item (1 July 2003 to 30 June 2005)

FY04	\$263,899
FY05	257,694
Total	\$521,593

Ohio State University Support (Operating Budgets)

	FY04	FY05	2-Year Total
Sea Grant/CLEAR	\$176,571	\$183,255	\$359,826
Stone Laboratory	281,857	277,501	559,358
Total	\$458,428	\$460,756	\$919,184

Private Sector Contributions

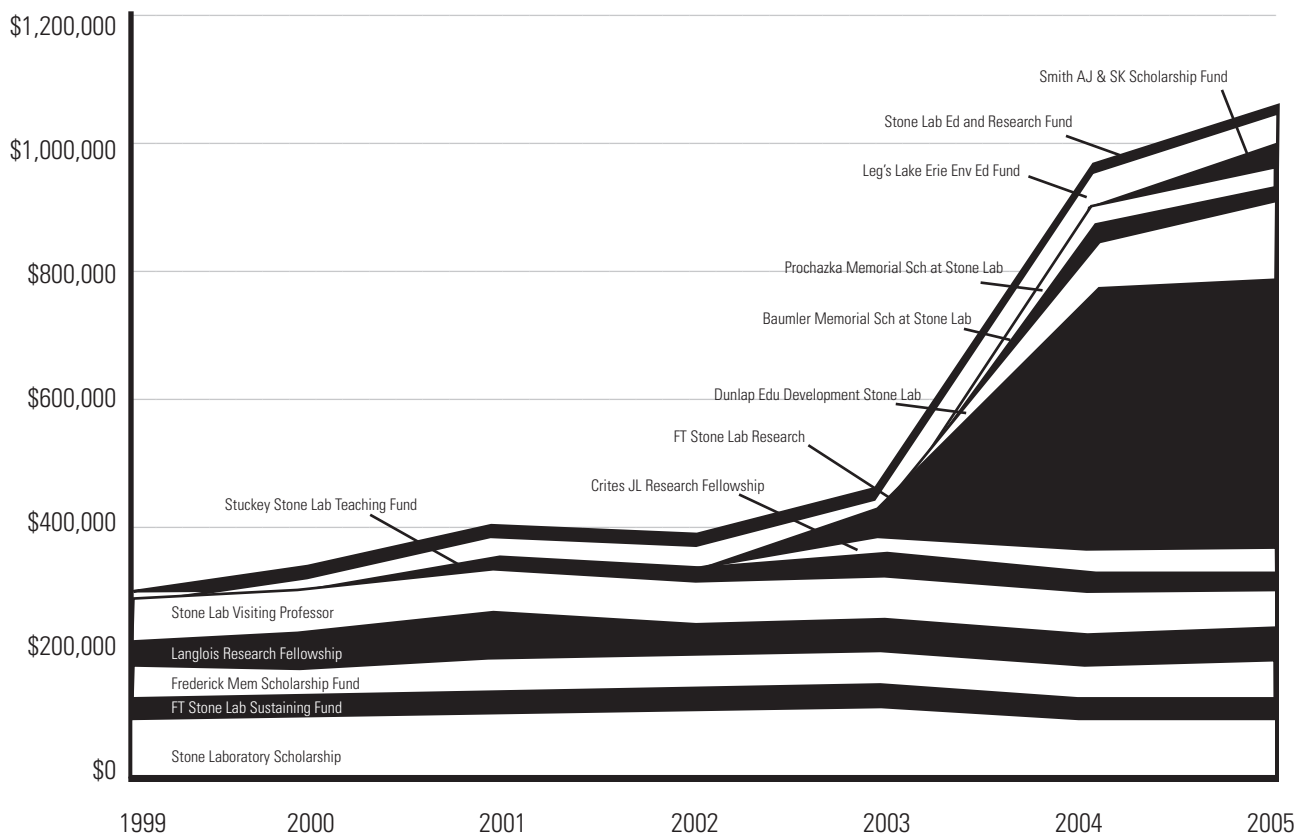
\$25,000	Approximate total for 15th State Legislature Day, July 16, 2004
10,000	Approximate value of booth space at boat shows and sport shows
1,061	Sandusky-Erie Cty Community Foundation—Legislature's Educ. Fund 2003
1,259	Sandusky-Erie Cty Community Foundation—Legislature's Educ. Fund 2004
519	Sandusky-Erie Cty Community Foundation—Educ & Rsch Fund 2003
499	Sandusky-Erie Cty Community Foundation—Educ & Rsch Fund 2004
55,060	Endowment Income 2003
449,508	Donations 2003
67,479	Endowment Income 2004
104,017	Donations 2004 (includes \$61,000 pledged to Dunlap Endowment in 2004)
\$714,402	Total

Scholarships at Stone Laboratory

\$17,264	41 Scholarships in 2003
14,254	36 Scholarships in 2004
\$31,518	Total 2003-04

Endowment Values (June 30 Equity Reports)

Fund	Description	1999	2000	2001	2002	2003	2004	2005
607012	Stone Laboratory Scholarship <i>(Established Sept. 2, 1983)</i>	\$99,731	\$104,029	\$112,524	\$115,349	\$117,373	\$99,255	\$99,991
607015	FT Stone Lab Sustaining Fund <i>(Established Dec. 8, 1983)</i>	\$43,766	\$44,361	\$45,046	\$46,016	\$46,601	\$47,651	\$49,870
602290	Frederick Memorial Sch Fund <i>(Established April 4, 1986)</i>	\$30,616	\$32,524	\$45,701	\$45,786	\$45,911	\$45,986	\$46,086
603930	Langlois Research Fellowship <i>(Established Dec. 5, 1986)</i>	\$33,716	\$39,148	\$46,638	\$34,896	\$40,146	\$40,271	\$40,296
607014	Stone Lab Visiting Professor <i>(Established Sept. 7, 1987)</i>	\$45,669	\$45,669	\$45,719	\$45,719	\$45,719	\$45,779	\$45,791
605406	Sea Grant Endowment <i>(Established Feb. 6, 1987)</i>	\$18,312	\$18,822	\$19,472	\$20,202	\$20,742	\$21,552	\$21,812
	Leg's Lake Erie Env Ed Fund <i>(Established July 1, 1999)</i>	—	\$9,508	\$33,330	\$29,262	\$33,468	\$35,308	\$35,308
	Stone Lab Ed and Research Fund <i>(Established November 30, 1999)</i>	—	\$14,431	\$13,358	\$11,533	\$13,075	\$13,787	\$13,787
607052	Stuckey Stone Lab Teaching Fund <i>(Established Feb. 2, 1996)</i>	—	—	\$16,455	\$16,905	\$17,325	\$18,100	\$18,405
601510	Crites JL Research Fellowship <i>(Established Sept. 6, 2002)</i>	—	—	—	—	\$30,815	\$33,757	\$36,307
602289	FT Stone Lab Research <i>(Established Sept. 6, 2002)</i>	—	—	—	—	\$67,901	\$458,555	\$459,384
641860	Dunlap Edu Development Stone Lab <i>(Established Feb. 6, 2004)</i>	—	—	—	—	—	\$54,692	\$130,343
600389	Baumler Memorial Sch at Stone Lab <i>(Established March 5, 2004)</i>	—	—	—	—	—	\$25,000	\$25,170
605928	Prochazka Memorial Sch at Stone Lab <i>(Established March 5, 2004)</i>	—	—	—	—	—	\$25,025	\$25,495
646690	Smith AJ & SK Scholarship Fund <i>(Established Nov. 5, 2004)</i>	—	—	—	—	—	—	\$25,100
	Total Equity	\$271,810	\$308,493	\$378,243	\$365,669	\$479,076	\$964,719	\$1,073,147
	<i>Percentage change</i>	—	13.50%	22.61%	-3.32%	31.01%	101.37%	11.24%



Appendix B

Institutions Involved

Table B-1:

Institutions Involved 2003-2004

Table B-2:

Home Institution of College Students
1986-2004

Table B-3:

Home Institutions of Concurrent
Enrollment (High School Students)
1990-2004

Table B-1. Collaborating Institutions: 2003 & 2004**Institutions are involved with the Ohio Sea Grant College Program in many ways including:**

1. Receiving funding from the program
2. Participating in our Great Lakes Aquatic Ecosystem Research Consortium
3. Conducting research at Ohio Sea Grant's Lake Erie Laboratory, Stone Laboratory
4. Teaching at Stone Laboratory
5. Sending students to Stone Laboratory for courses (Tables B-2 and B-3)

Institutions Receiving Funding from Ohio Sea Grant

Bowling Green State University
Cleveland State University
Cornell University
Heidelberg College
Kent State University
Miami University
Ohio State University
University of Akron
University of Cincinnati
University of Toledo
University of Windsor

Participants in the Great Lakes Aquatic Ecosystem Research Consortium

Bowling Green State University
Case Western Reserve University
Cleveland State University
Heidelberg College
John Carroll University
Kent State University
Miami University
Mount Union College
Ohio State University
Ohio University
University of Toledo
Wright State University

Teaching at Stone Laboratory: 2003-2004

Baldwin Wallace College
Bowling Green State University
International Joint Commission
Miami University
Ohio State University
Otterbein College
University of Michigan
US Geological Survey
Utica College of Syracuse University
Wittenberg University

Conducting Research at our Lake Erie Laboratory, Stone Laboratory: 2004

Bowling Green State University
Cornell University
Heidelberg College
Kent State University
Miami University
Niagara University
Northern Illinois University
Ohio State University
University of Toledo
University of Windsor
USDA
Wittenberg University

Partners on the Coastal Training Program

Ohio Coastal Management Program
Ohio Sea Grant College Program
Old Woman Creek NERR (Lead Program)

Partners on the Ohio Clean Marina Program

Lake Erie Marine Trades Association
ODNR Coastal Management Program
ODNR Division of Soil and Water Conservation
ODNR Division of Watercraft
Ohio Environmental Protection Agency
Ohio Sea Grant College Program (Lead Program)
Ohio State University Extension
US Coast Guard

Partners on the Ohio Clean Boater Program

Lake Erie Marine Trades Association
Ohio Coastal Management Program
ODNR Division of Soil and Water Conservation
ODNR Division of Watercraft
Ohio Lake Erie Commission
Ohio Sea Grant College Program (Lead Program)

Partners on the Ohio Sea Grant Fish Extension Program

Great Lakes Fishery Commission
Great Lakes Sport Fishing Council
Lake Erie Charter Boat Association
Lake Erie Nature and Science Center
ODNR Division of Wildlife
Ohio Sea Grant College Program (Lead Program)
Ohio State University Extension
Recreational Boating and Fishing Foundation

Partners in Developing Ohio Governor's Priorities for Lake Erie

Council of Great Lakes Governors
Great Lakes Commission
Office of the Governor
Ohio Department of Natural Resources
Ohio Environmental Protection Agency
Ohio Sea Grant College Program

Partners on Lake Erie Millennium Network (Co-Leaders)

Environment Canada
Ohio Sea Grant College Program and Stone Laboratory
University of Windsor
US EPA

TABLE B-2: Home Institutions of College-Level Students • 1986-2004

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08
Percentage of Non-OSU students	23.3	29.2	19.7	7.9	19.6	22.5	33.1	19.2	28.7	20.5	12.7	14.3	19.3	16.7	27.0	15.4	21.4	12.4	15.2				
INSTATE																							
Ashland Univ					1				2	1	1			1	1	2			1				
Baldwin-Wallace College		2			1		1		1		1	1			2	2	1	1	1				
Bluffton College					1		1																
*Bowling Green State Univ		2	1		2	1	2	3	2	2	4	1	3	6	4	12	3	21	10				
Capital Univ							1										1	1	1				
Case Western Reserve Univ				1					1														
Cedarville College							1																
*Cincinnati State Tech&Comm Coll												1	1	1									
*Cleveland State Univ		2	1	1			2		2				1	2	1								
College of Mount St. Joseph										1									1				
College of Wooster	1				1									1									
Columbus Coll Art & Design							1																
*Columbus State Comm College								1								2	1						
*Cuyahoga Community Coll					1	2	3	1	3	1	1				2		1						
Defiance College												1											
Denison University																							
Heidelberg College		2					1					1			1			10					
*Hocking Tech College	1								1														
John Carroll Univ		1			1	2	1							1		1							
*Kent State Univ		2		2	3	3			1	1	1	1	4	1	2	4	1	1	1				
Lake Erie College								1	1														
*Lakeland Community College								1	1														
Malone College																							
*Miami University	3	2	7	1	4	7	6	6	3	10	3	2		1	4	1	1		3				
Mt. Vernon Nazarene College	1																						
*North Central Tech College						1	1																
Oberlin College						1																	
Ohio Northern Univ									1						2	1	1		10				
*Ohio State University	33	51	49	58	74	77	89	122	107	101	109	113	113	125	89	109	299	199	83				
Ohio University		1	1	1	1	1	4	2	2	3			1	2	2	1	1						
Ohio Wesleyan Univ					1	1				1		1	1										
Otterbein College		1					1				1	1	1	1		2	1	1					
*Owens Community College																							
Union Institute																							
*Univ of Akron					1			1	1	1	1	1	1	1	1	1							
*Univ of Cincinnati	1		1				1	1	1			1			1								
Univ of Dayton																	1						
*Univ of Findlay							1						2		3	1	1						
*Univ of Toledo		2			1	5	1		2	1				2	2			1					
Urbana Univ							1																
Ursuline College								1															
Walsh Univ																							
Wilmington College									1				1						1				
Wittenberg Univ	1			1	1	1		1	1	1	1	1	2		1	1		2	1				
*Wright State Univ						1		4	3	1	1	1	3	2	3	1	1						
Xavier University												1	1	1									
*Youngstown State Univ	2		1		1	2	2	2	1			1											

Superscript = number of workshop participants NOT included in total
 * = state-assisted institution of Ohio

TABLE B-2: Home Institutions of College-Level Students • 1986-2004

Continued

	0	4	0	0	0	0	6	9	2	3	3	6	4	4	5	5	4	2
Tot # of different out-of-state coll/yr	8	11	7	6	14	14	21	11	11	9	16	13	14	15	13	17	8	13
Tot # of different in-state coll/yr	8	15	7	6	14	20	30	14	14	12	19	19	18	19	18	22	12	15
TOTAL # ALL coll/yr	8	21	21	23	27	41	57	60	61	65	70	74	76	80	88	92	97	
Cumulative # ALL Colleges	8	21	21	23	27	41	57	60	61	65	70	74	76	80	88	92	97	

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2004

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04
Admiral King High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
• Ambridge Area HS, Baden PA	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Anderson HS, Cincinnati	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Anna HS, Anna	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Anthony Wayne HS, Whitehouse	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
Arlington HS, Arlington	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Ashland HS, Ashland	-	-	-	-	-	-	2	-	1	3	6	-	3	-	-
Avon HS, Avon	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Avon Lake HS, Avon Lake	-	1	1	1	-	2	-	-	-	-	1	-	-	-	-
Badger HS, Kinsman	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Barnesville HS, Barnesville	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
• Bartlett HS, Anchorage AK	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Bath HS, Lima	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
Bay HS, Bay Village	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Beaumont School HS, Cleveland Hts	-	1	2	1	-	1	-	-	1	-	1	-	-	-	-
Beavercreek HS, Beavercreek	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Beechcroft HS, Columbus	-	1	1	1	2	-	-	-	-	-	1	2	1	1	-
Bellefontaine HS, Bellefontaine	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Bellevue HS, Bellevue	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Benjamin Logan HS, Bellefontaine	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Berea HS, Berea	-	1	-	-	-	-	-	-	-	1	1	-	1	-	-
Bethel HS, Tipp City	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-
Bexley HS, Bexley	-	-	1	-	2	-	-	2	-	1	1	-	-	-	-
Big Walnut HS, Sunbury	-	-	-	1	1	-	1	1	2	2	-	-	-	2	1
Bishop Hartley HS, Columbus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Bishop Ready HS, Columbus	-	-	-	1	2	1	-	1	1	1	-	-	-	-	-
Bishop Rosecrans HS, Zanesville	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-
Bishop Watterson HS, Columbus	-	-	-	-	-	-	-	-	1	-	1	1	1	-	-
Black River HS, Sullivan	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-
Bloom-Carroll HS, Carroll	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-
Brecksville-Broadview Hts HS, Broadview Hts	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-
Briggs HS, Columbus	-	-	-	-	-	-	-	1	1	-	3	-	2	1	-
Brookhaven HS, Columbus	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Brookside HS, Sheffield	1	-	-	-	-	-	-	2	-	-	-	1	1	-	-
Bryan HS, Bryan	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Buckeye HS, Medina	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Buckeye Local HS, Rayland	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
Buckeye Valley HS, Delaware	-	-	-	-	-	-	2	-	-	2	1	-	1	-	-
Bucyrus HS, Bucyrus	-	1	-	-	-	-	-	-	-	2	-	-	2	1	1
Cahs 2001 HS (Cols Acad HS2001), Cols	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-
Calvin M. Woodward HS, Toledo	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-
Celina HS, Celina	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Centennial HS, Columbus	-	-	-	1	-	1	-	-	-	-	1	1	-	2	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2004

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04
Mapleton HS, Ashland	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Marburn Academy, Columbus	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Margaretta HS, Castalia	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
Marion L. Steele HS, Amherst	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Marion Catholic HS, Marion	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Marion-Franklin HS, Columbus	-	-	-	-	-	1	5	2	1	2	1	3	-	1	-
Marlington HS, Alliance	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Marysville HS, Marysville	1	-	1	-	-	-	1	-	-	-	-	-	-	1	-
Maumee HS, Maumee	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
Maumee Val Country Day HS, Toledo	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Mayfield HS, Mayfield	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
McAuley HS, Cincinnati	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
McKinley HS, Canton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Meadowdale HS, Dayton	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-
Medina HS, Medina	-	-	-	1	1	-	-	-	-	-	1	-	1	-	-
Mentor HS, Mentor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Miami Trace HS, Washington CH	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
Miamisburg HS, Miamisburg	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Mifflin HS, Columbus	-	-	-	2	-	2	-	1	-	2	-	-	-	-	-
Milford Sr HS, Milford	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-
Miller City HS, Miller City	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Minerva HS, Minerva	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Minster HS, Minster	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-
Monroeville HS, Monroeville	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-
•Montoursville Area HS, Montoursville PA	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
•Mount Lebanon Senior HS, Pittsburgh PA	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Mount Vernon HS, Mt. Vernon	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Morgan HS, McConnelsville	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Napoleon HS, Napoleon	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
New Albany HS, New Albany	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
New London HS, New London	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
New Philadelphia HS, New Philadelphia	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Newark HS, Newark	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
Newark Catholic HS, Newark	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-
Newton Falls HS, Newton Falls	2	-	1	4	1	3	6	2	-	1	-	-	-	-	1
North HS, Akron	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
North Olmsted HS, North Olmstead	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-
North Ridgeville HS, N Ridgeville	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Northeastern HS, Springfield	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-
Northland HS, Columbus	2	-	-	-	-	1	1	2	2	-	-	-	2	2	-
Northmont HS, Clayton	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Northridge HS, Johnstown	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Norwood HS, Norwood	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-

Continued

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2004

Continued

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04
Notre Dame Academy HS, Toledo	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-
Oak Harbor HS, Oak Harbor	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-
Oak Hills HS, Cincinnati	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
Olentangy HS, Lewis Center	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
Olmsted Falls HS, Olmsted Falls	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
Oliney Friends HS, Barnesville	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Ontario HS, Mansfield	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Ottawa-Glandorf, Ottawa	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Our Lady of the Elms HS, Akron	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Padua Franciscan HS, Parma	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-
Parma HS, Parma	-	-	2	2	-	-	-	-	-	1	-	-	-	-	-
•Peoria Notre Dame HS, Peoria Hts IL	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Perry HS, Peery	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Perrysburg HS, Perrysburg	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-
Pickerington HS, Pickerington	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
Piqua HS School, Piqua	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Port Clinton HS, Port Clinton	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-
•Pulaski County HS, Eubank KY	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Put-in-Bay HS, Put-in-Bay	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3
R.B. Chamberlin HS, Twinsburg	-	-	1	-	-	-	1	-	1	1	-	-	-	-	-
Ravenna HS, Ravenna	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Revere HS, Richfield	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Reynoldsburg HS, Reynoldsburg	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-
Ridgewood HS, West Lafayette	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Riverside HS, Degraff	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rocky River HS, Rocky River	-	-	-	-	-	-	-	-	-	3	2	1	2	-	-
Roosevelt HS, Kent	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-
Ross HS, Hamilton	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Rutherford B Hayes HS, Delaware	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Seneca East HS, Attica	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Seton Home Study Sch, Front Royal VA ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Seven Hills School HS, Cincinnati	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Shelby HS, Shelby	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Solon HS, Solon	1	-	-	-	-	1	-	1	2	-	-	1	1	-	-
South HS, Columbus	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
South Central HS, Greenwich	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
South Point HS, South Point	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-
Southeastern HS, Richmond Dale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Southern Local Jr-Sr HS, Salineville	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-
Springboro HS, Springboro	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Springfield HS, Akron	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Springfield North HS, Springfield	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
St Charles Preparatory HS, Columbus	-	-	-	-	-	-	-	1	1	1	2	1	-	-	3

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2004

Continued

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04
St Clairsville HS, St Clairsville	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
St Francis De Sales HS, Columbus	-	-	-	-	1	-	-	-	1	1	-	-	-	2	3
St Ignatius HS, Cleveland	-	1	2	-	-	-	-	-	-	-	1	-	1	1	1
St John's Jesuit HS, Toledo	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
St Joseph Academy HS, Cleveland	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-
St Joseph Central HS, Ironton	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
St Joseph HS, Fremont	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
St Mary Central Catholic HS, Sandusky	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
St Peter HS, Mansfield	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
St Thomas Aquinas HS, Louisville	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
St Ursula Academy, Toledo	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Start HS, Toledo	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Stebbins HS, Dayton	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Streetsboro HS, Streetsboro	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Strongsville HS, Strongsville	1	-	-	1	2	-	-	-	-	-	-	-	-	1	-
Swanton HS, Swanton	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Sylvania Northview HS, Sylvania	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Sylvania Southview HS, Sylvania	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Taft HS, Cincinnati	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Talawanda HS, Oxford	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Tallmadge HS, Tallmadge	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Thomas Worthington HS, Worthington	-	-	-	-	-	-	2	-	-	-	-	-	1	-	1
Tinora HS, Defiance	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Tippecanoe HS, Tipp City	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Toronto HS, Toronto	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Tri-Valley HS, Dresden	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Triway HS, Wooster	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Turpin HS, Cincinnati	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Union Local HS, Belmont	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
United HS, Hanoverton	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
Upper Arlington HS, Upper Arlington	1	1	1	2	-	2	1	3	-	4	2	1	4	2	1
Upper Sandusky HS, Upper Sandusky	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Urbana HS, Urbana	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ursuline Academy HS, Cincinnati	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-
Ursuline HS, Youngstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Valley Forge HS, Parma Heights	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-
Valley View HS, Germantown	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
• Vanguard HS, Ocala FL	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Van Wert HS, Van Wert	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermilion HS, Vermilion	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinton County HS, McArthur	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Wadsworth HS, Wadsworth	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Walnut Ridge HS, Columbus	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2004

Continued

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04
Wapakoneta HS, Wapakoneta	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Watkins Memorial HS, Pataskala	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Wauseon HS, Wauseon	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Waverly HS, Waverly	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Waynedale HS, Apple Creek	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Wellington HS, Columbus	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
West Branch HS, Beloit	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
West Carrollton HS, West Carrollton	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
West Geauga HS, Chesterland	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-
West HS, Columbus	-	-	2	-	7	-	1	-	-	2	-	2	-	1	-
West Holmes HS, Millersburg	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
West Liberty-Salem Jr/Sr HS, West Liberty	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Westerville-North HS, Westerville	1	-	1	1	2	2	-	-	-	-	1	-	-	-	-
Westerville-South HS, Westerville	-	-	-	-	1	1	-	2	-	-	2	-	1	2	1
Westlake HS, Westlake	-	-	-	2	-	-	-	1	-	1	-	1	-	-	-
Westland HS, Galloway	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Whetstone HS, Columbus	-	-	-	1	-	-	1	6	3	1	1	3	-	-	1
Wm Fisher Catholic HS, Lancaster	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1
Wm Henry Harrison HS, Harrison	1	1	1	1	1	1	-	-	-	2	-	-	-	-	1
Wm Mason HS, Mason	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Willoughby South HS, Willoughby	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Winton Woods HS, Cincinnati	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Woodmore HS, Elmore	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Wooster HS, Wooster	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Worthington Kilbourne HS, Columbus	-	-	1	1	-	-	-	-	1	-	-	-	2	-	-
TOTAL # of High Schools/year	19	47	57	61	50	44	42	53	60	52	60	40	51	40	45
Cumulative # of All High Schools	19	61	101	140	163	179	198	224	248	262	278	289	302	312	326
Cumulative # of Out-of-State Schools	-	-	2	3	5	-	6	7	-	8	-	9	-	-	10

• = Out-of-State

1 = Not counted as out-of-state school as student was a home-schooled Ohio resident (and paid in-state tuition) who had her records housed at this school.

Appendix C

Project Statistics

Table C-1:

Ohio Sea Grant Funded Projects
Initiated from 1-1-03 to 12-31-04

Table C-2:

Ohio Sea Grant Development Fund
Projects Initiated from
1-1-03 to 12-31-04

Table C-3:

Education Projects and
Accomplishments, 2004

Publications from Projects

57 in 2003

45 in 2004

Presentations from Projects

101 in 2003

67 in 2004

Appendix C

Table C-1. Ohio Sea Grant Funded Project Information Initiated from 1-1-03 to 12-31-04*

* Does not include continuing communications, extension, and management projects

Project Number	Project Title	Initiation	Principal Investigator
E/I-16	Sea Grant Federal Fellows Program - Martinez	2/1/2003	Jeffrey Reutter
R/PS-31	Advanced Treatment Processes for the Removal of Cyanobacterial Toxins from Drinking Water	3/1/2003	Harold Walker
R/PS-30	Sonochemical Desorption of Contaminant Mixtures from Sediment	3/1/2003	Linda Weavers
R/PS-29	Photodegradation of Agricultural Herbicides in Lake Erie Coastal Wetlands	3/1/2003	Yu-Ping Chin
R/EM-23	Developing a spatial watershed model to predict the effects of watershed policies on coastal water quality and habitat change	3/1/2003	Jay Martin
A/NIS-6	Report on Sea Grant-Supported Nonindigenous Species Projects	3/1/2003	Karen Ricker
R/BT-8	Development of Fluorescent Biosensors for In Situ Trace-Metal Quantification and Biomonitoring	6/1/2003	Richard Sayre
A/EP-7	A National ANS Outreach Campaign for the Aquarium Industry and Hobbyists Consumers: A Collaborative Effort Involving the Pet Industry Joint Advisory Council, U.S. Fish and Wildlife Service and Great Lakes Sea Grant Network	6/1/2003	Frank Lichtkopler
M/P-9	Ohio Sea Grant Ship Time 2003-04	8/1/2003	Jeffrey Reutter
E/I-17	Sea Grant Federal Fellows Program - Southward	2/1/2004	Jeffrey Reutter
R/LR-7	Walleye And Yellow Perch Stock Structure In The Great Lakes: A High-Resolution DNA Data Base For Fishery Management	3/1/2004	Carol Stepien
R/PS-34	Evaluation of Dewatering Strategies for PCB-Contaminated Sediments in the Great Lakes Region	3/1/2004	Patrick Fox
R/ME-30	The Influence of Water Quality and Lake Amenities on the Demand for Residential Development around Lake Erie	3/1/2004	Elena Irwin
A/EP-9	Fisheries Extension Enhancement: Ohio Sea Grant Fisheries Extension Agent	5/1/2004	Frederick Snyder

Total Number of Non-Development Fund Projects: 14

Table C-2. Ohio Sea Grant Development Fund
Project Information Initiated from 1-1-03 to 12-31-04

Project Number	Project Title	Initiation	Principal Investigator
R/PS-33-PD	Supplemental funding for equipment	3/1/2003	Yu-Ping Chin
A/P-6-PD	2004 Ohio Sea Grant Calendar	3/1/2003	Karen Ricker
R/A-17-PD	Impact of latitude on freshwater shrimp culture in Ohio	5/15/2003	Donald McFeeters
R/ER-65-PD	The fish assemblage of Metzger Marsh: Continued assessment of the effects of restoration	6/1/2003	David Johnson
R/ER-29-PD	Distribution and abundance of fishes in native and non-native macrophytes in Old Woman Creek estuary	6/1/2003	D. Aday
R/NIS-8-PD	Habitat preference and behavioral interactions between round goby and yellow perch	6/15/2003	Maria Gonzalez
R/ER-66-PD	Development of a rapid surveillance method for annual mayfly surveys in Lake Erie	7/1/2003	Kenneth Krieger
A/EP-8-PD	Business Retention and Expansion International Consultant Certification	7/1/2003	Joseph Lucente
R/ER-68-PD	Influence of Landscape Hierarchies on Food Web Structure in a Lower Great Lakes River System	11/1/2003	Lance Williams
R/ER-69-PD	Lake Erie Watersnake Recovery Plan Implementation	3/1/2004	Richard King
R/A-18-PD	Relationship Between Lake Erie Walleye Gamete Viability And Concentrations Of Vitamins B1 In Eggs And Sperm	3/1/2004	Konrad Dabrowski
R/EM-26-PD	Preliminary Data to Evaluate the Use of Precursor 16S rRNA as an Indicator of Viable Waterborne Pathogens in the Environment	4/1/2004	Daniel Oerther
R/A-19-PD	Effect of a fishmeal-free diet on the growth and PCB levels of freshwater shrimp in Ohio	5/15/2004	Donald McFeeters
A/EP-10-PD	International Leadership Development for Coastal Decision Makers	11/1/2004	Joseph Lucente

Table C-3. Education Projects and Accomplishments, 2004

Activities listed in this section support Goal VIII, Marine and Aquatic Science Literacy:

A. Create and sustain effective marine and aquatic science-based educational programs, and B. Expand professional development opportunities for all educators. They represent a combination of formal and informal education, secondary through graduate level.

1. Projects in progress with Ohio Sea Grant support

- **E/TER-2** Expanding delivery modes for education about Great Lakes systems. The 2002-2005 project completed the delivery modes of Decision Making Curriculum materials on the internet [<http://earthsys.ag.ohio-state.edu/Decision/>] and development of a database of informal education opportunities on the south shore of Lake Erie [<http://earthsys.ag.ohio-state.edu/erieed/>]. For the third and final year of the project the focus is on changing the successful ES-EAGLS curriculum materials into short courses for teachers. Four courses are in development at this point.
- **E/TER-3** Great Lakes teacher education: High tech/high touch learning. This is a two year project from 2005-7, and in preparation for the first year [high touch] Ohio Sea Grant held a competition for three Teacher Fellowship positions at Stone Lab. The recipients included a new teacher at a charter school, an experienced inner city teacher, and a teacher who has been a regular contributor to Ohio Sea Grant programs and materials. All teach high school and will be enrolled full time in Stone Lab and other courses in Summer 2005.

2. Projects in addition to and supportive of Ohio Sea Grant Efforts

- Evaluation of traditional and electronic instructional media for environmental science learning. Sponsor OARDC: Hatch. \$1500/year, 2003-2007.
- Videoconferencing support for F.T. Stone Laboratory. Sponsor: Ohio Sea Grant Director's Discretionary Fund. \$7500 for 2005-6.
- Lake Erie distance education from F.T. Stone Laboratory. Sponsor: USEPA Region V. \$21,762. 2002-2004. In its final year of funding the project produced plans and marketing materials for three Virtual Workshops to be broadcast from Stone Lab to schools.
- Late in 2004 the Great Lakes Educators' Network began development of a proposal for a Center for Ocean Science Education Excellence [COSEE] for the region. Dr. Fortner coordinated the proposal writing and will serve as Director if the Great Lakes COSEE is funded by NSF. The proposal was submitted 3/2/05.

3. Products

- Internet development began on Year 3 of E/TER-2, with production of outlines and initial pages for short courses for teachers that would use ES-EAGLS as text and have internet enhancements and course credit potential. The five courses should be completed by 2006.
- Alien Invaders: Teaching and Learning about Exotic Species [<http://earthsys.ag.ohio-state.edu/Alien/>] was developed with a Great Lakes Network project and NOAA-ANS Outreach funds. It is offered three times per year, and attracts about an equal number of teachers and undergraduates.
- Our database of informal education opportunities on the south shore of Lake Erie [<http://earthsys.ag.ohio-state.edu/erieed/>] is populated with about 150 organizations and agencies. The groups may update their information through secure pages, and teachers may search by topic, geographic area, or facility.

4. Graduate Education

- Lyndsey Manzo, MS 2004. *Evaluating the use of a structured decision-making framework as a method of teaching about environmental issues*. [Used on-line decision activities from E/TER-2]
- Kye-Joong Cho, PhD 2005. *Development of a stakeholder-based model for managing interpretation in Korean National Parks*. [Dr. Cho was webmaster for the Great Lakes Educators of Aquatic and Marine Science, GLEAMS, during his years on campus.]
- Hongxia Duan, PhD candidate, is developing the Climate short course on line and reorganizing some of the project web sites to move to the Sea Grant server.
- Chankook Kim, PhD candidate and University Fellow, is webmaster for the earthsys web site where Ohio Sea Grant Education projects are currently housed. He is developer of the Land-Water Interactions short course, and is using some of the GLIMCES activities in a Sustainability Education project with the College of Engineering [NSF-MUSES, Bhavik Bakshi, PI].

5. Publications

- Fortner, R. W. 2004. Evaluation of teacher programs at F.T. Stone Laboratory [Bircher, Fortner & NR 810 students]. CLEAR Technical Bulletin TB-076.
- Fortner, R. W. 2004. Beam me up! Videoconferences extend Stone Lab learning. Twine Line Jan-Feb 2004. p. 4.
- Fortner, R.W., J.R. Corney and V.J. Mayer, 2005. Growth in student achievement as an outcome of inservice education using Standards-based infusion materials. *NAAEE Monograph 2: Preparing effective environmental educators*. Pp 73-90.
- Lee, Hyonyong and R.W. Fortner, in press for March 2005. International geoscience educators' perceptions of approaches to K-12 science education for the 21st Century. *Journal of Geoscience Education*.
- Fortner, R.W. in press for 2005. A long walk to the water's edge. *Science Activities* special issue on language arts in science. Adapted from GLIMCES.
- Kim, Chankook and R.W. Fortner. In revision. Pedagogical knowledge and perceived barriers to teaching science with environmental issues. *Journal of Environmental Education*.

6. Service: The Ohio Sea Grant Education Program coordinator serves as

- Associate Editor of the Journal of Great Lakes Research, for education manuscripts.
- Great Lakes regional coordinator for the BRIDGE for Marine Education, interactive web site sponsored by NOPP and Sea Grant nationally.

7. Presentations

- Classroom technology for learning and decision making about invasive species. Poster presented at the Thirteenth International Conference on Aquatic Invasive Species, Ennis, Ireland. September 2004.
- Educators respond to invasive species: Interactive web-based activities for leaning and decision making. Presented at the Thirteenth International Conference on Aquatic Invasive Species, Ennis, Ireland. September 2004.
- Presentation on Environmental Education in the United States, for the International Symposium on Earth Systems and Environmental Education, Tokyo, March 2004
- Fortner, R. W., and Goettel, R. 2004. Classroom technology for learning and decision making about invasive species. Presented at the annual conference of the North American Association for Environmental Education, Biloxi, MS.
- Using the Internet in Sea Grant Education. Presented at the Great Lakes Sea Grant Network Meeting, Put-in-Bay. September 2004.
- Participation in marine education research. Presented at the annual conference of the National Marine Educators Association, St. Petersburg, FL, July 2004

Table C-4. Publications from Ohio Sea Grant Projects—2003**Scientific Publications (including published Abstracts)**

Project Number	Initiation Date	Completion	Publication
A/EP-1	9/1/1978		Blaine, T.W., F. R. Lichtkopler, and R. Stanbro. 2003. An Assessment of Residents' Willingness to Pay for Green Space and Farmland Preservation Conservation Easements Using the Contingent Valuation Method (CVM). <i>Journal of Extension</i> . 41 (4) (electronic format) http://www.joe.org/joe/2003august/a3.shtml
E/TER-2	3/1/2002	2/28/2005	Rosanne W. Fortner, Joe L. Arvai, 2003. Instructional materials for environmental decision making. Proceedings of the 32nd NAAEE Annual Conference. [on CD-ROM]
R/A-17-PD	5/15/2003	4/30/2004	Dodd, Quentin 2003. Yes, folks, shrimp can be grown outdoors in southern Ohio. Hatchery International, May/ June 2003.
R/CE-9-PD	10/1/2002	2/28/2003	Shum, C., Y. Yi, K. Cheng, C. Kuo, A. Braun, S. Calmant and D. Chamber. 2003. Calibration of Jason-1 altimeter over Lake Erie. <i>Marine Geodesy</i> , 26:335-354, doi: 10.1080/01490410390253487. Zhao, C., C. Shum and Y. Yi. 2003. Calibration results of GFO, Satellite altimetry for geodesy, geophysics and oceanography. <i>International Association of Geodesy Symposia 126</i> , Hwang, C, C. Shum and J. Li (Editors), Springer-Verlage Berlin Heidelberg New York, ISBN 3-540-420211-0, 41-45.
R/ER-37	9/1/1996	8/31/1998	Heath, R. T. 2003. Microbial turnover of organic phosphorus in aquatic systems. Chapter 9 IN: "Organic Phosphorus in the Environment" Ed. Turner, B., in review.
R/ER-39	3/1/1997	4/30/2001	Whyte, R. and D. Francko. 2003. The aquatic vegetation of the Old Woman Creek National Estuarine Research Reserve (Huron, OH): A Lake Erie coastal wetland. <i>Mich. Bot.</i> 42:63-84.
R/ER-46-PD	3/1/1997	8/31/1999	Whyte, R. and D. Francko. 2003. The aquatic vegetation of the Old Woman Creek National Estuarine Research Reserve (Huron, OH): A Lake Erie coastal wetland. <i>Mich. Bot.</i> 42:63-84.
R/ER-60	3/1/2002	2/28/2004	Heath, RT, S-J Hwang, and M. Munawar. 2003. Microbial food webs in nearshore and offshore communities of the North American Great Lakes. <i>Aquatic Ecosyst. Health and Management</i> 6(3): 231 - 239.
R/ER-64-PD	5/1/2002	10/31/2003	Ray, J. M., and R. B. King 2003. Long-term changes in body size and condition in the Lake Erie water snake (<i>Nerodia sipedon insularum</i>). <i>Transactions of the Illinios State Academy of Science</i> 96:43.
R/ES-4	9/1/1987	8/31/1990	Krieger, K. A. 2003. Effectiveness of a coastal wetland in reducing pollution of a Laurentian Great Lake: hydrology, sediment, and nutrients. <i>Wetlands</i> 23:778-791.
R/NIS-6-PD	3/1/1999	12/31/1999	Stepien, C.A., C.D. Taylor, I.A. Grigorovich, S.V. Shirman, R. Wei, A.V. Koriushin, and K.A. Dabrowska. 2003. DNA and systematic analysis of invasive and native dreissenid mussels: Is <i>Dreissena bugensis</i> really <i>D. rostriformis</i> ? <i>Aquatic Invaders: The Digest of the National Aquatic Nuisance Species Clearinghouse</i> . 14(2): 1 and 8-16.

Scientific Publications (including published Abstracts)—cont'd.

Project Number	Initiation Date	Completion	Publication
R/NIS-108-SG	9/1/1997	8/30/1998	Stepien, C.A., C.D. Taylor, I.A. Grigorovich, S.V. Shirman, R. Wei, A.V. Koriushin, and K.A. Dabrowska. 2003. DNA and systematic analysis of invasive and native dreissenid mussels: Is <i>Dreissena bugensis</i> really <i>D. rostriformis</i> ? Aquatic Invaders: The Digest of the National Aquatic Nuisance Species Clearinghouse. 14(2): 1 and 8-16.
R/NP-1	3/1/1998	5/30/2001	Ma, R., K. Di, and R. Li. 2003. 3-D Shoreline Extraction from IKONOS Satellite Imagery. The 4th Special Issue of Marine Geodesy, Volume 26, No. 1, pp. 107-115, January.
R/ZM-9	9/1/1993	12/1/1997	Stepien, C.A., C.D. Taylor, I.A. Grigorovich, S.V. Shirman, R. Wei, A.V. Koriushin, and K.A. Dabrowska. 2003. DNA and systematic analysis of invasive and native dreissenid mussels: Is <i>Dreissena bugensis</i> really <i>D. rostriformis</i> ? Aquatic Invaders: The Digest of the National Aquatic Nuisance Species Clearinghouse. 14(2): 1 and 8-16.
R/ZM-25	9/1/1994	8/31/1996	Shoup, D. E., R. E. Carlson, and R. T. Heath, and M. W. Kershner. 2003. Comparison of the species composition, catch rate, and length distribution of the catch from the trap nets with three different mesh and throat size combinations. North Am. J. Fisheries Mgmt. 23: 462 Shoup, D. E., R. E. Carlson, and R. T. Heath. 2003. Effects of predation risk and foraging return on the diel use of vegetated habitat by two size-classes of bluegills. Trans. Am Fisheries Soc. 132: 590-597

Total Scientific Publications (including published Abstracts): 17**Reports, Fact Sheets**

Project Number	Initiation Date	Completion	Publication
A/AS-5-PD	7/1/1992	11/30/1992	Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.
A/EP-5	3/1/2002	2/28/2003	Lichtkoppler, F. R. 2003. Illinois-Indiana's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program . (OHSU-TS-032). Lichtkoppler, F. R., and C. Pistis 2003. Michigan's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program (OHSU-TS-033). Lichtkoppler, F. R. 2003. Minnesota's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program (OHSU-TS-034). Lichtkoppler, F. R., and D. Kuehn. 2003. New York's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program (OHSU-TS-035). Lichtkoppler, F. R. 2003. Ohio's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program (OHSU-TS-036).

Reports, Fact Sheets—cont'd.

Project Number	Initiation Date	Completion	Publication
			Lichtkoppler, F. R. 2003. Pennsylvania's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program (OHSU-TS-037).
			Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. The Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program. (OHSU-TS-039).
			Lichtkoppler, F. R. 2003. Wisconsin's Great Lakes Charter Fishing Industry in 2002. Great Lakes Sea Grant Network. Ohio Sea Grant College Program (OHSU-TS-038).
M/P-1	9/1/1978		Reutter, J.M. 2003. 2002 Program highlights. The Ohio State University. Ohio Sea Grant Program. Twine Line 25(1): 1-5.
			Reutter, J.M. 2003. We need help!! The Ohio State University. Ohio Sea Grant Program. Twine Line 25(1): 1-5.
M/P-2	9/1/1980		Lichtkoppler, F. 2003. Land Use Issues and Concerns in Lake County, Ohio: Survey Results. Columbus, OH: Ohio Sea Grant College. Publication OHSU-TB-063.
			Lichtkoppler, F. 2003. Soil and Water Issues in Cuyahoga County, Ohio: Survey Results. Columbus, OH: Ohio Sea Grant College. Publication OHSU-TB-062.
			Lichtkoppler, F. 2003. The Future of Curbside Recycling in Lake County, Ohio: A Report on Residents' Views. Columbus, OH: Ohio Sea Grant College. Publication OHSU-TB-061.
R/ER-40-PD	9/1/1996	8/31/1998	Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.
R/ER-64-PD	5/1/2002	10/31/2003	King, R. B. 2003. Hibernation, seasonal activity, movement patterns, and foraging behavior of adult Lake Erie water snakes. Quarterly Status Report to the Ohio Division of Wildlife and U.S. Fish and Wildlife Service. 22 July 2003. 8 pp.
			U.S. Fish and Wildlife Service. 2003. Lake Erie water snake (<i>Nerodia sipedon insularum</i>) Draft Recovery Plan. U. S. Fish and Wildlife Service, Fort Snelling, MN. 111 pp. Prepared by M. M. Seymour and R. B. King.
			U.S. Fish and Wildlife Service. 2003. Lake Erie water snake (<i>Nerodia sipedon insularum</i>) Draft Recovery Plan. U. S. Fish and Wildlife Service, Fort Snelling, MN. 88 pp. Prepared by M. M. Seymour and R. B. King.
			King, R. B. 2003. Lake Erie water snake abundance and habitat use: implications for recovery. Final Report to the Lake Erie Plan Commission. 13 pp.
R/ZM-6	8/1/1991	7/31/1993	Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.

Reports, Fact Sheets—cont'd.

Project Number	Initiation Date	Completion	Publication
R/ZM-7	9/1/1992	8/31/1994	Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.
R/ZM-25	9/1/1994	8/31/1996	Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.

Total Reports, fact sheets: 22**Popular magazine, newsletter and newspaper articles**

Project Number	Initiation Date	Completion	Publication
R/A-17-PD	5/15/2003	4/30/2004	Barron, Jeff 2003. Food, music highlight festival. The Portsmouth Daily Times, Sept. 14. 2003. Freshwater shrimp from Ohio. Country Living, Nov. 2003. Horton, John 2003. Northeast Ohio's newest farm crop: shrimp. The Plain Dealer, June 23. 2003. Ohio Small Businesses find new markets for growth. Ohio Business, Issue 1. Caplin, Robert 2003. Prawn Brokers. The Columbus Dispatch, Sept. 30. Williams, Kendra 2003. Scioto shrimpers to showcase wares at weekend festival. The Portsmouth Daily Times, Sept. 11. McDowell, Lauren 2003. Shrimp come north. The Post, Sept. 29. Pendleton, Phil 2003. Shrimp farmer harvests success. The State Journal, Sept. 22. Hebert, K. 2003. Shrimp farming practices snapping its pinchers into Northern Ohio. Farm and Dairy Online Edition, July 10. Barron, Jeff 2003. Shrimpfest a weekend success. The Portsmouth Daily Times, Sept. 14. Bowman, Nicole 2003. The Jambalaya Jam ain't no shrimp. The Athens Insider, Sept. 10. McDowell, Lauren 2003. The Prawn Squad. The Columbus Dispatch, Aug. 5.

Total Popular magazine, newsletter and newspaper articles: 12

In process; not published yet

Project Number	Initiation Date	Completion	Publication
E/TER-2	3/1/2002	2/28/2005	Fortner, R.W., Arvai, J., Dudley, J.E. and Froschauer, A 2003. Instructional materials for environmental decision making. Proceedings of the 32nd Annual Conference of the North American Association for Environmental Education. In press. Dudley, Jennifer and Fortner, R.W 2003. The effect of participation in place based environmental education programs on student affect toward science: A case study of F.T. Stone Laboratory's middle school program. Proceedings of the 32nd Annual Conference of the North American Association for Environmental Education. In press.
R/CE-5	3/1/2000	2/28/2003	Cheng, K., C. Kuo, et al. 2003. Linking of water level gauge and shoreline datum with ITRF using GPS buoy and satellite altimetry in the Great Lakes. In preparation. Kuo, C., K. Cheng, et al. 2003. On the computation of tidal datum and its transform to the ITRF using Great Lakes water level gauges and satellite altimetry. In preparation.
R/PS-22	9/1/1996	8/31/1998	Miller P. Chin Y.P. 2003. Photosensitized degradation of alachlor by wetland dissolved organic matter. In preparation for Environ. Sci. Technol.
R/PS-32-PD	3/1/2002	2/28/2003	Boyanapalli, K., R.M.L. McKay and G.S. Bullerjahn. 2003. Genetic profiling of bphA1 sequences as an indicator for PCB degradation in contaminated sediments. Appl. Env. Microbiol., in preparation.

Total In process; not published yet: 6

Table C-5. Publications from Ohio Sea Grant Projects: 2004**Scientific Publications (including published Abstracts)**

Project Number	Initiation Date	Completion	Publication
A/EP-1	9/1/1978		Blaine, T.W., and F. R. Lichtkoppler. 2004. Willingness to pay for green space preservation: A comparison of Soil and Water Conservation District clientele and the general public using the contingent valuation method. <i>Journal of Soil and Water Conservation</i> 59 (5) 203-208.
E/OCF-1-PD	5/1/2000	10/30/2000	Matson, Timothy O., Roberta Muehlheim and James C. Spetz. 2004. Survey of Fishes, Amphibians, and Reptiles of the Conneaut Creek Drainage System, Ashtabula County, Ohio. <i>Kirtlandia</i> 54:132 March 2004. The Cleveland Museum of Natural History. Cleveland, Ohio.
E/TER-2	3/1/2002	2/28/2005	Sara White. 2004. Ballast blockade: Stopping aquatic immigrants. <i>Science Activities</i> 40(1). Fortner, R.W. 2004. Beam Me Up! Videoconferences Extend Stone Lab Learning. <i>Twine Line</i> 26(1): 4. R.W. Fortner [Ed]. 2004. Special issue on marine education. <i>Science Activities</i> 40(1). Arvai, J. L., Campbell, V. E. A., Baird, A., & Rivers, L. 2004. Teaching students to make better decisions about the environment: Lessons from the decision sciences. <i>Journal of Environmental Education</i> , 36, 33-44.
M/P-1	9/1/1978		Kellogg, W.A., K. O'Brien, C. Robey, M.J.S. Tevesz, D. BaracsKay, L. Feix, C. Kasselmann, J.M. Reutter, and G. Wright. 2004. The current coastal resource management training market in Ohio's Lake Erie Basin. <i>Coastal Management</i> 33: 271-291.
R/CE-5	3/1/2000	2/28/2003	Kuo, C., C. Shum, A. Braun, and J. Mitrovica 2004. Vertical crustal motion inferred by satellite altimetry and tide gauge data in Fennoscandia. <i>Geophys. Res. Lett.</i> , Vol. 31, L01608, doi:10.1029/2003GL019106.
R/CE-9-PD	10/1/2002	2/28/2003	Calment, S., K. Cheng, G. Jan, C. Kuo, C. Shum, Y. Yi, V. Ballu and M. Bouin 2004. Comparison of sea surface height derived from satellite altimetry and from ocean bottom pressure gauges. The SW Pacific MOTEVAS Project, <i>Marine Geodesy</i> , 27(3-4), Special Issue on Jason-1 Calibration/Validation Part III, 597-613.
R/ER-49-PD	6/1/1998	2/28/1999	McKay, R.M.L., G.S. Bullerjahn, D. Porta, E.T. Brown, R.M. Sherrell, T.M. Smutka, R.W. Sterner, M.R. Twiss and S.W. Wilhelm. 2004. Consideration of the bioavailability of iron in the North American Great Lakes: Development of novel approaches toward understanding iron biogeochemistry. <i>Aquatic Ecosystem Health and Management</i> . In press; doi: 10.1080/14634980490479697.
R/ER-60	3/1/2002	2/28/2004	Heath, RT and M. Munawar. 2004. Bacterial productivity in Lake Superior, 2001: Implication for food web efficiencies in oligotrophic freshwater ecosystems. <i>Aquatic. Ecosyst. Health and Management</i> 7(4): 465 - 474.

Scientific Publications (including published Abstracts)

Project Number	Initiation Date	Completion	Publication
			M. Munawar and R. T. Heath. 2004. Emerging Issues in Lake Superior Research. <i>Aquatic. Ecosyst. Health and Management</i> 7(4): 433 - 434.
			Heath, R. T. 2004. Microbial Turnover of Organic Phosphorus in Aquatic Systems. Chapter 9 in: Turner, B. L., E. Frossard, and D. S. Baldwin, eds., "Organic Phosphorus in the Environment", CABI Publ., Oxfordshire, UK, pp 185 – 204.
R/LR-4	3/1/1998	8/31/2003	Carol A. Stepien, Clifford D. Taylor, and Donald Einhouse 2004. An analysis of Genetic risk to a native spawning stock of walleye <i>Sander vitreus</i> due to stocking in Cattaraugus Creek. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute. 93-94.
			Stepien, C.A. and E. Roseman. 2004. Percid ecology: Current status and future research needs. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI . 5-6.
R/LR-7	3/1/2004	2/28/2007	Stepien, C.A., C.D. Taylor, and D.W. Einhouse. 2004. An analysis of genetic risk to a native spawning stock of walleye <i>Sander vitreus</i> (<i>Stizostedion vitreum</i>) due to stocking in Cattaraugus Creek. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI. 93-94.
			Ford, A.M. and C.A. Stepien. 2004. Genetic variation and spawning population structure in Lake Erie yellow perch, <i>Perca flavescens</i> : A comparison with a Maine population. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI. 131-2.
			Stepien, C.A. and E. Roseman. 2004. Percid ecology: Current status and future research needs. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI . 5-6.
R/NIS-1	6/1/1995	5/31/1998	Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2004. Risk analysis and genetic identity of the Eurasian source population for the ruffe (<i>Gymnocephalus cernuus</i>) invasion in the Great Lakes. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute. 91-92.
R/NIS-5-PD	9/1/1997	12/31/1997	Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2004. Risk analysis and genetic identity of the Eurasian source population for the ruffe (<i>Gymnocephalus cernuus</i>) invasion in the Great Lakes. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute. 91-92.
R/NIS-109-SG	9/1/1997	8/31/1998	Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2004. Risk analysis and genetic identity of the Eurasian source population for the ruffe (<i>Gymnocephalus cernuus</i>) invasion in the Great Lakes. In Proceedings of

Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute. 91-92.

R/PS-26	3/1/2000	2/28/2003	D. Chen; Z. He; L. K. Weavers; Y. Chin; H. W. Walker; P. G. Hatcher. 2004. Sonochemical Reactions of Dissolved Organic matter. <i>Research on Chemical Intermediates</i> :30 (7/8), 735-
R/PS-34	3/1/2004	2/28/2006	Fox, P. J., Lee, J. and Qiu, T. 2004. Discussion of 'A comparative study of suction-induced seepage consolidation versus centrifuge consolidation'. <i>Geotechnical Testing Journal</i> , 27(4), 416-417.
R/ZM-31-PD	4/1/2002	3/31/2003	Elderkin, C. L., J. A. Stoeckel, D. J. Berg, and P. L. 2004. Heritability of heat tolerance in zebra mussel veligers. <i>Journal of Great Lakes Research</i> 30: 360-366.

Total Scientific Publications (including published Abstracts): 24

Reports, fact sheets

Project Number	Initiation Date	Completion	Publication
E/TER-2	3/1/2002	2/28/2005	Rosanne W. Fortner, Lisa M. Bircher, Sara White, Hongxia Duan, Paul Genzman, Becky Lippman, and Melissa Simons. 2004. Teacher Education at Stone Laboratory: Program description, literature setting, and impact on educators. Technical Report TB-076. Columbus: Ohio Sea Grant College Program. 42 pp.
M/P-1	9/1/1978		Reutter, J.M. 2004. Program summary for 2003. The Ohio State University. The Ohio Sea Grant Program. <i>Twine Line</i> 26(2): 5.
R/CE-5	3/1/2000	2/28/2003	Cheng, K. 2004. GPS buoy campaigns for vertical datum improvement and radar altimeter calibration. Ohio State University Geodetic Science and Surveying Report #470, January. Cheng, K. 2004. Radar altimeter absolute calibration using GPS water level measurements. Ohio State University Geodetic Science and Surveying Report #469, January.
R/ER-66-PD	7/1/2003	6/30/2004	Krieger, K. A. 2004. Mayfly metric of the Lake Erie Quality Index: design of an efficient censusing program, data collection, and development of the metric. Final Rept. to Ohio Lake Erie Commission. 33 p.

Total Reports, fact sheets: 5

Popular magazine, newsletter and newspaper articles

Project Number	Initiation Date	Completion	Publication
R/A-19-PD	5/15/2004	4/30/2005	Dickerson, K. 2004. Farmer happy with first shrimp crop. <i>Zanesville Times Recorder</i> , Sept. The Associated Press. 2004. Ohio shrimp farms can net jumbo results. <i>The Cincinnati Enquirer</i> , Sept. 24. Bussa, R. 2004. Second Annual Shrimp Festival a Success. <i>Portsmouth Community Common</i> , Sept. 14. Shiple, D. 2004. Shrimp farms in Madison County. <i>Madison Press</i> , Oct. 2. Davis, R. 2004. Something's Fishy. <i>Columbus Dispatch</i> , Sept. 8.
R/ER-64-PD	5/1/2002	10/31/2003	King, R. B. 2004. The Lake Erie watersnake: a 23-Year perspective on microevolution, population status, and recovery planning. <i>The Boreal Dip Net</i> , Newsletter of the Canadian Amphibian and Reptile Conservation Network 8(1):6-7.

Total Popular magazine, newsletter and newspaper articles: 6

In process; not published yet

Project Number	Initiation Date	Completion	Publication
A/EP-5	3/1/2002	2/28/2003	D. Kuehn, F. Lichtkoppler and C. Pistis. 2004. The Great Lakes Charter Fishing Industry: 1973 to 2002. Accepted for publication in the March 2005 issue of 'Fisheries', the monthly news magazine of the American Fisheries Society.
R/ER-52-PD	7/1/1999	2/28/2002	Twiss, M.R., S.P. Gouvêa, R.A. Bourbonniere, R.M.L. McKay and S.W. Wilhelm. 2004. Field investigations of trace metal effects on Lake Erie phytoplankton productivity. Journal of Great Lakes Research. In press.
R/MB-2	9/1/2002	8/31/2004	QingWei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby. 2004. Assessment of Antifouling Effectiveness of Two NPAs by Attachment Study with Freshwater Bacteria. Journal of Environmental Science and Pollution Research (ESPR), under review. Carlos A. Barrios, QingWei Xu, Teresa Cutright, Bi-min Zhang Newby. 2004. Incorporating Zosteric Acid into Silicone Coatings to Achieve its Slow Release while Reducing Fresh Water Bacterial Attachment. Journal of Colloids and Surfaces B: Biointerfaces, in press. Abdulahdi A Al-Juhni, Karunakar Reddy Jaggari, Bi-min Zhang Newby 2004. Techniques for Incorporating Capsaicin into Silicone to Enhance Antifouling Performance of Silicone Coatings. Biofouling, accepted with major revision, currently under revision. Qing Wei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby 2004. Toxicity Evaluation of Capsaicin and Zosteric Acid and their Potential Applications as Antifoulants. submitted to Journal of Environmental Monitoring, under review. Bi-min Zhang Newby, Teresa J. Cutright, Carlos A. Barrios, Qingwei Xu. 2004. Zosteric Acid - An Effective Antifoulant for Reducing Fresh Water Bacterial Attachment on Coatings. Journal of Coatings Technology Research, under review.
R/PS-34	3/1/2004	2/28/2006	Lee, J. and Fox, P. J. 2004. Efficiency of seepage consolidation for preparation of clay substrate for centrifuge testing. Geotechnical Testing Journal, in review. Fox, P. J. 2004. Model for coupled large strain consolidation and contaminant transport. Journal of Geotechnical and Geoenvironmental Engineering, accepted for publication. Fox, P. J., Lee, J. and Qiu, T. 2004. Model for large strain consolidation by centrifuge. International Journal of Geomechanics, ASCE, accepted for publication.

Total In process; not published yet: 10

Table C-6. Presentations from Ohio Sea Grant Projects: 2003

Project Number	Initiation Date	Completion	Presentation
A/EP-1	9/1/1978		Lichtkoppler, F. 2003. Closing the Gap: Linking GAP Science to Local Decision Makers. 46th Conference of the International Association for Great Lakes Research, June 22-26. Chicago, Illinois.
A/EP-4	3/1/2002	2/28/2006	<p>Lacy, D. and Lucente, J 2003. Building A Community Leadership Network to Improve Public Sector Decision Making. Community Development Society International Conference. Ithaca, New York, July 21-24.</p> <p>Lucente, J 2003. Improving Public Sector Decision Making Through A Community Leadership Network. First Annual Wisconsin Community Leadership Summit. Wisconsin Rapids, Wisconsin, April 3-4.</p> <p>Lacy, D. and Lucente, J 2003. Measuring the Impact of Leadership Skill Development on Public Officials. Association of Leadership Educator's International Conference. Anchorage, Alaska, July 16-19.</p> <p>Davis, G. and Lucente, J 2003. Using Retrospective Pretest Methodology In Leadership Development For Public Officials. Midwestern Educational Research Association National Conference. Columbus, Ohio, October 16-17.</p>
A/EP-6	7/1/2002	6/30/2003	<p>Snyder, Fred 2003. Aquatic Biology. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Kelch, Dave 2003. Aquatic Nuisance Species. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Kelch, Dave 2003. Contaminants in Fish. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Reutter, Jeff 2003. Current Lake Erie Issues. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Snyder, Fred 2003. Fish Habitat. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Hageman, John 2003. Fish Identification and Anatomy. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Reutter, Jeff 2003. Fisheries Management Tools. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Hageman, John 2003. Lake Erie Science Cruise. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p> <p>Reutter, Jeff and Hageman, John 2003. Plankton Identification. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.</p>

Lichtkoppler, Frank 2003. The 2002 Lake Erie Charter Industry. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.

Lichtkoppler, Frank 2003. The Great Lakes Charter Fishing Industry in 2002. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.

E/NIS-3	10/1/2001	9/30/2003	Ricker, K.T. 2003. Are There Exotic Species in YOUR Neighborhood?. Presented at the Environmental Education Council of Ohio Annual Conference, Maumee Bay Ohio, March 28-30.
			Goettel, R. and Fortner, R.W 2003. Reality Internet: Surviving the Exotic Species Challenge. Presented at the annual conference of the National Marine Educators Association, Wilmington, NC. July 20.
			Ricker, K.T. 2003. Zebra Mussels and More: Teaching about Invasive Exotic Species. Presented at the Science Education Council of Ohio Annual Conference, Dayton, Ohio, February 20-22..
E/TER-2	3/1/2002	2/28/2005	Rosanne W. Fortner, Joe L. Arvai, J.E. 2003. Instructional materials for environmental decision making. NAAEE Annual Conference, October 10.
			Fortner, R.W. 2003. Sediments, seasons and ships: Teaching about the Earth system with Lake Erie examples. Environmental Education Council of Ohio
M/P-1	9/1/1978		Reutter, J.M. and F.L. Snyder. 2003. Aquatic Nuisance Species. Confluence 2003: Statewide Boating Conference. Maumee Bay State Park. Toledo, Ohio. 13 November.
			Reutter, J.M. 2003. Current Issues Facing Lake Erie. Great Lakes Fisheries Leadership Institute. Stone Laboratory. Put-in-Bay, Ohio. 13 September.
			Reutter, J.M. 2003. Current Issues Facing Lake Erie. Scubafest. Columbus, Ohio. 1 March.
			Reutter, J.M. 2003. Fisheries Management Tools. Great Lakes Fisheries Leadership Institute. Stone Laboratory. Put-in-Bay, Ohio. 13 September.
			Reutter, J.M. 2003. Future NAML Activities and Role. Annual Meeting of the National Association of Marine Laboratories. Barruch Laboratory. South Carolina. 17 October.
			Reutter, J.M. 2003. Great Lakes Participation in the Global Ocean Observing System. Millennium Network Conference. University of Windsor. Ontario. 7 May.
			Reutter, J.M. 2003. Invasive Species. Sea Grant Week Presentation. Galveston, Texas. 29 April.
			Reutter, J.M. 2003. Lake Erie and Current Issues Facing the Great Lakes. Lakeside, Ohio Summer Lecture Series. 28 August.
			Reutter, J.M. 2003. Lake Erie and Current Issues Facing the Great Lakes. Lakeside, Ohio Summer Lecture Series. 23 June.

Reutter, J.M. 2003. Lake Erie Issues (Breakout Session). Confluence 2003: Statewide Boating Conference. Maumee Bay State Park. Toledo, Ohio. 13 November.

Reutter, J.M. 2003. Lake Erie Issues (Plenary). Confluence 2003: Statewide Boating Conference. Maumee Bay State Park. Toledo, Ohio. 12 November.

Reutter, J.M. 2003. Lake Erie Needs and Priorities. Special presentation to Government Accounting Office. Ohio State University. 7 November.

Reutter, J.M. 2003. Ohio Sea Grant and Lake Erie. The Review Club. The Columbus Club. Columbus, Ohio. 7 March.

Reutter, J.M. 2003. OSU and Lake Erie. Campus Ministries. Ohio State University. Newman Center. 24 October.

Reutter, J.M. 2003. Recent Changes in the Lake Erie Ecosystem and Opportunities for Study at Stone Laboratory. Otterbein College. Westerville, Ohio. 17 April.

Reutter, J.M. 2003. The Dead Zone in Lake Erie: A Brief History, the Current Status, and Recommendations for the Future. United States Senate Committee on Environment and Public Works. Cleveland, Ohio. 25 August.

Reutter, J.M. 2003. The Great Lakes, Ohio Sea Grant and Stone Laboratory. Project Learning Tree Annual Meeting. Stone Laboratory. Put-in-Bay, Ohio. 30 May.

Reutter, J.M. 2003. The Lake Erie Ecosystem: Current Issues and Opportunities for Study at Stone Laboratory. Wittenberg University Environmental Science Lecture. Wittenberg University. 27 January.

Reutter, J.M. 2003. The Ohio State University's Lake Erie Programs and Lake Erie. Faculty Club Luncheon. Ohio State University. 3 April.

Reutter, J.M. 2003. The Ohio State University's Lake Erie Programs and Lake Erie. Winter Lecture: Stone Lab and Ohio Sea Grant. Fawcett Center, Ohio State University. 4 March.

Reutter, J.M. 2003. Update on GOOS/IOOS. Sea Grant Association. Seattle, Washington. 3 November.

Reutter, J.M. 2003. Update on the Dead Zone, ANS, and Related Ecosystem Changes. Annual Meeting of the Great Lakes Sport Fishing Council. Port Clinton, Ohio. 18 October.

M/P-2	9/1/1980		Ricker, K.T., Krantzberg, G., Manninen, C., and Miles, I. 2003. Biological Invasions: How Media Communications Can Impact Policy and Research Agendas. Presented at the International Association of Great Lakes Research Annual Conference, June 23 - 26, De Paul University, Chicago, IL.
			Ricker, K.T. 2003. Ohio Sea Grant's Web Site Trends. Presented at the Great Lakes Sea Grant Network Regional Conference, June 8-11, Burlington, VT.
R/A-17-PD	5/15/2003	4/30/2004	Wallat, G. 2003. Freshwater Shrimp Production. Highland County. March 26.
			Tiu, L.G. 2003. Freshwater Shrimp Production research overview. Freshwater shrimp and baitfish workshop. New London, OH. September 13.
			Tiu, L.G. 2003. Freshwater Shrimp Session. World Aquaculture Society Aquaculture America. Louisville, KY. February 19-21.
			Tiu, L.G. 2003. Freshwater Shrimp Production. Farm Science Review. London, OH. September 17.
			Leighfield, C. 2003. Freshwater Shrimp Production in Ohio. Country Living Field Day. Carrolton, OH. September 27.
			Schiering, J. 2003. Freshwater Shrimp Production Overview. Aquaculture Field Day, June 21.
			Leighfield, C. 2003. Freshwater Shrimp talk. Cloverbud Camp, Lucasville, OH. June 19.
			Tiu, L.G. 2003. OSU South Centers Shrimp School. Piketon, OH. March 15.
R/CE-5	3/1/2000	2/28/2003	Bouin, M., V. Ballu, S. Calmant, K. Cheng, C. Shum, and L. Testut. 2003. Absolute height of sea surface vs trajectory of GPS antennae over submerged pressure gauges. Trans. AGU, 84(46), Fall Meet. Suppl., Abstract OS42A-0832.
			Yi, Y., A. Braun, C. Shum, K. Cheng and S. Calment 2003. Envisat RA2 cal/val results. Envisat RA-2/MWR CCVT Sixth Plenary Meeting, ESA/ESRIN, Frascati, Italy, March 25-27.
			Yi, Y., K. Cheng, C. Shum, A. Braun, and S. Calmant 2003. ENVISAT RA-2 calibration/validation. Proc. EGS-AGU-EUG Joint Assembly, Nice, France, April 6-11.
			Braun, A., C. Shum, L. Potts, C. Kuo, and A. Trupin. 2003. Glacial isostatic adjustment in the Great Lake region. EGS-AGU-EUG Joint Assembly, Nice, France, April 6-11.
			Calmant, S., K. Cheng, and C. Shum. 2003. Sea level series and GPS surveys along the ground tracks of satellite altimeters overflying the tide gauges of the MOTEVAS project. EGS-AGU-EUG Joint Assembly, Nice, France, April 6-11.

Shum, C., C. Kuo, and A. Braun. 2003. Vertical crustal motion inferred by satellite altimetry and tide gauge. PARCA Meeting, Byrd Polar Research Center, Ohio State Univ., January 14-15.

Braun, A., C. Shum, L. Potts, C. Kuo, and A. Trupin 2003. Vertical motion and GIA in the Great Lakes region. Sapporo, Japan, June 30-July 11.

Shum, C., C. Kuo, A. Braun, and A. Trupin 2003. Vertical motion inferred by satellite altimetry and tide gauges. PARCA Meeting, Byrd Polar Research Center, Ohio State Univ.,

R/CE-9-PD	10/1/2002	2/28/2003	Yi, Y., K. Cheng, C. Shum, A. Braun, S. Calmant and D. Chamber. 2003. Calibration results of Jason-1 altimeter in Lake Erie and S. Pacific. T/P-Jason SWT Meeting, Arles, France, 18-21 November.
			Yi, Y., K. Cheng, C. Shum, A. Braun, S. Calmant and D. Chamber. 2003. Calibration results of Jason-1 Poseidon-2 altimeter in Lake Erie and S. Pacific. T/P-Jason SWT Meeting, Arles, France, 18-21 November.
			Yi, Y., K. Cheng, C. Shum, A. Braun, and S. Calmant. 2003. ENVISAT RA-2 calibration/validation. EGS-AGU-EUG Joint Assembly, Nice, France, April 6-11.
			Yi, Y., A. Braun, C. Shum, K. Cheng and S. Calment. 2003. Envisat RA2 cal/val results. Envisat RA-2/MWR CCVT Sixth Plenary Meeting, ESA/ES RIN, Frascati, Italy, March 25-27.
R/EM-21-PD	8/1/2000	7/31/2001	Matisoff, G. and Neeson, T. 2003. Quantifying Sediment-Oxygen Demand in Lake Erie. 46th Conf. on Great Lakes Res., Intern. Assoc. Great Lakes Res., Chicago, IL.
R/EM-23	3/1/2003	2/28/2005	Smith, C., Martin, J.F. 2003. Development of a General Ecological Model for the Sandusky Watershed. May 29. American Ecological Engineering Society Annual Meeting. College Park, Maryland. Poster presentation.
R/EM-25-PD	5/1/2001	12/30/2001	Krupa, K. 2003. Larval fish assemblages of Metzger Marsh, pre- and post-restoration. Presented to "Current coastal Lake Erie marsh management: adding fish to the equation." Wetlands Workshop II, Ohio Chpt. of the American Fisheries Society, OSU-Museum of Biological Diversity, Columbus, OH.
R/ER-55	3/1/2000	2/28/2003	Kim, G. W., T. Kwon, M.R. Gearhiser, E.A. Marschall, S.W. Fisher, and R.A. Stein 2003. PCB Biomagnification in the zebra mussel - round goby - smallmouth bass food chain in Lake Erie. 133rd Annual Meeting of the American Fisheries Society, Québec City, Québec, Canada, 10-14 August.
R/ER-60	3/1/2002	2/28/2004	Heath, R. T. and T. Trzebuckowski. 2003. Labile dissolved organic carbon (LDOC): Its distribution and abundance in Lake Erie during summer 2003. Millennium Review Conference. Windsor, ONT. Invited Address.
			Heath, R. T. and M. Munawar. 2003. Microbial activity at the base of the food web in Lake Erie. Int. Assoc. Great Lakes. Res. Chicago, IL. June.
			Heath, R. 2003. Regulation of Microbial Activity at the Base of the Lake Erie food web. Millennium Conference 2003. Univ. Windsor., Windsor, ONT. 5 May.

			Heath, R. T. 2003. Role of bacterioplankton in use and recycling of dissolved organic phosphorus compounds. Lucerne, Switzerland. July. Invited Address.
R/ER-61-PD	6/1/2002	5/31/2003	Southward, L.R., E.A. Marschall, and R.A. Stein 2003. Trophic transfer of mercury and lead to top predators: Quantifying the role of non-native species in Lake Erie. Presented at annual meetings of the International Association of Great Lakes Research, Chicago, Illinois and American Fisheries Society, Quebec, Canada.
R/ER-64-PD	5/1/2002	10/31/2003	King, Richard and J. Ray 2003. Long-term changes in body size and condition in the Lake Erie water snake (<i>Nerodia sipedon insularum</i>). Midwest Ecology and Evolution Conference. King, Richard and J. Ray 2003. Long-term changes in body size and condition in the Lake Erie water snake (<i>Nerodia sipedon insularum</i>). Annual Meeting of the Illinois State King, Richard and J. Ray 2003. Long-term changes in body size and condition in the Possible positive effects of the exotic round goby on the threatened Lake Erie water snake. Annual meeting of the Society for Conservation Biology. King, Richard and J. Ray 2003. Long-term changes in body size and condition in the Possible positive effects of the exotic round goby on the threatened Lake Erie water snake. Canadian Amphibian and Reptile Conservation Network Annual Meeting. King, Richard 2003. The Lake Erie watersnake: a 23-Year perspective on microevolution, population status, and recovery planning. Canadian Amphibian and Reptile Conservation Network 2003 Annual Meeting. King, Richard 2003. Water snakes welcome: efforts to protect the Lake Erie water snake. Ohio Department of Natural Resources Division of Wildlife, Wildlife Diversity Conference.
R/ES-5	9/1/1992	8/31/1994	Heath, R. T. and M. Munawar. 2003. Regulation of microbial productivity at the base of the food web in Lake Erie. Lake Erie at the Millennium Conference 2003. Univ. Windsor, Windsor, ONT. May.
R/LR-4	3/1/1998	8/31/2003	Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse. 2003. Analysis of genetic hybridization risk posed by fish. American Fisheries Society Annual Meeting. August 14. Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse. 2003. Analysis of genetic hybridization risk posed by fish. Percis III Conference, Madison, Wisconsin. July 24. Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse. 2003. Analysis of genetic hybridization risk posed by fish stocking to a historic walleye spawning group. American Fisheries Society Western Division Meeting, San Diego, Calif. Invited oral research presentation in symposium on 'Interactions of hatchery and wild fishes'. April 17.

Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse 2003. Analysis of genetic hybridization risk posed by fish stocking to a historic walleye spawning group. Poster presentation at 43rd Annual Ohio Fish and Wildlife conference, Columbus OH on February 7.

Stepien, C.A. 2003. DNA analyses of walleye population genetic structure in Lake Erie. Oral research presentation to Lake Erie Walleye Task Force annual meeting. Feb. 12.

R/LR-5	3/1/2001	2/28/2004	W. Calvin Borden and Carol A. Stepien. 2003. Discerning genetic structure of smallmouth bass populations in Lake Erie using mtDNA sequence and microsatellite data. Poster presentation at Ohio Division of Wildlife Annual Meeting, February 7.
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W. Calvin Borden and Carol A. Stepien. 2003. Discerning genetic structure of smallmouth bass populations in Lake Erie using mtDNA sequence and microsatellite data. Poster presentation at American Fisheries Society Annual Meeting, Quebec, Canada. August 11-14.

W. Calvin Borden and Carol A. Stepien. 2003. Population structure of smallmouth bass (*Micropterus dolomieu*) in Lake Erie using mtDNA sequences and microsatellite data. Poster presentation at Cleveland State University's Department of Biological, Geological and Environmental Sciences and Cleveland Clinic Foundation Graduate Research Poster Show. September 26.

W. Calvin Borden and Carol A. Stepien. 2003. Population structure of smallmouth bass (*Micropterus dolomieu*) in Lake Erie using mtDNA sequences and microsatellite data. Poster presentation at Woodlake Environmental Field Station Conference, Cuyahoga Valley National Park, October 25.

W. Calvin Borden and Carol A. Stepien. 2003. Population structure of smallmouth bass (*Micropterus dolomieu*) in Lake Erie using mtDNA sequences and microsatellite data. Invited Symposium Presentation at the American Fisheries Society Annual Meeting, Quebec, Canada. August 11.

R/LR-6-PD	12/1/2001	8/31/2003	Getz, R., Farver, J.R. and Miner, J.G. 2003. Lake Erie white bass: can otolith chemical signatures differentiate stocks. 43rd Ohio Fish and Wildlife conference, February 7.
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R/MB-2	9/1/2002	8/31/2004	K. R. Jaggari, B. Zhang Newby. 2003. Immobilizing Capsaicin on Silicone To Access the Coatings Antifouling Performance. Adhesion Society meeting, February, Myrtle Beach, NC.
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R/PS-26	3/1/2000	2/28/2003	Z. He, L. K. Weavers, S. J. Traina, and P. G. Hatcher 2003. Mechanism of sonochemical desorption of mercury from synthetic sediments. 226th ACS National Meeting. New York City, NY, September 7-11.
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Ziqi He, Linda K. Weavers, Samuel J. Traina, and Patrick G. Hatcher. 2003. Sonochemical Desorption of Mercury from Sediments. Ohio Section American Water Works Association Annual Conference. Cincinnati, Ohio, September 22-26.

			Ziqi He, Douglas Schaffer, Linda K. Weavers, Samuel J. Traina, Patrick G. 2003. Sonochemical Desorption of Metals from Synthetic Sediments. Environmental Science Graduate Program (ESGP) Seminar. Columbus, OH, October 10.
			Z. He, L. K. Weavers, S. J. Traina, and P. G. Hatcher 2003. Ultrasound desorption of mercury from synthetic sediments. Environmental Molecular Science Institute Second Annual Workshop. Columbus, OH, June 9-10.
R/PS-28	3/1/2002	2/28/2004	Porter, J.A. and R.H. Findlay. 2003. Analysis of Microbial Community Structure and Biomass across a Polychlorinated Biphenyl Gradient in the Western Basin of Lake Erie. 103rd General Meeting of the American Society for Microbiology, Washington D.C. (Poster)
			Porter, J.A., J.C. Judkins and R.H. Findlay. 2003. Response of Sedimentary and Planktonic Microbial Communities to a Natural Pollutant Gradient in the Western Basin of Lake Erie. Annual Meeting of the Society for Environmental Toxicology and Chemistry. Austin, TX. (Oral Presentation)
R/PS-30	3/1/2003	2/28/2005	L. K. Weavers 2003. Sonochemical Desorption and Degradation of Pollutants from River Sediments. Environmental Science Graduate Program, The Ohio State University, Columbus, OH, October 10.
R/ZM-31-PD	4/1/2002	3/31/2003	Berg, D. J., C. L. Elderkin, J. A. Stoeckel, and P. L. Klerks 2003. A laboratory experiment to test heritability of thermal tolerance in zebra mussel veligers. Poster presented at the annual meeting of the North American Benthological Society, Athens, GA.

Total Number of Presentations: 101

Table C-7. Presentations from Ohio Sea Grant Projects: 2004

Project Number	Initiation Date	Completion	Presentation
A/EP-1	9/1/1978		<p>F. Snyder 2004. Aquatic Invasive Species Impacts Upon the Lake Erie Sport Fishery. Presented at the 13th International Conference on Aquatic Invasive Species. 20-24 September 2004, Ennis, Ireland.</p> <p>Kelch, D.O., F. R. Lichtkoppler and B.L. Sohngen. 2004. Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003. Presented by Lichtkoppler at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.</p> <p>Kelch, D.O., F. R. Lichtkoppler and B.L. Sohngen. 2004. Socio-Economic Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003. Presented at the symposium, 'Socio-Economics and Extension: Empowering People in Fisheries Conservation' at the American Fisheries Society (AFS) 134th Annual Meeting, August 22-26, 2004 in Madison, WI.</p> <p>F. Snyder. 2004. Strengthening Ohio's Charter Fishing Industry Through Extension Education. Presented at the symposium, 'Socio-Economics and Extension: Empowering People in Fisheries Conservation' at the American Fisheries Society (AFS) 134th Annual Meeting, August 22-26, 2004 in Madison, WI.</p> <p>F. Lichtkoppler. 2004. The 2002 Great Lakes Charter Captains Survey. Presented at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.</p>
A/EP-4	3/1/2002	2/28/2006	<p>J. Lucente 2004. A Retrospective Evaluation of the Impact of Leadership Training on Participants. Poster session presented at the International Community Development Society Conference in Cleveland, Ohio May 18-21.</p> <p>J. Lucente. 2004. Establishing A Community Leadership Network To Improve Public Sector Decision Making. Presented at the National Southern Community Development Association Conference in Tampa, Florida May 18-20.</p> <p>J. Lucente. 2004. Evaluating Leadership Development For Public Officials Using Retrospective Pretest Methodology. Presented at the International Association of Leadership Educators Conference in Memphis, Tennessee July 15-17.</p> <p>J. Lucente. 2004. Leadership Development For Local Government Officials and Utilizing A Retrospective Pre-Post Test Methodology. Presented at the National Southern Community Development Association Conference in Tampa, Florida May 18-20.</p>

A/EP-5	3/1/2002	2/28/2003	D. Kelch, F. Lichtkoppler and B. Sohngen. 2004. Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003. submitted to the International Association of Great Lakes Research 2004 Conference Abstract Committee Dec. 2003.
			F. Lichtkoppler, D. Kuehn and C. Pistis. 2004. The 2002 Great Lakes Charter Captains Survey. submitted to the International Association of Great Lakes Research 2004 Conference Abstract Committee Dec. 2003.
E/TER-2	3/1/2002	2/28/2005	Fortner, Malinowski and Goettel, Robin. 2004. Classroom technology for learning and decision making about invasive species. [poster] Presented at the 13th International Conference on Aquatic Invasive Species, Ennis, Ireland.
			Rosanne Fortner, Robin Goettel and Jennifer Malinowski. 2004. Educators respond to invasive species: Interactive web-based activities for learning and decision making. Presented at the 13th International Conference on Aquatic Invasive Species, Ennis, Ireland.
			Lyndsey Manzo. 2004. Evaluating the use of a structured decision-making framework as a method of teaching about environmental issues. Presented at the first annual SNR Graduate Seminar. May.
			Fortner, Goettel, Malinowski and Hyonyong Lee. 2004. Interactive web-based education about watershed invaders. [poster] Presented at the Annual conference of the North American Association for Environmental Education, Biloxi, MS. October.
			Rosanne Fortner, Joe Arvai and Jennifer Malinowski. 2004. Sea Grant Educators Using the Internet: Interactive web-based activities for learning and decision making. Great Lakes Sea Grant Network meeting, September.
M/P-1	9/1/1978		Reutter, J.M. 2004. Aquatic Invasive Speices, the Dead Zone, Lake Erie Issues, and How You Can Help. Aqua Amigos Dive Club. Euclid, Ohio. 26 May.
			Reutter, J.M. 2004. GLOS: Where Do We Go from Here. IJC and GLERL Workshop. Ann Arbor, Michigan. 30 November to 3 December.
			Reutter, J.M. 2004. Improving Links Between Science and Coastal Management: Results of a Survey to Assess Science and Technology Needs. Coastal States Organization. Washington, DC. 9 March.
			Reutter, J.M. 2004. IOOS: Sea Grant's Role. National Sea Grant Extension Assembly. Jekyll Island, Georgia. 25-28 April.
			Reutter, J.M. 2004. Ohio State University's Impact on Lake Erie. Ohio State University Research Foundation. Columbus, Ohio. 15 April.
			Reutter, J.M. 2004. Ohio State University's Impact on Lake Erie. Cleveland OSU Alumni Club. Cleveland Playhouse Club. 17 February.
			Reutter, J.M. 2004. Sea Grant and the Great Lakes. Great Lakes Watershed Coordinators. Sawmill Creek Resort. Huron, Ohio. 7 December.

Reutter, J.M. 2004. Stone Laboratory, Ohio Sea Grant, and Aquatic Invasive Species. Toledo Power Squadron. 6 April.

Reutter, J.M. 2004. The Changing Lake Erie Ecosystem. Natural Resources Class. Columbus, Ohio. 26 May.

Reutter, J.M. 2004. The Changing Lake Erie Ecosystem. OSU Retired Faculty. Faculty Club. Columbus, Ohio. 26 May.

Reutter, J.M. 2004. The Changing Lake Erie Ecosystem. Department of Biology. Wittenberg University. Springfield, Ohio. 16 February.

Reutter, J.M. 2004. The USCOP and the Great Lakes. Briefing for Ohio Congressional Delegation. 2358 Rayburn House Office Building. Washington, DC. 18 May.

Reutter, J.M. 2004. The USCOP and the Great Lakes. Briefing for Great Lakes Congressional Delegation. 2358 Rayburn House Office Building. Washington, DC. 18 May.

Reutter, J.M. 2004. The USCOP and the Great Lakes. Great Lakes Commission. Cleveland, Ohio. 4 May.

Reutter, J.M. 2004. Understanding the Changing Lake Erie Ecosystem: Should We Be Concerned?. Cleveland Museum of Natural History. Conservation Symposium Series. Keynote Speaker. 10 September.

Reutter, J.M. 2004. What is an Ecosystem and Why is it Important: A Socio Economic Perspective. National Marine Sanctuaries Program. Capitol Hill Oceans Week. Washington, DC. 9 June.

R/A-19-PD 5/15/2004 4/30/2005

Tiu, L. 2004. Freshwater Shrimp Production in Ohio. Farm Science Review. London, Ohio. September 22.

Tiu, L. 2004. Freshwater Shrimp Production. Introduction to Aquaculture Workshop. New Philadelphia, Ohio. January 24.

Tiu, L. 2004. Production and Economics of Freshwater Shrimp: Overview of Ohio's newest crop, the freshwater shrimp. Spring Conference of the Society of Farm Managers and Rural Appraisers. Bellevue, Ohio. June 15.

R/CE-5 3/1/2000 2/28/2003

Cheng, K., V. Ballu, M. Bouin, S. Calmant and C. Shum. 2004. Absolute local sea surface in the Unuatu Archipelago from GPS, satellite altimetry and pressure gauge data. Fall AGU Meeting, San Francisco, December 13-17.

Braun, A., B. Csatho, C. Kuo and Y. Yi. 2004. Icesat validation in the Great Lakes using tide gauge and radar altimetry data. EGU04-A06110, Geophys. Res. Abs. Vol. 6, 06110, 1st General Assembly EGU Symposium, Nice, France, April 25-30.

Yi, Y., K. Cheng, C. Shum, A. Braun and S. Calmant. 2004. Lake Level Monitoring and Altimeter Calibration in the Great Lakes. 2004 Envisat & ERS Symposium, Salzburg - Austria, September 6-9.

Bouin, M., V. Ballu, S Calmant, K. Cheng, C. Shum, L. Testut, A. Braun and G. Jan. 2004. Local sea surface in the Vanuatu Archipelago from GPS, satellite altimetry and pressure gauge data. EGU04-A-06894, Geophys. Res. Abs. Vol. 6, 06894, 1st General Assembly EGU Symposium, Nice, France, April 25-30.

Shum, C. 2004. Principle of satellite altimetry: Applications to sea level studies. Invited lecture, IOC/GLOSS Training Workshop on Sea Level Data Analysis, Kuala Lumpur, Malaysia, February 8-21.

Kuo, C., S. Han, C. Shum and A. Braun. 2004. Southern ocean sea level variations. 2004 Envisat & ERS Symposium, Salzburg - Austria, September 6-9.

R/CE-9-PD	10/1/2002	2/28/2003	Shum, C. 2004. GPS-Buoy for altimeter calibrations satellite altimetry for tide modeling. Invited lecture, IOC/GLOSS Training Workshop on Sea Level Data Analysis, Kuala Lumpur, Malaysia, February 8-21.
R/ER-55	3/1/2000	2/28/2003	Kim, G. W., T. Kwon, M.R. Gearhiser, E.A. Marschall, S.W. Fisher, and R.A. Stein. 2004. PCB Biomagnification in the zebra mussel - round goby - smallmouth bass food chain in Lake Erie. 44th Ohio Fish and Wildlife Conference, Columbus, Ohio, 6 February.
R/ER-60	3/1/2002	2/28/2004	Heath, R. T. 2004. An Ecosystem Management Success Story: Lake Erie was Dead and now is alive and well. Invited Keynote Address for the Korean Assoc. of Biological Societies. Seoul, Rep. of Korea (South Korea) August
			Robert T. Heath and Dennis Hansen. 2004. Dissolved organic phosphorus (DOP) compounds as a source of phosphorus and carbon to freshwater plankton communities, East Twin Lake, Portage Count. Ohio Academy of Science.
			Heath, R. T. and M. Munawar. 2004. Does the microbial food web play an important role in the functioning of ultra-oligotrophic Himalayan aquatic. International Conference on The Great Himalayas: Climate, Health, Ecology, Management and Conservation, January 12-15. Invited Address.
			Tracey Trzebuckowski Meilander and Robert T. 2004. Phosphate Uptake in Lake Erie Bacterioplankton. Ohio Academy of Science.
			Heath, R. T. 2004. Phosphorus dynamics in freshwater lakes: findings from the Laurentian Great Lakes. SERA-17 Conference. Invited Lecture. Charleston, SC. July.
			Heath, R. T. and M. Munawar. 2004. Significance of the microbial food web to Carbon and Phosphorus dynamics in Lake Huron. Finland. August.
			Heath, R. T. 2004. The Dual Nature of Dissolved Organic Compounds. Am. Soc. Limnol. Oceanogr. Savannah, GA. June.
R/ER-66-PD	7/1/2003	6/30/2004	Krieger, K.A. 2004. Canadian soldiers (burrowing mayflies) and the Lake Erie Quality Index: connecting biology to policy. Evening Seminar Series, Biology Department, Heidelberg College, Tiffin, OH. 9 December.
			Krieger, K. A. 2004. The misfortunes and successes of mayflies: What they tell us about the health of Lake Erie. Second Annual Conservation Symposium, Cleveland Museum of Natural History, Cleveland, Ohio.

			Krieger, K.A. 2004. The misfortunes and successes of mayflies: what they tell us about the health of Lake Erie. Conservation Symposium Series: Lake Erie ecology, conservation & restoration. Cleveland Museum of Natural History, Cleveland, OH. 10 September.
R/ER-68-PD	11/1/2003	12/31/2004	Schrecengost, M.A., and L.R. Williams. 2004. A comparison of the macroinvertebrate assemblages in first and second order streams in the Cuyahoga Valley National Park. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.
R/LR-5	3/1/2001	2/28/2004	C.A. Stepien and W.C. Borden. 2004. Population genetic structure of smallmouth bass in the Great Lakes. Poster presentation designed and presented by Carol Stepien at the annual meeting of the Society for the Study of Evolution July 2004 held at Colorado State University, Ft. Collins, CO. C.A. Stepien and W.C. Borden. 2004. Population structure of smallmouth bass in Lake Erie. Oral research presentation at 44th Ohio Fish and Wildlife Conference, Columbus, Ohio, February 6. (given by C. Stepien)
R/LR-9-PD			Amanda Haponski, Thomas Marth, and Carol A. Stepien. 2004. A Genetic and Morphological Analysis of two Subspecies of the Greenside Darter <i>Etheostoma blennioides blennioides</i> and <i>Etheostoma blennioides pholidotum</i> . Oral research presentation given by student Amanda Haponski at the Cleveland State University Research Experiences for Undergraduates Symposium in August. Jerriell T. Hall, Thomas Marth, and Carol A. Stepien. 2004. Genetic Analysis of Rainbow Darters from Three Northeast Ohio Rivers Using the Combined Mitochondrial DNA Control Region and Cytochrome b Gene. Oral research presentation given by student Jerriell Hall at the Cleveland State University Research Experiences for Undergraduates Symposium in August. Marth, Thomas A. and Carol A. Stepien. 2004. Genetic Comparison of Logperch and Greenside Darters Upstream and Downstream of the Munroe Falls Dam in the Cuyahoga River. Poster presentation at the Society for the Study of Evolution annual meeting held at Colorado State University, June. Thomas Marth and Carol A. Stepien. 2004. Genetic Comparison of Logperch and Greenside Darters Upstream and Downstream of the Munroe Falls Dam in the Cuyahoga River. Oral research presentation given by high school teacher Thomas Marth at the Cleveland State University President's Initiative Symposium in August. Krebs, R. A. 2004. The Impact of Exotic Mussels on Unionids in the Lake Erie Watershed: What are the risks to indigenous mussels?. Environmental Risk and Nonindigenous Species Invasions in the Great Lakes Region: Risk Analysis, Management and Communication, Urban College, Cleveland State University, Oct. 15.
R/MB-2	9/1/2002	8/31/2004	Carlos A. Barrios, Qingwei Xu, Teresa Cutright, Bi-min Zhang Newby 2004. Evaluation of Antifouling Properties of Zosteriac Acid. Adhesion Society Meeting, Wilmington, NC, February.

Abdulhadi A Al-Juhni, Bi-min Zhang Newby. 2004. Techniques for Incorporating Capsaicin into Silicone to Enhance Antifouling Performance of Silicone Coatings. Adhesion Society Meeting, Wilmington, NC, February.

Carlos A. Barrios, Qingwei Xu, Teresa Cutright, Bi-min Zhang Newby. 2004. Zosteric Acid: An Effective Antifoulant For Reducing Bacterial Attachment on Coatings. Abstracts of Papers of the American Chemical Society, 228:322-Poly, Part 2, Philadelphia, PA, August.

R/PS-26

3/1/2000

2/28/2003

D. Chen; Z. He; L. K. Weavers; Y. Chin; H. W. Walker; P. G. Hatcher. 2004. Sonochemical Reactions of Dissolved Organic matter. 228th ACS National Meeting. Philadelphia, PA, August 22-26.

Z. He, L. K. Weavers, J. M. Bigham, S. J. Traina. 2004. Sonolytic desorption of mercury from synthetic Al₂O₃. 228th ACS National Meeting. Philadelphia, PA, August 22-26.

Z. He, L. K. Weavers, S. J. Traina, and P. G. Hatcher. 2004. Sonolytic desorption of mercury from synthetic Al₂O₃ sediments. Environmental Molecular Science Institute Third Annual Workshop. Columbus, OH, June 14-15

Total Number of Presentations: 67

Appendix D

Communications

- *Publication Series and Distribution*
- *Web Site*
- *Twine Line Newsletter*
- *Media Relations and Coverage*
- *Collaboration and Special Projects*
- *Displays*

The overall goal of the Ohio Sea Grant Communications Program is to provide current, accurate, research-based information to Ohio's citizens and others interested in Lake Erie and Great Lakes issues. The communications team markets all elements of the Ohio Sea Grant College Program, including Stone Laboratory and the Great Lakes Aquatic Ecosystem Research Consortium. Projects include:

- Developing, promoting, evaluating, and enhancing the communications efforts of Ohio Sea Grant and our researchers, educators, and extension specialists through such products as newsletters, fact sheets, displays, conferences, and web site.
- Interacting and working together with communications efforts of the National Sea Grant College Program, the national and regional Sea Grant networks, other networks such as the Great Lakes Information Network, and various environmental and research areas at The Ohio State University.

The following sections highlight accomplishments in selected areas for January 2003 through December 2004.

- Publication Series and Distribution
- Web Site
- Twine Line Newsletter
- Media Relations and Coverage
- Collaboration and Special Projects
- Displays
- Special Events
- Marketing and Promotions
- Media Relations

Publication Series

The Ohio Sea Grant College Program maintains a publication series that is divided into 11 different categories. Each category serves different purposes and audiences, including the scientific community, the media, educators, resource users, all levels of government, associations, industries, Sea Grant, and the general public. Publication policies are established by the Director, Communications Manager, and the Extension Program Coordinators.

Most general-public publications (books, brochures, education materials, fact sheets, guides, and public relations materials) are written and designed “in-house” by Ohio Sea Grant staff members or affiliated researchers. Ohio Sea Grant publications are recognized for their quality and have been honored in award competitions. In 2003 the program newsletter, *Twine Line*, received its second national APEX Award of Excellence. In addition to this honor, Communications received a “Blue Ribbon Award” in the “partnership” category at the National Sea Grant Week Conference for its Guides to Lake Erie’s Historic Shipwrecks. In 2004 Communications won two additional national APEX awards: *Twine Line*’s eight-part research review series highlighting current Sea Grant research won in the “Featured Series Writing” category and Stone Laboratory’s promotional campaign, which included the Stone Lab brochure, flier, bus poster series, and display posters, won in the “Education & Training Campaigns & Programs” category.

Before adding items to a series, each is analyzed in regards to the potential audience, and the best method of disseminating the information in a cost-effective manner; the document is also peer-reviewed as part of the publication process. A brief description of each series is listed below:

- Book Series (BS) are usually produced in cooperation with another agency or publisher.
- Brochures (B) describe programs and projects, list publications, or general information about a specific topic.
- CLEAR Technical Reports (CTR) are reports produced by the Center for Lake Erie Area Research on Lake Erie. Reports are primarily “historic.” This category is no longer active.
- Education Publications (EP) include curriculum materials and related items about Lake Erie and the Great Lakes. Materials are developed primarily by the Ohio Sea Grant Education Program and the Education Coordinator.
- Fact Sheets (FS) are one to four pages of information usually written for the general public.
- Guide Series (GS) include publications for the general public that focus on Lake Erie natural features and attractions.
- Public Relations (PR) include the media coverage reports and other items produced by staff or others about the program.
- Reprints (RS) are articles published in professional journals written as a result of Sea Grant sponsored projects.
- Technical Bulletins (TB) are based on Sea Grant research findings and written for technical and scientific audiences.
- Technical Summaries (TS) are based on Sea Grant research findings and are written for non-technical audiences.
- Theses and Dissertations (TD) are written by Sea Grant-supported graduate students. Copies are made only for the National Sea Grant Library.

**Table D-1. Publications Produced by Ohio Sea Grant:
2003-2004****Publications Produced by Ohio Sea Grant 2003-2004¹**

	BS	B	EP	FS	GS	N	PR	RS	TB	TS	TD	Total/Year
2003	1	8	-	3	2	6	1	1	1	-	-	23
2004	1	6	2	4	1	5	2	6	7	9	6	49
Total	2	14	2	7	3	11	3	7	8	9	6	72

¹Key: BS=books B=Brochures; EP=Educational Publications FS=Fact Sheets; GS=Guide Series; N=Newsletter; PR=Public Relation Materials; RS=Reprint Series; TB=Technical Bulletins; TS=Technical Series; TD=Theses/Dissertations.

Publications List (titles are listed in order by number)

Books	BS-012	Bibliography and archival guide to the writings of Edwin Lincoln
	BS-013	Linking Ohio geology and botany: Papers by Jane L. Forsyth
Brochures	B-056b	Ohio Sea Grant Publications Brochure 2004
	B-062	Franz Theodore Stone Laboratory brochure 2004
	B-062-A	Franz Theodore Stone Laboratory flier summer 2004
	B-062-B	Franz Theodore Stone Laboratory courses 2004
	B-062-C	Franz Theodore Stone Laboratory workshops 2004
	B-062-C	Franz Theodore Stone Laboratory workshops 2004
	B-062-D	Franz Theodore Stone Laboratory handbook 2004
	B-062-E	Franz Theodore Stone Laboratory bus posters 2004
	B-062-F	Franz Theodore Stone Laboratory poster 2004
	B-062-G	Franz Theodore Stone Laboratory jobs 2004
	B-063	Lake Erie Programs at The Ohio State University 2004: Ohio Sea Grant
	B-064	Franz Theodore Stone Laboratory brochure 2005
	B-065	Ohio Clean Boater
	B-066	Ohio Clean Marinas
Education Publications	EP-091A	Fish Educational Poster
	EP-091B	Circle of Life Educational Poster
Fact Sheets	FS-010a	Finding maps and charts
	FS-012a	Marine-related careers: Options and resources Wetlands and fisheries
Guides	GS-020	Guides to Lake Erie's historic shipwrecks: The Adventure , W. R. Hanna, and F. H. Prince
	GS-019d	2003 Western Lake Erie guide to public waterfront access, charter fishing, marinas, boating excursions, festivals and events
	GS-019e	2004 Western Lake Erie guide to public waterfront access, charter fishing, marinas, boating excursions, festivals and events

Newsletter		Twine Line, the educational newsletter of Ohio Sea Grant, covering issues, events, and research related to Lake Erie and the Great Lakes. Published bi-monthly: Jan/Feb; Mar/Apr; May/June; July/Aug; Sept/Oct; and Nov/Dec. (Note: For the time period reported here, 11 issues were produced. Newsletter became quarterly publication in July 2004).
Public Relations	PR-010 PR-011 PR-012	Lake Erie Programs at The Ohio State University: Media coverage 2002 Lake Erie Programs at The Ohio State University: Media coverage 2003 Lake Erie Programs at The Ohio State University: Media coverage 2004
Reprint Series	RS-276 RS-277 RS-278 RS-279 RS-280 RS-281 RS-282	Molecular mechanisms of proline-mediated tolerance to toxic heavy metals in transgenic microalgae Effectiveness of a coastal wetland in reducing pollution of a Laurentian Great Lake: Hydrology, sediment, and nutrients Invasion genetics of Ponto-Caspian gobies in the Great Lakes Heritability of heat tolerances in zebra mussel veligers Morphometric factors in the formation of Great Lakes coastal wetlands The current coastal resources management training market on Ohio's Lake Erie basin Morphometric factors in the formation of Great Lakes coastal wetlands
Technical Bulletins	TB-069 TB-070 TB-071	Friends of Stone Laboratory Annual Report 2002-2003 Friends of Stone Laboratory Annual Report 2003-2004 Ohio Clean Marinas Program Guidebook
Technical Summaries	TS-032 TS-033 TS-034 TS-035 TS-036 TS-037 TS-038 TS-039 TS-041	Illinois-Indiana's Great Lakes charter fishing industry in 2002 Michigan's Great Lakes charter fishing industry in 2002 Minnesota's Great Lakes charter fishing industry in 2002 New York's Great Lakes charter fishing industry in 2002 Ohio's Great Lakes charter fishing industry in 2002 Pennsylvania's Great Lakes charter fishing industry in 2002 Wisconsin's Great Lakes charter fishing industry in 2002 The Great Lakes charter fishing industry in 2002 Phase One Development of a Comprehensive GIS for the Mentor Marsh and its Proximal Watershed
Theses and Dissertations	TD-090 TD-091 TD-092 TD-093 TD-094 TD-095	Impact of clipping PHRAGMITES AUSTRALIS and flooding at two different depths on wetland vegetation structures in a Lake Erie wetland Vegetation and plant diversity of a fresh water marsh on the coast of Lake Erie under high and low water conditions The Implications of group-size choice and post-settlement movement on the behavior and populations of the damselfish DASCYLLUS ALBISELLA Assessing spatial and temporal vegetative dynamics at Mentor Marsh, 1796 to 2000 A.D. The effect of participation in place-based environmental education programs on student affect toward science: A case study of F.T. Stone Laboratory's middle school program Larval fish exchange between Lake Erie and a coastal Marsh

Publication Distribution

Ohio Sea Grant publications are distributed according to the guidelines provided by the National Sea Grant College Program. In addition, publications for a general audience are distributed through Ohio State University Extension and selected businesses and organizations such as the Lake Erie Marine Trades Association and the Lake Erie Nature and Science Center, and special events such as the Ohio Sea Grant & Stone Laboratory Winter Program and summer Open House. Materials are also distributed through the Eisenhower National Clearinghouse; the Educational Resource Instruction Center (ERIC) Clearinghouse for Science, Mathematics, and Environmental Education; Stone Laboratory classes; teacher workshops; university courses in the region; and by request (web site, telephone, or through the publications brochure order form).

Publication announcements are sent via e-mail to GLIN Announce (maintained by the Great Lakes Information Network), Com-Net (the Communicators Network within the Great Lakes Region), the Sea Grant Communicators Network, and our own e-mail distribution list that contains addresses for scientists, researchers, educators, agency personnel, and media.

Table 2 shows the publication distribution for 2003–2004. See Table 3 for a list of the different groups that requested materials for this time frame, and a list of unique special events and collaborating agencies that requested “bulk” quantities of Ohio Sea Grant publications. Table 4 lists unique special events and collaborating agencies that requested “bulk” quantities of Ohio Sea Grant publications.

Appendix D

Table D-2. Materials Distributed: 2003-2004

		2003	2004
Materials Distributed	Fact Sheets ¹	11,032	14,445
	Technical Publications ²	831	138
	Education Publications	4854	4799
	Guides	818	936
	Brochures	1,564	1,742
	Books	-	-
	ID Cards (Eurasian Ruffe, Round Goby)	18,505	4023
	Stone Laboratory Materials		
	Fliers	25,300	31,579
	Brochure	6486	6,909
	Posters	1046	1430
	Total	70,436	66,001

¹Most of our fact sheets are now available on our web site for patrons to download.

²Includes journal reprints, technical bulletins, and technical summaries.

Table D-3. Audiences Requesting Materials:
2003-2004

		2003 Requests	2004 Requests
Audiences	General public	241	148
	Environmental organization/zoo/park/museum	24	6
	K-12 student	12	3
	K-12 Educator	23	12
	University teacher	36	12
	Government	21	2
	Researcher	10	5
	University student	9	9
	Industry	6	4
	Stone Laboratory Materials	High school students	137
	K-12 teachers	171	131
	College students	214	226
	College teachers	18	10
	Others	27	22
	Total	853	729

Most of our fact sheets are now available on our web site for patrons to download.

Appendix D

Table D-4. Special Events/Collaborating Agencies that Requested/Distributed Ohio Sea Grant Publications

2003

Cedar Point In-Water Boat Show
Clean Marinas Program
Cleveland Boat Show
Cleveland Sport Show
Coast Guard Auxiliary Spring Conference
COSI Educator Appreciation Night
Eisenhower National Clearinghouse
Environmental Education Council of Ohio
Great Lakes Historical Society
Hillsdale Educational Publishers
IL IN Sea Grant
Indiana Dunes National Lakeshore
JASON PROJECT Toledo, OH
Kelleys Island Audubon Club
Kirtland, Ohio Lake Metro Parks
Lake Erie Island Historical Society
Miller Boat Line Gift Shop
Northwind Books
Ohio Department of Natural Resources Fisheries
Ohio Department of Natural Resources Muskingham Park Service
Ohio Lake Erie Commission
Ohio Sea Grant and Stone Laboratory Winter Lecture
Ohio Sea Grant Charter Captains Conference
OSU Extension Advanced Pond Management
OSU Lake County Extension Office
OSU Lunch and Learn Program 44
OSU Physical Facilities
OSU Young Scholars Program
Old Woman Creek National Estuary
Pennsylvania Sea Grant
Perry's Victory and International Peace Memorial
River Road Publications Spring Lake, MI
Sacramento, CA Department of Water Resources
Seaway Trail
SECO Conference (Science Education Council of Ohio)
Sharon Woods Metro Parks Project WET
Sharon Woods Metro Parks Schrock Lake Spectacular
State Representative Redfern's Legislative Day on Lake Erie
Stone Laboratory Great Lakes Education Workshop
Stone Laboratory Open House
University of Toledo

2004

Aquatic Amigos Scuba Club, Cleveland Ohio
Bob Woods Harrison Marina, Toledo Ohio
Cedar Point In-Water Boat Show
Cleveland Boat Show
Cleveland Museum of Natural History
Cleveland Sport Show
Coastal Marine II, Port Clinton Ohio
Cuyahoga County Board of Health
Docks and Marinas Conference, Madison Wisconsin
Earth Science Teacher Workshop
Eisenhower National Clearing House
EPA, Twinsburg Ohio
Farm Science Review, London Ohio
Fort Meigs, Perrysburg Ohio
Great Lakes Historical Society, Vermilion Ohio
Great Lakes Sea Grant Network Conference
Great Lakes Student Summit, Buffalo, New York
Holiday Harbor Marina, Huron Ohio
Huron Lugons, Huron Ohio
Lake Erie Nature and Science Center, Lorain Ohio
Lake Erie Islands Historical society, Put-in-Bay Ohio
Louis Agassiz School, Cleveland Ohio
Make a Splash Project Wet Festival at Sharon Woods Metro Parks, Westerville Ohio
Midway Marina, Port Clinton, Ohio
National Wildlife Federation, Great Lakes Reporters Tour
National Teacher Training Institute for math Science and Technology, Cleveland Ohio
ODNR Division of Watercraft, Cleveland Ohio
ODNR Division of Watercraft, Columbus Ohio
Ohio EPA Earth Day Event
Ohio Lake Erie Commission, Toledo Ohio
Ohio Sea Grant Charter Captains Conference
Ohio Sea Grant Congressional Legislature Day on Lake Erie
Ohio Sea Grant Clean Marinas/Boaters Programs
Ohio Sea Grant Stone Lab Winter Lecture
OSU Academic Success Series
OSU Community Extension Children's Day
OSU OSURF Presentation
OSU Young Scholars Program
OSU Zoology Course
Ottawa County Visitors Bureau, Port Clinton Ohio
Perry's Victory and International Peace Memorial, Put-in-Bay Ohio
Project Wet Leadership Workshop, Baltimore Ohio
Rocky River Watershed Festival
SCUBA Fest
SECO Conference, Columbus Ohio
Soil and Water Conservation District, Athens Ohio
Steelhead Extension Seminar, Lorain Ohio
Stone Lab Open House
Sustainable Great Lakes Conference, Buffalo New York
Toledo Yacht Club
Walnut Springs Middle School Fishing Club, Westerville Ohio
W.L. Baumler Sport Show

Web Site

Ohio Sea Grant Communications designs and oversees the program web site: www.sg.ohio-state.edu. The Communications Webmaster is the hands-on staff member that develops the design for all aspects of the web site: Ohio Sea Grant, Stone Laboratory, GLAERC, and CLEAR. The Communications Manager and the Webmaster, in conjunction with the Director and Extension Program Coordinators, create the content for the web pages and oversee the site. The program web site is organized under the heading "Lake Erie Programs" which includes Ohio Sea Grant, Stone Laboratory, the Great Lakes Aquatic Ecosystem Research Consortium (GLAERC), and the Center for Lake Erie Area Research (CLEAR). Over the past few years, the web site has grown immensely and now contains over 1000 pages of information including fact sheets, *Twine Line* issues, research projects, education and curriculum information, plus Stone Lab course and workshop information, and course syllabi.

Many of our fact sheets, technical summaries, and newsletters are also available as PDF documents. Web users have the option of accessing and printing materials on line instead of ordering them from our office. With the increased popularity of the internet in general, and our web site in particular, many patrons are now accessing fact sheets from our web site.

A 13-topic subject directory cross-references all program areas to enable users to find materials by the following topics:

Aquaculture	Global Change/Environmental Studies
Aquatic Nuisance Species	Natural History
Aquatic Ecology/Fisheries	Pollution
Biotechnology	Tourism
Coastal/Ocean Engineering	Wetlands
Economic Development	Zebra Mussels
Fishing	

In 2002, initial steps were taken to make the web site more accessible to people with disabilities (Section 508 accessible). A new discussion board was developed for the web site, the Lake Erie Information Discussion Board. The goal of the Board is to offer plain-talk answers to science inquiries and provide a forum for discussing Lake Erie-related concerns. The Board is monitored by Ohio Sea Grant Extension Specialists and Agents to ensure a prompt response to questions. When necessary, Sea Grant researchers and partners at colleges, universities, and agencies throughout Ohio and the nation are contacted for the most up-to-date answers. Since its inception, the Discussion Board has addressed questions about the Lake Erie "dead zone," walleye fishing, perch and zebra mussels, sea lampreys in Lake Erie, lake temperature, threats to Lake Erie, and many other topics. The Board has consistently been one of the most visited pages on the Sea Grant web site and accessible at www.sg.ohio-state.edu/discus.

The web site was overhauled to make it Section 508 compliant in 2003. New features included a new calendar of events; new imagery for each program; and a "related links index" based on topics. By consolidating web site pages and offering site indexes, the revised site provides users with easier navigation and accessibility and allows Communications to easily update the site.

Unlike the old site where "related links" were the same for each page, the new index allowed links to be categorized into topic areas to help the user find specific information quicker. The publications catalog could now be broken down into publication types. This permitted a user to find a list of all fact sheets, for example, without having to navigate through all publications in all four programs.

The Sea Grant web site also provided users the opportunity to be informed of new *Twine Line* issues via an email notification. Because of rising printing costs, this is the yet another step to provide more readers access to the latest newsletter and ultimately decrease the reliance of hard copy distribution.

For easier navigation and a newer look, Communications overhauled the Stone Lab web site in late 2004, incorporating the new, youthful graphic elements of the current Stone Lab Promotional Campaign. Besides easier navigation, new features include database-driven news and event calendar, a program photo gallery, electronic fundraising capability (with OSU e-giving services), and quicker downloads. Potential Stone Lab students can download applications quicker and icons better direct students to syllabi, course calendars, and text and supply requirements. As a result of the cleaner, more navigable site, web site activity on the Stone Lab site in fall 2004 has tripled compared to fall 2003 statistics.

Web Site Statistics

Since 1999, Communications has been using WebTrends, a commercial program that performs web site analysis. Web Site use was tracked and analyzed for 1999-2004. During this timeframe, there were a total of 258,165 hits to our entire site in 1999; 571,756 hits in 2000; 988,631 in 2001; 1,623,916 hits in 2002 and 1,526,882 hits in 2003; and 1,173,646 hits in 2004. Staff members' usage is excluded from the statistics; hits by the Google and Inktomi search engines are also excluded because of the way their indexing system configurations over-inflate site statistics. Table 5 shows information related to the number of hits and visitors to the site during this period.

Appendix D

Table D-5. Number of Hits and Visitors to the Ohio Sea Grant Web Site: 2003-2004

Hits and Users	2003	*2004
Number of Successful Hits for Entire Site	1,526,882	1,173,646
Average Number of Hits Per Day	4,209	3,215
Number of Unique Users	87,164	62,984

**Note: Updated WebTrends software in early 2004 instituted better site filters, which caused 2004 hits to decrease.*

During this timeframe, the most frequently visited pages within our site (besides our homepage to the main pages for each program area: Sea Grant, Stone Lab, GLAERC, CLEAR) included various fact sheets, information on zebra mussels and other aquatic nuisance species, the Stone Laboratory course schedule, and other materials. Table 6 shows the most frequently requested pages and materials for this timeframe.

Appendix D

Table D-6. Most Frequently Requested Pages and Materials: 2003-2004

Fact Sheets

Round Gobies invade North America (FS-065)
 Farm Pond Management Tips (FS-061)
 Fish Smoked at Home (FS-032)
 Zebra Mussels in North America: The Invasion and its Implications (FS-045)
 Find Maps and Charts (FS-010)
 Lake Erie Water Quality: Past, Present and Future (FS-046)
 Boaters: Take Action Against Zebra Mussels (FS-054)
 Ruffe: A Serious Threat to North American Fisheries (FS-064)
 Getting to Know your Catch: Lake Erie Salmonid Identification (FS-031)
 The Spiny Water Flea, *Bythotrephes cederstroemi*: Another Unwelcome Newcomer to the Great Lakes (FS-049)
 Zebra Mussel Migration to Inland Lakes and Reservoirs: A Guide for Lake Managers (FS-058)

Subject Directory

Aquatic Nuisance Species subject directory
 Zebra Mussel subject directory

Other Pages

Lake Erie Information Discussion Board	Stone Laboratory Summer Courses	Publications Section
Current Events	Research Project Reporting	Clean Marinas Guidebook

From 2003—2004, the site was visited most frequently by people in North America, Europe, Asia, and Australia. Table 7 shows the top 10 locations of visitors to the web site by country per year.

Appendix D

Table D-7. Top 10 Locations of Web Site Visitors by Country: 2003-2004

Country	2003	2004
	United States	United States
	Canada	Canada
	Netherlands	Germany
	United Kingdom	Netherlands
	Australia	United Kingdom
	Germany	Australia
	Singapore	Italy
	France	France
	Poland	Poland
	Japan	Japan

In the upcoming year, Communications plans to monitor the web site analysis and use the results to better market specific sections of the web site to the public and specialized audiences, such as researchers and K-12 teachers.

Twine Line Newsletter

Twine Line, a bimonthly eight-page newsletter geared toward the public, agencies, media, and elected officials, provides coverage about Lake Erie and Great Lakes issues and research. The year 2004 marked *Twine Line's* 25th year. Approximately 6,000 newsletters are distributed per issue through paid and free subscriptions, and at special events and conferences. For special events, such as boat and sport shows, additional copies are printed for distribution. Subscribers include the general public, elected officials, libraries, Sea Grant and Extension personnel, outdoor writers, teachers (K-12 and university), and reporters at newspapers, magazines, television and radio stations. Over the course of a year, approximately 75 percent of the articles are written by the Communications Manager. Articles are also written by other staff members including the Director, Extension staff, and Friends of Stone Lab members (25 percent).

Twine Line History

Twine Line was initially created in January 1979 as an outreach tool for Ohio Sea Grant Extension to disseminate Great Lakes fishing information to Ohio commercial fishermen and fish processors. Over the last 25 years, the newsletter has grown to cover all issues, events, and research related to Lake Erie and the Great Lakes.

From February 1993 to June 2004, Sea Grant partnered with the Ohio Lake Erie Commission, an agency representing the six Ohio state agencies with jurisdiction over Lake Erie. As part of the agreement, *Twine Line* included the Commission's four-page North Coast Newsletter in each issue. By bringing two groups with similar interests together to a broader readership, this partnership became a very successful one with joint outreach projects and national communications awards. Unfortunately, because of budget constraints, the Lake Erie Commission discontinued its partnership with Sea Grant in June 2004 to no longer offer North Coast News in a hardcopy form. To compensate for the financial loss, Communications made *Twine Line* a quarterly publication (decreasing postage costs) but expanded it to a 12-page newsletter to give readers the same amount of information (36 pages) annually. Communications contacted all unique North Coast News readers and offered them the option to subscribe to *Twine Line* (hardcopy or electronically) so Communications would not lose readership after the partnership with the Commission was discontinued.

In addition to the North Coast Newsletter insert, Sea Grant partnered with the Friends of Stone Lab (a volunteer group that supports Stone Laboratory) to incorporate its two-page newsletter into *Twine Line* in 1998. As part of Ohio Sea Grant's education program and a shared research facility for Ohio Sea Grant researchers and members of GLAERC, Communications and the Friends felt it was logical to include information about Stone Laboratory within the pages of *Twine Line*.

Newsletter Improvements and Awards

Beginning with the July/August 1998 issue, the "look" of *Twine Line* was updated by switching to a two-color publication printed on a plain white, dull-gloss paper. The change was initiated to enhance the clarity of photographs, graphics, and text that appears in each issue and to allow the newsletter to stand out visually from other publications. These changes were incorporated without incurring a large increase in printing costs by switching to a more competitive printer. In addition, a new feature was added called "Research Review." This full-page feature focuses on current Ohio Sea Grant funded research projects, discusses the unique nature of the research, and, most importantly, fosters the communication of research results to the public.

Initiated by North Coast News' departure, *Twine Line's* design was overhauled again in late 2004. The newsletter was expanded to twelve pages and made a quarterly newsletter in order to decrease postage costs.

On the basis of the *Twine Line's* improvements, the newsletter received its first of three national APEX Award of Excellence awards in 2001. As part of the 13th Annual Awards for Publication Excellence sponsored by Communications Concepts, *Twine Line* competed with 743 other newsletters to be one of the 54 winners in the category of "Newsletters - Printed."

In 2003, *Twine Line* received its second national APEX Award of Excellence in the "Feature Writing" category for the Entering the Zone article in the Sept/Oct 2002 issue. In April 2003, *Twine Line's* article Walleye Anglers Keep Pace with Changing Lake Erie was awarded second place in the "Best Magazine How-To Article" category at the 2003 Outdoor Writers of Ohio Convention. In 2004, Communications' eight-part research review series won an APEX award in writing and the Stone Lab campaign won an APEX award for marketing campaigns.

Media Relations and Coverage

Reporters frequently request information on Lake Erie issues from Ohio Sea Grant. Communications staff members have provided background information, interviews, and contact information to other resources. Reporters receive *Twine Line*, news releases, and information from the Extension staff.

News Releases

Communications distributes releases to the media through an e-mail distribution list, the Great Lakes Information Network (GLIN), and The Ohio State University's Communications Office. The releases are also available on-line through our web site. In 2003, 22 releases were distributed with five being recognized in the National Sea Grant's tip sheets and two as "In the Spotlight" features on OAR's web site. Of the 17 news releases in 2004, two were recognized in the National Sea Grant's tip sheets.

2003

Summer 2003 Lake Erie Water Levels to be Lower than Last Year (1/27/03)
Lake Erie Sport Fishing with Some Science Winter Program (2/4/03)
Lake Erie Steelhead Angling Seminar (2/10/03)
Publications from Ohio Sea Grant (2/11/03)
Ohio Sea Grant's Call for Research PreProposals (3/11/03)
Ohio Sea Grant Program Receives Awards (5/8/03)
Stone Laboratory Guest Lectures Summer 2003 (5/9/03)
Summer Workshops at Stone Laboratory (5/13/03)
Unique Opportunity: Plan Your Next Meeting or Retreat at Stone Laboratory (5/13/03)
Stone Laboratory Classes Still Available for Summer 2003 (5/13/03)
Stone Laboratory to Offer Photography Workshop by Ian Adams (6/19/03)
Dead Zone Display at Lake Erie Nature and Science Center (7/18/03)
Nitrates and Sunlight Keys to Pesticide Degradation in Lake Erie's Coastal Wetlands (8/12/03)
Sound Waves Could Remove Contaminants Locked in Lake Erie Sediment (8/31/03)
Friends of Stone Lab Sponsors Buckeye Island Hop October 4-5 (9/01/03)
Return of Lake Erie's Dead Zone (9/05/03)
Research Finds Beach Visitors Willing to Pay \$29 Million for No Beach Advisories (9/19/03)
Former Stone Lab Instructor Receives Ohioana Book Award (9/22/03)
Weavers Receives AAUW Recognition Award for Emerging Scholars (9/30/03)
Research Uses Mussel DNA To Differentiate Species and Trace Their Origin (10/22/03)
Research Uses Engineered Algae As Means to Vaccinate Fish (12/06/03)
Research Finds Reopening Coastal Wetlands To Lake Erie Largely Increases Fish Diversity (12/15/03)

2004

Research Finds Steelhead Fishing Beneficial to Anglers and Economy (1/05/04)
Register for 2004 Stone Laboratory Summer Courses (2/5/04)
Friends of Stone Lab Sponsors Winter Program and Silent Auction (2/10/04)
Stone Laboratory Classes Still Available for Summer 2004 (5/04/04)
Stone Laboratory Offers Photography Workshop (5/18/04)
Stone Laboratory Guest Lecture Series (6/2/04)
Ohio Sea Grant Program Receives Awards (7/08/04)
Biggest Legislature/Congressional Day for Ohio Sea Grant (7/20/04)
Eco-History Island Passport at Put-in-Bay (8/06/04)
New Field Trip/Workshops at Stone Lab for Teachers (8/11/04)
Annual Open House at Gibraltar Island (8/15/04)
Friends of Stone Lab Sponsors Buckeye Island Hop September 25-26 (9/01/03)
Ohio Clean Marinas Program Kick-Off At North American In-Water Boat Show (9/10/04)
Ohio Clean Marinas and Boater Programs Success in Pledge Signing (9/17/04)
Teacher fellowships at Stone Lab Available for Summer 05 or 06 (11/3/04)
Virtual Aquatic Workshops from Stone Lab (11/3/04)
Friends of Stone Lab Call for Auction Donations (12/10/04)

Media Coverage

Twine Line is one of Ohio Sea Grant Communications' primary tools for disseminating information to the media. Smaller papers frequently reprint articles, while reporters at larger papers tend to use the newsletter as a tip sheet. Some newspapers have reprinted as many as four articles from *Twine Line* in a single one of their issues. Since implementing the "Research Review" column, reporters find it easier to locate current information about Ohio Sea Grant research projects.

The tracking of articles that originally appeared in *Twine Line* and other articles about Ohio Sea Grant programs is done as much as possible by staff reviewing newspapers and through use of Lexus-Nexus and other on-line search engines and databases. With the availability of on-line search engines, Communications has found it more efficient to conduct searches in-house by one of the Communications staff members, instead of using a clipping service. Articles have appeared in prominent Ohio newspapers such as the Columbus Dispatch, Toledo Blade, The Plain Dealer (Cleveland), and the Akron Beacon Journal. Articles have also appeared in national publications such as the Washington Post, Nature, Chicago Tribune, and the Christian Science Monitor. In addition, Ohio Sea Grant programs and projects have been featured on Ohio Public Radio, National Public Radio, Earthwatch Radio (nationally syndicated programs), NOAA's "Featured Research" web page, and on local television newscasts. The Communications staff was able to track over 227 articles printed in 69 publications in 2003 and 178 articles in 68 publications in 2004.

In 2004, the Communications Manager partnered with Ohio Department of Development's Division of Travel & Tourism to publicize the Stone Laboratory Science Workshop Program as a tourism destination. The Division's Tour Marketing Specialist and Writer visited Stone Lab during a fieldtrip, where they shot promotional footage of the fieldtrip. Consequently, Stone Lab's Workshop and Summer College Programs were featured in the Division's convention packet for a national student/youth travel conference. Over 300 travel representatives received the packet.

Table D-9. Ohio Sea Grant and Stone Laboratory in the Media: 2003**January**

- 01.01.2003. "Ohio" GREAT LAKES SCUTTLEBUTT.
01.02.2003. "Steelhead angler survey." MANSFIELD NEWS JOURNAL.
01.13.2003. "Will Lake Erie Succumb to E-Botulism?" WCPN PUBLIC RADIO CLEVELAND.
01.16.2003. "Public Service 101." TOLEDO CITY PAPER.
01.16.2003. "Tom Weible Open Line Show." WOSU AM PUBLIC RADIO COLUMBUS.
01.17.2003. "Wilbert L. Baumler." LORAIN MORNING JOURNAL.
01.18.2003. "ODNR re-establishes turkey." PORT CLINTON NEWS HERALD.
01.25.2003. "Jay E. Swaidner." LORAIN MORNING JOURNAL.
01.26.2003. "Tiffin science teacher was wrestling coach." TOLEDO BLADE.
01.27.2003. "Wilbert L. Baumler." LORAIN MORNING JOURNAL.
01.28.2003. "Lake Erie may start out summer nine inches below last year." SANDUSKY REGISTER.
01.30.2003. "Ice Fishing is solid near Lake Erie Islands." OTTAWA COUNTY MIRROR.
01.30.2003. "Falling lake level raises concerns." CLEVELAND PLAIN DEALER.

February

- 02.01.2003. "Ohio's steelhead anglers surveyed." OHIO GAME & FISH.
02.02.2003. "Lake Erie: expect lots of walleye, perch, bass." TOLEDO BLADE.
02.02.2003. "Lake Erie levels." COLUMBUS DISPATCH.
02.03.2003. "Corps forecasts lower lake levels." MAUMEE BAY PRESS.
02.04.2003. "Low Lake Erie levels may cause hazards." AKRON BEACON JOURNAL.
02.07.2003. "OEDC elects Firstengry representative new chairman." PR NEWSWIRE.
02.13.2003. "Erie Levels expected to drop." DAYTON DAILY NEWS.
02.14.2003. "Fishing experts offer tips." CLEVELAND PLAIN DEALER.
02.16.2003. "Steelhead seminar." COLUMBUS DISPATCH.
02.18.2003. "DATEBOOK." TOLEDO BLADE.
02.20.2003. "Lake Erie Impact." OSU ONCAMPUS.
02.20.2003. "Fairfield Union." LANCASTER EAGLE GAZETTE.
02.23.2003. "Outdoors seminars slated." COLUMBUS DISPATCH.
02.23.2003. "Bulletin Board." PITTSBURG POST-GAZETTE(PA).
02.25.2003. "Stone Lab Director to talk on impact on Lake Erie." OSU TODAY EMAIL NEWS.

March

- 03.01.2003. "5th FOSL & Sea Grant winter lecture and silent auction." PUT-IN-BAY GAZETTE.
03.01.2003. "Summer 2003 Lake Erie water levels to be lower than last year." FISHWRAPPER.
03.01.2003. "Enrollment at Stone Lab increases." FISHWRAPPER.
03.01.2003. "President signs Sea Grant reauthorization act." FISHWRAPPER.
03.02.2003. "Ohio Sea Grant steelhead seminar." LORAIN MORNING JOURNAL.
03.02.2003. "Steelhead trout burgeoning." CLEVELAND PLAIN DEALER.
03.02.2003. "Ohio Sea Grant steelhead seminar." PITTSBURGH POST GAZETTE.
03.03.2003. "Enact stormwater program carefully." PORT CLINTON NEWS-HERALD.
03.04.2003. "DATEBOOK." TOLEDO BLADE.
03.06.2003. "DATEBOOK." TOLEDO BLADE.
03.09.2003. "Smart ways to hook Lake Erie walleye." COLUMBUS DISPATCH.
03.09.2003. One of the greatest shows in town. LORAIN MORNING JOURNAL.
03.11.2003. "After years of frustration, anglers reel in good season." PORT CLINTON NEWS-HERALD.

03.13.2003. "Harmful algal blooms and hypoxia." CONGRESSIONAL TESTIMONY.
03.15.2003. "2003 Fishing season looks good." PORT CLINTON NEWS HERALD.
03.17.2003. "Walleye catches slow in 2002." PORT CLINTON NEWS HERALD.
03.20.2003. "Rainbow connection moves east." BUFFALO NEWS.
03.24.2003. "Waterfront guide available." MAUMEE BAY PRESS.
03.24.2003. "Lake shipwrecks topic of lecture at Hayes Center." FREMONT NEWS MESSENGER.
03.24.2003. "Lake Erie shipwrecks topic of lecture." FREMONT NEWS MESSENGER.
03.27.2003. "Ag. News: Spring means choosing year's 4-H Project." DAYTON DAILY NEWS.
03.28.2003. "Hayes Center Lecture." PORT CLINTON NEWS HERALD.
03.30.2003. "Invaders cloud fishing's future." COLUMBUS DISPATCH.

April

04.01.2003. "Staff notes, Sea Grant." OSU EXTENSION LAKE COUNTY.
04.01.2003. "Sea Grant Great Lakes charter fishing." OSU EXTENSION LAKE COUNTY.
04.01.2003. "Steelhead angler survey project." MENTOR MONITOR.
04.01.2003. "Fishing experts conduct seminars at Cleveland show." MID-AMERICA BOATING.
04.01.2003. "Angler's Angles: Rocks hold early season walleyes." MID-AMERICA BOATING.
04.01.2003. "Ballast blockade stopping aquatic immigrants." HELDREF PUBLICATIONS.
04.08.2003. "Endangered, but unloved." DAYTON DAILY
04.29.2003. "Problem of invasive species." CONGRESSIONAL TESTIMONY.
04.30.2003. "Toxic algae threatens Great Lakes." TOLEDO BLADE.
Spring 2003. "Little moneymakers." OHIO ENTREPRENEUR MAGAZINE.
Spring 2003. "In the Lab...Sea Grant Projects." OH COASTAL MNGT PROGRAM NEWSLETTER.
Spring 2003. "Niche marketing." AGRINATURALIST, OSU FOOD AG & ENVIRO SCI.

May

05.01.2003. "Langlois' Photographs." LAKE ERIE ISLANDS HISTORICAL SOCIETY NEWS.
05.01.2003. "Unveiling at Hall kicks off celebration Ohio Bicentennial." PUT-IN-BAY GAZETTE.
05.01.2003. "Toxic algae rebound in Lake Erie." WINDSOR STAR (ONTARIO CANADA).
05.06.2003. "News – science." COLUMBUS DISPATCH.
05.06.2003. "Researchers warn of toxic algae." COLUMBUS DISPATCH.
05.10.2003. "State keeping close eye on walleye, perch." PORT CLINTON NEWS-HERALD.
05.17.2003. "Fred Snyder radio interview." WBNS 97.1 COLUMBUS OHIO.
05.21.2003. "Stone Lab courses are free." OSU TODAY EMAIL NEWS.
05.22.2003. "Sea Grant program receives awards." OSU ONCAMPUS.
05.22.2003. "Stone Lab offers summer courses, meeting space." OSU ONCAMPUS.
05.26.2003. "Classes available." MAUMEE BAY PRESS.
05.30.2003. "Gangbuster bass action found from ponds to lakes." TOLEDO BLADE.
May/June 2003. "Yes folks, shrimp can be grown in Ohio." HATCHERY INTERNATIONAL.

June

06.01.2003. "Lake Erie water levels dropping." OHIO GAME & FISH.
06.01.2003. "Go now for Lake Erie's June Smallmouths." OHIO GAME & FISH.
06.01.2003. "Ask the Snake Lady." PUT-IN-BAY GAZETTE.
06.01.2003. "Stone Laboratory classes still available for 2003." PUT-IN-BAY GAZETTE.
06.01.2003. "Langlois photo book signing at museum." PUT-IN-BAY GAZETTE.
06.01.2003. "Guest lectures open to public at OSU's Island." PUT-IN-BAY GAZETTE.
06.01.2003. "Plan your next meeting or retreat at Stone Laboratory." PUT-IN-BAY GAZETTE.
06.01.2003. "Summer workshops at Stone Laboratory." PUT-IN-BAY GAZETTE.
06.01.2003. "Lake Erie water snake research update." LEWS NEWS ODNR USFWS.
06.01.2003. "Ask the snake lady." LEWS NEWS ODNR USFWS.
06.01.2003. "Attention Lake Erie Island shoreline property owners." LEWS NEWS ODNR USFWS.

06.01.2003. "Center for Lake Erie area research helps tackle problems." FISHWRAPPER.
06.05.2003. "City Hall." OTTAWA COUNTY BEACON.
06.08.2003. "Pheasants and corn." OMAHA WORLD HERALD.
06.11.2003. "Project tries to keep endangered species alive." ASSOCIATED PRESS.
06.11.2003. "Snakes alive! And keeping them that way." CLEVELAND PLAIN DEALER.
06.12.2003. "Stone Laboratory hosts guest lectures series." OSU ONCAMPUS.
06.19.2003. "\$1M to save endangered snakes on Erie islands." PORT CLINTON NEWS-HERALD.
06.19.2003. "Ohio aquaculture." DAYTON DAILY, GREENE COUNTY EDITION.
06.20.2003. "Lake Erie 'dead zone' study gets new life." PORT CLINTON NEWS-HERALD.
06.20.2003. "Voinovich puts life into Erie study." WILLOUGHBY NEWS HERALD.
06.21.2003. "Photography training at PIB." PORT CLINTON NEWS HERALD.
06.23.2003. "Stone Lab lectures broadcast live on campus." OSU TODAY EMAIL NEWS.
06.23.2003. "U.S. pledges \$956K to save Lake Erie snake." TOLEDO BLADE.
06.23.2003. "Researchers finding out if shrimp can thrive." ASSOCIATED PRESS.
06.23.2003. "Northeast Ohio's newest farm crop: shrimp." CLEVELAND PLAIN DEALER.
06.26.2003. "Lake Erie as an economic engine." CLEVELAND PLAIN DEALER.
06.26.2003. "Stone Lab to broadcast summer lecture series." OSU ONCAMPUS.
06.28.2003. "Mayflies blow into town, but they won't stay long." CLEVELAND PLAIN DEALER.
06.30.2003. "Ohio Sea Grant Extension honored." PORT CLINTON HERALD.

July

07.01.2003. "Water snake signs available." PUT-IN-BAY GAZETTE.
07.01.2003. "Fred Snyder honored." PUT-IN-BAY GAZETTE.
07.01.2003. "Lectures open to public at OSU's Gibraltar Island." PUT-IN-BAY GAZETTE.
07.01.2003. "Fishing regulations proposed to protect Lake Erie." GL SPORT FISHING COUNCIL.
07.01.2003. "News rules proposed to protect walleye, bass." PORT CLINTON NEWS-HERALD.
07.10.2003. "Official angle should be intruder elimination." ALBANY TIMES UNION.
07.10.2003. "Sea Camp filled with fish, fun." DAYTON DAILY NEWS.
07.17.2003. "Photo workshop offered." DAYTON DAILY NEWS.
07.18.2003. "Bait shops get caught." ASSOCIATED PRESS.
07.19.2003. "Catch this: Walleye, blue pike the same fish." CLEVELAND PLAIN DEALER.
07.20.2003. "Many anglers hooked on crayfish." COLUMBUS DISPATCH.
07.20.2003. "Small shops caught by fishing economics." SPRINGFIELD NEWS-SUN.
07.21.2003. "Over the Garden Gate." OSU EXTENSION MASTER GARDENER NEWSLETTER.
07.21.2003. "SL Open House." OSU EXTENSION MASTER GARDENER NEWSLETTER.
07.21.2003. "Blue pike may have been different color walleye." ACTION NEWS CLEVELAND.
07.22.2003. "Nature photography workshop." TOLEDO BLADE.
07.22.2003. "Zins takes 5th – national pistol title, that is." TOLEDO BLADE.
07.22.2003. "Datebook." TOLEDO BLADE.
07.22.2003. "Underwater cleanup at Put-in-Bay." PORT CLINTON NEWS HERALD.
07.26.2003. "Public won't mind paying tax on rain." PORT CLINTON NEWS-HERALD.
07.28.2003. "Walleye, sauger names swim into extinction." CLEVELAND PLAIN DEALER.

August

08.01.2003. "Attend Stone Lab's Annual Open House." GL SPORT FISHING COUNCIL.
08.01.2003. "GLFSC Annual meeting." GL SPORT FISHING COUNCIL.
08.01.2003. "Coastweeks set to begin Aug. 23" FISHWRAPPER.
08.01.2003. "DNA questions blue pike legend." FISHWRAPPER.
08.01.2003. "Special late summer events on tap." FISHWRAPPER.
08.01.2003. "Underwater cleanup schedule for Sept. 15." PUT-N-BAY GAZETTE.
08.01.2003. "\$1M eyed to save water snakes on Erie Islands." PUT-IN-BAY GAZETTE.
08.01.2003. "Lectures open to public at OSU's Gibraltar Island." PUT-IN-BAY GAZETTE.

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Table D-10. Ohio Sea Grant and Stone Laboratory in the Media: 2004

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 01.16.2004. "That's the spirit!; Rover on the move." COLUMBUS DISPATCH.
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 01.24.2004. "Bouquets and brickbats." NEWS HERALD.
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 02.17.2004. "Timothy Bartish Obituary." FORT COLLINS COLORADOAN.
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05.01.2004. "Water snake project among those funded." PUY-IN-BAY GAZETTE.
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Table D-11. Publishers List: 2003

ACTION NEWS CLEVELAND	OHIO STATE UNIVERSITY ONCAMPUS
AKRON BEACON JOURNAL	OHIO STATE UNIVERSITY TODAY EMAIL NEWS
ALBANY (NY) TIMES UNION	OMAHA WORLD HERALD
ASSOCIATED PRESS	OTTAWA COUNTY BEACON
ATHENS (OH) POST	OTTAWA COUNTY MIRROR
BAY POINT YACHT CLUB	PITTSBURGH (PA) POST-GAZETTE
BUFFALO (NY) NEWS	PORT CLINTON (OH) NEWS-HERALD
CHARTER CHATTER , LAKE ERIE CHARTER BOAT ASSOCIATION	PORTSMOUTH DAILY TIMES
CINCINNATI POST	PR NEWSWIRE
CLEVELAND PLAIN DEALER	PUT-IN-BAY (OH) GAZETTE
COLUMBUS DISPATCH	SANDUSKY (OH) REGISTER
CONGRESSIONAL TESTIMONY	SEA GRANT NEWS AND NOTES (NATIONAL)
COUNTRY LIVING MAGAZINE	SPRINGFIELD (OH) NEWS-SUN
DAYTON DAILY NEWS	STATE JOURNAL
FISHWRAPPER	TELEGRAPH-FORUM BUCYRUS (OH)
FREMONT (OH) NEWS-MESSENGER	TOLEDO (OH) BLADE
GREAT LAKES BASIN REPORT	TOLEDO CITY PAPER
GREAT LAKES SCUTTLEBUTT	TROY (OH) DAILY NEWS
GREAT LAKES SPORT FISHING COUNCIL NEWS	USA TODAY
GROWFISH.COM	UNITED STATES CONGRESSIONAL TESTIMONY
HATCHERY INTERNATIONAL	URBANA CITIZEN
HELDREF PUBLICATIONS	US WATER NEWS ON-LINE
HOLLAND (MI) SENTINEL	WBNS RADIO 97.1 COLUMBUS
LAKE ERIE ISLANDS HISTORICAL SOCIETY NEWS	WILLBOUGHY NEWS HERALD
LANCASTER EAGLE GAZETTE	WINDSOR (ONTARIO CANADA) STAR
LEWS NEWS ODNR USFWS	WCPN 90.3 FM PUBLIC RADIO CLEVELAND
LORAIN (OH) MORNING JOURNAL	WOSU AM 820 PUBLIC RADIO COLUMBUS
MANSFIELD NEWS JOURNAL	
MAUMEE BAY PRESS	
MARION STAR	
MENTOR MONITOR	
MID-AMERICA BOATING	
NOAA, WWW.OAR.NOAA.GOV	
OHIO COASTAL MANAGEMENT PROGRAM NEWSLETTER	
OHIO ENTREPRENEUR MAGAZINE	
OHIO EPA, WWW.EPA.STATE.OH.US	
OHIO GAME AND FISH	
OHIO STATE UNIVERSITY AGRINATURALIST	
OHIO STATE UNIVERSITY ALUMNI MAGAZINE	
OHIO STATE UNIVERSITY EXTENSION LAKE COUNTY	
OHIO STATE UNIVERSITY EXTENSION MASTER GARDENER NEWSLETTER	

AGENCE FRANCE PRESSE
AMERICAN FISHERIES SOCIETY
ASCRIBE NEWSWIRE
ASSOCIATED PRESS
BOAT OHIO
BUDGET (THE)
BURLINGTON COUNTY (TN) TIMES
CHARTER CHATTER, LAKE ERIE CHARTER BOAT ASSOCIATION
CHILlicothe GAZETTE
CINCINNATI ENQUIRER
CHRONICLE
CLEVELAND PLAIN DEALER
COLUMBUS DISPATCH
CONGRESSIONAL TESTIMONY
COSHOCOTON TRIBUNE
COUNTRY LIVING MAGAZINE
COURIER TIMES (BUCK CO PA)
DAYTON DAILY NEWS
DETROIT NEWS
EARTHWATCH RADIO
FEDERAL DOCUMENT CLEARINGHOUSE
FISHWRAPPER
FORT COLLINS COLORADOAN
FREMONT (OH) NEWS-MESSENGER
GLIN ANNOUNCE
GREAT LAKES BASIN REPORT
GREAT LAKES RADIO CONSORTIUM
GREAT LAKES SCUTTLEBUT
INLAND SEAS ANGLER
INSIDE BUSINES (NE OHIO)
LAKE ERIE ISLANDS HISTORICAL SOCIETY NEWS
LAKE ERIE SHORELINES
LAS VEGAS REVIEW JOURNAL
LAKE COUNTY BUSINESS JOURNAL
LAKE COUNTY STORM WATER MANGEMENT
LEMTA.COM
LORAIN (OH) MORNING JOURNAL
LORAINCOUNTY.COM
MID-AMERICA BOATING
MIDWEST OUTDOORS
NORDIC BUSINESS JOURNAL
NORTHCOAST BUSINESS JOURNAL
OHIO STATE UNIVERSITY BIOLOGUE
OHIO STATE UNIVERSITY ENGINEERING
OHIO STATE UNIVERSITY EXTENSION LAKE COUNTY
OHIO STATE UNIVERSITY EXTENSION MAGAZINE
OHIO STATE UNIVERSITY ONCAMPUS
OHIO STATE UNIVERSITY TODAY EMAIL NEWS
OHIO STATE UNIVERSITY VETERINARY SCIENCE
OHIO STEELHEADERS
OTTAWA COUNTY BEACON
OUTHERE
PITTSBURG (PA) TRIBUNE REVIEW
PORT CLINTON (OH) NEWS-HERALD
PR NEWSWIRE
PUT-IN-BAY (OH) GAZETTE
SANDUSKY (OH) REGISTER
SBA.GOV
STRAITSLAND REPORTER (MI)
TOLEDO (OH) BLADE
TRUMPETEER
VINDICATOR
WCPN RADIO
WEWS NEWS CHANNEL 5 CLEVELAND
WLW CINCINNATI 700 AM
WOSU AM 820 PUBLIC RADIO COLUMBUS
WSYX COLUMBUS ABS AFFILIATE
ZANESVILLE TIMES RECORDER

Collaboration and Special Projects

From January 2003 –December 2004, Ohio Sea Grant Communications had the opportunity to collaborate with other agencies and constituents on several special projects at the state and regional levels.

State Legislature/Congressional Day: On July 16, 2004, Ohio Sea Grant and its private sector advisory committees hosted their largest Annual State Legislature/Congressional Day on Lake Erie. Elected officials and policy-makers, including U.S. Senator George Voinovich, U.S. Representative Marcy Kaptur, Ohio Representative Chris Redfern, and Ohio State University President Karen Holbrook, saw first-hand the beauty of Lake Erie and its importance as one of Ohio's greatest natural resources. Since 1982, Ohio Sea Grant has held this event to communicate the benefits and problems of Lake Erie to state and federal senators and representatives (annually 1982-85 and biennially since 1985). Notable results of this effort include establishing a line item in the State of Ohio's budget for additional financial support for Sea Grant; funding capital improvements at Stone Laboratory; gaining additional funding from the university for facility and infrastructure improvements; and passage of the detergent phosphorus ban in the state legislature.

Ohio Sea Grant Communications provided logistical support, displays, and information packets for this event. Note: In 2003, Sea Grant partnered with State Representative Chris Redfern and State Senator Randy Gardner to produce Put-in-Bay Legislative Days which attracted over 40 representatives.

Lake Erie Information Discussion Board: In July 2002, Ohio Sea Grant launched the Lake Erie Information Discussion Board. The Board was developed to offer plain-talk answers to science inquiries, and provided a forum for discussing Lake Erie-related concerns. The Board is monitored by Ohio Sea Grant Extension Specialists and Agents to ensure a prompt response to questions. Since its inception, the Discussion Board has addressed questions about the Lake Erie "dead zone," walleye fishing, perch and zebra mussels, sea lampreys in Lake Erie, lake temperature, threats to Lake Erie, and many other topics. Response to the Board has been very positive as evident in the following comment: "I want to thank you all for a great site and source of information. I have really enjoyed following the conversations on your site and learned a lot." The Board can be accessed from the Ohio Sea Grant's main home page, or from www.sg.ohio-state.edu/discus.

Guides to Lake Erie's Historic Shipwrecks: In order to promote ecotourism and recreational opportunities for the diving community and others interested in maritime history and natural history, Ohio Sea Grant created underwater guides for three Lake Erie shipwrecks: *The Adventure*, *W. R. Hanna*, and *F. H. Prince*. Packaged as a set in a waterproof envelope, each sturdy, plastic, waterproof slate measures 9.5" x 6.25" and features a site map, schematic diagram, diving information, vessel data, and ship history. The guides are essential for anyone interested in Lake Erie, shipwrecks, maritime history, or underwater archaeology. Available since August 2002, the guide's production was funded by Ohio Sea Grant. Additional assistance was provided by the Great Lakes Historical Society, Lake Erie Shipwreck Research Center, Ohio Department of Natural Resources, Ohio Coastal Management Program, Ohio Historical Society, and Bowling Green State University. The information provided in the guides is the result of hundreds of hours of archaeological and historical research conducted by the staff of the Lake Erie Shipwreck Research Center in conjunction with volunteers from the Maritime Archaeological Survey Team (MAST). In 2003, the Guides earned the "Blue Ribbon Award" in the "partnership" category at the National Sea Grant Week Conference.

ODNR Division of Wildlife Aquatic Nuisance Species (ANS) Steering Committee: The Communications Manager works directly with the coordinator of the ANS Management Plan for the State of Ohio. Communications has helped develop public information materials on ANS prevention. Most

recently, Ohio Sea Grant materials were included in a permanent wall-size display that the ANS Coordinator created at the Columbus Zoo. Other recent projects include a zebra mussel alert card (wallet size) focusing on in-land waters in Ohio.

Ohio Sea Grant Display: A variety of different displays are produced each year for use by our Director, Extension Specialists, Communications staff, and others at boat and sport shows, fairs, conferences and as stand-alone displays at other facilities. The displays at the winter sports shows are 20 feet wide. Display panels have featured a variety of issues: aquatic nuisance species, zebra mussels, fish advisories and sampling, Areas of Concern/Remedial Action Plans, seafood safety, clean boating, economic impacts, artificial reefs, water quality, recreation, and Sea Grant program information. In 2003 Communications and Extension created a panel featuring the Lake Erie Dead Zone. This display was used by the Director in testimony to the U.S. Senate. The 20-foot display was overhauled in late 2004 for the upcoming winter Boat and Sport Shows.

Stone Laboratory Kiosk Display: To expand outreach efforts at Stone Laboratory, the Bayview Office received a four-panel display kiosk in the Summer of 2004. The kiosk was built near South Bass Island's Peach Point where Put-in-Bay visitors frequently pass. The 3x3 foot display panels introduced visitors to Ohio Sea Grant and Stone Laboratory, Stone Lab's Summer Courses and Science Workshop Program, the Lake Erie Dead Zone, and the Friends of Stone Laboratory. The display panels will be replaced periodically throughout the year with timely topics.

Lake Erie Nature and Science Center (LENSC): Ohio Sea Grant has been the recipient of permanent exhibit space at the Lake Erie Nature and Science Center (LENSC) in Bay Village, Ohio. LENS is a non-profit organization that recently completed a \$2.3 million renovation and expansion project. Located within Huntington Reservation, which is part of Cleveland Metroparks, LENS offers educational programs, wildlife rehabilitation, and exhibits that "strive to involve individuals of all ages from a diverse cultural and economic community in learning to care for the Earth." LENS was founded in 1945, and has been located on Huntington Reservation since 1960.

The Communications Manager and Graphic Designer work with Sea Grant Extension to develop the displays. Displays have featured artificial reefs, aquatic nuisance species, Lake Erie food webs, water levels, the steelhead trout fishery, and the Lake Erie Dead Zone. With each exhibit Communications provides related fact sheets and other materials for center visitors. The display is usually changed twice a year.

Ohio Clean Marinas and Boater Programs: As a partnered effort with divisions of Ohio Department of Natural Resources, LEMTA, and other state agencies, Ohio Sea Grant developed and launched the Ohio Clean Marinas and Clean Boater Programs in September 2004 at the Inland Water Boat Show. Besides being the media contact lead, OSG Communications developed two web sites, logos, educational displays, instructional materials, and promotional stickers and flags for both programs. There are currently 15 Ohio marinas and over 300 Ohio boaters who have taken the Clean Marinas and Boater Pledges.

Great Lakes Fishery Leadership Institute: The Ohio Sea Grant program conducted its first Great Lakes Fishery Leadership Institute to promote fisheries leadership education and reduce conflict with fish managers in 2003. Communications worked with Ohio Sea Grant Extension to create a technical summary documenting the Great Lakes Sea Grant Network's comprehensive survey of the Great Lakes charter fishing industry along with separate summaries for each individual Great Lake state.

2004 Ohio Sea Grant Calendar: In 2003, Communications produced “Ohio’s Premier Sport Fish in Lake Erie” calendar to provide a unique opportunity to educate anglers and the general public about the importance of selected fish species to Ohio, and offer facts, tips, and hints for catching these species. The calendar features Ohio Sea Grant’s web site address and information about the Ohio Sea Grant Lake Erie Information Discussion Board so that calendar recipients will have a direct source to go to for current and accurate Lake Erie and fishing-related concerns. The 6000 *Twine Line* readers received a calendar within their Nov/Dec 2003 issue. The remaining copies will be distributed at the Cleveland-area boat and sport shows, and other events.

Lake Erie Education Poster Series: Sea Grant Communications with the assistance of Extension produced a series of four Lake Erie education posters in 2004 for educators to teach the basic concepts of the Lake Erie Dead Zone; Lake Erie fish identification and anatomy; and the lake food web. Each was designed to address specific Grade-Level Indicators of the Ohio Academic Content Standards for Life Sciences for grades K-12.

These posters were given free to all teachers who participated in the Stone Lab Science Workshop Program or attended educator conferences or Sea Grant shows (focusing specifically to teachers in K-12 education in Ohio and surrounding Great Lakes). By double-siding the posters, production cost was cut in half, amounting to about 75 cents per copy. Teachers were instructed to laminate the posters for longer use. Lake Erie Fish and the Lake Erie’s Sport Fish Community posters were purposely separated on opposite sheets in order to allow teachers flexibility to display both posters when teaching fish identification and anatomy.

Eco-History Island Passport: In collaboration with the National Park Service, Lake Erie Islands Historical Society, and ODNR Division of Wildlife, Stone Laboratory created the Eco-History Island Passport in August 2004. This partnership was an effort to unify and ultimately increase Put-in-Bay area tourism. Similar to Chicago’s Museum pass, a family could visit five of Put-in-Bay’s popular tourist destinations with the purchase of one ticket. Offered Wednesdays, August 11, 18, and 25 from 10:00 a.m. to 7:00 p.m., the Passport gave individuals the opportunity to learn the history and ecology of the Put-in-Bay area by visiting the Lake Erie Islands Historical Society; touring Perry’s Monument; delving into the Aquatic Education Center; taking the Gibraltar Island tour; and exploring the exclusive South Bass Island Lighthouse—all in one day. Participants could choose from a four- or five-site Passport package (with the four-site excluding the Gibraltar tour). Communications coordinated the creation of the Island passport, fliers, and tickets. Given to each tour participant, the Passport was a booklet that contained information, pictures, and calendar events of each site. The program was well received with fifty-five people participating in the program.

2004 Great Lakes Network Conference: Ohio Sea Grant hosted the year’s regional Sea Grant network meeting at Stone Laboratory in September 2004. Communications created a new logo for the conference, network t-shirt, and bag, along with conference materials and a web page with on line registration.

Stone Laboratory New Promotional Campaign: Communications works with Stone Lab staff and Sea Grant Education to develop the Stone Laboratory annual promotional campaign for its Summer College Program, Science Workshop Program, and Research and Conference facilities. Beginning in late summer/early fall of each year, Communications builds the new campaign which traditionally consists of a 12-page color brochure, a tri-fold flier, course brochure, and poster, for the next year’s (summer) program. As a step to increase student enrollment, Communications developed an aggressive strategy to add longevity to the campaign in 2004. New promotional materials included full-color pocket calendars,

bookmarks, reminder postcards, and posters—each to be delivered at different times of the campaign year in an effort to continue public awareness of the program. Note: All promotional materials included the new Stone Lab campaign logo along with the www.stonelab.ohio-state.edu web site for program questions.

- Pocket calendars: 10,000 pocket calendars to be sent to 6000 Ohio State dorm residents, attendants of Stone Lab information sessions, career expos, and teaching conferences, along with all major Ohio State department offices in late December.
- Bookmarks: 2000 bookmarks to be given to all Spring 2005 Science Workshop participants.
- Reminder Postcards: 4000 reminder postcards will be sent to all Ohio State education and science majors in February 2005.
- Posters: 2000 full-color posters were sent to all Stone Lab faculty, Ohio State department and library bulletin boards, and Ohio High School guidance counselors for posting in December.
- Bus Posters: Four posters throughout the school year were placed in the Ohio State bus system (60 buses) starting in Fall 2004. These posters highlighted Stone Lab information sessions on campus along with job and scholarship deadlines.
- Course Flier Series: Seven summer courses were highlighted in an 8.5 x 10 inch flier series which would be posted at key Ohio State science and education buildings and distributed to Stone Lab faculty teaching the courses in January 2005. These courses were deemed as 'high risk' to be canceled due to previous years' enrollment numbers.
- Advertisements: Two ads in the Academy Journal of Science and Ohio State Biological Science Journal. A new flash ad campaign will be developed to market to all Ohio State science and education majors.
- Stone Lab Table Top Display: New design to incorporate current "Explore Science and Discover Yourself" promotional tagline and Stone Lab logo. Display will be used for all career days, conferences, and informational sessions Stone Lab staff members oversee.

Appendix E

Extension

Accomplishments 2003 & 2004

Activities 2003 & 2004

Ohio Sea Grant Extension Program Agent Accomplishments 2003

I. Economic Leadership

A. Advanced Technology for Commercial Products and Processes

- 1. Commercial Biotechnology***
- 2. Environmental Technology***

B. Seafood Production

- 1. Commercial Fisheries***
- 2. Sustainable Aquaculture***
- 3. Seafood Technology***

C. Coastal Economic Development;

- 1. Coastal Business Development***

Fishing

The annual Ohio Charter Captains Conference has been described by Charter Industry Trade News as the largest conference of its type held in the United States. Over 160 licensed Ohio charter boat captains gained knowledge and skills to improve their business operations at the 22nd Annual Ohio Charter Captains Conference, organized by Snyder. Among captains responding to an evaluation, 92 percent said they use information gained from the annual conference to improve their fishing and business operations. Modifications to operating practices based upon the conference were claimed by 83 percent of captains. Increase profits because of this conference were claimed by 62 percent of responding captains. (Snyder, Kelch, Hageman, and Lucente, Mar 2003)

Twenty-two Michigan charter boat captains gained information to improve their charter operations through presentations by Snyder at the Western Basin Charter Boat Association annual meeting. (Mar 2003)

Outdoor Writers of Ohio, Inc., best Magazine How-to Article (2nd place) awarded to Snyder for Walleye Anglers Keep Pace with Changing Lake Erie, published in Twine Line. (Apr 2003)

The 2002-03 Lake Erie Steelhead Anglers Survey was completed with 375 of 487 (77%) anglers providing useful data. Preliminary results were presented in November/December 2003 issue of TWINELINE. Anglers averaged 1.33 fish caught per day and 58.4 per season, with approximately 88% of fish caught released. Individuals responded that they spend approximately \$26 per trip, with more than 60% of these expenditures within 10 miles of the sites where they are fishing. (Kelch, Lichtkoppler, and Sohngen)

Two papers, "The 2002 Great Lakes Charter Captains Survey" (F. Lichtkoppler, D. Kuehn and C. Pistis) and "Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003" (D. Kelch, F. Lichtkoppler

and B. Sohngen) were submitted to the International Association of Great Lakes Research 2004 Conference Abstract Committee. (Dec 2003).

Coastal Recreation

For the third year in succession Lucente received a grant to distribute over 15,000 copies of the 2003 Western Lake Erie Waterfront Guide he created. The \$7,480.00 grant came from the Lake Erie Protection Fund. The guide is used to promote cultural and eco-tourism in the Western Lake Erie Basin. (Lucente and Ritzler, Jan-May 2003)

Lucente has teamed with and secured an annual \$2,500 contribution from the Monroe, Michigan County Convention and Visitor's Bureau to produce the "Lake Erie West Guide" to promote boating, fishing, eco-tourism, cultural, and festival activities in the western Lake Erie region. This partnership allows for a regional approach in promoting Ohio's greatest natural asset, Lake Erie, as well as breaking down geographic boundaries between two states and bringing them together for the greater public good. (Lucente, Aug 2003).

Marine Trades

Lead by Ohio Sea Grant, the Great Lakes Sea Grant Network programs surveyed the Great Lakes charter fishing captains during October 2002 to April 2003 using a modified Dillman mail survey technique. A total of 868 captains returned surveys with usable data for a response rate of over 49%. This survey is directly comparable to the 1994 Great Lakes charter captain survey and earlier charter captains surveys conducted in the 1980's. (Lichtkoppler, Jun 2003)

Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. The Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-039) Great Lakes Sea Grant Network.

Lichtkoppler, F. R., and D. Kuehn. 2003. New York's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-035) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003a. Pennsylvania's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-037) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003b. Ohio's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-036) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003c. Illinois-Indiana's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-032) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003d. Wisconsin's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-038) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003e. Minnesota's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-034) Great Lakes Sea Grant Network.

Pistis, C., and F. R. Lichtkoppler. 2003. Michigan's Great Lakes Charter Fishing Industry in 2002. (OHSU-TS-033) Great Lakes Sea Grant Network.

The paper, *The Great Lakes Charter Fishing Industry: 1973 to 2002*, was submitted to the *North American Journal of Fisheries Management*. (Nov 2003; D. Kuehn, F. Lichtkoppler and C. Pistis)

2. Coastal Community Development

Thirteen engineers learned more about storm water management at NEMO's web simulcast of the Storm Water Management Program January 23, 2003. Engineers' comments from the program evaluation indicated that this training would assist them in writing their NPDES-Phase II requirements for Ohio EPA. (Williams, Jan 2003)

Fifty-Three community economic development specialists learned more about efficient and creative ways to meet EPA Phase II storm-water management requirements at the agent's Economic Development Network meeting. Members of the Chagrin River Watershed Partnership explained how they developed their plan. Participating communities utilized this information to formulate their storm-water management plans. (Williams, Jan 2003)

One hundred and three business owners attended a reception in New York in February 2003 coordinated by Williams and the Cleveland Convention and Visitors Bureau. Cleveland Mayor Jane Campbell provided the opening remarks at the reception. This program was designed to cultivate relationships with media, travel consultants, corporate executives and business site location consultants. Because of this event Chase Financial Services is re-evaluating moving some departments located in New York to the Cleveland market.

Over 170 downtown office tenants responded to the "Crisis in Cleveland's Downtown Office Space survey" conducted in October 2002-January 2003. About 34% of the respondents were not committed to signing another lease in their current downtown location. The Downtown Cleveland Partnership, a working group organized to address the vacancy crisis of downtown office space, will utilize this information to garner support from Cleveland City council for incentives for office tenants to remain in downtown Cleveland. In addition a visitation program established to communicate with downtown office tenants. (Williams, Feb 2003)

A total of 30 companies located in Brooklyn and Brooklyn Heights have responded to Williams' business retention survey. Seven of these companies are interested in becoming members of the Pre-Employment Training Program. Members significantly reduce the cost of hiring new employees by sponsoring this program. (Williams, Apr 2003)

Twenty-eight people attended Cuyahoga County's Genetically Altered Foods. Participants learned how pervasive genetically altered foods were already in our food supply, and whether the government should regulate this industry. Participants surveyed at the end of this meeting indicated that information they were exposed to would influence their buying and eating habits. Cuyahoga County Agent Staff, Joe Konen and Dave Patton (Williams, Apr 2003)

Ten communities have been certified as business-friendly locations. Applications, for certification were received from 40 communities in Northeast Ohio. Williams developed the survey instrument that determines a community's eligibility for this program. This designation is a badge of honor for communities to use on its letterhead, and signage. Extension intends to work with communities that do not measure up initially to help them win this designation. An article appeared in May 5-11, 2003 edition of the *Crain's Cleveland Business* highlighting this program success. (May 2003)

Forty economic development specialists learned innovative techniques for designing business retention programs from Development Strategies. Development Strategies is a private company that provides consultation to communities pertaining to economic development. This program was delivered electronically over the web from St. Louis MO. The principals from Development Strategies emphasized how tax increment financing could be utilized as a tool for business retention and attraction. The Mayor of Broadview Heights indicated that tax increment financing could possibly be the impetus the city needs to jump-start redevelopment of the central business district. (Williams, May 2003)

Lucente and Jim Weidenheft, Ottawa County Extension Agent for Community Development conducted over 50 personal business visits in Ottawa County for the tourism, service and retail service sectors for the Ottawa County Business Retention and Expansion Project. (J. Lucente, J. Weidenheft, Dec 2002-May 2003)

Port Clinton, Ohio officials learned: 1) to establish and maintain an on-going business retention and expansion program that develops and fosters long-term positive and productive relationships among public and private entities within the local community and the region; 2) to identify and address concerns and issues of existing businesses and to identify opportunities; and, 3) to create programs to stimulate local job growth. (J. Lucente, J. Weidenheft, Jun 2003)

Various Marion County administrators and officials learned the dynamics of conducting a business retention and expansion study for its existing business base as a result of a presentation by Lucente, the agent in Toledo. As a direct result, Marion County officials will soon embark on setting up a business retention and expansion program. (Lucente, Aug 2003)

A total of 52 graduates out of 117 participants have been placed in manufacturing jobs as a result of an Ohio State University Extension partnership with WIRE Net in its Pre-employment Training Program (PET). A total of 96 hours of classroom instruction was provided each quarter since April 2001. The purpose of PET is to teach manufacturing job-training skills to unemployed and underemployed residents of Cuyahoga County. Williams has provided 27 hours of classroom instruction in the following subject areas" Money Management, Introduction to Computers, Effective Team Building. This program is being featured in Extension's annual Report for 2003. (Williams, Sep 2003)

Fifty-five Economic Development Specialist learn why three local communities received their Business Friendly Community Designations. Representatives from the three communities shared with the Specialist how their communities not only met the minimum requirements but also exceeded these requirements. (Williams, Sep 2003)

A total of 30 out of 63 companies responded to the Agent's Talent & Workforce Survey. This survey was conducted for Workforce Preparations to determine what programs are needed to remain an effective advocate for area employers. Workforce Preparations will develop programming based on survey respondents. (Williams, Sep 2003)

The revised paper, Willingness to Pay for Green Space Preservation: A Comparison of Soil and Water Conservation District Clientele and the General Public Using the Contingent Valuation Method, was resubmitted to the Journal of Soil and Water Conservation. (Blaine and. Lichtkopler, Oct 2003)

Twenty-nine leadership professionals learned how to evaluate a local government official training program as Lucente and Greg Davis of Ohio State University Extension presented "Using Retrospective

Pretest Methodology in Leadership Development for Government Officials” at the Mid-Western Educational Research Association’s Annual Meeting in Columbus, Ohio. (Lucente and Davis, Oct 16, 2003)

Sixteen people learned how the Ohio Business Retention and Expansion Initiative at The Ohio State University could help in business development and relationship building processes from Lucente during the Cherry-Bancroft-Summit Streets Corridor Coalition meeting on October 23, 2003. The Cherry-Summit-Bancroft Corridor Coalition is nationally recognized as a first-of-its-kind neighborhood community development partnership for urban renewal. (Lucente, Oct 23, 2003)

Twelve Extension Agent attended the Agent’s presentation on Gossip in the Workplace. Two of the attending agents indicated that they would utilize the information presented in future programming. (Williams, Nov 2003)

Lucente won and was presented with the District Achievement Award in the West District of Ohio for Outstanding Accomplishments in Extension Education in Community Development. This award was from the Ohio Extension Agent’s Association as well as peer voting in the West District of Ohio. (Lucente, Dec 9, 2003)

Lucente won and was presented with The Ohio State University Extension Community Development Innovative Individual Program Award for the Toledo Local Government Leadership Academy. Since its inception in 2002, and in partnership with the Toledo Area Chamber of Commerce, Ohio State University Extension, and the Ohio Sea Grant College Program, 43 local elected and appointed officials, people who serve on task forces, commissions or local government boards have graduated from the ten-week academy. Surveys indicate that all participants have increased their overall knowledge of local government operations by 82%. (Lucente, Dec 9, 2003)

New Jobs & Investments as a result of Williams’s business R&E efforts in 2003 include:

Company	Investments	New Jobs
Intier Automotive	\$1,300,000	65
Image Science	\$500,000	14
CEA USA	\$2,900,000	12
Highland Equipment	\$640,000	22
Business forms Plus	\$130,000	2
Hubbub Bicycle	\$200,000	2
Totals	\$5,670,000	117

The Port Clinton Mayor’s Core Group for transient marina development received approval from the U.S. Army Corps of Engineers to proceed with construction planning for a large municipal marina on the Portage River. An engineering design firm has been retained and a construction grant is expected in early 2004. Ohio Sea Grant Extension initiated this project through meetings brokered between the Port Clinton Mayor’s Office and the Ohio Dept. of Natural Resources. Snyder is a Core Group member, providing advice and planning assistance in water quality and sediment issues, and boating and fishing industry concerns. (Snyder, Jan-Dec 2003)

3. Revitalize Marine Infrastructure

The US Army Corps of Engineers has decided to revert to a strict adherence to the original CMP/EIS developed by the Ashtabula River Partnership and to contract the Preliminary Engineering Design for the landfill, dewatering plant and other necessary engineering work out to a single consultant (Black & Veech) who will deliver the PED in a timely manner so that we can get the cleanup of the Ashtabula River into the 2005 federal budget. (Lichtkopler, Nov 2003)

II. Coastal Ecosystem Health and Public Safety

A. Coastal Ecosystem Health

1. Coastal Ecosystems

Eighteen New England federal fish hatchery managers and state coastal program managers were certified in ANS-HACCP procedures to inhibit the spread of aquatic nuisance species through fish stocking and aquaculture practices. The ANS-HACCP curriculum was developed by the Great Lakes Sea Grant Network to extend Hazard Analysis Critical Control Point procedures from the seafood industry to ANS concerns. (F. Snyder, OH and E. Obert PA Sea Grant, Feb 2003)

The Mentor Area Regional Coalition Executive Committee completed work on a series of six fact sheets concerning Mentor Marsh: Benefits of Mentor Marsh; Conservation Development in the Mentor Marsh Area; Help Protect the Mentor Marsh Area; Interacting with Your Local Government; Mosquitoes and Mentor Marsh; and, Public Stewardship of the Mentor Marsh Area. (Lichtkopler, Mar 2003)

Great Lakes Sea Grant Network Program Leaders' Outstanding Program Award to Snyder, for the HACCP approach to prevent the spread of aquatic nuisance species by aquaculture and baitfish operations. (Jun 2003)

Lichtkopler, F.R. "Closing the Gap: Linking Science to Local Decision Makers." Paper presented at the 46th Conference on Great Lakes Research/10th World Lake Conference. International Association for Great Lakes Research & International Lake Environment Committee. June 22-26, 2003. DePaul University, Chicago Illinois.

Snyder received a two-year grant for \$32,445 from the Great Lakes Protection Fund to continue ANS-HACCP training in Ohio and other Great Lakes states. (Dec 2003)

Snyder and Kelch are board members of the Ohio Clean Marinas Program, working to eliminate environmentally unsound practices among Lake Erie marinas. (Nov-Dec 2003)

2. Coastal and Great Lakes Habitats

Ohio Sea Grant received a \$37,400 grant over two years as a cooperator in a successful competition for a National Sea Grant Aquatic Nuisance Species Outreach Program grant for 2003-2005 titled: A National ANS Outreach Campaign for the Aquarium Industry and Hobbyist Consumers: A collaborative Effort Involving the Pet Industry Joint Council, the U.S. Fish and Wildlife Service and the Great Lakes Sea Grant Network. (Lichtkopler & Reutter, Mar 2003).

APEX Award of Excellence, 15th Annual Awards for Publication Excellence, Feature Writing Category. "Entering the Zone" *TWINELINE*, Vol. 24, No. 5, 2002, article on the Lake Erie 'dead zone'. (Jeffrey Reutter, David Kelch, Jill Jentes Banicki and Frank Lichtkopler. 2003).

Over 70 participants learned more about the value of Lake Erie shipwrecks, the importance of their protection, mooring buoys and their relationship to shipwreck protection and diver safety, and the concept of an underwater preserve for Lake Erie from a presentation to the Maritime Archaeological Survey Team (MAST). (Kelch, Dec 2003)

3. Sustainable Development

Blaine, T.W., F. R. Lichtkoppler, and R. Stanbro. 2003. An Assessment of Residents' Willingness to Pay for Green Space and Farmland Preservation Conservation Easements Using the Contingent Valuation Method (CVM). *Journal of Extension*. 41 (4) (electronic format) <http://www.joe.org/joe/2003august/a3.shtml> (The acceptance rate for JOE in 2003 was 52%.)

The Mentor Area Regional Coalition Executive Committee completed work on a series of documents that are available on a CD: (1) MARC/SAMP Brochure; (2) six fact sheets concerning Mentor Marsh: Benefits of Mentor Marsh; Conservation Development in the Mentor Marsh Area; Help Protect the Mentor Marsh Area; Interacting with Your Local Government; Mosquitoes and Mentor Marsh; and, Public Stewardship of the Mentor Marsh Area; (3) Issues Characterization; (4) Strategy Document; and, (5) MARC/SAMP PowerPoint Presentation. (Lichtkoppler, Oct 2003)

B. Public Safety

1. Coastal Hazards

2. Safety at Sea

III. Education and Human Resources

A. Provide a Technically Trained Workforce

1. Scientists and Engineers

Frank Lichtkoppler having complied with the professional requirements established by the American Fisheries Society and verified by its Board of Professional Certification is declared to be a Certified Fisheries Professional on February 12, 2003. (Certificate Number 2525; expires December 2008.)

Sixty-nine scientists, agency officials and citizens learned more about avian botulism at the Botulism in Lake Erie Workshop in Buffalo, NY on April 3, 2003 co-sponsored by the NY, PA and OH Sea Grant programs. Over 95% of post program survey respondents agreed or strongly agreed that they gained new knowledge from the workshop. Almost 86% of responding participants who had attended either the 2001 and/or 2002 botulism workshops reported that they have shared the information learned with anglers, agency officials, co-workers, researchers, students and others. About 60% of previous workshop participants have taken such actions as: initiating a research program, started botulism mortality surveys, or written newspaper articles about the botulism problem. (H. Domske, NY; E. Obert, PA; & F. Lichtkoppler, OH)

Eleven certified crop advisors would now include buffer strip technology for watershed protection in their services to agricultural clientele, following a training session held by Snyder in cooperation with Ottawa County Extension. (Apr 2003)

Snyder served as a journal article reviewer for the *Journal of Great Lakes Research* and the *Canadian Journal of Zoology*. (Jul-Aug 2003)

Eleven students in the OSU Dept of Ecology, Evolution and Organismal Behavior gained three credit hours in aquatic biology in Snyder's offering of EEOB 125. (Aug 2003)

A Great Lakes Sea Grant Network planning committee was assembled and chaired by Snyder to develop the 2004 GLSGN Conference, to be held at Put-in-Bay, OH. (Sep 2003)

Snyder served as a faculty promotion and tenure reviewer for Louisiana State University Extension. (Oct 2003)

2. Resource Managers

Five remote locations (Wooster, Cincinnati, Dayton, Cleveland and Toledo, Ohio) received information via the Internet as the Ohio Sea Grant College Program so-sponsored the Ohio Storm water Management Conference on January 23, 2003. Lucente assisted public officials in conducting the workshop on best management practices, performance standards and pollution credit training to develop an effective storm water management plan for municipalities.

Over 50 elected and appointed officials learned how to develop and conduct the "Local Government Leadership Academy Model" at the Wisconsin Community Leadership Summit during April 3-4, 2003 in Wisconsin Rapids, Wisconsin. Local leaders were trained in how to provide an intensive ten-week local government leadership course that encompasses ten modules of leadership capacity building in which their daily work is directly related to. (Lucente, Apr 2003)

Twenty elected and appointed officials learned more about the Ohio NEMO Program and the effects of non-point source pollution from development at a focus group conducted by a partnership with Ohio Sea Grant, Ohio NEMO and Ohio State University Extension at Old Woman Creek National Estuary in Huron, Ohio on June 24, 2003. As a result of this focus group, new educational materials such as fact sheets and an informational web site will be developed to better educate public officials and the general public on non-point sources of pollution and how development and smart growth can co-exist. (J. Lucente, T. Lawrence, R. McCall)

Ten Ohio State University Extension State Development Leaders and Specialists learned how local efforts to implement core community development activities around the State of Ohio could lead in building relationships for success as Lucente presented "The Toledo Local Government Leadership Academy- Building Partnerships and Making Connections" at the State Extension Leader's Community Development Quarterly Meeting. (Lucente, Nov 19, 2003)

3. Technical Training

Three OSU Extension faculty and staff were provided their annual evaluations with the input of the agent. (Lichtkoppler, Jan-Feb 2003).

Lucente presented the "Toledo Local Government Leadership Academy Model" to the Allen/Lima County Chamber of Commerce and Allen/Lima Leadership on April 22, 2003 in Lima, Ohio. As a direct result, The Allen/Lima County Chamber of Commerce will partner with Ohio State University Extension to offer the ten-week Local Government Leadership Academy to elected and appointed officials in the fall of 2003. The Academy will encompass the ten modules of curriculum necessary for public servants in their respective daily jobs. (Lucente, Apr 2003)

On May 9, (2003) 29 fisheries and wildlife professionals, faculty and graduate students learned the importance of coastal wetlands to fisheries production on Lake Erie at a wetlands workshop organized by Mr. Hageman on behalf of the Ohio Chapter of the American Fisheries Society.

Lucente was a guest lecturer at Dr. Bill Obenour's Tourism and Policy Development Graduate Class on June 26, 2003 at Bowling Green State University. Ten students learned more about The Ohio Business Retention and Expansion Initiative at The Ohio State University and how it has been implemented in the western basin of Lake Erie to gauge the effects of businesses that are looking to expand operations, need financial assistance, or government grant and loan information. In addition, The Ohio BR&E Program assesses the overall health and business climate in a community as well as serving as a mechanism to build and foster relationships between government entities and businesses.

A post program survey of the 81 participants in the "Managing Ponds: A Resource In-Service" for pond management professionals indicated that the participants learned new material regarding pond management, and would apply their new knowledge to clientele pond concerns. A conference proceedings notebook that included speaker handouts, power-point presentations, and other related literature was provided to participants. (Kelch, Lynch, Oleskiewicz, and Graham, Jul 22-23, 2003)

The associate professor has secured support for the effort to have extension field faculty granted full faculty rights and voting privileges to the University Senate from Dean Moser, College of Food, Agriculture and Environmental Science, and Dr. Keith Smith, Director OSU Extension. (Kelch, Jul-Sep, 2003).

Twenty-one participants learned more about fisheries management, Lake Erie issues, fish production and field sampling techniques at the Ohio Great Lakes Fishery Leadership Institute at Stone Laboratory, September 12-14, 2003. Almost 94% (16 of 17) of post program survey respondents strongly agreed that they would share the information learned at the workshop with others. Eighty-seven percent (14 of 16) agreed or strongly agreed that they will conduct a service project as a result of the workshop. (Hageman, Kelch, Lichtkoppler, Reutter, Snyder, and Sturtevant)

Thirty-eight participants learned more about Lake Erie fishery issues, the Great Lakes Fish Commission, and Lake Erie Fisheries management, electro-fishing sampling techniques, and aquatic field sampling techniques at the Lake Erie Great Lakes Fishery Leadership Institute at Presque Isle PA, October 3 and 4, 2003. Almost 75% (21 of 28) of post program survey respondents strongly agreed that they plan to share the information learned at the workshop with others. Sixty-nine percent (18 of 26) agreed or strongly agreed that they will conduct a service project as a result of the workshop. One individual has already published an article in a local news media concerning the Lake Erie GLFLI training. (Domske, NY; Lichtkoppler, OH; and Obert, PA)

Kelch chaired the North Extension District Faculty Promotion and Tenure Committee in October, with the vitas of four candidates reviewed for faculty promotion. Recommendations were developed by the committee, with the chair writing and forwarding the final decision to the District Extension Director. (Oct 2003)

Kelch was again elected by his peers to serve as the chairperson for the 2004 North Extension District Faculty P&T Committee. This is the second year for Kelch as committee chair, and the third year on the committee. He has responsibility for reviewing and commenting on first and second drafts, and in chairing the full faculty review committee. (Oct 2003)

Lucente served as Ohio Sea Grant's Coastal Community Development Specialist in representing the program at NOAA/USPEA sponsored Smart Growth Training, November 2-7, 2003 in Washington, D.C. Lucente submitted a comprehensive report for Ohio Sea Grant Smart Growth Projects to the National Sea Grant Office in Silver Spring, Maryland.

Snyder worked with other West District extension professionals to develop and present two training in-services for extension agents in the West District Applied Research Program. This effort trains agents to develop scholarly contributions to their professions from extension teaching activities they conduct. (Sep-Dec 2003)

The Ohio State University Department of Extension (OSUE) benefits each year from the administrative experience and talent found among senior Ohio Sea Grant Extension Specialists. Appointments to OSUE administrative committees are based upon expertise and commitment in addition to tenure, and represent the department's recognition of particular faculty members as able to benefit the entire organization. In many cases, Ohio Sea Grant Extension Specialists have risen to leadership of these critical working groups.

As a member of the College of Food, Agriculture and Environmental Sciences' (FAES) Agriculture Faculty Council specialist Kelch provides input to the Vice President for Agriculture and Dean of the CAEFS. He provides advise to the OSU Extension Director as a member of the OSUE department's Internal Advisory Council and the Cost Recovery Team.

Specialist Snyder was appointed twice to the Department of Extension's Promotion and Tenure Committee (three-year terms), including one year as chair, and served two terms (one year each) on the OSUE Northwest District Promotion and Tenure Committee, again as chair for one term. He served on the School of Natural Resources Advisory Committee and is on the OSUE West District Research Committee. He has a 0.2 FTE appointment as Ohio Sea Grant Extension Program Co-Leader.

Specialist Lichtkoppler served on the College of FAES Promotion and Tenure Committee (three-year term) and three years on the OSUE Departmental Promotion and Tenure Committee, including one year as chair. He served on the FAES Agriculture Faculty Council and also has a 0.2 FTE appointment as Ohio Sea Grant Extension Program Co-Leader.

These selective administrative appointments require a substantial input of time from Sea Grant specialists, but have positively impacted the careers of dozens of extension agents, facilitated administration of the department and the college, and have brought university-wide prestige to Ohio Sea Grant. (Snyder, Lichtkoppler, Kelch)

B. Assure an Environmentally and Scientifically Informed Citizenry

1. Pre-College Education

Thousands of individuals learned more about Lake Erie during the 2003 Mid-America Sail and Power Boat Show (January 17-26), the 2003 Eastlake Fishing Symposium (February, 15 & 16), and the 2003 Cleveland Sport, Travel and Outdoor Recreation Show (March 15-23). Kelch organized the teaching at the Sea Grant exhibit, and worked with the Ohio Sea Grant Communications Program to develop new exhibit displays. Hundreds of patrons learned more about Lake Erie at 14 seminars taught by Kelch at the Boat Show and four more seminars at the Sport Show. The topic of the seminars was, "Lake Erie's Dead Zone: What does it all mean?" Boat Show management indicated these seminars were some of the best attended on record. Hundreds of angler and boater questions were answered and show patrons acquired additional information from the over 12,000 Sea Grant fact sheets that were distributed at the three shows. (Kelch, Lichtkoppler, Lucente, Snyder, Williams & Hageman)

Over 380 clientele learned more about steelhead biology and management in Lake Erie and how/where to take advantage of fall, winter and spring stream angling opportunities at two Steelhead Seminars taught by Kelch and at one workshop held on the Ohio State University Campus. The workshop also

featured topics about F.T. Stone Laboratory, Lake Erie's new "dead zone" concern, western and central basin fishery updates and new angling opportunities. (Kelch, Reutter, & Snyder, Feb 2003)

Thirty-two participants learned how to institute the utilization of surveys as an effective tool of program impact and evaluation from the presentation "Evaluating Impact Through Extension Programming" made by Lucente at an in-service in the Northwest District of Ohio State University. (Lucente, Feb 28, 2003)

A multimedia on-screen presentation entitled "Let's Go Fishing!" was developed for use in northern Ohio School systems as part of the national "Hooked on Fishing, Not Drugs" initiative. The program was tested in two Port Clinton elementary schools (total audience: 155) and is now available for distribution. The program will be implemented by Ottawa County instructors during the 2003-04 school year, and is available to instructors statewide. (Snyder, May 2002)

Eighty Extension Agents and pond consultants gained knowledge of pond and lake ecology through a new multimedia presentation entitled Pond Ecology. This program is now in use by Extension agents in several Ohio counties. (Snyder, Jul 2003)

Over 80 youth and adults learned more about Lake Erie fisheries, fisheries biology, handling and preparation, shipwrecks, snorkeling, aquatic nuisance species, angling techniques, boat handling and GPS navigation during educational sessions taught by Kelch and others during the 20th Annual Ohio 4-H Sea Camp. Conducted July 5th-10th at the Kelleys Island 4-H Camp, the original Sea Camp concept was developed by Ohio Sea Grant specialists in 1984. The camp provides youth with Lake Erie awareness and education, and teaches them the values associated with Lake Erie. (Kelch, Jul 2003)

Over 510 participants in 12 seminars/presentations learned more about Lake Erie. Topics taught by the Associate Professor included Lake Erie's Dead Zone and fishery impacts, angling opportunity, aquatic nuisance species, fish consumption safety, and Lake Erie fishery principles/management. One radio interview taught thousands about Lake Erie angling opportunities and recent toxic algae concerns. (Kelch, Jul-Sep 2003)

Mass audiences gained knowledge of Lake Erie's aquatic ecosystem and coastal issues through a series of eight newspaper interviews (Cleveland, Maumee, Sandusky, Fremont OH, Associated Press), three radio interviews (Cleveland, Kent OH, Clear Channel Syndicate), one national magazine interview and one television documentary (Rochester, NY). (Snyder, Jan-Sep 2003)

Fifteen extension and resource professionals learned about Sea Grant and Lake Erie as Lucente presented a Lake Erie and Sea Grant update at the Lucas County, Ohio Extension Office. (Lucente, Oct 6, 2003)

During the 2003 aquatic science workshop season, April through October, Mr. Hageman hosted a total of 5,709 individuals from 177 groups, from 4th grade through adult. Workshop participants learned about Lake Erie's ecosystem through science cruises, plankton and fish identification lab sessions, ornithology hikes, invertebrate biological indicator surveys and exotic species slide shows. Many groups enjoy an overnight stay at Stone Lab on Gibraltar Island further enhancing the learning experience. Participants come from throughout Ohio and many school groups come from the neighboring states of Pennsylvania, Indiana and Michigan.

Midview Middle School biological sciences students learned about the impact of aquatic nuisance species and Lake Erie's Dead Zone during a presentation by the instructor. The presentation consisted of a slide show, printed material handouts and a question/answer session. 97 students and three science teachers participated in the program. (Kelch, Nov 2003)

Over 238 participants learned more about Lake Erie's Dead Zone, angling opportunities, aquatic nuisance species, fish consumption safety, and Lake Erie fishery principles and management at eight seminars taught by Kelch. (Oct-Dec, 2003)

The Ohio Sea Grant Extension grant proposal for March 1, 2004 to February 28, 2006 in the amount of \$787, 838 was developed and submitted to the National Sea Grant Program Office along with the core Ohio Sea Grant College Program grant proposal. (Lichtkoppler, Snyder and Thomas, Nov 2003)

Table E-1: Ohio Sea Grant Extension Combined Activities 2003

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2003	1	3		Lucente	Andy Lewis, Wisconsin Extension	Toledo	Conference Call- Leadership	2		x		
2003	1	3		Snyder	Extension District Office Staff	Findlay	Staffing update	11				
2003	1	7		Kelch	OSU Ext. Cost Recovery Com. Mtg.	Columbus	departmental cost recovery				x	
2003	1	7		Kelch	OSU Ext. Cy. Advisory Com. Mtg.	Elyria	Sea Grant Updates	27				
2003	1	7		Lichtkoppler	Sea Grant Extension Staff	Painesville	Conf Call re: Fish Extension	3				
2003	1	7		Snyder	Sea Grant Extension Staff	Port Clinton	Conf Call re: Fish Extension	5		x		
2003	1	7		Williams	Smart Growth	Columbus	Smart Growth Team	5				
2003	1	8		Kelch	Sea Grant N. Central Advisory Com.	Elyria	Sea Grant Updates	18				
2003	1	8		Lichtkoppler	Sea Grant Staff	Painesville	conf Call re: Fish Extension PETS	7				
2003	1	8		Lichtkoppler	National Public Radio	Painesville	Lake Erie & Botulism					XX
2003	1	8		Snyder	Great Lakes Sea Grant Network	Port Clinton	Fish Extension Conference Call	7		x		
2003	1	8		Williams	Downtown Cleveland Partnership	Cleveland	Downtown office survey	26				
2003	1	9		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2003	1	9		Lichtkoppler	North Coast Charter Captains	Grand River	Lake Erie Fisheries	45				
2003	1	9		Lucente	NW Ohio Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	1	13		Lucente	Ohio Extension Agents Association	Columbus	Board Mtg.				26	
2003	1	13		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16		x		
2003	1	13		Snyder	Ohio ANS Task Force	Columbus	2002 Update, 2003 Initiatives	15				
2003	1	13		Williams	OEA	Columbus						
2003	1	14		Hageman	Ohio Sea Grant Extension	Columbus	Staff Meeting				9	
2003	1	14		Lichtkoppler	USGE Staff	Columbus	GAP Analysis Program	4				
2003	1	14		Lichtkoppler	Sea Grant Staff	Columbus	Staff Conference	10				
2003	1	14		Snyder	Sea Grant Extension Staff	Columbus	Sea Grant Staff Meeting	8				
2003	1	14		Williams	Sea Grant	Columbus						
2003	1	15		Hageman	Pheasants Forever Board	Oak Harbor	Annual Banquet Planning	13				
2003	1	15		Snyder	ANS HACCP Committee	Port Clinton	Massachusetts Program Planning	6		x		
2003	1	15		Williams	Downtown Cleveland Partnership	Cleveland	Downtown office survey	5				
2003	1	16		Hageman	Ohio Sportsman Radio Audience	16 Ohio Radio Stations	Radio Interview Re: Ice Fishing Opportunities					XX
2003	1	16		Hageman	WOSU Radio Audience	Columbus	Winter on Put-in-Bay/Stone Lab					XX
2003	1	16		Lichtkoppler	OEPA, Citizens	Painesville	Shamrock Development Public Hearing	45				
2003	1	16		Snyder	Extension District Office Staff	Findlay	Staff Meeting	12				
2003	1	16		Williams	City Club	Cleveland						
2003	1	17	26	Kelch	Mid-America Boat Show	Cleveland	Sea Grant exhibit, education					XX
2003	1	17		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	100				
2003	1	17		Lichtkoppler	Great Lakes Sea Grant Staff	Painesville	conf call re: PETS ANS Grant	7				
2003	1	17		Snyder	Fremont News-Messenger Interview	Fremont	Introduced Wildlife					XX
2003	1	17		Snyder	Lake Erie Coastal Ohio	Sandusky	Staff Development Committee	4				
2003	1	17		Snyder	GLSGN Program Leaders	Port Clinton	Fish Extension Conference Call	8		x		
2003	1	18		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	90				
2003	1	18		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	75				
2003	1	18		Lichtkoppler	Cleveland Boat Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	1	19		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	85				
2003	1	19		Snyder	Cleveland Boat Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	1	20		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	110				
2003	1	20		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16		x		
2003	1	21		Hageman	Subscribers to Ohio News Network	Put-in-Bay	Ice Fishing Feature, Travel Ideas					XX
2003	1	21		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	60				
2003	1	21		Lucente	Don Lacy, OSU Extension	Toledo	Conference Call- Leadership	2		x		
2003	1	21		Snyder	Cleveland Boat Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	1	21		Williams	Lloyd Daniels Development Group	Cleveland	Business Development	6				
2003	1	21		Williams	Unity MFG Group	East Cleveland	Business Development	6				
2003	1	22		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning				x	
2003	1	22		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	45				
2003	1	22		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	80				

Mass Media includes hard-to-enumerate large audiences such as print and broadcast media and expositions

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2003	1	22		Lucente	Christina McManus, OSU Extension	Toledo	Web Page Development	2		x		
2003	1	23		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	40				
2003	1	23	26	Lichtkoppler	Cleveland Boat Show Patrons	Cleveland	Sea Grant Information Booth	15	x			XX
2003	1	23		Lucente	Public Officials, citizens	Toledo	Stormwater Mgmt. Conference	10				
2003	1	23		Williams	Storm Water Program	Lake County offices	Sea Grant	25				
2003	1	23		Williams	PET Testing	Cleveland	Pre employment training	50				
2003	1	24		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	25				
2003	1	24		Williams	PET Testing	Cleveland	Pre employment training	70				
2003	1	25		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	45				XX
2003	1	25		Lucente	Presentation-Mid America Boat Show	Cleveland	Sea Grant Information Booth	50				
2003	1	26		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	16	x			XX
2003	1	27		Lucente	Public Officials, citizens	Toledo	Leadership Academy	17				
2003	1	27		Snyder	Sandusky Register Interview	Sandusky	Lake Levels	4				
2003	1	28		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	150				XX
2003	1	29		Snyder	WCPN Radio Interview	Cleveland	Lake Levels					
2003	1	29		Snyder	John Rohrer Retirement	Columbus	OSU Extension					
2003	1	30		Lichtkoppler	OSU Extension Staff	Painesville	Dana Evaluation	4				
2003	1	30		Williams	Cuyahoga Rap	Brecksville	Sea Grant					
2003	1	31		Lichtkoppler	OSU Extension Staff	Painesville	Wait Evaluation	4				
2003	1	31		Williams	Offset Printing	Brecksville	Business Development	2				
2003	2	3		Lucente	Lucas County Staff	Toledo	Office Conference	12				
2003	2	3		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x			
2003	2	3		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	5				
2003	2	3		Snyder	Bassmasters Magazine Interview	Port Clinton	Gobies in Lake Erie	8				
2003	2	4		Kelch	Lorain Cty. Visitors Bureau sub-comm.	Lorain	Bureau policy and tourism issues	2				
2003	2	4		Kelch	Sea Grant Extension Staff	Elyria	Conf Call Winter Lecture	x				
2003	2	4		Lucente	Ottawa County	Oak Harbor	Business Retention & Expan.	2				
2003	2	4		Snyder	ANS HACCP Committee	Port Clinton	Massachusetts Program Planning	7				
2003	2	4		Snyder	Sea Grant Extension Staff	Port Clinton	Winter Lecture Conference Call	4				
2003	2	4		Williams	North Coast Growth alliance Team mtg	Cleveland	economic development	10				
2003	2	5		Kelch	WCPN Public Radio Interview	Cleveland	Lake Erie Dead Zone Concerns	4				XX
2003	2	6		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call	4			x	
2003	2	6		Lichtkoppler	Sea Grant Staff	Painesville	Conf Call re: Fish Ext Grant	2				
2003	2	6		Lucente	Jerry Thomas, OSU Extension	Toledo	PPST Visit	4				
2003	2	6		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	2				
2003	2	6		Williams	ACE Construction***	Cleveland	Business Development	2				
2003	2	7		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call	4			x	
2003	2	7		Lichtkoppler	Sea Grant Extension Staff	Painesville	Fish Extension Conference Call	4				
2003	2	7		Lucente	State Senators, Reps, Extension	Toledo	Legislative Visit/Tour Lucas Co.	12				
2003	2	7		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	4				
2003	2	7		Williams	Interstate Diesel Service**	Cleveland	Business Development	2				
2003	2	10		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call	4			x	
2003	2	10		Lichtkoppler	Sea Grant Staff	Painesville	Conf Call re: Grants ANS ? Fish e	2				
2003	2	10		Lucente	Greg Davis, OSU Extension	Toledo	PPST Visit	10				
2003	2	10		Lucente	GL Sea Grant Network	Toledo	Conference Call- GLSGN Conf.	16	x			
2003	2	10		Lucente	Public Officials, citizens	Toledo	Leadership Academy	4				
2003	2	10		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	20				
2003	2	10		Williams	PET Goals	Cleveland	Pre employment training	2				
2003	2	11		Lucente	Jim Wiedenheft, OSU Extension	Toledo	Conference Call- BRE Mig.	12				
2003	2	11		Williams	Cuyahoga Rap	Penisulla	Sea Grant	3				
2003	2	12		Hageman	Dana Oleskiewicz	Sandusky	OSU Extension Watershed Conference	7				
2003	2	12		Snyder	Ohio ANS Steering Committee	Columbus	2003 Initiatives	20				
2003	2	12		Williams	Pet Company Visit	Cleveland	Pre employment training					

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2003	2	13		Kelch	Westlake Sportsmans Club	Westlake	Lake Erie Dead Zone Presentation	65				
2003	2	13		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	15				
2003	2	13		Lucente	NW Ohio Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	2	13		Lucente	Hans Rosebrook, First Energy	Toledo	Last Patrol Museum Project	4				
2003	2	14		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call				x	
2003	2	14	16	Lichtkoppler	Anglers	Eastlane	Eastlake Fishing Symposium					XX
2003	2	14		Snyder	Great Lakes Sea Grant Network	Port Clinton	Fishery Leadership Institute Call	6				
2003	2	14		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	4				
2003	2	14		Williams	Limet Inc.	Cleveland	Business Development	2				
2003	2	14		Williams	Public Officials, citizens	Toledo	Leadership Academy	16	x			
2003	2	17		Williams	Pet-Budget	Cleveland	Pre employment training	20				
2003	2	18		Kelch	Governors SLAC Mtg.	Lorain	shipwreck, U/W preserve issues	19				
2003	2	18		Williams	Marcc-IT	Cleveland	Business Development	5				
2003	2	19		Kelch	OSUE Directors Internal A/C mtg.	Columbus	Extension Dept. Issues/concerns				x	
2003	2	19		Lichtkoppler	OSU Extension Staff	Painesville	Dave Evaluation	4				
2003	2	19		Williams	Ext. Solicitation Itr	Cleveland	Business Development	2				
2003	2	20		Kelch	Fin-Feather-Fur Outfitters Store	Ashland	Steelhead Education Seminar	142				
2003	2	20		Lichtkoppler	ARP Ashtabula River Partnership	Ashabula	ARP Cleanup	18				
2003	2	20		Snyder	Extension District Office Staff	Findlay	Staff Meeting	14				
2003	2	20		Williams	Spencer Forge	Medina	Business Development	4				
2003	2	21		Kelch	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8			x	
2003	2	21		Lichtkoppler	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8				
2003	2	21		Lucente	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8				
2003	2	21		Snyder	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8				
2003	2	21		Williams	Sea Grant	Columbus	Sea Grant	10				
2003	2	21		Williams	Black Bass Anglers Assoc.	Cleveland	Sea Grant	21				
2003	2	24		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x			
2003	2	24	26	Snyder	USFWS ANS-HACCP Training	Hadley, MA	ANS-HACCP Certification					
2003	2	24		Snyder	Columbus Dispatch Interview	Columbus	Lake Erie Fishing Outlook					XX
2003	2	24		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	16				
2003	2	26		Lucente	Ann Moore, Toledo Chamber Comm.	Toledo	Leadership Academy	2	x			
2003	2	27		Kelch	District Pond In-Service Conf Call	Elyria	pond in-service planning				x	
2003	2	27		Lucente	CBS Corridor Coalition	Toledo	Executive Mtg.				14	
2003	2	28		Lichtkoppler	LECO Lake Erie Coastal Ohio	Old Woman Creek	Ex Board meeting	5				
2003	2	28		Lucente	NW District	Findlay	Program Impact Planning In-Serv	28	x			
2003	2	28		Williams	EDN Storm water program	Orange	economic development	48				
2003	3	2		Williams	National Mig week	Chicago	Business Development	4				
2003	3	3		Kelch	Lake Erie Nature & Science Center	Bay Village	Leadership Academy	140				
2003	3	3		Lucente	Public Officials, citizens	Toledo	Steelhead Education Seminar	16	x			
2003	3	4		Hageman	Visitors to Stone Lab Winter Lecture	Columbus	FOSL Stone Lab Winter Lecture			200		
2003	3	4		Kelch	Stone Lab Winter Lecture	Columbus	Lake Erie Steelhead Angling Ed.	100				
2003	3	4		Lucente	Maumee RAP PO&E Team	Toledo	Outreach & Ed. Mtg.	5				
2003	3	4		Snyder	Stone Lab Winter Lecture	Columbus	Lake Erie Fishing Techniques	100				
2003	3	5		Williams	PET	Cleveland	Pre employment training	10				
2003	3	6		Lucente	Ohio BRE Team	Columbus	BRE Analysis Workshop	8				
2003	3	6		Williams	Succession Planning	Cleveland	Business Development	26				
2003	3	7		Lucente	GL Sea Grant Network	Toledo	Conference Call- GLSGN Conf.	10				
2003	3	8		Hageman	22nd Ohio Charter Captains Conf.	Sandusky	Charter Business Management	162				
2003	3	8		Hageman	Members-Pheasants Forever Chap291	Sandusky	Annual Banquet			375		
2003	3	8		Kelch	22nd Ohio Charter Captains Conf.	Sandusky	Contaminants in Lake Erie Fish	162				
2003	3	8		Lucente	22nd Ohio Charter Captains Conference	Sandusky	Charter Business Management	162				
2003	3	8		Snyder	22nd Ohio Charter Captains Conf.	Sandusky	Charter Business Management	162	x			
2003	3	10		Lucente	Jim Wiedenheft, OSU Extension	Genoa	BRE Business Visits	2	x			
2003	3	10		Lucente	Public Officials, Citizens	Toledo	Leadership Academy	16	x			

Mass Media includes hard-to-enumerate large audiences such as print and broadcast media and expositions

Table E-1: Ohio Sea Grant Extension Combined Activities 2003

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2003	3	10		Williams	PET	Cleveland	Pre employment training	10				
2003	3	11		Kelch	Great Lakes Sea Grant Network	Elyria	GLFLI conference call/planning				x	
2003	3	11		Lichtkoppler	GRP Grand River Partners	Jefferson	Partnership Quarterly Meeting	24				
2003	3	11		Lichtkoppler	Sea Grant Staff	Painesville	ANS GLFLI Grant	7				
2003	3	11		Lucente	Sea Grant Staff	Toledo	ConferenceCall- GLSG Fish.				8	
2003	3	11		Snyder	Great Lakes Sea Grant Network	Port Clinton	Fishery Leadership Institute Call	8				
2003	3	11		Williams	Interstate Diesel Service	Cleveland	Business Development	4				
2003	3	12		Lucente	Cathy Miller, Toledo CVB	Toledo	2003 West. LE Waterfront Guide	2	x			
2003	3	13		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2003	3	13		Lichtkoppler	Lake County Ext. Adv Comm	Painesville	OSU Extension Sea Grant Update	20				
2003	3	13		Williams	Extension fund development	Cleveland	Fund development	3				
2003	3	14		Hageman	Stone Lab Research Committee	Columbus	Stone Lab Research Endowment				6	
2003	3	14	23	Kelch	American Canadian Sport Show	Cleveland	Sea Grant exhibit, education					XX
2003	3	14		Snyder	OSU Extension - NW District	Findlay	Homeland Security Inservice				28	
2003	3	15		Kelch	American Canadian Sport Show	Cleveland	Lake Erie Dead Zone & angling	90				
2003	3	15	6, 20, 22 & 2	Lichtkoppler	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	16		Snyder	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	17	20	Hageman	Applicants for Stone Lab Employment	Columbus	Interviews for Spring/Summer '03			22		
2003	3	17		Kelch	American Canadian Sport Show	Cleveland	Lake Erie Dead Zone & angling	75				
2003	3	17		Lucente	Public Officials, Citizens	Toledo	Leadership Academy	16	x			
2003	3	17		Williams	OEAA	Columbus	Extension					
2003	3	17		Williams	PET	Cleveland	Pre employment training	12				
2003	3	18		Kelch	American Canadian Sport Show	Cleveland	Lake Erie Dead Zone & angling	40				
2003	3	18		Lichtkoppler	MARC Mentor Area Regional Coalition	Cleveland	Watershed Protection	9				
2003	3	18		Lucente	Cleveland Sports Show Patrons	Mentor	Sea Grant Information Booth					XX
2003	3	18		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	19		x		
2003	3	19		Snyder	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	19		Williams	Highland Equipment	Cleveland	Business Development	3				
2003	3	20		Lucente	Dawn Malone, Osu Extension	Toledo	Conference Call- Sea Grant Prop	2	x			
2003	3	20		Snyder	Extension District Office Staff	Findlay	Staff Meeting	11				
2003	3	20		Williams	CD Quarterly mtg.	Wooster	Extension	8				
2003	3	21		Hageman	FOSL Scholarship Committee	Columbus	2003 Stone Lab Scholarship Awards				7	
2003	3	21		Hageman	Ohio Chapter American Fish. Society	Reynoldsburg	Executive Committee Meeting					
2003	3	21		Lichtkoppler	LECO Lake Erie Coastal Ohio	Old Woman Creek	Full Board Meeting	9				9
2003	3	21		Lucente	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	21		Snyder	Lake Erie Coastal Ohio	Old Woman Creek	Full Board Meeting	9				
2003	3	22		Snyder	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	23		Hageman	Cleveland Sports Show Audiences	Cleveland	Ohio Sea Grant Display- L. Erie Info					XX
2003	3	23		Lucente	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	24		Hageman	Ohio Rep. Chris Redfern	Sandusky	Legislators Visit of Aug 14-15			4		
2003	3	24		Lucente	Public Officials, citizens	Toledo	Planning Committee Meeting	16	x			
2003	3	25		Snyder	Ohio Envirothon	Ottawa Nat. Wildl. Ref.	Leadership Academy	21				
2003	3	26		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	3	26		Lichtkoppler	ARP Ashabula River Partnership	Ashabula	Project Coordination	14				
2003	3	26		Snyder	Maumee Mirror Interview	Maumee	2003 Walleye Outlook					XX
2003	3	27		Kelch	WEOL Radio interview	Elyria	Lake Erie Dead Zone Issues					XX
2003	3	27		Lucente	OSU Exten. NW District	Findlay	Ottawa County BRE Project	5				
2003	3	28		Snyder	Rochester Inst. Tech. Video Interview	Port Clinton	Lake Erie Monster Documentary					XX
2003	3	29		Snyder	Western Basin Charter Boat Assoc.	Dundee, MI	2003 Lake Erie Update	22				
2003	3	31		Lucente	Don Lacy, OSU Extension	Toledo	Power Point Pres.-Leadership	2		x		
2003	4	1		Kelch	Central Basin Charterboat Assn. Mtg.	Lorain	Lake Erie Dead Zone & angling	27				
2003	4	1		Lichtkoppler	OSU Extension Faculty	Columbus	P&T		10			
2003	4	1		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayfly Outlook					XX
2003	4	2		Hageman	Bill Schultz	Gibraltar Island	Project Learning Tree Pre-Tour	3				

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2003	4	2		Kelch	South Cuyahoga Sportsmans Assn.	Cleveland	Pond & lake mgt. education	65				
2003	4	2	3	Lichtkoppler	Agency officials, citizens, SG Staff	Buffalo, NY	Botulism Workshop				70	
2003	4	2	5	Lucente	Wisconsin Comm. Leadership Conf.	Wisconsin Rapids, WI	Leadership Presentation	150		x		
2003	4	3		Snyder	Rotary Club Members	Bowling Green	Lake Erie Update	40				
2003	4	4		Snyder	Certified Crop Advisors	Oak Harbor	Lake Erie Buffer Program	14				
2003	4	7		Lucente	Lucas County Staff	Toledo	Staff Mtg.	12				
2003	4	8		Kelch	Sea Camp Planning Mtg.	Columbus	planning for 20th Sea Camp	18				
2003	4	8		Lucente	Ottawa County BR&E Project	Port Clinton	Business Visits	15		x		
2003	4	9		Hageman	Aquatic Science Instructors	Findlay, Ohio	Hooked on Fishing, Not on Drugs				25	
2003	4	9		Kelch	South Cuyahoga Sportsmans Trustees	Cleveland	pond & lake mgt. education	22				
2003	4	9		Lucente	D. Kraybill, D. Malone, OH BR&E	Toledo	Conference Call- S.G. Pre-Prop.	3		x		
2003	4	10		Hageman	Stone Lab Partners	Put-in-Bay, Ohio	Spring Planning Meeting				18	
2003	4	10		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2003	4	10		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	4	11		Kelch	OSU Ag. Faculty Council Mtg.	Columbus	Faculty issues, university senate	27				
2003	4	11		Lucente	Ottawa County BR&E Project	Oak Harbor	Business Visits	12		x		
2003	4	12		Hageman	College of Wooster	Gibraltar Island	Aquatic Science Workshop			18		
2003	4	14		Hageman	Lake High School, Uniontown	Gibraltar Island	Aquatic Science Workshop	46				
2003	4	14		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Data Analysis-Leadership	2		x		
2003	4	14		Snyder	Portage Elementary Students	Port Clinton	Hooked on Fishing - Not Drugs	53				
2003	4	15	18	Hageman	Ryan Sackstaedler	Gibraltar Island	Shadov, Tiffin H.S.	1				
2003	4	15		Kelch	Lorain Cty. Bass Busters	Elvria	Lake Erie fishery update	35				
2003	4	15		Lichtkoppler	NE Ohio SG Committee	Unionville	Sea Grant Update		7			
2003	4	15		Lichtkoppler	Citizens	Cleveland	Lake Erie Update	6				
2003	4	15		Snyder	Mayor's Core Advisory Group	Port Clinton	Transient Marina Development	17				
2003	4	16		Hageman	Melanie Mark	Gibraltar Island	Shadov, Sandusky M.S.	1				
2003	4	16		Hageman	South Amherst M.S.	Gibraltar Island	Aquatic Science Workshop	34				
2003	4	17		Kelch	District Pond In-Service planning mtg.	Wooster	pond in-service planning	14				
2003	4	17		Lichtkoppler	Anglers	Fairport	Lake Erie update	44				
2003	4	17		Lucente	Ottawa County BR&E Project	Oak Harbor	Business Visits	10		x		
2003	4	17		Snyder	District Extension Staff	Findlay	Extension Update	12				
2003	4	22		Lucente	Allen County Chamber of Commerce	Lima	Leadership Academy Present.	5		x		
2003	4	23		Hageman	Lakota M.S., Amsten	Gibraltar Island	Aquatic Science Workshop			33		
2003	4	23	25	Hageman	Sewickley M.S., Pittsburgh, PA	Gibraltar Island	Aquatic Science Workshop	62				
2003	4	23		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	18				
2003	4	23		Hageman	ODNR Public Hearing KLUP	Port Clinton	Underwater Preserve Hearing				x	
2003	4	24		Hageman	State Rep. Chris Redfern	Put-in-Bay, Ohio	Legislative Visit Planning Meeting				9	
2003	4	24		Kelch	Fin-Feather-Fur Outfitters Store	Ashland	L-Erie Fishery update/seminar	127				
2003	4	25		Hageman	Pheasants Forever State Council	Findlay, Ohio	Roadside Mowing				8	
2003	4	26		Hageman	Friends of Stone Lab	Gibraltar Island	Spring Work Weekend				24	
2003	4	26	27	Hageman	Village of Put-in-Bay	Put-in-Bay Town Hall	Dedication of Town Hall Photo's	90				
2003	4	26	30	Lichtkoppler	Sea Grant Staff	Galveston, TX	Sea Grant Week				120	
2003	4	28	29	Hageman	Mills School I, Sandusky	Gibraltar Island	Aquatic Science Workshop			47		
2003	4	29	30	Hageman	Mills School IV, Sandusky	Gibraltar Island	Aquatic Science Workshop	38		43		
2003	4	29		Snyder	Fullton County Farm Pond Owners	Fayette	Pond Management Techniques	25				
2003	4	30		Kelch	North Coast Bass Anglers Club	Avon Lake	Lake Erie Fishery Update	14				
2003	4	30		Lucente	Ottawa County BR&E Project	Oak Harbor	Business Visits	14		x		
2003	4	30		Snyder	Ohio High School Students	Ottawa NWR	Ohio Envirothon	220				
2003	5	1	2	Hageman	Mills School IV, Sandusky	Gibraltar Island	Aquatic Science Workshop			48		
2003	5	1	10	Kelch	Promotion/Tenure Via Review-chairma	Elyria	review/comment on vitas for P/T		x			
2003	5	2		Hageman	Kenwood Elementary, Bowling Green	Gibraltar Island	Aquatic Science Workshop			71		
2003	5	2	4	Hageman	O.S.U. Plankton Class	Gibraltar Island	Aquatic Science Workshop			28		
2003	5	2		Kelch	USCAE Public Hearing, dredging	Lorain	Lorain Port Authority, dredging				x	
2003	5	2		Snyder	Longnecker Trout Farm	Castalia	Aquaculture Development	3				

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2003	5	3		Hageman	O.S.U. Geology Class	Gibraltar Island	Aquatic Science Workshop			15		
2003	5	5		Hageman	Meadowlawn School I, Perkins Twp	Gibraltar Island	Aquatic Science Workshop	55				
2003	5	5	6	Hageman	Millis School V, Sandusky	Gibraltar Island	Aquatic Science Workshop			44		
2003	5	5		Lucente	Lucas County Staff	Toledo	Staff Mtg.	12				
2003	5	5		Snyder	Jefferson Elementary Students	Port Clinton	Hooked on Fishing - Not Drugs	61				
2003	5	6		Hageman	Meadowlawn School II, Perkins Twp	Gibraltar Island	Aquatic Science Workshop			55		
2003	5	6	7	Hageman	Millis School VI, Sandusky	Gibraltar Island	Aquatic Science Workshop			47		
2003	5	6		Kelch	Kelley's Island 4-H Camp work day	Kelley's Island	Maintain/repair Sea Camp gear				x	
2003	5	6		Williams	Ed Barker, Comm. Wealth Ventures	Cleveland	Business Development	2				
2003	5	7		Hageman	Meadowlawn School III, Perkins Twp	Gibraltar Island	Aquatic Science Workshop			55		
2003	5	8		Hageman	Meadowlawn School IV, Perkins Twp	Gibraltar Island	Aquatic Science Workshop			55		
2003	5	8	9	Hageman	West Carrollton M.S.	Gibraltar Island	Aquatic Science Workshop			42		
2003	5	8		Kelch	West Cleveland Walleye Assn. Mtg.	Cleveland	Lake Erie Update/Fisheries	35				
2003	5	8		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2003	5	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	5	9		Hageman	Mt. Gilead H.S. Nat'l Honor Society	Gibraltar Island	Facilities Tour			10		
2003	5	9		Hageman	Ohio Chapter American Fisheries Soc	Columbus	Wetlands Workshop II	29		x		
2003	5	9		Lucente	Ohio Chapter American Fisheries Soc	Columbus	Wetlands Workshop II				29	
2003	5	9		Snyder	Ohio Chapter American Fisheries Soc	Columbus	Wetlands Workshop II				29	
2003	5	10		Hageman	Muskingum College	Gibraltar Island	Facilities Tour			15		
2003	5	12	13	Hageman	Woodside M.S., Ft. Wayne, IN	Gibraltar Island	Aquatic Science Workshop			29		
2003	5	13		Hageman	St. Clement School, North Royalton	Gibraltar Island	Facilities Tour			66		
2003	5	13		Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop			25		
2003	5	13	14	Hageman	Worthington Christian H.S.	Gibraltar Island	Aquatic Science Workshop			19		
2003	5	13		Kelch	Lorain Cty. Extension Office Conf.	Elyria	Lake Erie Dead Zone update	14				
2003	5	13		Lucente	Greg Davis, OSU Extension	Findlay	Proposal Development-Leader.	2		x		
2003	5	13		Williams	Web site development Jeff Beebe	Cleveland	Extension	3				
2003	5	13		Williams	Social-economic work group	Peninsula	Sea Grant	12				
2003	5	14		Hageman	Westside Montessori, Toledo	Gibraltar Island	Aquatic Science Workshop			50		
2003	5	14	17	Hageman	Bloom-Carroll H.S.	Gibraltar Island	Aquatic Science Workshop			52		
2003	5	14	15	Lichtkoppler	Students (4th, 5th & 6th grade)	Ashabula	Aquatic Exotics ANS Waterway Ac	90				
2003	5	14		Williams	Agent's staff mtg	cleveland	Extension	6				
2003	5	14		Williams	National TBZ	Cleveland	Business Development	12				
2003	5	15		Kelch	Lorain Cty. Visitors Bureau sub-comm	Lorain	Policy sub-committee mtg.	8				
2003	5	15		Williams	PET	Cleveland	Pre employment training	10				
2003	5	16		Hageman	O.S.U., Lima, Reaching out to Youth	Gibraltar Island	Aquatic Science Workshop			27		
2003	5	16		Hageman	State Rep. Chris Redfern	Gibraltar Island	Legislative Visit Planning Meeting			17		
2003	5	16		Lucente	Ottawa County BR&E Project	Put-In-Bay	Business Visits	16		x		
2003	5	16		Snyder	Lutz Elementary Students	Fremont	Science Fair Judging	125				
2003	5	17	18	Hageman	O.S.U. Res. Hall	Gibraltar Island	Leadership Retreat			8		
2003	5	18		Kelch	Sportsmans Gun&Reel Club	Lorain	Lake Erie Update/angling	27				
2003	5	19		Hageman	All Saints Catholic School, Rossford	Gibraltar Island	Aquatic Science Workshop			32		
2003	5	19	20	Hageman	Perry/McCord M.S., Worthington	Gibraltar Island	Aquatic Science Workshop			78		
2003	5	19		Lucente	Ohio Extension Agents Assoc.	Columbus	OEAA Board Mtg.				24	
2003	5	19		Williams	OEAA	Columbus						
2003	5	20		Hageman	Elderhostel II	Gibraltar Island	Aquatic Science Workshop			25		
2003	5	20	21	Hageman	Toledo Public School Horizon Program	Gibraltar Island	Aquatic Science Workshop			50		
2003	5	20		Lucente	Ottawa County BR&E Project	Oak Harbor	Task Force Mtg.	10		x		
2003	5	21		Hageman	Oregon City Gifted & Talented	Gibraltar Island	Aquatic Science Workshop			22		
2003	5	21	22	Hageman	Laurel Elem., Shaker Hts	Gibraltar Island	Aquatic Science Workshop			50		
2003	5	22		Hageman	John Moses	Gibraltar Island	Facilities Tour	3				
2003	5	22	23	Hageman	Englewood Elementary	Gibraltar Island	Aquatic Science Workshop			22		
2003	5	22	23	Hageman	Erwine M.S., Akron	Gibraltar Island	Aquatic Science Workshop			44		
2003	5	22		Kelch	Lorain Port Authority	Lorain	Harbor and waterfront planning mtg	12			x	

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2003	5	22		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.				14	
2003	5	22		Snyder	Great Lakes Fisheries Leadership Inst.	Port Clinton	Planning Conference Call	8				
2003	5	22		Williams	Issue forum	Cleveland	Bio Foods forum	5				
2003	5	22		Williams	Cuyahoga Rap	Pensilla	Sea Grant	15				
2003	5	23		Hageman	Barb Roth	Gibraltar Island	Facilities Tour	8				
2003	5	23		Williams	Inservice-Technology update	Wooster	OSU Extension					
2003	5	27		Hageman	Immaculate Conception, Bellevue	Gibraltar Island	Aquatic Science Workshop			72		
2003	5	27		Hageman	OSU Sea Grant Staff	Port Clinton	Program Planning				8	
2003	5	27		Kelch	OSU Sea Grant Staff	Port Clinton	Program Planning	8				
2003	5	27		Lucente	OSU Sea Grant Staff	Port Clinton	Program Planning				8	
2003	5	27		Lucente	Ottawa County BR&E Project	Port Clinton	Program Planning					
2003	5	27		Snyder	Ottawa County BR&E Project	Oak Harbor	Communications Planning Mtg.	8	x			
2003	5	27		Snyder	OSU Sea Grant Staff	Port Clinton	Program Planning	8	x			
2003	5	27		Williams	OSU Sea Grant Staff	Port Clinton	Program Planning	8			10	
2003	5	28		Hageman	Put-in-Bay Faculty & Guests	PIB School	Student Presentations					
2003	5	28		Hageman	Whiteford M.S., Ottawa Lake, MI	Gibraltar Island	Aquatic Science Workshop			66		
2003	5	28	29	Hageman	Miamisburg City School	Gibraltar Island	Aquatic Science Workshop			46		
2003	5	28		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	22				
2003	5	28		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashabula	Ashabula River Cleanup	34				
2003	5	28		Lucente	NW District Leadership Roundtable	Findlay	Leadership Roundtable Mtg.	26				
2003	5	28		Snyder	Toledo Blade Interview	Port Clinton	Largemouth Bass Populations					XX
2003	5	28		Snyder	Columbus Dispatch Interview	Port Clinton	Lake Erie History					XX
2003	5	28		Williams	EDN Strategic Mgt. consult Video Confe	Westlake		40				
2003	5	29		Hageman	Springfield South H.S.	Gibraltar Island	Aquatic Science Workshop			6		
2003	5	29	30	Hageman	Jones M.S., Hilliard	Gibraltar Island	Aquatic Science Workshop			36		
2003	5	29		Kelch	Central Basin Charterboat Assn. Mtg.	Lorain	Proposed fishery regs. update	18				
2003	5	29		Lichtkoppler	Sea Grant & Agency Staff	Columbus	SG Preproposal Review Team	9				
2003	5	29		Snyder	Sea Grant & Agency Staff	Columbus	SG Preproposal Review Team	9				
2003	5	30		Hageman	Jones Jr High, Toledo	Gibraltar Island	Aquatic Science Workshop			33		
2003	5	30		Hageman	Lake High School, Millbury	Gibraltar Island	Aquatic Science Workshop			19		
2003	5	30		Hageman	Elyria Northwood	Gibraltar Island	Facilities Tour	54				
2003	5	30		Hageman	Jay Payne	Gibraltar Island	Facilities Tour	3				
2003	5	30		Hageman	Project Learning Tree Nat'l Conference	Gibraltar Island	Facilities Tour	99				
2003	5	30		Hageman	Central State University, Wilberforce	Gibraltar Island	Aquatic Science Workshop			10		
2003	6	2		Hageman	Grizel M.S. Dublin	Gibraltar Island	Aquatic Science Workshop			82		
2003	6	2		Hageman	Put-in-Bay Chamber of Commerce	Put-in-Bay	Underwater Clean-up Mtg				8	
2003	6	3		Hageman	Terra Community College, Fremont	Gibraltar Island	Facilities Tour			48		
2003	6	3		Hageman	Elderhostel III	Gibraltar Island	Aquatic Science Workshop			19		
2003	6	3		Hageman	Buckeye Valley M.S., Delaware	Gibraltar Island	Aquatic Science Workshop			47		
2003	6	3	5	Lucente	Toledo Chamber of Commerce	Toledo	Leadership Academy Present.	15	x			
2003	6	3		Williams	Downtown partnership	conference	Cleveland					
2003	6	4		Hageman	O.S.U.Lorain Co. Extension Staff	Gibraltar Island	Aquatic Science Workshop	15				
2003	6	4		Kelch	Extension Office Retreat-Stone Lab	Put-in-Bay	Group leader, education	17				
2003	6	5		Kelch	Sea Camp Planning Mtg.	Elyria	cont call-camp.planning	7				XX
2003	6	5		Kelch	WZMW radio interview-Dan Armitage	Columbus	Lake Erie Fishing					
2003	6	5		Lucente	Lucas County Advisory Cabinet	Toledo	Sea Grant Projects	16				
2003	6	5		Snyder	Clear Channel Radio Interview	Port Clinton	Pain Awareness in Fish					XX
2003	6	5		Williams	Made in America-entrepur seminar	Seminar	Cleveland		19			
2003	6	6		Hageman	Our Lady of Mt. Carmel, N. Royalton	Gibraltar Island	Facilities Tour			35		
2003	6	6		Hageman	Pearl Road Elem. Parma	Gibraltar Island	Aquatic Science Workshop			55		
2003	6	6		Hageman	Columbus Athletic Club	Catawba Island	Judge Waileye Tournament	90				
2003	6	6		Williams	CD outreach conference	Mtg	Cleveland			8		
2003	6	8		Hageman	EEOB 125	Gibraltar Island	Stone Lab Orientation	13				
2003	6	8	11	Lichtkoppler	Sea Grant Staff	Burlington, VT	GL SG Network Meeting	50				
2003	6	8	11	Lucente	GLSG Network Mtg.	Burlington, VT	Network Meeting				80	

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2003	6	8	11	Snyder	Great Lakes Sea Grant Network	Burlington, VT	Network Conference	150				
2003	6	10		Williams	business Excel/Mcdonalds	Business Dev	Cleveland	18				
2003	6	11		Hageman	Kent State/Central State Universities	Gibraltar Island	Aquatic Science Workshop			7		
2003	6	11		Kelch	OSUE Directors Internal A/C mtg.	Columbus	Extension Dept. Issues/concerns	15				
2003	6	11		Williams	Agf Mtg	OSU Business	Cleveland	6				
2003	6	12		Hageman	Girl Scout Troop 1225, Columbus	Gibraltar Island	Facilities Tour			12		XX
2003	6	12		Kelch	WEOL Radio interview	Elyria	Lake Erie fishery update/angling					
2003	6	12		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	15				
2003	6	12		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	6	12		Williams	City Club	Forum	Cleveland					
2003	6	13		Hageman	O.S.U. Watershed District Agents	Gibraltar Island	Workshop Planning Mtg			5		
2003	6	13		Snyder	OSUE Northwest District	Findlay	Applied Research Inservice			18		
2003	6	15		Hageman	EEO 126, Geo 107, Nat 611	Gibraltar Island	Stone Lab Orientation	35				
2003	6	15		Kelch	Issac Walton League Handicap Day	Lagrange	angling, fish prep, cleaning edu.	35				
2003	6	16		Hageman	Dick Reinhold	Gibraltar Island	Facilities Tour	4				
2003	6	16		Lichtkoppler	Exchange Club	Painesville	Lake Erie Update	21				
2003	6	16		Lucente	Ohio Extension Agents Assoc.	Columbus	OEAA Mtg.				26	
2003	6	17		Kelch	Ag. Faculty Council sub-comm. Mtg	Columbus	university senate issues	8				
2003	6	17		Lichtkoppler	MARC	Mentor	SAMP work	9				
2003	6	17		Snyder	Lucas County Farm Pond Owners	Whitehouse	Pond Management Techniques	32				
2003	6	17		Williams	business Excel/Mcdonalds	Business Dev	Cleveland	18				
2003	6	18		Lucente	Fred Snyder, OSU Sea Grant	Port Clinton	Mentoring Activities				2	
2003	6	18		Snyder	District Extension Staff	Findlay	Extension Update	11				
2003	6	19		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. Herdendorf, Shipwrecks			52		
2003	6	19		Lucente	C. Van Sickle, C. Bailey, Toledo CH.	Toledo	Leadership Academy Planning	3		x		XX
2003	6	19		Snyder	Toledo Blade Interview	Port Clinton	Mayfly Update					
2003	6	20		Hageman	Linda Jones, Young Scholars Program	Gibraltar Island	Facilities Tour	2				
2003	6	20		Kelch	Ag. Faculty Council sub-comm. Mtg	Columbus	university senate issues	4				
2003	6	20		Lichtkoppler	Lake Erie Coastal Ohio	Toledo	Coastal Tourism Development	15				
2003	6	20		Snyder	Coastal Ohio Board Meeting	Toledo	Administrative Update	15				
2003	6	22		Hageman	Term One Students	Gibraltar Island	Stone Lab Orientation	52				
2003	6	23		Hageman	State Rep. Chris Redfern	Gibraltar Island	Legislative Visit Planning Meeting			8		
2003	6	23		Hageman	Peitrasek	Gibraltar Island	Facilities Tour			6		
2003	6	23		Lucente	NC OH Regional Econ. Dev. Assoc.	Clyde	NCOREDA Mtg.	4		x		
2003	6	23		Snyder	Sandusky Register Interview	Port Clinton	Mayfly Update					XX
2003	6	23	26	Williams	NPE	Business Dev	Chicago					
2003	6	24		Hageman	Dr. Jane Forsyth	Bowling Green	Provide Transportation to Stone Lab				2	
2003	6	24		Hageman	Joan Marks, Bedford	Gibraltar Island	Facilities Tour			4		
2003	6	24		Kelch	Elyria Rotary Club presentation	Elyria	Lake Erie Dead Zone, angling	37				
2003	6	24	25	Lichtkoppler	Scientists & Agency Officials (IAGLR)	Chicago, IL	SG Outreach & Ohio GAP	42				
2003	6	24		Lucente	Ohio NEMO Program- Focus Gorup	Huron	NEMO Focus Group	20			x	
2003	6	24		Williams	business Excel/Mcdonalds	Business Dev	Cleveland	18				
2003	6	25		Hageman	Dr. Larry Capitani	Gibraltar Island	Animal Protocol Inspection				4	
2003	6	25		Hageman	Put-in-Bay Committee	Gibraltar Island	Ohio Bicentennial Events at Put-in-Bay			8		
2003	6	25		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	6	25		Lucente	Jerry Thomas, OSU Extension	Toledo	PPST Visit				2	
2003	6	25		Lucente	Ottawa County BR&E Announcement	Port Clinton	Announcement Mtg.	20		x		
2003	6	25		Snyder	Press, Elected Officials, ODNR	Port Clinton	Fish Ohio Day on Lake Erie					XX
2003	6	26		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. Forsyth, What Rocks Reveal			55		
2003	6	26		Hageman	Ottawa Nat'l Wildlife Refuge	Gibraltar Island	Aquatic Science Workshop		15			
2003	6	26		Kelch	GM Retired Mgt. Workers presentation	Lorain	Lake Erie update, Dead Zone	55				
2003	6	26		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashtabula	Ashtabula River Cleanup	19				
2003	6	26		Lucente	BGSU Graduate Class	Bowling Green	Econ. Dev. in Western Lake Erie	10			x	
2003	6	26		Williams	business Excel/Mcdonalds	Business Dev	Cleveland	18				

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2003	6	27		Hageman	O.S.U. Wooster Police, Craig Probor	Gibraltar Island	Facilities Tour		1			
2003	6	28		Kelch	NWTF Women in the Outdoors Day	Medina	angling, fish prep, cleaning edu.	95				
2003	6	29		Hageman	EEO 522	Gibraltar Island	Stone Lab Orientation		7			
2003	6	30		Williams	German Rec.	Business Dev	Akron	11				
2003	*4/5	30	1	Hageman	Millis School III, Sandusky	Gibraltar Island	Aquatic Science Workshop			50		
2003	7	1		Williams	Lorain Chamber	Lorain	Business Dev.					
2003	7	2		Snyder	WKSU Radio (Kent, OH) interview	Port Clinton	Lake Erie Erosion					XX
2003	7	2		Williams	Astro Model Dev	Eastlake	company visit	3				
2003	7	3		Hageman	Sea Grant Agents, ODNR Staff	Sandusky	2004 Fishing Regulations	9				
2003	7	3		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Dr. Tom Bridgeman, "Lake Victoria"			36		
2003	7	3		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Rockwell, "USEPA L. Erie Research"			43		
2003	7	3		Lucente	Sea Grant Agents, ODNR Staff	Sandusky	2004 Fishing Regulations	9				
2003	7	3		Snyder	Sea Grant Agents, ODNR Staff	Sandusky	2004 Fishing Regulations	9				
2003	7	3		Williams	Web site training	Mentor	education					
2003	7	5		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	Lake Erie Education teaching	80		x		
2003	7	5	10	Lichtkoppler	Citizens	Mentor	Marsh Management	8				
2003	7	6		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	Lure making, fish i.d., biology	80				
2003	7	7		Hageman	Sally Miller / Sue Dorrance	Gibraltar Island	Prepare for Plant Pathology Class				4	
2003	7	7		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	Shorkeling, shipwreck history	80				
2003	7	7		Lucente	Don Lacy, OSUJE	Toledo	Local Govt. Leadership Dev.	2				
2003	7	8		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	angling techniques, aquatic bio.	80		x		
2003	7	8		Lichtkoppler	MARC/SAMP	Mentor on the Lake	Planning	9				
2003	7	8		Williams	Columbus-Tax Credit committee	Columbus	Business Dev.					
2003	7	9		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	fish cleaning, fish prep., handling	80				XX
2003	7	9		Snyder	Associated Press Interview	Port Clinton	Bait & Tackle Stores					
2003	7	9		Williams	Agt. Mtg	Cleveland	OSU Extension Mtg.	5				
2003	7	10		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Jeff Tyson, "2004 Fishing Regulations"			30		
2003	7	10		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. David Smith, "Ohio Aquaculture"			47		
2003	7	10		Lucente	NW OH Regional Econ. Devl. Assoc.	Toledo	NORED Mtg.				44	
2003	7	10		Snyder	Sea Grant Network Conference Call	Port Clinton	Grt Lks Fish Ldrshp Inst.			8		
2003	7	10		Williams	Business Excel	Greene County	Business Dev.	4				
2003	7	12		Hageman	Kent State Univ. Geology Department	Gibraltar Island	Facilities Tour			20		
2003	7	12		Hageman	Julie Sipe	Gibraltar Island	Facilities Tour			5		
2003	7	13		Hageman	EEO 692	Peach Point Rsch Lab	Ichthyoplankton Workshop	10				
2003	7	14		Hageman	Jake Housh, O.S.U.	Stone Lab	Stone Lab Virtual Tour	1				
2003	7	15		Hageman	Westerville North H. S.	Gibraltar Island	Distance Learning Program, "Fish	10				
2003	7	15		Kelch	Governors SLAC Mtg. sub-committee	Lorain	emergency mtg./concerns/issues	10				
2003	7	15		Lichtkoppler	Lake Erie Protection Fund	Cleveland	Preproposal Review Team	15				
2003	7	15	19	Lucente	Assoc. of Leadership Educators Conf.	Anchorage, AK	Leadership Educators	65				
2003	7	16		Hageman	Ohio Chap American Fisheries Society	Columbus	Aquatic Habitat Committee	6			6	
2003	7	16		Lichtkoppler	City Officials	Mentor	Shamrock Development & Mentor	4				
2003	7	16		Lichtkoppler	City Officials	Painesville	Shamrock Development & Mentor	4				
2003	7	17		Hageman	Cope Family	Gibraltar Island	Facilities Tour			2		
2003	7	17		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Jason Porter, "Microbes in Lake Erie"			37		
2003	7	17		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. Gail Krantzberg, "Role of IJC"			42		
2003	7	17		Kelch	Cleveland Fishing Association	Cleveland	ANS update, fishery concerns	45				
2003	7	17		Williams	legislative visits	OSU Ext.	Cleveland	4				
2003	7	18		Williams	Retention calls company visits	Cleveland	Business Dev.					
2003	7	20		Kelch	Sportsmans Gun&Reel Club	Lorain	Fish Contaminants, safety	34				
2003	7	20	24	Lucente	Comm. Dev. Society Conf.	Ithaca, NY	Comm. Dev. Society Conf.	210				
2003	7	22		Kelch	Managing Ponds: Resource In-Service	Wooster	Fish Facts, Fish Habitat	80		x		
2003	7	22		Snyder	Managing Ponds: Resource In-Service	Wooster	Pond Ecology	80				
2003	7	22		Williams	Downtown partnerships	Cleveland	Business Dev.	18				
2003	7	23		Kelch	Managing Ponds: Resource In-Service	Wooster	ANS Control, Small Scale Aquac.	80		x		

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2003	7	23		Lichtkoppler	College Students & Teachers	Lake Erie Coastline	Coastal Geology (Dr. Krissek's Clg	9				
2003	7	24		Hageman	Term II Students	Gibraltar Island	Stone Lab Orientation	11				
2003	7	24		Hageman	COSI (Toledo)	Gibraltar Island	Aquatic Science Workshop			15		
2003	7	24		Kelch	Steelhead Research Survey Mgt	Painesville	Steelhead survey data mtg.	2				
2003	7	25		Hageman	George Wagner	Gibraltar Island	Facilities Tour			3		
2003	7	25		Hageman	Campbell Family	Gibraltar Island	Facilities Tour			2		
2003	7	27		Hageman	EEO 125w08	Gibraltar Island	Stone Lab Orientation			13		
2003	7	28		Hageman	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning				8	
2003	7	28		Kelch	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Lichtkoppler	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Lucente	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10		8		
2003	7	28		Snyder	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Williams	PET	Columbus	Sea Grant updates/planning	10				
2003	7	28		Williams	PET	Cleveland	Business Dev.	32				
2003	7	30	2-Aug	Hageman	Photography Students	Gibraltar Island	Ian Adams Photo Workshop			7		
2003	7	30		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	7	30		Williams	McDonalds	Cleveland	Business Dev.					
2003	7	31		Hageman	Envirothon Students	Gibraltar Island	Facilities Tour			7		
2003	7	31		Hageman	Hageman	Gibraltar Island	Ian Adams, "Ohio: A Bicentennial Portrait"			46		
2003	7	31		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. David Horn, "Island Butterflies"			60		
2003	7	31		Hageman	Visitors to Guest Lecture	Gibraltar Island	Legislative Meeting	125				
2003	7	31		Lucente	Toledo Area Metro. Council of Govt.	Put-In-Bay	Cleveland	3				
2003	7	31		Williams	Green Bldg Lorain	OSU Ext.	Cleveland					
2003	8	1		Hageman	Lorain County Community College	Gibraltar Island	Aquatic Science Workshop			16		
2003	8	1		Kelch	Aqua Amigos Dive Club	Cleveland	Underwater preserves update	27				
2003	8	2		Hageman	State Chapter, Pheasants Forever	Warren	Summer Meeting				24	
2003	8	4	3	Hageman	Dave Emerling	Gibraltar Island	Facilities Tour			5		
2003	8	4		Kelch	Lorain Rotary Club	Lorain	Lake Erie Dead Zone	39				
2003	8	4		Williams	Staff Mtg	Growth Assoc.	Cleveland					
2003	8	4		Williams	PET	Cleveland	Business Dev.					
2003	8	4		Hageman	Stone Lab Partners	Columbus	Courier Run			10		
2003	8	5		Kelch	Lake Erie Nature & Science Center	Bay Village	New OSG Exhibit-Dead Zone					XX
2003	8	5		Lichtkoppler	GLERL ECO Forecasting	Ann Arbor, MI	Ecological Forecasting Discussion	21				
2003	8	5	6	Williams	Doing what is necessary	Cleveland	workshop					
2003	8	5		Hageman	Dave Frederick	Gibraltar Island	Facilities Tour			6		
2003	8	6		Williams	Sustainable Bldg.	Huron	workshop					
2003	8	7		Hageman	G.L. Ecosystem Rsch Consortium	Gibraltar Island	Annual Summer Meeting				31	
2003	8	7		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Jennifer Morgan, "Phragmites"			42		
2003	8	7		Hageman	Visitors to Guest Lecture	Gibraltar Island	Roger Knight, "Lake Erie Fish Mgmt"			53		
2003	8	7		Kelch	Westlake Sportsmans Club	Westlake	Lake Erie angling, update	65				
2003	8	7		Lichtkoppler	Port Sub-committee	Cleveland	Sea Grant Outreach	35				
2003	8	7		Williams	AAPA HARBORS	Cleveland	conference					
2003	8	7	8	Hageman	OSU Extension, West Division	Gibraltar Island	Office Conference			14		
2003	8	8		Hageman	Boy Scout Troop #369, Columbus	Gibraltar Island	Facilities Tour			15		
2003	8	8		Lucente	West District Office	Put-In Bay	Strategic Planning Retreat	20				
2003	8	10		Hageman	EEO 125w10, EEO 693	Gibraltar Island	Stone Lab Orientation	23				
2003	8	10	16	Snyder	EEOB 125 Students	Stone Lab	Aquatic Biology, 3 credit hours	50	x			
2003	8	11		Hageman	Linda Heyl & Potential Donors	Gibraltar Island	Facilities Tour	4				
2003	8	11		Lichtkoppler	Fish Tumor Subcommittee	Painesville	Fish Tumors Conf Call	6				
2003	8	11		Williams	PET	Cleveland	Business Dev.					
2003	8	11		Hageman	Dr. Oliver, Heidelberg College	Gibraltar Island	Facilities Tour	3				
2003	8	12		Kelch	Vermilion Lions Club	Gibraltar Island	Lake Erie Dead Zone	35				
2003	8	12		Kelch	Lorain Cty Extension Pond Seminar	Vermilion	pond mgt education, biology	45				
2003	8	12		Lucente	Marion County Extension Office	Marion	Local Govt. Leadership Program	2	x			
2003	8	12		Hageman	Put-in-Bay Nature Camp	Gibraltar Island	Facilities Tour / Activities			18		

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2003	8	13		Kelch	Lorain Cty. Visitors Bureau Sub-comm	Lorain	LCVB Policy issues	8	x			
2003	8	13		Williams	AGT. MTG	Cleveland	Agent Meeting					
2003	8	14		Hageman	Ohio Legislators	Gibraltar Island	Facilities Tour / Activities			175		
2003	8	14		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Don Guy, "Beach Nourishment"			30		
2003	8	14		Hageman	Visitors to Guest Lecture	Gibraltar Island	John Kleberg, "Jay Cooke"			42		
2003	8	14		Lichtkoppler	Ohio Legislators	Put-In-Bay	Lake Erie Issues, ANS	50				
2003	8	14		Lucente	Ohio Legislators	Put-In Bay	Lake Erie Issues, ANS	50				
2003	8	14		Williams	Ohio Legislators	Put-In Bay	Lake Erie Issues, ANS	50				
2003	8	18		Hageman	Joan Marks	S.B. Island Lighthouse	Lighthouse Tour	2				
2003	8	18		Lichtkoppler	Researchers	Painesville	Coastal Erosion	4				
2003	8	18		Williams	PET	Cleveland	Business Dev.	25				
2003	8	19		Hageman	Stone Lab Staff	Columbus	2004 Stone Lab Curriculum			5		
2003	8	19		Hageman	Stone Lab Partners	Columbus	Courier Run			8		
2003	8	19		Lichtkoppler	MARC/SAMP	Mentor-on-the-Lake	Program Planning	8				
2003	8	19		Snyder	Coastal Ohio	Port Clinton	Board & Staff Devel. Comm.	5				XX
2003	8	20		Kelch	WEOL Radio interview	Elyria	Toxic Algae, angling					XX
2003	8	21		Hageman	Jim Blue, Anchor, WNWVO TV News	Gibraltar Island	Microcystis Bloom					
2003	8	21		Kelch	Fin-Feather-Fur Outfitters Store	Ashland	Lake Erie perch/smallmouth sem	45		x		
2003	8	21		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	11				
2003	8	21		Lucente	Carolyn Shermbeck, Toledo CVB	Toledo	Lake Erie West Guide	2				
2003	8	21		Snyder	West District Staff	Findlay	District Staff Meeting	12				
2003	8	21		Williams	Inservice Grantmanship	Columbus	Leadership					
2003	8	22		Hageman	Ohio Chapter American Fisheries Society	Peach Point Rsch Lab	Summer Meeting	5		25		
2003	8	22		Lichtkoppler	Lake Erie Coastal Ohio	Elyria	Ex Comm Meeting	5				
2003	8	22		Snyder	Ohio Sen. Randy Gardner	Lakeside	Lake Erie Issues Tour	5				
2003	8	23		Hageman	Dan Hall	Gibraltar Island	Facilities Tour			11		
2003	8	24		Hageman	Ohio E.P.A. District Office	Bowling Green	Supplies, PIB Underwater Clean-up			2		
2003	8	25		Hageman	OSU Resident Life	Gibraltar Island	Stone Lab Orientation	53				
2003	8	25		Kelch	Cleveland Fishing Association	Cleveland	Lake Erie update	39				
2003	8	25		Lucente	Greg Davis, West District	Findlay	Leadership Development Paper	2				
2003	8	25		Lucente	ODNR Coastal Zone Mgmt.	Sandusky	Grant Review Team Mtg.	8				
2003	8	25		Williams	PET	Cleveland	Business Dev.	25				
2003	8	26		Hageman	Curtis Meyer	Gibraltar Island	Facilities Tour	3				
2003	8	26		Hageman	Tom Izod	Gibraltar Island	Video Footage of Stone Lab	1			5	
2003	8	26		Hageman	Sea Grant Extension	Put-in-Bay	Conf. Call Re: GLFLI					
2003	8	26		Williams	Business Excel Team Mtg.	Columbus	Business Dev.	11				
2003	8	27		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashabula	Ashabula River Cleanup	24				
2003	8	27		Lichtkoppler	ARP Annual Meeting	Ashabula	Ashabula River Cleanup	35				
2003	8	27		Lucente	John Patterson, Monroe, MI CVB	Monroe, MI	Lake Erie West Guide	3		x		
2003	8	28		Hageman	OSU Extension, West District	Gibraltar Island	Ohio Watershed Leadership Work	55				
2003	8	28	29	Lichtkoppler	CSU Coastal Training	Old Woman Creek NERR	Coastal Training Initiative				14	
2003	8	28		Lucente	CBS Corridors Coalition	Toledo	Committee Mtg.	18				
2003	8	28		Snyder	CSU Coastal Training	Old Woman Creek NERR	Coastal Training Initiative				14	
2003	8	28		Williams	CSU Coastal Training	Old Woman Creek NERR	Coastal Training Initiative				14	
2003	8	29		Hageman	Great Lakes Commission	Gibraltar Island	Summer Meeting			12		
2003	8	29		Hageman	Genoa H.S. German Club	Gibraltar Island	Exchange Student Tour	11				
2003	9	2	3	Hageman	Hilliard Station I, Hilliard	Gibraltar Island	Aquatic Science Workshop			32		
2003	9	3	4	Hageman	Hilliard Station II, Hilliard	Gibraltar Island	Aquatic Science Workshop			33		
2003	9	3		Lichtkoppler	GLSGN Program Leaders	Painesville	Conference Call	9				
2003	9	3		Lucente	ODNR Coastal Zone Mgmt.	Toledo	Review Grants	1				
2003	9	3		Snyder	GLSGN Program Leaders	Port Clinton	Conference Call	9				
2003	9	4	5	Hageman	Hilliard Station III, Hilliard	Gibraltar Island	Aquatic Science Workshop			42		
2003	9	4		Kelch	Aquaculture visit	New London	visit prawn/crayfish farm				x	
2003	9	4		Lucente	ODNR Coastal Zone Mgmt.	Toledo	Review Grants	1				

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2003	9	4		Williams	Friends of Lake Erie	Cleveland	Sea Grant Annual Meeting	34				
2003	9	5	7	Hageman	Friends of Stone Lab Board	Gibraltar Island	Annual Meeting				16	
2003	9	5		Kelch	OSUE Directors Internal A/C mtg.	Columbus	Extension Dept. Issues/concerns	15				
2003	9	5		Lucente	ODNR Coastal Zone Mgmt.	Toledo	Review Grants	1				
2003	9	5		Williams	Company site visits	Summit Co.	Business Dev.	3				
2003	9	6		Hageman	Visitors of Open House	Gibraltar Island	Gibraltar Island Open House	900				
2003	9	6	7	Hageman	Friends of Stone Lab	Gibraltar Island	Homecoming Weekend	52				
2003	9	8		Hageman	Portage Elementary School, Gypsum	Gibraltar Island	Aquatic Science Workshop			55		
2003	9	8	9	Hageman	Grace Brethren Home School, Galena	Gibraltar Island	Aquatic Science Workshop			13		
2003	9	8		Kelch	Lorain County Extension Office	Elyria	New OSG Exhibit-Dead Zone					XX
2003	9	8		Lucente	LeAnn Harbaum, Monroe, MI CVB	Monroe, MI	Lake Erie West Guide	3	x			
2003	9	8		Williams	OSU All Staff mtg	OSU	Cleveland	28				
2003	9	9		Hageman	Ohio Sea Grant Extension	Port Clinton	Staff Meeting				8	
2003	9	9		Hageman	Bataan School, Port Clinton	Gibraltar Island	Aquatic Science Workshop			43		
2003	9	9	10	Hageman	Jonathan Alder H.S., Plain City	Gibraltar Island	Aquatic Science Workshop			25		
2003	9	9		Lichtkoppler	Sea Grant Staff	Port Clinton	Program Planning	8				
2003	9	9		Snyder	Sea Grant Staff Mtg.	Port Clinton	Program Planning			8		
2003	9	9		Williams	Sea Grant Agt mtg	Sea Grant	Port Clinton	9				
2003	9	10		Hageman	Elderhostel IV, Put-in-Bay	Gibraltar Island	Aquatic Science Workshop			28		
2003	9	10	11	Hageman	Katie Lynch, OSU Art Dept.	Gibraltar Island	Art Project Reconnaissance	3				
2003	9	10	11	Hageman	Columbus Jewish Day School, New Alb	Gibraltar Island	Aquatic Science Workshop			15		
2003	9	10		Kelch	Promotion/Tenure Via Review-chairma	Elyria	final review of candidate vilas		x			
2003	9	10		Snyder	Marina Managers, Gen. Public	Sandusky	Clean Marinas Booth					XX
2003	9	10		Williams	OSU agt mtg.	OSU	Cleveland	5				
2003	9	11	12	Hageman	Bexley M.S., Columbus	Gibraltar Island	Aquatic Science Workshop			42		
2003	9	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2003	9	11		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	44				
2003	9	12	14	Hageman	Great Lakes Fisheries Commission	Gibraltar Island	Fisheries Conference	28				
2003	9	12	14	Kelch	Great Lakes Fishery Leadership Inst.	Put-in-Bay	GLFI educational conference	30		x		
2003	9	12	14	Lichtkoppler	GLFIU Workshop	Stone Lab	Fisheries Mgt.	24				
2003	9	12	13	Snyder	Ohio's Great Lakes Fish. Ldrshp Inst.	Stone Lab	Fisheries Leadership Training	25		x		
2003	9	12		Williams	Business Excel team mtg.	Columbus	Business Dev.	2				
2003	9	14		Kelch	Great Lakes Fishery Leadership Inst.	Put-in-Bay	Fish Contaminants, ANS Issues	30			x	
2003	9	15		Hageman	Ottawa Co. Farm Services Agency	Gibraltar Island	Conference			15		
2003	9	15		Hageman	Volunteers for Clean Up	Put-in-Bay	11th Put-in-Bay Underwater Clean-up			163		
2003	9	15		Hageman	Phreasants Forever Board	Oak Harbor	Monthly Meeting	11				
2003	9	15	17	Hageman	The Wellington School, Columbus	Gibraltar Island	Aquatic Science Workshop			62		
2003	9	15	24	Kelch	Interview Team: Lor. Cty. Extension	Elyria	review resumes-new secretary			27	x	
2003	9	16		Hageman	Lake Erie Is. Chap., Ducks Unlimited	Put-in-Bay	Aquatic Science Workshop				116	
2003	9	16		Lichtkoppler	Sea Grant Committee	Unionville	Annual Fundraising Banquet	3				
2003	9	17	18	Hageman	Evangel Christian Academy, Gahanna	Gibraltar Island	Aquatic Science Workshop			37		
2003	9	18		Hageman	St. Mary's of the Falls, Olmsted Falls	Gibraltar Island	Aquatic Science Workshop			24		
2003	9	18	19	Hageman	Dempsey M.S., Delaware	Gibraltar Island	Aquatic Science Workshop	41				
2003	9	18	19	Hageman	Bellefontaine H.S., Bellefontaine	Gibraltar Island	Aquatic Science Workshop			8		
2003	9	18		Kelch	Fin-Feather-Fur Outfitters Store	Ashland	Lake Erie Fall Walleye seminar	45		x		
2003	9	18		Snyder	West District Staff	Findlay	District Staff Meeting	11				
2003	9	19	20	Hageman	Milford Jr. High, Milford	Gibraltar Island	Aquatic Science Workshop			24		
2003	9	20		Hageman	Boy Scout Troop #77, Westlake	Gibraltar Island	Facilities Tour			20		
2003	9	20		Hageman	Boy Scout Troop #253, Kent	Gibraltar Island	Facilities Tour			25		
2003	9	22	23	Hageman	The Andrews School, Willoughby	Gibraltar Island	Aquatic Science Workshop			41		
2003	9	23	25	Hageman	The Wellington School, Columbus	Gibraltar Island	Aquatic Science Workshop			55		
2003	9	23		Hageman	Elderhostel VI, Put-in-Bay	Gibraltar Island	Aquatic Science Workshop			21		
2003	9	23		Hageman	Bruce Leach, Bio-Sci Library	Gibraltar Island	Fall Stone Lab Library Maintenance				2	

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2003	9	23		Lucente	Christine Bailey, Toledo Chamber	Toledo	Leadership Academy Planning	2	x			
2003	9	23		Snyder	Sandusky County 4th Grade Students	Fremont	Aquatic Biology	170				
2003	9	23		Williams	Economic Dev. Network	Brecksville	Business Dev.	55				
2003	9	24		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	19				
2003	9	24		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashtabula	Ashtabula River Cleanup	16				
2003	9	24		Lucente	Ken Wellfaert, CBS Corridors Coalition	Toledo	BR&E Project for CBS Corridors	2				
2003	9	24		Lucente	Michelle Grigore, Toledo Bot. Garden	Toledo	NW OH Greenhouse Industry	2				
2003	9	24		Snyder	www.walleycentral.com	Fremont	Online Lake Erie Q&A			34		XX
2003	9	25		Hageman	Franklin Elementary, Elyria	Gibraltar Island	Aquatic Science Workshop					
2003	9	25	26	Hageman	Highland H.S., Medina	Gibraltar Island	Aquatic Science Workshop			35		
2003	9	25		Kelch	Interview Team: Lor. Cty. Extension	Elyria	interview, hire secretary	15				
2003	9	25		Williams	Cuyahoga Rap	Peninsula	Sea Grant	12				
2003	9	26		Hageman	Lakota M.S., Amsteden	Gibraltar Island	Aquatic Science Workshop	31				
2003	9	26		Lichtkoppler	Lake Erie Coastal Ohio (ex Comm & Fu	Geneva	Coastal Tourism	12				XX
2003	9	26		Snyder	Lake Erie Coastal Ohio	Geneva	Coastal Tourism	12				
2003	9	26	28	Williams	BREI board mtg	Columbia, SC	Business Dev.	8				
2003	9	28		Kelch	Sportsmans Gun&Reel Club	Lorain	Lake Erie Fall Angling	24				
2003	9	29		Hageman	West Holmes H.S., Millersburg	Gibraltar Island	Aquatic Science Workshop			17		
2003	9	29	30	Hageman	Brecksville H.S., Broadview Hts	Gibraltar Island	Aquatic Science Workshop			19		
2003	9	30	*10/01	Hageman	Worthingway M.S., Worthington	Gibraltar Island	Aquatic Science Workshop			68		
2003	9	30		Lichtkoppler	Ohio Sea Grant Review Panel	Columbus	Sea Grant Proposal Review Team	9				
2003	9	30		Snyder	Ohio Sea Grant Review Panel	Columbus	Sea Grant Proposal Review Team	8				
2003	10	1		Hageman	Worthingway M.S. / Worthington	Gibraltar Island	Aquatic Science Workshop			68		
2003	10	1	3	Hageman	Columbus School for Girls	Gibraltar Island	Aquatic Science Workshop	49				
2003	10	1		Williams	Smart Growth committee	Community Economic	Columbus					
2003	10	2		Hageman	St. Vincent/DePaul / Elyria	Gibraltar Island	Aquatic Science Workshop			28		
2003	10	3		Hageman	Brad Troller /Wanda Schirkey	Gibraltar Island	Cooke Castle Tour	3				
2003	10	3		Hageman	OSU Extension, Tuscarawas Co.	Gibraltar Island	Facilities Tour	8				
2003	10	3		Hageman	Meadowlawn School II / Perkins Twp.	Gibraltar Island	Aquatic Science Workshop			29		
2003	10	3	4	Hageman	Mt. Union College / Alliance OH	Gibraltar Island	Field Trip	6				
2003	10	3	4	Lichtkoppler	Anglers	Erie, PA	Great Lakes Fishery Leadership Institute		45			
2003	10	3	4	Williams	PET - Sponsors mtg	Business Dev	Cleveland	6				
2003	10	4	5	Hageman	Buckeye Island Hdp	Gibraltar Island	Work Weekend	40				
2003	10	4		Williams	Northeast Ohio's waterways	Sea Grant	Cleveland	20				
2003	10	5		Hageman	Black Swamp Conservancy	Put-in-Bay	Bass Island Conservation				7	
2003	10	6		Hageman	Artherist Steble / Amherst OH	Gibraltar Island	Aquatic Science Workshop			53		
2003	10	6		Kelch	Promotion/Tenure Via Review Mtg.	Elyria	P&T committee, vita review	7	x	x		
2003	10	6		Lucente	Lucas County Staff	Toledo	Office Conference	10				
2003	10	7		Hageman	Meadowlawn School II / Perkins Twp.	Gibraltar Island	Aquatic Science Workshop			51		
2003	10	7		Kelch	Promotion/Tenure Chair Responsibility	Elyria	compose, review, edit letters		x	x		
2003	10	7	9	Lichtkoppler	OSUE Faculty	Columbus	Promotion & Tenure Committee		9			
2003	10	7		Lucente	Jim Wiedenheft, Ottawa County Ext.	Toledo	Ottawa County BR&E Program	2		x		
2003	10	7		Snyder	Mayor Brown's Core Committee	Port Clinton	Municipal Marina Development	22		x		
2003	10	8	9	Hageman	Rocky River M.S. / Rocky River, OH	Gibraltar Island	Aquatic Science Workshop			45		
2003	10	8		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant	6				
2003	10	8		Lucente	Dawn Malone, OH BR&E Initiative	Toledo	CBSCC BR&E Project Prop.	2		x		
2003	10	8		Snyder	Leadership Ottawa County	Oak Harbor	Lake Erie Issues Update	16				
2003	10	9		Hageman	Robinson Jr. High / Toledo, OH	Gibraltar Island	Aquatic Science Workshop			19		
2003	10	9	10	Lichtkoppler	Clean Marina Board	Huron	Clean Marinas Program Devel.	12				
2003	10	9		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	44				
2003	10	9		Snyder	Clean Marinas Board	Huron	Clean Marinas Program Devel.	12				
2003	10	10		Hageman	Bo Zhang, OSU Engineer	Stone Lab	Building Renovations				4	
2003	10	10	11	Hageman	Granville M.S. / Granville, OH	Gibraltar Island	Aquatic Science Workshop			18		
2003	10	10	12	Hageman	OSU Plankton Class	Gibraltar Island	Field Trip			14		

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2003	10	10		Kelch	OSU Ag Faculty Council Mtg.	Columbus	Faculty issues, university senate	25				
2003	10	11	12	Hageman	Little Princesses / Columbus, OH	Gibraltar Island	Aquatic Science Workshop			17		
2003	10	13		Hageman	Avon High School / Avon, OH	Gibraltar Island	Aquatic Science Workshop			49		
2003	10	13	15	Hageman	Hudson M.S. I	Gibraltar Island	Aquatic Science Workshop			39		
2003	10	13	16	Lichtkoppler	OSUE Faculty	Painesville	Journal Article Rewrite	2	3			
2003	10	13		Lucente	Fred Snyder, OSU Sea Grant	Port Clinton	Mentoring Activities					
2003	10	15	17	Hageman	Hudson M.S. II	Gibraltar Island	Aquatic Science Workshop			37		
2003	10	16		Kelch	Westlake Sportsmans Club	Westlake	Lake Erie update, fall angling	54				
2003	10	16	17	Lucente	Ohio Development Association	Columbus	ODA Summit	95				
2003	10	16		Lucente	Mid-West Ed. Research Assoc.	Columbus	Conference Presentation	220				
2003	10	17		Hageman	Owens Community College / Toledo	Gibraltar Island	Aquatic Science Workshop			3		
2003	10	17		Snyder	OSUE District Staff	Findlay	Office Conference	11				
2003	10	20		Hageman	Pheasants Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	3				
2003	10	20	21	Hageman	Hathaway Brown / Shaker Hts, OH	Gibraltar Island	Aquatic Science Workshop			77		
2003	10	20		Snyder	OFAA Committees	Columbus	Professional Improvement	35				
2003	10	21		Kelch	Central Basin Charterboat Assn. Mtg.	Lorain	Lake Erie dead zone	37				
2003	10	21		Lichtkoppler	MARC Members	Mentor on the Lake	Special Area Management Plan	7				
2003	10	21		Lichtkoppler	Mentor City Council	Mentor	SAMP Update		12			
2003	10	21		Lucente	Jim Wiedenheft, Ottawa County Ext.	Toledo	Business Mtg.	2				
2003	10	21		Williams	H&L Nonwoven DEAL TEAM MTG	Business Dev	Cleveland	5				
2003	10	22	23	Hageman	Hilliard Tharp M.S. I	Gibraltar Island	Aquatic Science Workshop			44		
2003	10	22		Lichtkoppler	ARP Board	Ashabula	Ashabula River Cleanup	20				
2003	10	22		Williams	Water & Soil	Sea Grant	Valley View	2				
2003	10	23	24	Hageman	Hilliard Tharp M.S. II	Gibraltar Island	Aquatic Science Workshop			44		
2003	10	23		Kelch	Midview/Middle School Biology classes	Grafton	ANS, Dea Zone presentation	86				
2003	10	23		Lucente	Cherry, Bancroft Summit CC Coral.	Toledo	Business Retention and Exp.	15				
2003	10	27	28	Hageman	Jackson M.S. / Grove City	Gibraltar Island	Aquatic Science Workshop			66		
2003	10	27		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant	8				
2003	10	29		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	16				
2003	10	29		Snyder	West District Applied Research Comm.	Port Clinton	Program Planning	4		x		
2003	10	30		Lichtkoppler	OSUE Agents	Ravenna	URS Reporting	12				
2003	10	30		Williams	International Business Reception	Business Dev	Columbus	66				
2003	10	31		Williams	Smart Growth committee	Education	Columbus					
2003	11	2	7	Lucente	Sea Grant Smart Growth Conference	Washington, D.C.	Sea Grant CD Agents	42				
2003	11	3		Lichtkoppler	Painesville City Council	Painesville	SAMP Update		14			
2003	11	3		Snyder	Mayor Brown's Core Committee	Port Clinton	Municipal Marina Development	18				
2003	11	4		Hageman	OSU Extension, West District	Findlay	Fireside Chat, Update			x	190	
2003	11	4		Snyder	West District Faculty & Staff	Findlay	OSUE Fireside Chat				150	
2003	11	5		Lichtkoppler	Clean Ohio Council NE Dist.	Chardon	Mentor Marsh TNC Proposal	25				
2003	11	5		Lichtkoppler	NOAA Coastal MGT Eval Team	Cleveland	Ohio Coastal MGT Program Evalua	9				
2003	11	5		Williams	Lunch Bill McClung John Cong	Ext	Cleveland	2				
2003	11	6		Kelch	Lorain Cty. Bass Busters	Elvria	smallmouth bass, goby, issue	27				
2003	11	6		Williams	H&L Nonwoven	Business Dev	Cincinnati	5				
2003	11	11		Hageman	Stark Co. Power Squadron	Harville	Stone Laboratory Research	48				
2003	11	12		Kelch	Grafton Kiwanis Club	Grafton	Dead Zone presentation	34				
2003	11	12		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant / Survey	5				
2003	11	12		Lucente	Notie Lansford, Oklahoma State U.	Toledo	Conference Call	2				
2003	11	12	13	Snyder	ODNR Division of Watercraft Conf.	Toledo	Ag. Invasives - Impacts & Controls	300				
2003	11	13		Kelch	Sea Camp Planning Mtg.	Columbus	2004 sea camp planning	13				
2003	11	13		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	40				
2003	11	14		Kelch	OCEES In-Service, Fireside chat	Wooster	extension update, issues				x	
2003	11	14		Lichtkoppler	OSUE North Dist Faculty & Staff	Wooster	OSUE Update				65	
2003	11	14		Williams	Fireside chat	Ext	Wooster					
2003	11	17		Hageman	Pheasant Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	6				

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2003	11	17		Kelch	Lorain Cty. Visitors Bureau sub-comm	Lorain	LCVB Policy issues	8	x			
2003	11	17		Williams	Junior Achievement	Cleveland	Education	29				
2003	11	17		Williams	staff mtg @ Growth	Cleveland						
2003	11	18		Kelch	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Lichtkoppler	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Lucente	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Snyder	GLSGN - AIS-HACCCP Committee	Port Clinton	2004-2005 Programs	7		x		
2003	11	18		Snyder	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Williams	CIRI Industrial Roundtable	Cleveland	Business Devel.	12				
2003	11	18		Williams	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	19		Hageman	Ohio Chap. American Fish. Soc.	Hebron	Executive Committee Meeting				10	
2003	11	19		Lichtkoppler	GL Sea Grant Program Leaders	Painesville	Great Lakes SG Network	8				
2003	11	19		Lucente	Community Development State Staff	Columbus	CD Quarterly Mtg.	10				
2003	11	19		Snyder	GLSGN - Program Leaders Conf. Call	Port Clinton	Great Lakes Program Planning	8				
2003	11	19		Williams	CD Quarterly mtg	Ext.	Columbus	8				
2003	11	20		Lucente	Jerry Thomas, West District Director	Toledo	Conference Call	2				
2003	11	20		Lucente	Ann Moore, Toledo Chamber	Toledo	Business Mtg.	2				
2003	11	20		Snyder	OSUE District Staff	Findlay	Office Conference	12				
2003	11	20		Williams	Cuyahoga Rap	Richfield, OH	Sea Grant					
2003	11	21		Lichtkoppler	Lake Erie Coastal Ohio	Elyria	Coastal Tourism	4				
2003	11	21		Lucente	Megan Agy, NOAA	Toledo	Conference Call	2				
2003	11	24		Williams	Junior Achievement	Education	Cleveland	28				
2003	11	25		Kelch	GM Retired Mgt. Workers presentation	Elyria	fish consumption advisory update	47				
2003	11	25		Lucente	OSU Extension	Shelby County	Vita Workshop	22				
2003	11	25		Williams	Business Excel	Planning	Columbus	2				
2003	11	25		Williams	H&L Nowoven	Business Dev	Cleveland	5				
2003	11	26		Hageman	Dr. Orlando Sarnelle/ Steve Hamilton	Stone Lab	Research Opportunities	2				
2003	11	26		Lucente	OSUE Smart Growth Committee	Toledo	Conference Call	10				
2003	12	1		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant / Survey	6				
2003	12	1		Williams	Junior Achievement	Education	Cleveland	28				
2003	12	2		Williams	CD quarterly mtg.	Presentation	Wooster	12				
2003	12	3		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	12	4		Hageman	Ohio Chap. American Fish. Soc.	Hebron	Student Research Forum	16			5	
2003	12	4		Lucente	Lucas County Advisory Cabinet	Toledo	Advisory Cabinet Mtg.					
2003	12	5		Lichtkoppler	Lake County Officials	Mentor	Emergency Planning				25	
2003	12	5		Lucente	Dean Monske, Oregon Econ. Dev.	Oregon	Emergency Planning	2				
2003	12	9		Kelch	OSUE In-service, Go Bucks Conferenc	Wooster	extension update, issues				x	
2003	12	9		Lichtkoppler	Grand River Partners	Jefferson	Partnership update	24				
2003	12	9		Lucente	OSU Extension	Bowling Green	GO BUCKS Conference	45				
2003	12	9		Snyder	OSUE Go Bucks Conference	Columbus	State Updates				135	
2003	12	9		Snyder	OSU Faculty & Staff Recognition Brunch	Columbus	Service Award				125	
2003	12	10		Kelch	Lorain Cty. Visitors Bureau sub-com	Lorain	LCVB Policy issues	6		x		
2003	12	11		Kelch	West Cleveland Walleye Asso. Mtg.	Cleveland	ANS & Dea Zone	39				
2003	12	11		Lichtkoppler	North Coast Charter Captains	Grand River	Ohio Charter Survey Results	45				
2003	12	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	15				
2003	12	11		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	40				
2003	12	12		Lucente	West District Staff	Findlay	Applied Research In-Service	14				
2003	12	12		Snyder	West District Faculty & Staff	Findlay	Applied Research Training	18		x		
2003	12	15		Lichtkoppler	Local County Officials	Mentor	Networking	6				
2003	12	15		Snyder	Mayor Brown's Core Committee	Port Clinton	Municipal Marina Development	18			x	
2003	12	15		Snyder	GLSGN - AIS-HACCCP Committee	Port Clinton	2004-2005 Programs	7		x		
2003	12	15		Snyder	Toledo Sea Grant Ext. Advisory Comm	Toledo	Sea Grant Program Overview	10				
2003	12	16		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant / Survey	8				
2003	12	16		Lichtkoppler	MARC Members	Mentor on the Lake	Special Area Management Plan	9				

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2003	12	17		Lichtkoppler	ARP Board	Ashtabula	Ashtabula River Cleanup	21				
2003	12	17		Lucente	Lucas County Sea Grant Adv. Comm.	Toledo	Advisory Committee Mtg.	15				
2003	12	18		Hageman	Sea Grant Extension	Put-in-Bay	Strategic Plan, Conf. Call				8	
2003	12	18		Lichtkoppler	Ohio Sea Grant Agents	Painesville	Conf call Program Planning	9				
2003	12	18		Lucente	Lucas County Staff	Toledo	Office Conference	12				
2003	12	18		Lucente	Sea Grant Agents	Toledo	Conference Call	8				
2003	12	18		Snyder	OSUE District Staff	Findlay	Office Conference	13				
2003	12	18		Snyder	Ohio Sea Grant Staff Conf. Call	Port Clinton	Program Planning	7		x		
2003	12	19		Lucente	Gail Ritzler, Greg Davis, OSUE	Toledo	Performance Evaluation	3				
2003	12	19		Snyder	Coastal Ohio	Oak Harbor	Full Board Meeting	19				
2003	12	20		Kelch	Great Lakes Historical Asso. & MAST	Vermilion	Underwater Preserve issue	72				
2003	12	22		Snyder	GLSGN Conference Committee	Port Clinton	Conference Initiation call	9				
TOTALS								13446	142	5331	2018	

Ohio Sea Grant Extension Program Agent Accomplishments 2004

I. Economic Leadership

A. Advanced Technology for Commercial Products and Processes

B. Seafood Production

C. Coastal Economic Development;

1. Coastal Business Development

Fishing

Hageman provided weekly ice updates that included ice conditions and fishing reports from the Bass Islands, the primary ice-fishing venue on Lake Erie. These reports were sent to the press and to Ohio Division of Wildlife personnel. The ODNR incorporated Hageman's reports into their weekly fishing updates distributed on their web site. At the end of the ice-fishing season, the fisheries biologist responsible for the official ODNR Lake Erie weekly fishing report and the supervisor of the Lake Erie fisheries research station each thanked Mr. Hageman for the timeliness and accuracy of his updates as an asset to the ODNR mission to promote the winter fishery. (Jan-Mar 2004)

Lake Erie Steelhead Angling Seminars offered at two locations taught 190 clientele more about Lake Erie steelhead and how/where to take advantage of fall, winter and spring stream angling opportunities. (Kelch, Feb-Mar 2004)

Over 150 licensed Ohio charter boat captains gained knowledge and skills to improve their business operations at the Annual Ohio Charter Captains Conference, organized by Snyder. Industry response to this outreach effort has been positive; the conference is in its 23rd year with annual attendances ranging from 140 to 270 licensed captains. Among captains attending over the last five years, 66% report increased profits by using conference information. Operating practices were modified by 84 % of attendees and 95% said they use conference information in some aspect of their businesses. (Mar 2004)

Sixty-eight Port Clinton elementary students learned fishing skills and outdoor ethics at two "Hooked on Fishing, Not Drugs" seminars conducted by Snyder. (May 2004)

Two papers, "The 2002 Great Lakes Charter Captains Survey" (F. Lichtkoppler, D. Kuehn and C. Pistis) and "Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003" (D. Kelch, F. Lichtkoppler and B. Sohngen) were presented by Lichtkoppler at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.

Following successful acquisition of funding under National Sea Grant's "Fisheries Extension Enhancement" program, Ohio Sea Grant hired a new Fisheries Extension Program Coordinator, Kelly Riesen. Riesen will develop and deliver educational programs in fisheries, sport fishing and aquatic science, and strengthen fisheries education ties among Great Lakes federal and state agencies and private organizations. (Reutter, Kelch, Snyder, Hageman, & Lichtkoppler, Jul 2004)

Kelch is the immediate supervisor and mentor for the new Fisheries Extension Program Coordinator, Kelly Riesen. As such, Kelch has initiated new extension agent training, orientation, and coordination of educational programs for the new coordinator. Kelch has assisted in the development of current educational programs being used by the coordinator, and has mentored the coordinator on numerous educational program activities (Jul-Dec 2004).

The paper, "Strengthening Ohio's Charter Fishing Industry Through Extension Education" by F. Snyder was presented at the symposium, "Socio-Economics and Extension: Empowering People in Fisheries Conservation" at the American Fisheries Society, 134th Annual Meeting, 22-26 August 2004, in Madison, WI.

The paper, "Socio-Economic Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003" by D. Kelch, F. Lichtkoppler and B. Sohngen, was presented by Kelch at the symposium, "Socio-Economics and Extension: Empowering People in Fisheries Conservation" at the American Fisheries Society (AFS) 134th Annual Meeting, August 22-26, 2004 in Madison, WI.

The paper, "Aquatic Invasive Species Impacts Upon the Lake Erie Sport Fishery" was presented by F. Snyder at the 13th International Conference on Aquatic Invasive Species. 20-24 September 2004, Ennis, Ireland.

Over 100 citizens learned more about Lake Erie issues, fisheries and Ohio Sea Grant as Riesen responded to participant questions at the Ohio Sea Grant display at the Rocky River Watershed Festival and the Ohio Central Basin Steelhead Conclave. (Sep 2004)

Sixty-five anglers from various local sportfishing clubs, including Woods and Waters Sports Club and West Cleveland Sports Club learned more about Lake Erie issues and ecology topics at presentations made by Kelch and Riesen. (Oct./Nov. 2004).

Seventy steelhead anglers learned more about Lake Erie tributary steelhead fishing at an educational Steelhead Angling Seminar coordinated by Riesen at the Lake Erie Nature and Science Center. (Nov. 2004).

Over 250 participants learned more about Lake Erie angling and Lake Erie at four workshops conducted by Kelch. These educational programs continue to support the National Sea Grant Program's effort to increase teaching efforts regarding sport angling (Oct- Dec 2004)

The paper, The Great Lakes Charter Fishing Industry: 1973 to 2002, by Diane Kuehn, Frank Lichtkoppler and Chuck Pistis was accepted for publication in the March 2005 issue of FISHERIES, the Monthly News Magazine of the American Fisheries Society.

Coastal Recreation

Twenty two Lake Erie tourism professionals learned about changes in Lake Erie water levels, the state of the fishery, new fishing regulations and the Lake Erie Dead Zone during a presentation by Lucente and John Hageman, OSU Sea Grant Lab Manager, at the Lake Erie Coastal Ohio meeting at Maumee Bay State Park in Oregon, OH. (Mar 2004)

Kelch helped develop a detailed 2004 Lake Erie fisheries informational calendar highlighting educational information and angling tips for 12 popular Lake Erie fish species. Over 10,000 calendars were distributed to 6,000+ Twinline subscribers and to anglers at 2004 Sea Grant educational events and activities. (Kelch, Hageman, Reutter, Banicki, and Hayter, Mar 2004)

During the March Governor's Submerged Lands Advisory Council (SLAC) meeting, the specialist was elected to the position of committee vice chair by his peers. This council advises the Ohio Department of Natural Resources (ODNR) in issues regarding submerged lands. (Kelch, Mar 2004)

In less than three years, the Lake Erie Coastal Ohio, Inc. project has grown from an idea born of the seven coastal Ohio tourism bureaus' need to market the Lake Erie adventure into a rapidly maturing co-operative coastal tourism marketing effort including a web site, monthly directors newsletter, innovative public service announcements, key market research, and even an application for State of Ohio scenic byway designation. Snyder and Lichtkoppler serve on the LECO, Inc. Board of Directors. Lichtkoppler acts as secretary to the board and serves on the Executive Committee of the LECO, Inc. (Sep 2004)

Marine Trades

Development of Ohio's new Clean Boater Program (CBP) and Clean Marina Programs (CMP) is being led by Ohio Sea Grant with funding from NOAA. Stakeholder meetings have built program support and initiated development of the Best Management Practices Guidebook for the CMP. Cooperating agencies/organizations include the Ohio Department of Natural Resources, Divisions of Watercraft, Coastal Zone Management, and Wildlife, Ohio EPA, and the Lake Erie Marine Trades Association. (Hushak and Kelch, April-June, 2004)

The OCMP Best Management Practices Manual was completed. This 155 page document will serve as the guidebook for clean marina status. (Hushak, Reutter, Kelch, et al., Jul-Aug 2004)

Information on the Clean Marina and Clean Boater Programs including the OCMP manual is now on-line (www.sg.ohio-state.edu/cleanmarina/). Kelch has been appointed to lead the Ohio Clean Marina Program after December 1, 2004, with Dr. Leroy Hushak maintaining the lead for the Ohio Clean Boater Program. Both programs have NOAA funding through 2006, with the ODNR Coastal Management Program indicating continued funding of both programs after 2006. (Hushak, Reutter, Kelch, et al. Sep 2004)

Thousands of individuals learned more about clean boating practices at the Ohio Sea Grant display on Ohio's new Clean Boater and Clean Marinas Programs. Over 250 individuals signed the clean boater pledge ledger at the Lake Erie Marine Trades Association's In-Water Boat Show, held September 15-19, 2004 at the Cedar Point Marina. (Hushak, Kelch, Reutter, and Riesen)

Eight marinas signed the pledge to become clean marinas at the official beginning of the Ohio Clean Boater (OCBP) and Clean Marinas (OCMP) Programs September 18, 2004 during the Lake Erie Marine Trades Association (LEMTA) In-Water Boat Show. Officials from Ohio Sea Grant, Ohio Department of Natural Resources, LEMTA, and Ohio EPA presided over the kick-off ceremony, with Dr. Sam Speck, Director of the Ohio Department of Natural Resources making the official dedication. (Hushak, Reutter, Kelch, et al.)

An additional 11 marinas signed the clean marina pledge at two Clean Marina Workshops held in November 2004. Ohio has a total of 19 marinas signed up for the Clean Marina program. (Kelch, Hushak & Reutter)

2. Coastal Community Development

Seventeen Extension professionals learned how to conduct local government leadership development training for public officials at Ohio State University's Urban Program Conversation in Columbus, OH and the West District Lead Programs In Community Development In-Service in Findlay, OH during presentations by Lucente entitled "Toledo Local Government Leadership Academy- Building Partnerships For Success in An Urban Setting" and "Local Government Leadership Training". (Lucente, Jan and Feb 2004)

Six Extension professionals learned how to conduct a tourism, service and retail based business retention and expansion program utilizing Lucente's case study of "Business Retention and Expansion in Ottawa County" at the Lead Programs In Community Development In-Service in Findlay, Ohio. As a result, Ottawa County was able to identify existing businesses looking to expand with the potential to create an additional 199 new jobs in an Ohio coastal community. (Lucente, Feb 2004)

Lucente formed a partnership with the Toledo Area Chamber of Commerce and The Ohio State University Extension Service to develop the Toledo Local Government Leadership Academy. Lucente and Dr. Donald Lacy created a leadership development curriculum that focused on duties and responsibilities of elected officials, ethics of public officials, leadership skills and related topics. Since its initial offering in 2001, 56 people have graduated from the academy and surveys conducted indicate an 86% overall increase in knowledge from 2001-2004. (Lucente and Lacy, Jan-Mar 2004)

Williams was responsible for the calls made at the National Manufacturing Week show in Chicago February 2004. Three economic development specialists made 134 calls on businesses located in Northeast Ohio at this show. The team identified three expansion projects and four companies needing financing for equipment purchases.

Williams organized a team of development professionals to attend the Society of Automotive Trade Show March 7-11, 2004 to call on local companies from Northeast Ohio. This team identified 17 companies in Northeast Ohio needing assistance. (Mar 2004)

Williams is working with the Port of Cleveland to assist Northeast Health Services build a new facility and aid Superior Products with their facility expansion. Superior plans on adding 80,000 sq ft. to their existing facility. After completion the company will add 20-30 new manufacturing jobs. (Mar 2004)

Ohio Sea Grant partnered with The University of Toledo, Bowling Green State University, The Ohio State University, The Ohio Business Retention & Expansion Initiative, and the Toledo Botanical Garden to conduct a business retention and expansion survey of over 50 Greenhouse Industry participants in six northwest Ohio counties. This study, funded by the efforts of Senator Mike DeWine and Representative Marcy Kaptur, will lead to future research and technology funding that can help the Ohio green industry (Lucente, Nov. 2003-Apr. 2004).

Over seventy 70 economic development specialists learned more about community development at the Northeast Ohio Economic Development Summit. The summit provided tools and resources for local economic development organizations to work together to improve the economy in Northeast Ohio. OSU Extension community development specialists, Myra Moss, John Congloss and Bill Grunkemeyer, presented papers at the summit. Evaluation and feedback was positive, with the majority of those attending saying that they will attend the next event arranged for the Economic Development Network. (McLung and Williams, May 2004)

Thirty-three extension and other community and economic development professionals learned about evaluating a local government leadership program by using an SPSS database as Lucente presented "Leadership Development For Local Government Officials and Utilizing A Retrospective Pre-Post Test Methodology" and another twenty-eight learned about making partnerships and conducting a local government leadership curriculum geared toward local decision makers as Lucente presented "Establishing A Community Leadership Network To Improve Public Sector Decision Making" at the National Southern Community Development Association Conference in Tampa, Florida May 18-20, 2004.

Fifty-eight Extension and other community and economic development professionals learned about making partnerships and conducting a local government leadership curriculum geared toward local decision makers as Lucente presented a poster session titled "A Retrospective Evaluation of the Impact of Leadership Training on Participants" at the International Community Development Society Conference in Cleveland, Ohio May 18-21, 2004.

Williams organized a deal team consisting of representatives from the State of Ohio, First Energy, Lorain Chamber of Commerce, the Port of Cleveland, State Representative Earl Martin and Team NEO. Each deal team member was given a specific task to assist Bendix Commercial Vehicle Systems in its business expansion including seeking \$12 million in grants and loans to enhance its research and development divisions. (Jun 2004)

Williams' electronic web based Business Retention Surveys are being conducted in: Valley View, Independence, Solon, and Cleveland Wards, 1, 3, 5 and 8. These surveys have identified 37 companies needing assistance expanding their business and obtaining financing for future equipment purchases. (Jun 2004.)

Twenty Extension and leadership development professionals learned about evaluating a local government leadership program by using an SPSS database to analyze a three-year leadership development class as Lucente and Dr. Donald Lacy, OSU Extension, Community Development presented "Evaluating Leadership Development For Public Officials Using Retrospective Pretest Methodology" at the International Association of Leadership Educators Conference in Memphis, Tennessee July 15-17, 2004.

A total of 185 citizens responded to an on-line electronic strategic planning survey for the Ohio Sea Grant College Program. The survey asked the public for their opinions on Great Lakes and Lake Erie Issues. The data was included as part of Ohio Sea Grant's contribution to the a Great Lakes Commission's Great Lakes priorities project. (Williams and Lichtkoppler, Jan-Sep 2004).

Williams worked with over 270 companies providing economic data, financial assistance and business expertise that helped 19 of the companies move forward on business expansion and retention projects. Williams provided information on how to navigate their projects through the City of Cleveland's and the State of Ohio approval process. In addition, Williams provided instructions on how to structure their projects to receive assistance for the State of Ohio and City of Cleveland. Companies are listed below under New Jobs & Investments (Jan-Dec 2004)

New Jobs & Investments as a result of Williams's business R&E efforts in 2004 include:

Company	Investments	New Jobs
Yard Metal	\$1.875Million	0
The Tile Shop	\$1.5Million	5
PODS	\$2.5Million	4
Superior Products	\$2M	25
Gutter/Shutter Company	\$150,000	15
American Mine door	\$200,000	4
Terrell Mfg. Co.	\$350,000	17
McTech	\$1.25Million	4
Tomco	\$225,000	0
Garfield Alloys	\$2.5Million	37
American metal Coating	\$1.75Million	13
Rose Metal	\$200,000	3
Bendix		
Cresthaven Development	\$2.4Million	
Interstate McBee	\$1.2Million	10
Rosby Resources		
Alum. Precision Products		
Ozanne Construction		
New Era Construction		
Totals	\$18.1 Million	137

Williams participated as part of the Ohio delegation to the International Machine Trade Show September 8-17, 2004. Development professionals called on Ohio based companies to identify companies intending on expanding facilities or employment. Fifteen companies were identified as meeting one or more of the above criteria. (Sep 2004)

27 national educators and leadership development professionals learned about evaluating a local government leadership program by using an SPSS database to analyze a three year Extension, Community Development presented "Evaluating Impact of Extension Leadership Programming: A Three Year Study Using the Retrospective Pretest Methodology" at the National Mid-Western Educational Research Association conference in Columbus, Ohio during October 13-16, 2004. (Lucente, Davis and Lacy, October 13-16, 2004).

In cooperation with the Northeast Neighborhood Development Corporation, 15 entrepreneurs participated in Williams' Fundamental Business Principles course. During 16 evening classes and numerous post course individual meetings participants learned how to build a business plan and actually developed business plans that will allow them to pursue financing or increase operating efficiency. (Dec 2004, Williams)

Williams was asked to work with Shorebank Enterprise to identify east side companies needing assistance and work with the City of Cleveland's Economic Development Department to guild a business expansion and development project through the department approval process and to get the project on the agenda of City Council for approval. We have identified 37 constructions firms, 84 metal working firms, and 17 health care firms to contact. As of December 31, 2004 seventeen companies have requested meetings. When projects are completed, new investments of \$8M and a total of 250 mew jobs will be created. (Williams)

2. Revitalize Marine Infrastructure

The Port Clinton Mayor's Core Group, assembled to initiate development of a large transient municipal marina, approved a final design plan to submit to government and private funding sources during the spring and has now received commitments for \$9.5 million in funding from these sources. Ohio Sea Grant Extension initiated this project through meetings brokered between the Port Clinton Mayor's Office and the Ohio Dept. of Natural Resources. Snyder is a Core Group member, providing advice and planning assistance in water quality and sediment issues, and boating and fishing industry concerns. (Jan-Sep 2004)

After a decade of partnering with the USACE, US EPA, Ohio EPA, local citizens, marine businesses, township, city, county and state government, industry, Ohio Sea Grant and others the Final Comprehensive Management Plan (Feasibility Report) and Environmental Impact Statement for the Ashtabula River Environmental Dredging Project was approved by the Assistant Secretary of the Army (Civil Works). The Ashtabula River Partnership can now proceed on to final design and implementation of the long sought clean-up of contaminated sediments from the lower Ashtabula River and Harbor. (Lichtkoppler, et al., Sep 2004)

II. Coastal Ecosystem Health and Public Safety

A. Coastal Ecosystem Health

1. Coastal Ecosystems

Over 10 tons of trash have been removed from the Put-in-Bay public dock area since the inception of Ohio's first underwater clean up founded by Mr. Hageman in 1992 using SCUBA divers and land volunteers. He also arranges for local vendors to provide refreshments, door prizes and transportation for all of the participants.

Through Mr. Hageman's leadership, the Ohio Department of Transportation (O.D.O.T.), the Ohio Division of Wildlife and Ohio's Pheasants Forever State Council have pledged a partnership to re-establish native prairie plant species along O.D.O.T.-maintained road right-of-ways. This, along with delayed mowing until after the spring nesting season, will benefit some 40 species of upland wildlife, reduce non-point source pollution entering the Lake Erie watershed, and save O.D.O.T. and Ohio's taxpayers hundreds of thousands of dollars annually. (Jun 2004)

Snyder, F.L. 2004. Aquatic invasive species in Lake Erie: pathways and impacts. Powerpoint multimedia presentation, Ohio Sea Grant Extension, Port Clinton, Ohio. This onscreen presentation was developed for use by educators and has been implemented into Lucas Co., Ohio public schools and into the Great Lakes Sea Grant Network.

2. Coastal and Great Lakes Habitats

The Pet Industry Joint Advisory Council (PIJAC), the US Fish and Wildlife Service and the NOAA Sea Grant Great Lakes Sea Grant Network united to create a new "Habitattitude"™ on Aquatic Invasive Species as they launched a new public education and outreach effort at the Super ZOO Pet Trade Show in Las Vegas, NV September 23, 2004. Habitattitude™ encourages consumers to help avoid unwanted introductions of non-native species by adopting simple prevention steps when faced with unwanted fish or aquatic plants. (Meyers PIJAC, Starinchak US FWS, Jensen MN SG, Lichtkoppler OH SG, et al.)

3. Sustainable Development

Ohio Sea Grant partnered with the Great Lakes Commission and a dozen other organizations to produce the, "Actions Towards a Sustainable Great Lakes" Conference May 5 and 6, 2004 in Cleveland Ohio. Over 150 participants from eight Great Lakes states and Canada discussed ways to implement sustainable growth ideas in the Great Lakes Basin. Conference proceedings are in press. (Reutter, Lichtkoppler, et al.)

Over 20 citizens participated in the information session and Section 401 Water Quality Certification public hearing on the Heisley Park Subdivision (phases 4-10) conducted by the Ohio EPA. Numerous citizens including the president of the Mentor Marsh Board of management spoke up using data supplied by Lichtkoppler concerning wetland loss in this 205 acre development impacting two tributaries draining into Mentor Marsh State Nature Preserve. (Jun 2004)

In 2000, Ohio Sea Grant was one of a dozen founding members of the Mentor Area Regional Coalition (MARC). In June 2004, the MARC completed the development of the Mentor Marsh Area Special Area Management Plan (SAMP). The SAMP is a locally developed comprehensive plan that establishes: (1) natural resource protection; (2) reasonable coastal-dependent economic growth; (3) statements of policies; (4) standards and criteria to guide public and private uses of lands and waters; and, (5) mechanisms for implementation under the Federal Coastal Zone Management Act of 1972, 16 U.S.C.A. Section 1453 (17). This is the first SAMP to be developed in Ohio. The ongoing MARC has established operational guidelines and is now actively working to implement the SAMP. (Lichtkoppler, et al.)

Fifty-five watershed resource professionals learned about the Lake Erie Balanced Growth Initiative as Lucente provided a presentation on current initiative undertakings and progress at the Ohio Watershed Leaders Annual Conference at Cuyahoga Valley National Park in Cleveland, Ohio on August 26, 2004.

Blaine, T.W., and F. R. Lichtkoppler. 2004. Willingness to pay for green space preservation: A comparison of Soil and Water Conservation District clientele and the general public using the contingent valuation method. *Journal of Soil and Water Conservation* 59 (5) 203-208.

Almost 1,900 Lake County voters were surveyed for their attitudes, opinions and willingness to pay for curbside recycling in November and December of 2004 with a response rate of over 51%. Results of the survey will be used by the Lake County Solid Waste Board to help plan the future of curbside recycling in the county. (Lichtkoppler, Zondag et al.)

Twelve Great Lakes Sea Grant Coastal Community Development Specialists learned about the Lake Erie Balanced Growth Initiative as Lucente provided a presentation on current initiative undertakings and progress at the Great Lakes Sea Grant Coastal Community Development Retreat in New Buffalo, MI during December 6-8, 2004. (Lucente, Dec. 2004).

Lucente authored two fact sheets titled "Change in Population Densities in Priority Development Areas" and "Change in Average Commuting Distance To Work For People Living in Priority Development Areas Versus Entire Watershed" as he worked with the Ohio Balanced Growth Roundtable Steering Committee to develop indicators of sustainability for the Ohio Lake Erie Balanced Growth Initiative. (Dec. 2004)

B. Public Safety
1. Coastal Hazards
2. Safety at Sea

III. Education and Human Resources

A. Provide a Technically Trained Workforce

1. Scientists and Engineers

The associate professor completed his service on the Director's Advisory Council; an appointed position from Dr. Keith Smith, Director, OSU Extension. The committee assists the director in decision making, recommendations regarding OSU Extension faculty and staff, cost recovery and budget issues, and helps to keep Dr. Smith informed of current issues and concerns. (Kelch, Nov 2004)

Thirty-eight scientists, agency officials and citizens learned more about avian botulism at the Botulism in Lake Erie Workshop at Presque Isle, PA on March 24, 2004 co-sponsored by the NY, PA and OH Sea Grant programs. Over 96% of 31 post program survey respondents agreed or strongly agreed that they gained new knowledge from the workshop. Over 76% of responding participants who had attended either the 2001, 2002 and/or 2003 botulism workshops reported that they have shared the information with sport fishing groups, friends, agency officials, co-workers, researchers, toxicology students, non-profit groups and the general public. About 56% of previous workshop participants have taken action as a result of the workshops including: planned and executed a research project, collected samples for researchers, or wrote several informational articles on the topic. (Obert, PA; Domske, NY; & Lichtkoppler, OH)

Kelch, as the N/E Extension District representative to the OSU Ag/Natural Resources Faculty Council, lead the Council in a successful effort to secure University Senate recognition of OSU Extension faculty with full University Senate voting and representation rights. This effort was approved at the April 2004 University Senate meeting. Kelch completed his three year Faculty Council appointment in April, 2004.

Ohio Sea Grant hosted the 2004 Great Lakes Sea Grant Network Conference September 12 -15, 2004 at Stone Laboratory, Put-In-Bay, Ohio. Over 80 participants representing nine Sea Grant programs and several federal and state agencies developed a template for improving outreach education through communication and cooperation among the agencies and Sea Grant. Participants rated most parts of the program as excellent or very good. The Sea Grant Director's Panel and the program updates were mentioned as some of the most useful parts of the conference. Networking with colleagues was most often mentioned as the most valuable part of the conference. Snyder led a committee of Great Lakes Sea Grant representatives from each program in planning the conference. (Snyder, Hageman, Reutter, Kelch, Riesen, Lucente, Lichtkoppler, Braig, Alyswoth, Jentes-Banicki, et al.)

Snyder represented Ohio Sea Grant on the Ohio Lake Erie Commission's Large Grants Proposal Review, held at Old Woman Creek. Over \$276,000 was awarded to eight organizations to address research needs in the Lake Erie basin. (Sep 2004)

Kelch chaired the North Extension District Faculty P&T Committee and mentored four OSU Extension faculty applying for promotion and tenure. (Kelch, May-Oct 2004)

Seventeen faculty dossiers were evaluated by the College of Food, Agriculture and Environmental Science (FAES) Promotion and Tenure Committee for recommendations to the Dean and Vice President of the College of FAES on promotion and tenure within the college. (Lichtkoppler, Dec 7 & 8, 2004)

2. Resource Managers

Ohio Sea Grant Extension participated in national program decisions and issue prioritization at the Sea Grant Assembly of Program Leaders Meeting in Georgia. (Snyder, Apr 2004)

3. Technical Training

Twenty-two biology students at Bowling Green State University gained knowledge of aquatic invasive species pathways and impacts through a guest lecture given at the BGSU Firelands campus. (Snyder, Mar 2004)

Twenty-six biology students at Bowling Green State University learned about Lake Erie's Dead Zone and anoxic hypolimnion impacts through a guest lecture given at the BGSU Firelands campus on March 20, 2004. (Kelch)

Twenty-six Ontario live bait dealers received certification in ANS-HACCP procedures to eliminate ANS dispersal through bait shipments at a training workshop held in Sudbury, Ontario. This program was funded by the Bait Association of Ontario, the Ontario Ministry of Natural Resources, and taught by Snyder and Domske (NYSG). (Jun 2004)

The mission of the PET program is to teach manufacturing job-training skills to unemployed and under-employed residents of Cuyahoga County. Sixty students were accepted to participate in the Pre Employment Training Program in 2004. Students were taught and required to prepare a personal budget. In addition students were taught and required to establish financial goals. Thirty-four of the original students completed the entire six weeks course in 2004. Students are now eligible for entry level manufacturing jobs. Williams has provided 27 hours of classroom instruction each time the program is offered in the following subject areas" Money Management, Introduction to Computers, Effective Team Building. (J. Eland, J. Strauss & W. Williams, Dec 2004)

B. Assure an Environmentally and Scientifically Informed Citizenry

3. Pre-college Education

Sixty seven Midview High School biology students learned about Lake Erie's Dead Zone during a presentation by the associate professor. Seventeen students in the BGSU Firelands campus Biology 101 class learned about Lake Erie's Dead Zone through a power-point presentation given by the associate professor. (Kelch, Mar 2004)

Over 90 youth in grades 4 to 7 learned more about aquatic invasive species in the Great Lakes at the Ashtabula Waterways Symposium held May 11 and 12, 2004. (Lichtkoppler)

Some 5,400 elementary, junior high, senior high and college students and adults were introduced to Lake Erie's ecosystem through the Aquatic Science Workshop Program and other educational programs at Stone Laboratory in 2004. Since 2000, over 27,000 school kids and adults have participated in Stone Laboratory's aquatic science workshop program. Activities include a hands-on limnological science cruise, plankton and fish identification lab sessions, an invertebrate walk for biological indicators, bird hikes, insect lab sessions and an exotic species (AIS) slide show. (Hageman)

3. Informal Education

Mass audiences gained knowledge of Lake Erie's aquatic ecosystem and coastal issues through a series of eight newspaper interviews (Pittsburgh PA, Sandusky, Toledo, Lorain, Port Clinton, Fremont OH), a

one-hour radio call-in show (Cleveland), and two statewide and one national magazine interview. (Snyder, Jan-Mar 2004)

Thousands of individuals learned more about Lake Erie during the ten day Mid-American Sail and Power Boat Show (January) and the nine-day American/Canadian Sport, Travel and Outdoor Recreation Show (March). Both events are held in Cleveland, Ohio. Sea Grant specialists and advisory committee volunteers, provide hundreds of clientele with new knowledge about Lake Erie issues and opportunities. Over 5,000 educational fact sheets are distributed at these events. (Kelch, Lichtkoppler, Snyder, Lucente, Williams, Hageman, 2004)

Over 750 participants learned about Lake Erie's Dead Zone, steelhead trout biology and angling opportunity, fish consumption safety and Lake Erie fishery principles management at 21 educational presentations made by Kelch. He was a featured, event advertised seminar speaker during the 2004 Mid-American Boat Show, with fourteen formal presentations given. The topics taught were "Lake Erie's Dead Zone", and "Lake Erie Fish: Safe For Consumption". (Jan-Mar 2004)

Two radio interviews reached thousand of individuals with new information about Lake Erie's Dead Zone, steelhead angling and fish consumption safety. An interview conducted for WCOL Radio was aired on WCOL's Buckeye Sportsman to 17 affiliate stations throughout Ohio and West Virginia. The topics for this interview were Lake Erie Steelhead Angling and Lake Erie Fish Consumption Safety. (Kelch, Mar 2004)

Forty nine farm pond owners gained skills in water quality and fish management at Farm Pond Clinics conducted in Fulton and Lucas Counties. (Snyder, Apr 2004)

Over 170 pond owners from Lorain and Medina counties learned more about weed control, fish stocking, aquatic nuisance species, and pond ecology during a pond seminar at the Lorain County Extension Facility and an invited presentation at Landmark Coop's fish day in Grafton, Ohio (Kelch, May-Jun 2004)

Seventy five youth learned more about Lake Erie during educational sessions taught by Kelch and others during the 21st Annual Ohio 4-H Sea Camp, June 27-July 2, 2004, at the Kelleys Island 4-H Camp. Educational topics included aquatic biology, fish handling and preparation, shipwrecks, snorkeling, aquatic nuisance species, angling techniques, boat handling, sailing, GPS navigation and traditional 4-H camp activities. The original Sea Camp concept was developed by Ohio Sea Grant specialists in 1984, with over 1,700 youth learning more about Lake Erie over the past 21 years. (Jun 2004)

US Senator George Voinovich, US Congresswoman Marcy Kaptur, other legislators and their representatives from two U.S. Senate offices, seven U.S. House offices, three Ohio Senate offices and twelve Ohio House offices joined Ohio Sea Grant and Ohio State University administrators and personnel, Ohio Sea Grant advisory committee members, volunteer boat captains and guests for the 15th Congressional/Legislature Day on Lake Erie, July 16, 2004. This program highlights the accomplishments of Ohio Sea Grant and illustrates the values and needs of the Lake Erie region to elected officials. It likewise strengthens relationships between elected officials and the University. (Reutter, Hageman, Snyder, Jentes-Banicki, Kelch, Lichtkoppler, Lucente, Williams and Riesen)

The Great Lakes Area Ecosystem Research Consortium (GLAERC) met at Stone Laboratory for a research update and a dozen science writers co-hosted by the National Wildlife Federation and members of

Ohio's Coastal Resources Advisory Council participated in hands-on science cruises and Lake Erie ecosystem updates during August, 2004 (Hageman, et al.)

Over 500 youth ages 5 to 13 learned more about Lake Erie ecology at presentations made at the Ottawa National Wildlife Refuge and Lake Erie Nature and Science Center. (Riesen, Sep 2004)

Three hundred fifth grade students learned more about Lake Erie and Aquatic Science at the Explore Your Backyard Program. (Riesen & Snyder, Sep 2004)

Eighty high school students learned more about Lake Erie ecology at the Lake County Envirothon preparation, held at Penitentiary Glen, Lake County Metropark. (Riesen, Oct. 2004)

Over 450 individuals learned more about Lake Erie issues and concerns, including fish consumption, fishery biology, impacts of nuisance species and the Dead Zone at 12 educational programs taught by Kelch. These educational programs are part of the ongoing National Sea Grant Program effort to increase educational outreach regarding sport angling opportunity. (Apr- Sep 2004)

Fifty graduate students at Cleveland State University learned more about Lake Erie current issues at a lecture presented by Riesen (Oct. 2004).

Ninety-Five teachers at the Cleveland Regional Council of Science Teachers, John Carroll University learned more about Ohio Sea Grant, Stone Lab and Lake Erie issues at the Ohio Sea Grant display booth. (Hageman and Riesen, Nov. 2004).

Table E-2: Ohio Sea Grant Extension Combined Activities 2004

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	1	5		Williams	Junior Achievement		Education	26				
2004	1	6		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	13		x		
2004	1	6		Williams	SAE partners meeting		Business Development	7				
2004	1	7		Kelch	osu advisory committee	Elyria	osu update, planning	18	x			
2004	1	7		Williams	Web Site Development		Extension Edu.	7				
2004	1	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED MTG.	35				
2004	1	8		Lucente	Lucas County Staff Mtg.	Toledo	Office Conference	12				
2004	1	9		Hageman	Put-in-Bay Senior Center	Put-in-Bay	Stone Laboratory Research	16				
2004	1	9		Williams	Staff Mtg		Business Development	104				
2004	1	10		Hageman	Pheasants Forever State Council	Upper Sandusky	Winter Meeting	260				
2004	1	11	12	Lichtkoppler	JIPAC, Sea Grant, USFWS, Pet Dealers	Chicago, IL	AIS Aquarium Pets Project	31				
2004	1	12		Hageman	Pheasants Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	4				
2004	1	12		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x			
2004	1	12		Williams	Junior Achievement		Education	26				
2004	1	12		Williams	Land Use Conference Call		Program Development	8				
2004	1	12		Williams	Social Econ. Cuy RAP		Sea Grant	12				
2004	1	12		Williams	Web Design		Extension Edu.	2				
2004	1	13		Lucente	West District-OSU Extension	Findlay	Electronic Visual Disp. In-Service	38				
2004	1	13		Williams	Extension Staff Mtg		Extension Edu.	7				
2004	1	14		Lucente	OSU Extension Professionals	Columbus	Local Govt. Leadership	20				XX
2004	1	14		Snyder	Out Here Magazine Interview	Port Clinton	Pond Management					XX
2004	1	15	25	Lichtkoppler	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2004	1	15		Lucente	OSU Extension Professionals	Columbus	Local Govt. Leadership	20				XX
2004	1	15		Snyder	Lakeland Boating Magazine Interview	Port Clinton	Zebra Mussels, Personal Watercraft					XX
2004	1	15		Williams	Urban Conversation		Extension Edu.					XX
2004	1	16	25	Kelch	Mid-American Boat Show	Cleveland	Sea Grant Information Booth		x			XX
2004	1	16	25	Kelch	mid-America boat show presentations	Cleveland	dead zone, fish consumption	225	x			XX
2004	1	16		Lucente	West District-OSU Extension	Findlay	District Office Conference	18				
2004	1	16		Snyder	OSUE District Office Staff	Findlay	Office Conference	9				
2004	1	16		Williams	Arnold lockett	Findlay	Port of Cleveland	20				
2004	1	16		Williams	Boat Show		Sea Grant					
2004	1	17	18	Hageman	Cleveland Boat Show	Cleveland	Ohio Sea Grant Display Booth					XX
2004	1	19		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x			XX
2004	1	20		Kelch	sea camp conference call	Elyria	2004 sea camp planning	10				
2004	1	20		Lichtkoppler	MARC/SAMP	Mentor	MARC Development	8				
2004	1	20		Williams	OEDC Mtg-columbus							
2004	1	21		Kelch	clean marinas program meeting	Cleveland	planning, review bmp's				x	
2004	1	21		Snyder	Clean Marinas Board	Cleveland	Planning Meeting	15				XX
2004	1	21		Williams	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					
2004	1	21		Williams	bulkheard public mtg	Cleveland		25				
2004	1	22		Kelch	cfaes ag faculty council meeting	mt.vernon	ag faculty council business				x	
2004	1	22		Lichtkoppler	Local officials	Painesville	MARC Plan Implementation	5				
2004	1	22		Snyder	GLSGN Conference Committee	Port Clinton	Conference Planning Call	11	x			XX
2004	1	24	25	Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth	14	x			XX
2004	1	26		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14				
2004	1	27		Lichtkoppler	USACE - Great Lakes Commission	Painesville	Conf call Sustainability Conf	12				
2004	1	27		Snyder	GLSGN HACCP Bait Committee	Port Clinton	Planning Conference Call	8				
2004	1	27		Snyder	Coastal Ohio Board	Sandusky	Board & Staff Development Comm	3				
2004	1	27		Williams	Economic Development Net	Stow		18				
2004	1	28		Kelch	lorain county visitors bureau board mtg	lorain	tourism planning.	20				
2004	1	28		Lichtkoppler	GL Sea Grant Prog Leaders	Painesville	Conf Call/GL Sea Grant Topics	8				
2004	1	28		Lucente	Jerry Thomas, West District Director	Toledo	Program Planning	2				
2004	1	28		Snyder	Bass Magazine Interview	Port Clinton	Plankton					XX
2004	1	28		Snyder	GLSGN Program Leaders	Port Clinton	Planning Conference Call	9				

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Table E-2: Ohio Sea Grant Extension Combined Activities 2004

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	1	29		Lichtkoppler	Chagrin River Salmon Assoc.	Eastlake	Lake Erie Fishing, Steelhead	36				
2004	1	29		Lucente	Robert McCall, West District	Toledo	Conference Call-Planning	2				
2004	1	30	2-Feb	kelch	w.l. baumler distributor show	huron	sea grant display, publications				x	XX
2004	2	2		Hageman	Ohio Sea Grant Extension	Put-in-Bay	Conference Call				8	
2004	2	2		Lichtkoppler	Citizens	Painesville	SAMP Preview	12				
2004	2	2		Lucente	Sea Grant Agents	Toledo	Staff Conference Call	8				
2004	2	2		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	2		Snyder	Coastal Ohio Board	Sandusky	Document Review	3		x		
2004	2	2		Snyder	Ohio Sea Grant Staff	Port Clinton	Program Update Conf. Call	7		x		
2004	2	2		Williams	Junior Achievement	Cleveland		30				
2004	2	3		kelch	lake erie commission public meeting	toledo	balanced growth initiative mtg				x	
2004	2	3		Lucente	Lucas County Staff Mtg.	Toledo	Office Conference	12				
2004	2	3		Lucente	Local Officials, State Officials	Toledo	Lake Erie Balanced Growth Init.	25				
2004	2	3		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	17		x		
2004	2	3		Williams	Ohio Lake Erie Commission	Toledo	Balanced Growth Initiative				30	
2004	2	3		Lucente	Land Use Conference Call	Cleveland		5				
2004	2	4		Lucente	OSU Extension Professionals	Findlay	Lead Programs in Comm. Dev.	16				
2004	2	4		Williams	North Coast Web design	North Olmsted		3				
2004	2	5		kelch	submerged lands advisory sub-comm	lorain	plans for 04, buoys, preserve	6				
2004	2	5		Lucente	Economic Development Professionals	Toledo	Cluster Group Study In E.D.	20				
2004	2	5		Snyder	Jerry Thomas, West Dist. Director	Port Clinton	Program Evaluation	2				
2004	2	5		Snyder	OSU West Dist. Aquaculture Comm.	Port Clinton	Aquaculture Conference Call	6				
2004	2	5		Williams	Economic Development Breakfast club	Cleveland		4				
2004	2	5		Williams	SAE partners meeting	Akron		8				
2004	2	6		Lichtkoppler	LECO Exec Comm	Elyria	Lake Erie Coastal Ohio Program	5				
2004	2	9		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	9		Williams	Junior Achievement	Cleveland		30				
2004	2	10		kelch	le vb sub committee meeting	lorain	tourism issues, bureau policy		7	x		
2004	2	10		Williams	Land Use Conference Call	Cleveland	Land Use	5				
2004	2	11		Snyder	Toledo School Teachers	Toledo	AIS in Lake Erie	32				
2004	2	11		Williams	Extension Staff Mtg	Cleveland	Agent mtg					
2004	2	12		kelch	west cleveland walleye association	cleveland	lake erie issues/concerns	41				
2004	2	12		Lucente	OSU Land Use Team	Toledo	Conference Call- Land Use	17				
2004	2	12		Williams	Macelli Dairy	Cleveland	Business Development	9				
2004	2	13	15	Lichtkoppler	Eastlake Fishing Symposium	Eastlake	Lake Erie Fishing, Steelhead					XX
2004	2	13		Snyder	MSU Museum Committee	Port Clinton	Exhibit Conf. Call	9				
2004	2	16		kelch	lorain city extension office conference	elyria	sea grant update	16				
2004	2	16		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	17		kelch	westlake sportsman club	westlake	lake erie issues/concerns	35				
2004	2	17		Lichtkoppler	MARC/SAMP	Mentor	MARC Development					
2004	2	17		Lichtkoppler	Steelhead Anglers	Cleveland	Steelhead Survey Results	8				
2004	2	17		Snyder	Sandusky River Property Owners	Fremont	No Wake Zone Hearing	61				
2004	2	18		Williams	Creating a Business retention	Buffalo NY	Business Attraction planning	6				
2004	2	19		Hageman	Friends of Stone Laboratory	Columbus	Winter Lecture & Open House				100	
2004	2	19		kelch	osu stone lab winter lecture/open house	columbus	sea grant display, publications				x	
2004	2	19		Williams	Ohio Neld	Columbus	Leadership Presentations	6				
2004	2	20		Lucente	West District Office	Findlay	District Office Conference	15				
2004	2	20		Snyder	OSUE West District Staff	Findlay	Office Conference	12				
2004	2	20		Snyder	West District Budget Committee	Findlay	Budget Development	5		x		
2004	2	23		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	24		kelch	great lakes commission pub hearing	parma	contaminants/pollution station	100				
2004	2	24		Lichtkoppler	Citizens, agency officials	Parma	Great Lakes Restoration Priorities	55				
2004	2	24		Lucente	State, Local Officials, general Public	Parma	Great Lakes Restoration Mtg.	50				
2004	2	24		Snyder	Cleveland Area Citizens	Cleveland	Great Lakes Restoration Hearing	78				

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2004	2	25		keich	fin feather fur outfitters seminar	ashland	steelhead seminar	85		x		
2004	2	26		Lucente	Sea Grant Agents	Toledo	Conference Call	8				
2004	2	26		Snyder	Ohio Sea Grant Staff	Port Clinton	Program Conference Call	7				
2004	2	27		keich	weol radio interview	elyria	steelhead fishery, consuming fish					XX
2004	2	27		Snyder	Ohio Sea Grant Staff	Port Clinton	Fishery Poster Conf. Call	5				
2004	3	1		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x		
2004	3	1		Snyder	Terra College Elder College Program	Port Clinton	Lake Erie Ecosystem	14				
2004	3	1		Williams	Junior Achievement	Cleveland	Life Skills	30				
2004	3	2		Lucente	Bo Loeffler, Chic Elum, Fred Snyder	Port Clinton	Local Business Development	3				
2004	3	2		Snyder	Port Clinton Businessmen	Port Clinton	OSU Performing Arts Center					
2004	3	2		Williams	AveryDennison	Painesville	Business Development	4				
2004	3	2		Williams	PODS	Columbus	Business Development	4				
2004	3	2		Williams	Pre-employment Training	Cleveland	Life Skills	5				
2004	3	2		Williams	Akron Region dev	Akron, Oh	SAE Machine Trade Shows	4				
2004	3	3		keich	lake erie nature & science center	bay village	steelhead seminar	105	x	x		
2004	3	4		keich	wool buckeye sportsman radio show	columbus	fish consumption, steelhead					xxx
2004	3	4		Lucente	Greg Davis, Cheryl Barber, OSU Ext.	Toledo	Conference Call - Leadership Dev.	3				
2004	3	4		Williams	downtown office task force	Cleveland	marketing-downtown	19				
2004	3	5		Williams	Junior Achievement	Cleveland	Success Skills	30				
2004	3	6		Hageman	Ohio Charter Captains Conference	Sandusky	Lake Erie Update Conference	160				
2004	3	6		keich	Ohio Charter Captains Conference	Sandusky	dead zone, display, publications	160				
2004	3	6		Lichtkoppler	Ohio Charter Captains Conference	Sandusky	Charter Survey Results	160				
2004	3	6		Lucente	Ohio Charter Captains Conference	Sandusky	Annual Charter Captain's Conf.	160				
2004	3	6		Snyder	Ohio Charter Captains Conference	Sandusky	Charter Business Management	160	x	x		
2004	3	7		Hageman	Pheasants Forever State Council	Roundhead	Quarterly Meeting				8	
2004	3	8		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x		
2004	3	8	11	Williams	SAE Show	Detroit, MI	Business Development	600				
2004	3	9		Lichtkoppler	Grand River Partners	Painesville	Land Use	23				
2004	3	9		Lucente	OSU Ext. Land Use Team	Toledo	Conf. Call- Issue Framing	16				
2004	3	9		Snyder	Toledo Blade Interview	Port Clinton	New Walleye Regulations					XX
2004	3	10		keich	graffton lions club	graffton	lake erie update/info	32				
2004	3	10		keich	midview high school biology classes	graffton	lake erie dead zone	67				
2004	3	11		keich	cleveland sport show	cleveland	set up sea grant display			x		
2004	3	11		keich	cleveland fishing association	cleveland	lake erie dead zone	57				
2004	3	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2004	3	11		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED MTG.	32				
2004	3	12		Snyder	West District Extension Staff	Findlay	Applied Research Inservice	22		x		
2004	3	13	21	keich	Cleveland Sports & Outdoor Show	cleveland	Sea Grant Information Booth		x	x		XX
2004	3	13	21	Lichtkoppler	Cleveland Sports & Outdoor Show	cleveland	Sea Grant Information Booth					XX
2004	3	13	14	Snyder	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	15		Hageman	Pheasants Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	8				
2004	3	15		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x	x	
2004	3	16	18	Hageman	Candidates for Employment	Columbus	Stone Lab Summer Employment	17				
2004	3	16		keich	clean marinas program meeting	marblehead	planning, review draft bmp				x	
2004	3	16		keich	governors submerged land a/c mtg	lorain	pass resolutions, elections	5				
2004	3	16		Lichtkoppler	MARC/SAMP	Mentor	IMARC Development	8				
2004	3	16		Snyder	Marina Mangers & Agencies	Port Clinton	Clean Marinas Pilot	25		x		
2004	3	16		Williams	OEDC Mtg-columbus	Columbus	Business Development	12				
2004	3	17		Snyder	Ohio Sea Grant Staff	Columbus	Materials Pickup	10				
2004	3	18		Snyder	Fremont City News Interview	Port Clinton	Lake Erie Outlook					XX
2004	3	18		Snyder	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	19		Hageman	Scholarship Committee	Columbus	Stone Lab Scholarship Awards				9	
2004	3	19		Lichtkoppler	LECO Exec Comm	Bay Village	Lake Erie Coastal Ohio Program	5				
2004	3	19		Lichtkoppler	LECO Board of Directors	Bay Village	Lake Erie Coastal Ohio Program	20				

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2004	3	19		Lucente	West District Office	Findlay	District Office Conference	14				
2004	3	19		Snyder	West District Extension Staff	Findlay	Staff Meeting	13				
2004	3	19		Snyder	BGSU Firelands Students	Huron	AIS Impacts on Lake Erie	23				
2004	3	19		Williams	ODA-fundamental of ED/Circleville, Oh		Business Development	35				
2004	3	20		Hageman	Bio-Sci Alumni/FOSL	Columbus	Buckeye Hop Planning Meeting				8	
2004	3	20		kelch	bgsu firelands campus biology 101	huron	dead zone pres to bio 101 class	17				XX
2004	3	20		Snyder	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	21		Hageman	Cleveland Sports Show	Cleveland	Ohio Sea Grant Display Booth					XX
2004	3	21		Snyder	Toledo Area Citizens	Toledo	Lake Erie Issues Update	65				
2004	3	21		Hageman	Coastal Ohio	Oregon	Lake Erie Eco-Tourism	45				
2004	3	22		Lucente	Lake Erie Coastal Ohio Workshop	Oregon	Present Lake Erie Info.	24				
2004	3	22		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x			
2004	3	23		Lucente	OSU Extension Update	Bowling Green	Budget Update	21				
2004	3	23		Snyder	Coastal Ohio Portal Training	Huron	Lake Erie Issues Update	48				
2004	3	24		kelch	sea camp conference call	elyria	2004 camp planning	10				
2004	3	24		Lichtkoppler	LECO Tourist	Kirtland	Lake Erie Issues	30				
2004	3	24		Williams	SunSet Industries/eucld	Eucld, Oh	Business Development	3				
2004	3	25		Lichtkoppler	Scientists, agency officials, citizens	Erie, PA	LE Botulism Workshop	38				
2004	3	25		Williams	Exploring the Relationship between	CSU	Continuing ED					
2004	3	25	27	Hageman	Pheasants Forever, Chapter 291	Sandusky	Annual Banquet			330		
2004	3	26		kelch	beaver park marina	Iorain	cmp & research vessel needs	3				
2004	3	26		Lucente	Jerry Thomas, Greg Davis, OSU Ext.	Findlay	Program Planning	3				
2004	3	26		Williams	CoreNet partners meeting/columbus	Columbus	Business Development					
2004	3	29		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x			
2004	3	29		Snyder	West District AG/NRE	Lima	Research Center Development	7				
2004	3	31		Hageman	Northwest Ohio Teachers	Toledo	Water in Our Environment WS	105				
2004	3	31		kelch	Iorain county visitors bureau board mtg	Iorain	tourism planning.				x	
2004	3	31		Lichtkoppler	ARP Meetings	Ashabula	Ashabula River Cleanup	25				
2004	3	31		Snyder	Fremont High School Students	Fremont	Viet Nam Experiences	150				
2004	4	2		Hageman	Amy Aerni	Catawba Island	Shadowing Opportunity			3		
2004	4	2		Snyder	West District Extension Staff	Findlay	Moser Address; New Districts	15				
2004	4	5		kelch	vermillion lions club	vermillion	lake erie dead zone	35				
2004	4	6		Snyder	OSU Extension	Columbus	Spring Conference				200	
2004	4	7		Snyder	Cleveland State Univ. Researchers	Port Clinton	Education Interview	4				
2004	4	7		kelch	Iorain county visitors bureau board mtg	Iorain	policy committee meeting	8	x			
2004	4	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	30				
2004	4	9		Lucente	Robert McCall, OSU Watershed Ag.	Toledo	Conference Call	2	x			
2004	4	9		kelch	osu extension directors internal a/c	columbus	extension issues/concerns	19				
2004	4	13		kelch	elyria kiwanis club luncheon	elyria	lake erie dead zone	42				
2004	4	14		Snyder	Lake Erie Commission	Bay Village	Quarterly Update				75	
2004	4	14		kelch	lake erie commission metting	bay village	lake erie issues/concerns				x	
2004	4	15		Hageman	Wynford High School - Bucyrus	Gibraltar Island	Aquatic Science Workshop Progra	41				
2004	4	15		kelch	lake erie update/walleye seminar	bay village	fisheries update/angling/biology	78				
2004	4	16		Hageman	Newark Catholic High School	Gibraltar Island	Aquatic Science Workshop Progra	12				
2004	4	16		Lucente	West District Office	Findlay	District Office Conference	14				
2004	4	16		Snyder	West District Extension Staff	Findlay	Office Conference	12				
2004	4	16		kelch	claes faculty council meeting	oards/wooster	faculty issues/university senate	24				
2004	4	17	18	Hageman	Friends of Stone Lab	Gibraltar Island	Spring Work Weekend			14		
2004	4	19		Hageman	Pheasants Forever, Chapter 294	Oak Harbor	Monthly Board Meeting	4				
2004	4	20		Hageman	Ohio Sea Grant Staff	Columbus	Staff Conference Call				8	
2004	4	20		Lichtkoppler	Sea Grant Staff	Painesville	Staff Conference Call				6	
2004	4	20		Lucente	Ohio Sea Grant Staff	Toledo	Staff Conference Call	8				
2004	4	20		Snyder	Ohio Sea Grant Staff	Port Clinton	Staff Conference Call	7				
2004	4	20		kelch	Ohio Sea Grant Staff	elyria	Staff Conference Call				x	

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2004	4	21		kelch	lake erie update/walleye seminar	ashland	fisheries update/angling/biology	47				
2004	4	22	23	Hageman	Rootstown High School	Gibraltar Island	Aquatic Science Workshop Program	30				
2004	4	22		Lichtkoppler	Great Lakes Commission	Painesville	Sustainability Conference conf call				12	
2004	4	22		Lucente	OSU Extension Smart Growth Comm.	Columbus	National Issues Forum Mtg.	22				
2004	4	22		Snyder	Fulton Co. Pond Owners	Wauseon	Farm Pond Management	35				
2004	4	22		kelch	central basin charterboat association	Iorain	dead zone, fisheries update	37				
2004	4	23		Snyder	West District Extension Staff	Findlay	Griffiths Retirement				60	
2004	4	23		kelch	lake erie bass anglers club	elyria	lake erie update/info	26				
2004	4	25	28	Snyder	Sea Grant Program Leaders	Jekyll Island, GA	Assembly Meeting	65				
2004	4	26		Lichtkoppler	Citizens	Painesville	Mentor Marsh & Development				3	
2004	4	27		Hageman	Bucyrus High School	Gibraltar Island	Aquatic Science Workshop Program		25			
2004	4	27		Hageman	O.S.U. Extension	Gibraltar Island	West District Office Conference				90	
2004	4	27		Lichtkoppler	OSUE Faculty	Painesville	N Dist P&T conf call				5	
2004	4	27		Lichtkoppler	Citizens	Ashtabula	Fields Brook Restoration	50				
2004	4	27		Lucente	OSU Extension	Ada	Annual Spring Meeting	155				
2004	4	28	30	Hageman	Sewickley, Academy - Pittsburgh, PA	Gibraltar Island	Aquatic Science Workshop Program	68			23	
2004	4	28		Lichtkoppler	ARP Meetings	Ashtabula	ARP cleanup of Ashtabula River				5	
2004	4	29		Lichtkoppler	Clean Boater Meeting	Bay Village	Ohio Clean Boater Program					
2004	4	29		Lucente	Don Lacy, OSU Extension	Toledo	Conference Call	2	x			
2004	4	30		Hageman	Kenwood Elementary - Bowling Green	Gibraltar Island	Aquatic Science Workshop Program	81				
2004	4	30		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Aquarium Project				7	
2004	4	30		kelch	Iorain port authority meeting	Iorain	port development, angling	6				
2004	5	3		Hageman	Bellevue Jr. High School	Gibraltar Island	Aquatic Science Workshop Program			27		
2004	5	3		Williams	PET	Cleveland	Business Development	16				
2004	5	4		Hageman	Rocky River High School	Gibraltar Island	Distance Learning Program-Fish La	12				
2004	5	4		Lichtkoppler	Great Lakes Commission	Cleveland	GLC Semi Annual meeting	200				
2004	5	4		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	13	x			
2004	5	4		Williams	Economic Deve Breakfast Club	Cleveland	Business Development	5				
2004	5	4		Williams	Growth Capital	Cleveland	Staff Mtg	6				
2004	5	4		Williams	Screen Art Products	Cleveland	Business Development	3				
2004	5	5		Hageman	Oregon High School	Gibraltar Island	Aquatic Science Workshop Program		22			
2004	5	5	6	Hageman	Laurel School - Shaker Heights	Gibraltar Island	Aquatic Science Workshop Program		43			
2004	5	5	6	Lichtkoppler	Regional Leaders	Cleveland	GLC Sustainability Conference				50	
2004	5	5		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Surveys	2	x		5	
2004	5	5		Lucente	Robert McCall, OSU Watershed Ag.	Toledo	Conference Call- Leadership	72				
2004	5	5		kelch	Iorain city ces pond clinic	elyria	pond mgmt issues	8				
2004	5	6		Hageman	Toledo Zoo Educators	Gibraltar Island	Facilities Tour	3				
2004	5	6		Williams	Pyramid Plastic	Cleveland	Business Development	3				
2004	5	6		Williams	S. Stimicha	Cleveland	Business Development	3				
2004	5	6		Williams	Metal Management	Cleveland	Business Development	2				
2004	5	6		kelch	west cleveland walleye association	Cleveland	lake erie update/info	45				
2004	5	7		Hageman	Shelby Hand/Any Aerni	Gibraltar Island	Shadow Tour			2		
2004	5	7	8	Hageman	Pleasant View M.S. - Grove City	Gibraltar Island	Aquatic Science Workshop Program			29		XX
2004	5	7		Snyder	WCNP Radio Interview	Cleveland	Lake Erie Issues					
2004	5	10		Hageman	Amherst Steele - Amherst	Gibraltar Island	Aquatic Science Workshop Program		30			
2004	5	10		Hageman	Ford Middle School - Brookpark	Gibraltar Island	Aquatic Science Workshop Program		34			
2004	5	10		Snyder	OSU Extension	Port Clinton	Prof. improvement Conf. Call	18				
2004	5	10		Williams	Economic Development Network	Cleveland	Conference Call	5				
2004	5	10		kelch	black river remedial action committee	elyria	black river cleanup issues				x	
2004	5	11		Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop Program		35			
2004	5	11	12	Lichtkoppler	Youth grades 4 to 7	Ashtabula	AIS classes Waterways Symposium				90	
2004	5	11		Williams	OEDCMtg Marysville Oh Honda Plant	Marysville, OH	OEDC	36				
2004	5	11		kelch	smallmouth bass/lake erie seminar	ashland	bass angling, fishery update	68				
2004	5	12		Hageman	O.S.U. Lima	Gibraltar Island	Aquatic Science Workshop Program			34		

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2004	5	12	13	Hageman	Woodside M.S. - Ft. Wayne, IN	Gibraltar Island	Aquatic Science Workshop Program			44		
2004	5	12		Snyder	Portage Elementary School Students	Port Clinton	Hooked on Fishing - Not Drugs	72				
2004	5	12		Williams	City of Cleveland-Cortney McClain	Cleveland	Business Development	2				
2004	5	12		Williams	Williams Mtg	Cleveland	OSU	4				
2004	5	12		Williams	Glen Goode Shore Bank	Cleveland	Business Development	2				
2004	5	12		Williams	Screen Art Products	Cleveland	Business Development	3				
2004	5	12		Williams	Fishermans All Natural	Cleveland	Business Development	2				
2004	5	12		Williams	First Energy-Akron	Akron, Oh	Business Development	6				
2004	5	13		Hageman	Stone Lab Staff	Columbus	Pre-Summer Supply Run			6		
2004	5	13	14	Hageman	Perry/McCard M.S. - Worthington	Gibraltar Island	Aquatic Science Workshop Program			68		
2004	5	13		Lichtkoppler	Mentor Marsh Board of Management	Mentor	Marsh Management				14	
2004	5	13		Lucente	OSU Extension Tourism Conference	Lancaster	Tourism Conference	32				
2004	5	13		Snyder	Mid-Ohio Walleye Club	Mansfield	Lake Erie Issues	31				
2004	5	13		Williams	Terrel Mtg-Strongsville	Strongsville, Oh	Business Development	4	19			
2004	5	13		kelch	lcvb vip open house event	lorain	value of lake erie tourism	150				XX
2004	5	14		Hageman	Stone Lab Staff	Gibraltar Island	3-Department Meeting				10	
2004	5	14	16	Hageman	O.S.U. Limnology Class	Gibraltar Island	Class Field Trip - Culver	20				
2004	5	14		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Leadership Data Analysis	2		x		
2004	5	14		kelch	lake erie wreck divers/mast mtg	vermillion	archeological wreck mapping				x	
2004	5	15		Hageman	O.S.U. Geology Class	Gibraltar Island	Class Field Trip -Krissek	12				
2004	5	15		kelch	lcvb public open house	lorain	tourism, lake erie				x	
2004	5	17		Hageman	Hudson Montessori	Gibraltar Island	Facilities Tour	30				
2004	5	17		Hageman	Richmond Heights Christian Academy	Gibraltar Island	Facilities Tour			15		
2004	5	17		Hageman	All Saints Catholic School - Rossford	Gibraltar Island	Aquatic Science Workshop Program			39		
2004	5	17		Hageman	Meadowlawn School I - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			28		
2004	5	17		Lichtkoppler	Sea Grant, University Researchers	Columbus	Economic Issues				10	
2004	5	17		Lucente	Sea Grant, University Researchers	Columbus	Economic Issues	12				
2004	5	17		Snyder	Sea Grant, University Researchers	Columbus	Economic Issues	17				
2004	5	17		Williams	PET	Cleveland	Business Development	16				
2004	5	17		kelch	Sea Grant, University Researchers	columbus	Economic Issues				x	
2004	5	18		Hageman	Meadowlawn School II - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			29		
2004	5	18		Hageman	Elderhostel II	Gibraltar Island	Aquatic Science Workshop Program			31		
2004	5	18	19	Hageman	Kelleys Island School	Gibraltar Island	Aquatic Science Workshop Program			5		
2004	5	18		Hageman	Olmstead Falls - Olmstead Twp.	Gibraltar Island	Facilities Tour	24				
2004	5	18		Hageman	South Amherst High School	Gibraltar Island	Facilities Tour	112				
2004	5	18	19	Hageman	West Carrollton M.S.	Gibraltar Island	Aquatic Science Workshop Program			20		
2004	5	18		Lichtkoppler	OSUE & SG Staff	Painesville	Staff Issues				5	
2004	5	18		Lichtkoppler	MARC Participants	Mentor on the Lake	MARC / Special Area Mgt Plan				10	
2004	5	18	21	Lucente	Southern Comm. Dev. Assoc. Conf.	Tampa, FL	Leadership Presentations	275		x		
2004	5	18		Williams	Growth Capital	Cleveland	Staff Mtg	4				
2004	5	18		Williams	Broadview Heights Mtg with mayor	Broadview Hts, Oh	Office location	4				
2004	5	18		kelch	sea camp conference call	elvira	2004 sea camp planning				x	
2004	5	19		Hageman	Gibsonburg M.S.	Gibraltar Island	Facilities Tour	101				
2004	5	19		Hageman	Meadowlawn School III - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			27		
2004	5	19	20	Hageman	Miamisburg Middle School	Gibraltar Island	Aquatic Science Workshop Program			66		
2004	5	19		Lichtkoppler	OSUE	Wooster	Spring Staff conference	100				
2004	5	19		Williams	North District Extension Mtg	Wooster						
2004	5	19		kelch	osue spring conference	wooster/oardc	professional development				x	
2004	5	20		Hageman	Meadowlawn School IV - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program	29				
2004	5	20		Lichtkoppler	Aquarium PE's conf call	Painesville	AIS Surveys				5	
2004	5	20		Lichtkoppler	Fairport Rod & Reel	Fairport	Lake Erie fisheries & current issues				45	
2004	5	20		Lichtkoppler	GLC Boating Study Committee	Painesville	GLC boating study				6	
2004	5	20		Williams	NAMI-conference	Columbus						
2004	5	20		kelch	midview middle school 8th grade class	graffton	lake erie, dead zone	32				

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	5	21		Hageman	Meadowlawn School V - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			27		
2004	5	21		Hageman	Rich Warren	Gibraltar Island	Article for Country Living Magazine	1				
2004	5	21		Hageman	Ohio & Ottawa Co. Tourism Bureau	Put-in-Bay	Island Tourism	3				
2004	5	21	22	Hageman	Village Academy - Powell, OH	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	5	21		Snyder	West District Extension Staff	Bowling Green	District P&T Committee	5				
2004	5	21		Williams	Pyramid Plastic	Cleveland	Business Development	2				
2004	5	22	23	Hageman	Thomas More College	Gibraltar Island	Class Field Trip			9		
2004	5	24		Hageman	Whiteford M.S. - Ottawa Lake, MI	Gibraltar Island	Aquatic Science Workshop Program	80				XX
2004	5	24		Snyder	Toledo Blade Interview	Port Clinton	Freshwater Drum					
2004	5	24		Williams	PET	Cleveland	Business Development	16				
2004	5	25		Hageman	Lake H.S. - Millbury	Gibraltar Island	Aquatic Science Workshop Program			28		
2004	5	25		Hageman	South Amherst Middle School	Gibraltar Island	Aquatic Science Workshop Program			17		
2004	5	25	26	Hageman	Ducks Unlimited, Ohio EPA Invitees	Fremont	Wetlands & Water Quality Workshop				60	
2004	5	25		Williams	Economic Development Network Summit	Rollison, Oh	Education	70				
2004	5	25		kelch	marina owners meeting	lorain	clena marina program	6				
2004	5	26	27	Hageman	Horizons Program - Toledo	Gibraltar Island	Aquatic Science Workshop Program			74		
2004	5	26	28	Lichtkoppler	IAGLR 04 Conference Participants	Waterloo, Canada	GL Charters, ILE Steelhead				80	
2004	5	26		Williams	Williams Trucking	Solon, Oh	Business Development	20				
2004	5	27	28	Hageman	Erwine Middle School - Akron	Gibraltar Island	Aquatic Science Workshop Program	44				
2004	5	27		Lucente	Jill Banicki, OSU Sea Grant	Toledo	Conference Call	2				
2004	5	28	29	Hageman	Immaculate Conception - Bellevue	Gibraltar Island	Aquatic Science Workshop Program			68		
2004	5	28		Snyder	West District Extension Staff	Findlay	District P&T Committee	4				
2004	6	1	3	Hageman	Buckeye Valley M.S. - Radnor	Gibraltar Island	Aquatic Science Workshop Program	2		55		
2004	6	2		Williams	Tyler Elevator	Cleveland	Business Development					
2004	6	3		Hageman	Coastal Ohio Committee	Port Clinton	Lake Erie Islands Field Guide				13	
2004	6	3		Hageman	Armerst Jr. High - Armerst	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	6	3		Hageman	Our Lady of Mount Carmel	Gibraltar Island	Facilities Tour	33				
2004	6	3		Lichtkoppler	Citizens	Mentor	Local Development				50	
2004	6	3		Williams	Zayfran Inc	elyria	Business Development	2				
2004	6	3		Williams	Washbash Alloys	Cleveland	Business Development	2				
2004	6	3		Williams	Milano Monuments	Brookpark, Oh	Business Development	2				
2004	6	3		Williams	All Staff Mig-Extension	Cleveland	OSU					
2004	6	4		Hageman	Stone Lab Staff/Supervisors	Gibraltar Island	Public Safety Meeting				20	
2004	6	6		Hageman	EEOB 125 Students	Gibraltar Island	Stone Lab Orientation	10				
2004	6	6		Snyder	Western Basin Sportfishing Assoc.	Vermilion	Ohio Sea Grant Overview	35				
2004	6	7		Lichtkoppler	Pre retirement seminar	Wooster	retirement issues				24	
2004	6	7		Williams	Bendix corp	elyria	Business Development	6				
2004	6	7		Williams	Economic Development Conference Ca	Cleveland	Planning Educational forum	5				
2004	6	7		kelch	osue seminar	wooster/oardc	professional development				x	
2004	6	8		Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	8		Hageman	Kent State/Central St. University	Gibraltar Island	Aquatic Science Workshop Program			14		
2004	6	8		Lichtkoppler	Grand River Partners	Geauga Co.	River Preservation				8	
2004	6	8		Williams	Cuyahoga Rap	Broadview Hts, Oh	Sea Grant	13				
2004	6	8		Williams	Growth Capital	Cleveland	Business Development	5				
2004	6	9		Hageman	Grizzei M.S. - Dublin	Gibraltar Island	Aquatic Science Workshop Program			40		
2004	6	9		Hageman	Bruce Leach - Bio-Pharmacy Library	Gibraltar Island	Summer Library Prep			2		
2004	6	9		Lichtkoppler	Sea Grant Committee	Painesville	Sea Grant update				5	
2004	6	9	11	Snyder	Ontario Live Bait Dealers	Sudbury, Ontario	HACCP Training & Certification	32	x			
2004	6	9		Williams	C/SU Regionalism mtg	Cleveland	Planning Educational forum	6				
2004	6	9		Williams	Extension Agent Mtg	Cleveland	osu					
2004	6	10		Lichtkoppler	Mentor Marsh Board of Management	Mentor	Marsh Management				12	
2004	6	10		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Meeting	30				
2004	6	10		kelch	westlake sportsman club	westlake	lake erie update/info	57				
2004	6	11		Hageman	Paul Zakriski	Gibraltar Island	Research Project Initiation			1		

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2004	6	11		Hageman	Columbus Athletic Club	Catawba Island	Walleye Tournament Judging	126				
2004	6	11		Lichkoppner	Aquarium PE Ts conf call	Painesville	AIS Aquarium Project				8	
2004	6	11		Lucente	Bruce Clevenger, OSU Extension	Bowling Green	Vita Mentoring Mtg.	2		x		
2004	6	12		Hageman	Association Biology Lab Education	Gibraltar Island	Aquatic Science Workshop Program					
2004	6	12		kelch	pond days seminar, graffion landmark	graffion	pond mgt issues	103				
2004	6	13		Hageman	EEOB 126, 693 & NRE 614	Gibraltar Island	Stone Lab Orientation	24				
2004	6	14		Lichkoppner	Sea Grant Program Leaders	Painesville	Great Lakes Sea Grant update	12				
2004	6	14		Lichkoppner	Citizens	Mentor	Local Development/Land Use				45	
2004	6	14		Snyder	GLSGN Program Leaders	Port Clinton	Great Lakes Sea Grant update	12				
2004	6	14		Williams	OVA Meeting	Columbus	Business Development	39				
2004	6	15	16	Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	15		Lichkoppner	Ohio Sea Grant Staff	Painesville	Staff Conference Call	8				
2004	6	15		Lucente	Ohio Sea Grant Staff	Toledo	Staff Conference Call	8				
2004	6	15		Snyder	Ohio Sea Grant Staff	Port Clinton	Staff Conference Call	8				
2004	6	15		Williams	Sandusky Register Interview	Port Clinton	Mayflies					XX
2004	6	15		Williams	Growth Capital-staff mtg	Cleveland	Business Development	5				
2004	6	15		Williams	OEDC	Columbus	Business Development	12				
2004	6	15		kelch	sea camp conference call	elyria	final plans, 2004 sea camp				x	
2004	6	16		Williams	Interstate Mc Bee	Cleveland	Business Development	3				
2004	6	16		Williams	Gutter Shutter Company	Cleveland	Business Development	3				
2004	6	16		Williams	Commercial Induction Co.	Cleveland	Business Development	3				
2004	6	17		Hageman	Dr. Rosanne Fortner Audience	Gibraltar Island	Research Lecture - On Line Educ.			26		
2004	6	17		Hageman	Dr. Linda Weavers Audience	Gibraltar Island	Guest Lecture - Sediment Remediation			26		
2004	6	17		Hageman	Pawlik Family	Gibraltar Island	Facilities Tour	11				
2004	6	17		Lucente	Econ. Dev. Information Coalition	Findlay	Economic Development Forum	46				
2004	6	17		Williams	Bendix corp	Elyria	Business Development	9				
2004	6	18		Snyder	Toledo Blade Interview	Port Clinton	Mayflies					XX
2004	6	18		Williams	Tax Credit committee-Columbus	Cleveland	Business Development	10				
2004	6	20		Hageman	Term One & Week 3 Students	Gibraltar Island	Stone Lab Orientation	27				
2004	6	21		Hageman	Dr. Larry Capifini	Gibraltar Island	Laboratory Animal Protocol Training			20		
2004	6	21		Hageman	Drs. Capitini, Tallman, Frolicker	Stone Lab	Laboratory Animal Protocol Insped	4				XX
2004	6	21		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayflies					XX
2004	6	21		Snyder	Lorain Journal Interview	Port Clinton	Mayflies					XX
2004	6	22	23	Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	22		Lichkoppner	MARC Participants	Mentor on the Lake	MARC / Special Area Mgt Plan				9	
2004	6	22		Lichkoppner	Ashtabula OSUE Adv Committee	Jefferson	Lake Erie fisheries & current issues				20	
2004	6	23		Snyder	Pittsburgh Tribune Interview	Port Clinton	Mayflies					XX
2004	6	24		Hageman	Dr. Michael Hogarth Audience	Gibraltar Island	Research Lecture - Mussels			49		
2004	6	24		Hageman	Dennis Shornack Audience	Gibraltar Island	Guest Lecture - Invasive Species			49		
2004	6	24		Lichkoppner	OEPA/ Citizens	Painesville	Land Use / Wetland Loss				25	
2004	6	25		Hageman	American Water Works Association	Gibraltar Island	Aquatic Science Workshop Progra	11				
2004	6	25		Lichkoppner	OSUE CD agents	Painesville	Sustainable CD conf call				8	
2004	6	25		Lichkoppner	LECO Ex Comm & Full Board	Mentor	LECO Project / Mentor Lagoons	15			12	
2004	6	25		Snyder	LECO Ex Comm & Full Board	Mentor	LECO Project / Mentor Lagoons	15				
2004	6	26		kelch	women in the outdoors event	medina	basic angling, fish biology	64				
2004	6	27	30	Hageman	Geo 107 and Nat 690 Students	Gibraltar Island	Stone Lab Orientation	24				
2004	6	27		kelch	21st ohio 4-h sea camp	kelley's island	youth aquatic ed programs	83				
2004	6	28		Williams	Economic Development Network-Akron	Akron, Oh	Educatio forum	5				
2004	6	28		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	6	29		Hageman	BGSU Governors Summer Institute	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	6	29		Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	29		Lichkoppner	Aquarium PE Ts conf call	Painesville	AIS Aquarium Project				7	
2004	6	29		Williams	Joe Pattenery-Network Membership Op	Cleveland	Business Development	2				
2004	6	29		Williams	ODA-merger meeting with OEDC	Columbus	Business Development	7				

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2004	6	30		Hageman	Kelley's Island 4-H Sea Camp	Gibraltar Island	Aquatic Science Workshop Program			14		
2004	6	30		Lichkoppler	ARP Meetings	Ashtabula	ARP cleanup of Ashtabula River				18	
2004	6	30		Lucente	Great Lakes Commission, Agencies	Sandusky	Roundtable Steering Comm. Mtg	18				
2004	6	30		Snyder	NW Sea Grant Advisory Committee	Port Clinton	Program Update & Planning	10	x			
2004	6	30		Williams	ACT Training for Growth Staff	Cleveland	Business Development	5				
2004	7	1		Hageman	Ottawa National Wildlife Refuge	Gibraltar Island	Facilities Tour	19				
2004	7	1		Hageman	Visitors for Guest Lecture	Gibraltar Island	Ohio Chief Justice Tom Moyer Lecture			7		
2004	7	1		Williams	ED Network Regionalism forum	Cleveland	Program Development	9				
2004	7	1		Williams	ACT Training for Growth Staff	Cleveland						
2004	7	1		kelch	21st ohio 4-h sea camp last day	kelleys island	youth aquatic ed programs	83				
2004	7	2		Hageman	Sea Grant Extension Staff	Bay Village	Interview Candidates, Fisheries Ext. Ag.				8	
2004	7	2		Lichkoppler	Sea Grant Staff	Bay Village	Fish Ext Interviews	8				
2004	7	2		Lucente	OH Sea Grant Extension Staff	Cleveland	Sea Grant Fisheries Interviews	9				
2004	7	2		Snyder	Ohio Sea Grant Staff	Bay Village	Fisheries Agent Interviews	15				
2004	7	2		kelch	sea grant fee interviews	bay village	interview applicants for fee job	13				
2004	7	3		Hageman	Rebecca & Stacey Boston	Gibraltar Island	Career in Marine Biology w/Dr. Krisek			3		
2004	7	6		Hageman	Sea Grant Conference Call	Columbus	Fisheries Extension Agent Selection			8		
2004	7	6		Lichkoppler	GL Sea Grant Agents	Painesville	AIS Grants Conference Call	6				
2004	7	6		Lucente	OH Sea Grant Extension Staff	Toledo	Conference Call- Interview/Cand.	6				
2004	7	6		Snyder	GLSGN Committee Conf. Call	Port Clinton	AIS Research	10				
2004	7	6		Snyder	Port Clinton City Council	Port Clinton	Transient Marina Presentation	22		x		
2004	7	6		kelch	black river rap committee meeting	shelfield village	black river cleanup issues				x	
2004	7	7		Hageman	ODNR and Outdoor Press	Port Clinton	Governors Fish Ohio Day				90	
2004	7	7		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tour		x	10		
2004	7	7		Lucente	OSU Extension Watershed Educators	Fremont	Ohio Watershed Leaders	3				
2004	7	7		Snyder	Outdoor Writers, State Agencies	Port Clinton	Fish Ohio Day				150	
2004	7	8		Hageman	Krach	Gibraltar Island	Facilities Tour	4				
2004	7	8		Lichkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2004	7	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	32				
2004	7	9		Lichkoppler	AIS Aquarium Grant Partners	Painesville	Survey Design	4				
2004	7	9		Williams	Bendix Corp With Arnold Lockett	elyria	Business Development	5				
2004	7	9		Williams	Mike Dessort-Pyramid Plastic	Cleveland	Business Development					
2004	7	10		kelch	elyria/grafon boy scouts campout	Wellington	basic fisheries & aquatic biology	36				
2004	7	11		Hageman	EEOB 125 and NRE 629 students	Gibraltar Island	Stone Lab Orientation	25				
2004	7	13		Hageman	BGSU Governors Institute	Gibraltar Island	Aquatic Science Workshop Program			16		
2004	7	13		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	14		x		
2004	7	13		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	7	13		Williams	Chicago SBA loan review	Cleveland	Business Development	5				
2004	7	14		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tol	27				
2004	7	14		Lichkoppler	AIS Aquarium Grant Partners	Painesville	HabitatTideTM	7				
2004	7	14		kelch	clean marina program conf call	elyria	clean marina program planning				x	
2004	7	15		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Rosol-Lightning Bug/Cancer Rsch			7		
2004	7	15		Lichkoppler	AIS Aquarium Grant Partners	Painesville	Survey Design	4				
2004	7	15		Snyder	Woodside Fish Farm	Bellevue	Yellow Perch Culture	8				
2004	7	15		Snyder	Port Clinton Citizens	Port Clinton	Transient Marina Presentation	19		x		
2004	7	15		Williams	Ferrell Mfg	Strongsville, Oh	Business Development	3				
2004	7	15		Williams	HP Realty One Presentation-State of ed	Independence	Presentation	38				
2004	7	15		Williams	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Hageman	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Lichkoppler	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Lucente	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Snyder	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160		x		
2004	7	16		kelch	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	18		Hageman	GEO 583 and ENT 126 Students	Gibraltar Island	Stone Lab Orientation	18				

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2004	7	18	21	Lucente	Community Development Society	Cleveland	Local Government Leadership	365				
2004	7	19		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	Habitat/Attitude TM	6				
2004	7	19		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	6				
2004	7	19		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayflies					XX
2004	7	20		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	5				
2004	7	20		Lichtkoppler	Extension Professionals	Geneve on the Lake	Lake Erie Ecology & Issues	35				
2004	7	20		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	7	20		Williams	CD conference tour	Cleveland	OSU Ext programming	37				
2004	7	20		keich	osu extension directors internal a/c	columbus	extension issues/concerns				x	
2004	7	20		keich	governors submerged land a/c mtg	vermillion	u/w resources issues/concerns	18				
2004	7	21		Hageman	Nature Camp at the Bay	Gibraltar Island	Aquatic Science Workshop Program			13		
2004	7	21		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tol	13				
2004	7	21		Lichtkoppler	Graduate students	Lake shore	Lake Erie Grology Tour	8				
2004	7	21		Williams	OEDC	Cleveland	Columbus	20				
2004	7	22		Snyder	London, Ontario Free Press Interview	Port Clinton	Rusty Crayfish					XX
2004	7	22		Williams	City of Brooklyn TBZ	Brooklyn	Business Development	4				
2004	7	22		keich	lorain county bass busters club	shelfield village	lake erie updates	16				
2004	7	23		Lichtkoppler	LECO-Ex Comm	Lorain	Lake Erie Coastal Tourism	6				
2004	7	24		Hageman	EEOB 692 Class	Put-in-Bay	Ichthyoplankton ID Workshop	3				
2004	7	25		Hageman	EEOB125.653.ENT612.BOT611 Class	Gibraltar Island	Stone Lab Orientation	28				
2004	7	25	31	Snyder	EEOB 125 Students (OSU)	Stone Lab	Intro to Aquatic Biology - 3 credit H	50	x			
2004	7	26		Hageman	Bowser Family	Gibraltar Island	Gibraltar Is. Tour and Science Cru	12				
2004	7	26	31	Riesen	Intro Aquatic Biology course	Stone Lab	participant in course				10	
2004	7	26		keich	new fee agent training	bay village	begin new agent training with fee				x	
2004	7	28		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tol	24				
2004	7	28		Lichtkoppler	Ashtabula River Partnership	Ashtabula	ARP Project & Coordinating Conf	30				
2004	7	28		keich	icvb policy sub-committee meeting	lorain	rewriting bureau handbook, regs	7				
2004	7	29		Hageman	Visitors for Guest Lecture	Gibraltar Island	Leon Carl, Dam Removal & Fisheries			5		
2004	7	29		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	5				
2004	7	29		Lichtkoppler	Painesville Kiwanis	Painesville	Lake Erie Fisheries	12				
2004	7	29		Lichtkoppler	Chagrin River Salmon Association	Eastlake	Lake Erie Issues	61				
2004	7	29		Lucente	Local elected officials	Put-in-Bay	TMACOG Annual Mtg.	175				
2004	7	29		Riesen	Lake Erie Nature and Science Center S	Bay Village	Staff Meeting				5	
2004	7	30		Hageman	Lorain Community College	Gibraltar Island	Aquatic Science Workshop Program			7		
2004	7	30		Hageman	Chief, Div. Of Wildlife	Gibraltar Island	Conference Room Facilities	3				
2004	7	30	31	Hageman	State Council, Pheasants Forever	Toledo	Summer Business Meeting	75				
2004	7	30		Lichtkoppler	GL Commission & SG Agents	Painesville	GLOS Briefing	8				
2004	8	2		Lichtkoppler	PLC Planning Commission Director	Painesville	MARC / SAMP	2				
2004	8	2		Williams	Kevin, Snotzer City of Cleveland-Inter	Painesville	Business Development	3				
2004	8	2		keich	new fee agent training	bay village, lorain, cleve	new agent training, familiarization				x	
2004	8	3	5	Hageman	National Wildlife Fed. & Guests	Gibraltar Island	Science Writers Tour	41				
2004	8	3		Lichtkoppler	Key Leaders	Stone Lab	Lake Erie Issues	20				
2004	8	3		Snyder	Ohio Lake Erie Commission	Huron	Large Grant Proposal Review	15				
2004	8	3		Riesen	Great Lakes Reporters Tour	Stone Lab	observer				25	
2004	8	3		Williams	Call Scott Morrow-	Cleveland	Business Development	2				
2004	8	4		Hageman	Toledo Zoo Education Dept	Gibraltar Island	Aquatic Science Workshop Program			9		
2004	8	4		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tol	17				
2004	8	4		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	7				
2004	8	4		Lucente	GLC Roundtable Steering Committee	Toledo	Conf. Call- Steering Committee	15				
2004	8	4		Williams	IMTS show Prep Columbus	columbus	Business Development	12				
2004	8	4		Williams	Growth Capital Team Mgt	Cleveland	Business Development	5				
2004	8	5		Hageman	Great Lakes Eco System Consortium	Gibraltar Island	GLAERC Annual Summer Meeting			45		
2004	8	5		Hageman	Visitors for Guest Lecture	Gibraltar Island	Geoff Wallat, Ohio Aquaculture				11	
2004	8	5		Lichtkoppler	GL Sea Grant Agents	Painesville	AIS Water Garden Preproposal	6				

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Table E-2: Ohio Sea Grant Extension Combined Activities 2004

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	8	5		Lichtkoppler	GL Sea Grant Agents	Painesville	ALS Education Preproposal	4				
2004	8	5		Snyder	OSUE Staff Conf. Call	Port Clinton	Water Garden AIS Proposal	4				
2004	8	5		Riesen	GLAERC conference	Stone Lab	observer				50	
2004	8	5		Williams	Volunteer Appreciation-Junior Achievement	Cleveland	volunteer	20				
2004	8	6	8	Hageman	Carmella Massaro Group	Gibraltar Island	Facilities Tour and Independent Rsch			3		
2004	8	6		Snyder	Clean Marinas Board	Sandusky	Materials Development	12			x	
2004	8	6		keich	clean marina program meeting	sandusky	clean marina program planning					
2004	8	8		Riesen	Smallmouth Bass Anglers	Lorain	contacts, help with fish				200	
2004	8	9		Williams	Frank Lichtkoppler	Painesville	Vitae Prep	2				
2004	8	9		keich	new fee agent training	bay village, lorain, cleve	new agent training, familiarization				x	
2004	8	10	13	Hageman	Ohio Sea Grant Extension	Lorain	Staff Meeting				9	
2004	8	10		Lichtkoppler	Sea Grant Staff	Lorain	Staff Meeting	8				
2004	8	10		Lucente	OH Sea Grant Staff	Elyria	Agent Staff Meeting	10				
2004	8	10		Snyder	Ohio Sea Grant Staff	Elyria	Staff Meeting	10			9	
2004	8	10		Riesen	Sea Grant Staff Meeting	Elyria	AIS proposals					
2004	8	10		Williams	Sea Grant Agents Mtg	Elyria	Staff Mtg	8				
2004	8	11		Hageman	Tour Group	S. Bass Lighthouse	South Bass Lighthouse History To	7				
2004	8	11		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History To	46				
2004	8	11		Williams	MB Dynamics	Bedford Hts.	Business Development	3				
2004	8	11		Williams	Chris Strong-National Association of ma	Cleveland	Business Development	2				
2004	8	11		Williams	Bob Howath-empowerment zone	Cleveland	Business Development	2				
2004	8	11		Williams	Shore bank Laura Klieman	Cleveland	Business Development	3				
2004	8	12		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2004	8	12		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED MTG.	33				
2004	8	12		Snyder	GLSGN Committee Conf. Call	Port Clinton	FISHERIES Extension Enhancement	11				
2004	8	12		Riesen	Fisheries Extension Conference Call	Painesville	Fisheries Extension Enhancement				10	
2004	8	12		Williams	Attila Falka- Snitzel company	Cleveland	Business Development					
2004	8	12		Williams	Carlozo Bernard Cardwell	Cleveland	Business Development					
2004	8	12		Williams	Marty Dvrito -site visit-osu ext.	Cleveland	Site Review					
2004	8	12		Williams	Ann culter Wedding Shop	Cleveland	Business Development					
2004	8	13		Williams	EEOB 694 Class	Gibraltar Island	Stone Lab Orientation	8				
2004	8	15		Hageman	Great Lakes Historical Society	Gibraltar Island	Facilities Tour	14				
2004	8	16		Hageman	GLSGN Committee Conf. Call	Port Clinton	Network Awards	9				
2004	8	16		Snyder	Port Clinton Citizens	Port Clinton	Transient Marina Open House	23		x		
2004	8	16		Williams	Bendix Deal Team mtg	Elyria	Business Development	9				
2004	8	17		Riesen	Division of Wildlife	Fairport Harbor	Meeting/contact with DOW				2	
2004	8	17		Williams	Regionalism & Equity Mtg	Cleveland	Program Development	8				
2004	8	17		Williams	Growth Capital Team Mgt	Cleveland	Business Development	5				
2004	8	17		Williams	Jacon ketrick	Cleveland	Business Development	2				
2004	8	18		Hageman	Tour Group	S. Bass Lighthouse	South Bass Lighthouse History To	13				
2004	8	18		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History To	37				
2004	8	18		Snyder	Fremont Citizens	Fremont	Balville Dam Removal	26				
2004	8	18		Williams	Ray Headen	Cleveland	Business Development	2				
2004	8	18		Williams	Terrel Mig-Strongsville	Strongsville	Business Development					
2004	8	18		Hageman	Coastal Resources Advis. Council	Gibraltar Island	Science Cruise and Meeting	13				
2004	8	19		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Yu Ping Chin-Photoremediation			1		
2004	8	19	20	Hageman	Mucal Muchivi from Kenya	Gibraltar Island	Facilities Tour	1				
2004	8	19	20	Hageman	Bendix Fyha Terjesen from Norway	Gibraltar Island	Facilities Tour	1				
2004	8	19		Lichtkoppler	GL Commission	Painesville	Great Lakes Boating Study	5				
2004	8	19		Lucente	West Regional District Office	Findlay	Staff Meeting	14				
2004	8	19		Snyder	West District Extension Staff	Findlay	Extension Center Development	12				
2004	8	20		Kelly Riesen	West District Extension Staff	Port Clinton	Western Basin Familiarization	2				
2004	8	20		Riesen	Fred Snyder/Sea Grant	Camp Perry	Meeting with Sea Grant Agent				2	
2004	8	20		Williams	Gary Sosenko	Cleveland	Business Development					

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2004	8	23		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	HabitatTitude™	7				
2004	8	24		Hageman	Put-in-Bay Residents	Put-in-Bay	Town Hall Meeting RE: Island Illness				90	
2004	8	24		Snyder	American Fisheries Society Nat. Mtg	Madison, WI	Charter Industry Paper	50				
2004	8	24	26	Riesen	American Fisheries Society Nat. Mtg	Madison, WI	professional development				200	
2004	8	24	26	Williams	John Kilbane Business Mgr Laborers 31	Cleveland	Business Development	4				
2004	8	24		Williams	Shorebank	Cleveland	Business Development	3				
2004	8	24		Williams	Michael Kaise	Cleveland	Business Development	2				
2004	8	24	26	kelch	American Fisheries Society Nat. Mtg	Madison, WI	present paper, steelhead research				x	
2004	8	24		Hageman	Tour Group	S.Bass Lighthouse	South Bass Lighthouse History To	6				
2004	8	25		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	11				
2004	8	25		Hageman	Great Lakes Science Center	Gibraltar Island	Aquatic Science Workshop Program			10		
2004	8	25		Lichtkoppler	Ashtabula River Partnership	Ashtabula	ARP Project & Coordinating Conf	25				
2004	8	25		Lichtkoppler	Ashtabula River Partnership & Friends	Ashtabula	Annual Meeting	45				
2004	8	25		Williams	Mine door Deal Team meeting	Cleveland	Business Development	6				
2004	8	25		Williams	Team neo project one	Cleveland	Business Development	4				
2004	8	25		Williams	Chris Warren Shorebank	Cleveland	Business Development	3				
2004	8	25		Williams	Chicago Deli- Mr. Levine-business plan	Cleveland	Business Development	3				
2004	8	26		Lichtkoppler	Chagrin River Salmon Association	Eastlake	Lake Erie Dead Zone	41				
2004	8	26		Lucente	Ohio Watershed Leaders	Cleveland	Present-LE Balanced Growth	58				
2004	8	26		Williams	Urban league 2930 prospect micro ente	Cleveland	Business Development					
2004	8	27		Hageman	Genoa H.S. German Club	Gibraltar Island	Facilities Tour	16				
2004	8	30		Lucente	GLC Roundtable Steering Committee	Toledo	Conf. Call- Steering Committee	15				
2004	8	30		Riesen	Ohio Angling Association	Cleveland	Attend meeting/dead zone				35	
2004	8	30		Williams	laborer 310	Cleveland	Business Development	5				
2004	8	30		Williams	NCB Ann Zador	Cleveland	Business Development	3				
2004	8	30		Williams	Shawn Davis-Team Neo	Cleveland	Business Development	5				
2004	8	30		Williams	Chris Warren Shorebank	Cleveland	Business Development					
2004	8	30		kelch	cleveland fishing association	cleveland	lake erie dead zone	55				
2004	8	31		Lichtkoppler	Extension Agents	Brecksville	Regional Sustainability	10				
2004	8	31		Snyder	Ottawa SWCD	Oak Harbor	Staff Development Mtg.	35				
2004	9	1		Hageman	ODNR Staff	Gibraltar Island	Facilities Tour and Lunch	12				
2004	9	1	2	Hageman	Phillips-Osborne Sch-Painesville	Gibraltar Island	Aquatic Science Workshop Program			17		
2004	9	1		Lichtkoppler	Extension Staff	Painesville	Computer Training				11	
2004	9	1		Lucente	OSU Extension Land Use Team	Columbus	Land Use Mtg.	21				
2004	9	1		Snyder	Lucas County Pond Owners	Curtice	Farm Pond Management	29				
2004	9	1		Williams	Conference call Bendix	Cleveland	Business Development	16	9			
2004	9	1		Williams	Smart Growth committee-columbus	Columbus	Program Development	7				
2004	9	1	10	kelch	new fee agent training	bay village, orain, cleve	new agent training, familiarization				x	
2004	9	2	3	Hageman	Hathaway Brown Sch-Shaker Heights	Gibraltar Island	Aquatic Science Workshop Progra	70				
2004	9	2		Lichtkoppler	ODNR Watercraft	Columbus	Lake Erie Water Trail LECCO					
2004	9	2		Snyder	West District Extension Staff	Port Clinton	Agric. Committee Conf. Call	5				
2004	9	2		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	9	3		Hageman	OSU Development Officers	Gibraltar Island	Facilities Tour				3	
2004	9	3		Lucente	Kelly Riesen, Fisheries Coordinator	Toledo	Lucas County Tour and Intro.	2	x			
2004	9	3		Riesen	Meeting with Sea Grant Agent/Joel Luc	Toledo	familiarize/Toledo area					
2004	9	7	8	Hageman	Hilliard Station I	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	9	7		Lichtkoppler	Mentor City Officials	Mentor	Marsh Preservation & Zaoning	25				
2004	9	7		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	16		x		
2004	9	7		Snyder	Bay Pointe Marina	Danbury	Pond Management	5				
2004	9	7		Snyder	Western Basin Sportfishing Assoc.	Port Clinton	AIS Impacts in Lake Erie	27				
2004	9	7		Williams	Sam Chika Local 38 Electrical workers	Cleveland	Business Development	8				
2004	9	7		Williams	Chris Warren Shorebank	Cleveland	Program Development	44				
2004	9	8	9	Hageman	Hilliard Station II	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	9	8		Lucente	GLC Roundtable Steering Committee	Toledo	Conf. Call- Steering Committee	15				

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2004	9	8		Snyder	Leadership Ottawa County	Oak Harbor	Lake Erie Issues Update	16				
2004	9	8		Williams	Julia Hess-Business Plan	Cleveland	Business Development	2				
2004	9	8		Williams	Regionalism & Equity Mtg	Cleveland	Program Development	8				
2004	9	8	16	Williams	IMTS travel	Chicago II	Business Development					
2004	9	9	10	Hageman	Hilliard Station III	Gibraltar Island	Aquatic Science Workshop Program			37		
2004	9	9		Lichtkoppler	Citizens	Painesville Twp.	Coastal Ecology				16	
2004	9	9		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	41				
2004	9	9		Riesen	LENSC staff meeting	LENSC/Bay Village	Strategic planning				30	
2004	9	10		Hageman	Jefferson Elem. Port Clinton	Gibraltar Island	Aquatic Science Workshop Progra	46				
2004	9	10	12	Hageman	Friends of Stone Lab Board	Gibraltar Island	Homecoming Annual Meeting			25		
2004	9	10		Williams	Bio Tech Conference Call	Cleveland	Program Development	4				
2004	9	11		Hageman	Open House Visitors	S. Bass	South Bass Lighthouse History Tour			479		
2004	9	11		Hageman	Open House Visitors	Gibraltar Island	Gibraltar Island Open House			817		
2004	9	11	15	Riesen	Sea Grant Network Conference	Stone Lab	attend conference				75	
2004	9	11	15	keich	great lakes sea grant network conf	put-in-bay	professional development				x	
2004	9	12		Hageman	Great Lake Sea Grant Conference	S. Bass	Tour of South Bass Island	6				
2004	9	12	15	Hageman	Great Lake Sea Grant Conference	Gibraltar Island	Conference			70		
2004	9	12	15	Lichtkoppler	Sea Grant Agents	Put-In-Bay	GL SG Network Conference	80				
2004	9	12	16	Lucente	Great Lakes Sea Grant Netwk. Conf.	Put-In-Bay	GL Network Conference	150				
2004	9	12	15	Snyder	Great Lakes Sea Grant Network	Put-in-Bay	Regional Conference	120	x			
2004	9	12		Williams	Rhonda Hardy, ILL Ext Program	Chicago II	Program Development	2				
2004	9	12		keich	ghsgn lake erie wreck snorkel trip	put-in-bay	shipwreck education for peers	4				
2004	9	15	16	Hageman	Bataan Elem.-Port Clinton	Gibraltar Island	Aquatic Science Workshop Program	40		45		
2004	9	15		Hageman	Evangel Christian HS-Gahanna	Gibraltar Island	Aquatic Science Workshop Progra					
2004	9	15		keich	ghsgn conf. u/w preserves session	put-in-bay	chair session, presentation	28	x			
2004	9	16		Hageman	St. Marys of the Falls-Olmsted Fall	Gibraltar Island	Aquatic Science Workshop Program			18		
2004	9	16	17	Hageman	Dempsey M.S.-Delaware	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	9	16		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	10				
2004	9	16	19	keich	lemta in-water boat show	sandusky	clean marinas/osg display					XX
2004	9	17	18	Hageman	Millford Jr High-Milford	Gibraltar Island	Aquatic Science Workshop Program			60		
2004	9	17		Riesen	5th graders from various schools	Oak Harbor	Wetland/water education	500				
2004	9	18	24	Snyder	13th International AIS Conference	Ennis, Ireland	AIS Impacts in Lake Erie Paper	50			200	
2004	9	18		Riesen	steelhead anglers	Lake County Metroparks	information kiosk	200				
2004	9	19		Riesen	boaters/boat show	Sandusky	Clean boaters/Clean marinas	100				
2004	9	20		Hageman	West Holmes H.S.-Millersberg	Gibraltar Island	Aquatic Science Workshop Program			17		
2004	9	20	21	Hageman	The Wellington School-Columbus	Gibraltar Island	Aquatic Science Workshop Progra	56				
2004	9	20		Williams	Shorebank	Cleveland						
2004	9	20		Williams	Bio Tech	Cleveland	Program Development	5				
2004	9	20		Williams	Pipeline Mtg Shorebank	Cleveland	Business Development	7				
2004	9	20		Williams	Ann Zabcar NCB	Cleveland	Business Development	2				
2004	9	21		Hageman	Dr. Reutter and mother Gen	Gibraltar Island	Facilities Tour and Lunch				2	
2004	9	21		Lichtkoppler	MARC/SAMP	Mentor	Continue the MARC	11				
2004	9	21	23	Lichtkoppler	PET Industry Trade Show	Las Vegas, NV	Habitat/attitude TM	100				
2004	9	21		Williams	oedc COLUMBUS	Cleveland	Business Development	16				
2004	9	22		Hageman	Franklin Elem.-Elyria	Gibraltar Island	Aquatic Science Workshop Progra	34				
2004	9	22		Williams	Turkey Hill dairy	Cleveland	Business Development	3				
2004	9	22		Williams	Douglas Hill business plan prep	Cleveland	Business Development	2				
2004	9	22		keich	lcvb board of directors meeting	Iorain	tourism, steelhead impacts	22				
2004	9	23		Hageman	Portage Elem. Gypsum	Gibraltar Island	Aquatic Science Workshop Program			53		
2004	9	23		Hageman	Lake Erie Islands Chapter #074	Put-in-Bay	Ducks Unlimited Banquet			106		
2004	9	23	24	Hageman	Bellefontaine H.S.	Gibraltar Island	Aquatic Science Workshop Program			7		
2004	9	23		Williams	OSU site visits	Cleveland	Program Development	3				
2004	9	23		Williams	Faith Durden Business plan prep	Cleveland	Business Development	2				
2004	9	23		Williams	Peter Grunberg UL Inc	Cleveland	Business Development	2				

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2004	9	23		Williams	Cuyahoga Remedial Action	Cleveland	Sea Grant	17				
2004	9	24		Hageman	Lakota Jr High-Amsden	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	9	24		Hageman	Gibsonburg M.S.	Gibraltar Island	Gibraltar Is.Science & History Tou	82				
2004	9	24		Lichtkoppler	LECO Ex Comm	Vermilion	LECO Mgt.	5				
2004	9	24		Lichtkoppler	LECO Board	Vermilion	Coastal Tourism	12				
2004	9	24		Riesen	fishing captain/Steve Carlson	Huron	on-water education/training				2	
2004	9	24		Williams	Bill McClung Regionalis & Equity prep	Cleveland	Program Development	2				
2004	9	24		Williams	Terrel Mfg-Strongsville	Strongsville, Oh	Business Development	3				
2004	9	24	26	Hageman	Buckeye Island Hop	Gibraltar Island	Community Service Projects			40		
2004	9	25		Riesen	Rocky River Watershed Festival/Familid	Rocky River	Sea Grant display	200				
2004	9	25		Williams	NOMBC BLACK TIE	Cleveland	Business Development	2				
2004	9	26		Hageman	Teacher/Students/Parents	Gibraltar Island	Stone Lab Open House	18				
2004	9	27		Hageman	Newark Catholic H.S.-Newark	Gibraltar Island	Aquatic Science Workshop Program					
2004	9	27		Hageman	Stlmane & Osbourne from England	Gibraltar Island	Aquatic Science Workshop Progra	2				
2004	9	27	28	Hageman	Brecksville H.S.	Gibraltar Island	Aquatic Science Workshop Progra	23				
2004	9	27		Williams	Bill Iatoni-H&R Inc	Westlake, Oh	Business Development	2				
2004	9	27		Williams	Marvin Hall Business Plan prep	Cleveland	Business Development					
2004	9	28		Hageman	Stacey Boston-Cardington	Gibraltar Island	Aquatic Science Workshop Progra	1				
2004	9	28		Hageman	Elderhostel Group III	Gibraltar Island	Aquatic Science Workshop Progra	30				
2004	9	28	29	Hageman	Worthingway M.S.-Worthington	Gibraltar Island	Aquatic Science Workshop Progra	62				
2004	9	28	29	Lichtkoppler	Tom Blaine	Painesville	JEM Paper Rewrite	2				
2004	9	28		Snyder	Sandusky County 4th Grade Students	Fremont	Aquatic Ecology	85				
2004	9	28	29	Riesen	Sandusky County 4th Grade Students	Fremont	Aquatic life	300				
2004	9	28		Williams	Business networking Strongsville	Strongsville, Oh	Business Development	56				
2004	9	28		Williams	Growth Capital staff meeting	Cleveland	Business Development					
2004	9	28		kelch	Iorain sailing club	Iorain	lake erie dead zone	36				
2004	9	29	30	Hageman	Columbus School for Girls	Gibraltar Island	Aquatic Science Workshop Program			60		
2004	9	29		Williams	Douglas smith Business Plan Prep	Cleveland	Business Development	2				
2004	9	30		Lichtkoppler	SW Mgt Team	Painesville	Recycling Survey	5				
2004	9	30		Lucente	OSU Extension- State Comm. Dev.	Columbus	Strategic Planning	42				
2004	9	30		Riesen	kindergarten/Lake Erie Hike	Erie Nature and Sciences (Lake Erie/Aquatic Life	18				
2004	9	30		Williams	CD Strategic plan Fawcett Center	Columbus	Program Development					
2004	10	1		Hageman	Mark Shieldcastle, OH Div. Of Wildlife	Oak Harbor	Goose Disease Outbreak	2				
2004	10	1		Hageman	Ohio Chapter, American Fisheries Soc.	Cleveland	Perch Fishing Clinic				22	
2004	10	1		Lichtkoppler	OSU Extension Faculty & Staff	Wooster	P&T	9				
2004	10	1		kelch	n region faculty p&t comm meeting	wooster/ordc	Faculty promotion & tenure	8			x	
2004	10	2		Hageman	Cleveland Treatment Center	Gibraltar Island	Aquatic Science Workshop Program			13		
2004	10	2		Hageman	Teachers	Gibraltar Island	Aquatic Science Workshop Progra	9				
2004	10	4		Hageman	OSU Development Office	Gibraltar Island	General Mason Visit	4				
2004	10	4		Hageman	Avon H.S. - Avon	Gibraltar Island	Aquatic Science Workshop Program			28		
2004	10	4	5	Hageman	Jonathan Alders H.S. - Plain City	Gibraltar Island	Aquatic Science Workshop Program			23		
2004	10	4		Williams	Economic Dev.	Cleveland	Business Dev.	3				
2004	10	4		Riesen	High school students/Environhon	Lake County Metroparks	Aquatic life	80				
2004	10	5		Snyder	LECEBA, Port Clinton Mayor	Port Clinton	Charter Captain Honors	15				
2004	10	5		Williams	Steve Rogers	Cleveland	Business Dev.	1				
2004	10	5		kelch	Iorain city ext adv com meeting	elyria	sea grant update	27				
2004	10	5		Riesen	Cleveland State University grad student	Cleveland	Lake Erie/Current Issues	50				
2004	10	5		Riesen	Black River Audubon Society	Carlisle Res./Metroparks	Dead Zone	35				
2004	10	6		Hageman	Rocky River M.S. - Rocky River	Gibraltar Island	Ag. Science Workshop Program			62		
2004	10	6		Hageman	Pheasants Forever, Chapter 291	Vickery	Monthly Board Meeting	6				
2004	10	6		Williams	Engergizer	Westlake	Strategic Planning	24				
2004	10	7		Snyder	Clean Marinas Staff	Columbus	Program Planning	10				
2004	10	7		Lichtkoppler	OSU Extension Faculty & Staff	Columbus	P&T	11				
2004	10	7		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	27				

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2004	10	7		Williams	Horwath Medical	Avon	Business Dev.	2				
2004	10	7		kelch	clean marina program meeting	columbus	workshop & program planning	12				
2004	10	8		Hageman	Owens Community College - Toledo	Gibraltar Island	Aquatic Science Workshop Program			7		
2004	10	8	9	Hageman	Granville Intermediate Sch. - Granville	Gibraltar Island	Aquatic Science Workshop Program			21		
2004	10	8		Williams	Economic Edu.	Cleveland	Regionalism & Equity	2	200			
2004	10	8		Riesen	fishing captain/Steve Carlson	Huron	on-water education/training	2				
2004	10	10		Lichtkoppler	Cleve Mus Nat Hist	Cleveland	Lake Erie / Sea Grant Exhibit	35				
2004	10	11	13	Hageman	Hudson M.S. I. - Hudson	Gibraltar Island	Aquatic Science Workshop Program			37		
2004	10	11		Lichtkoppler	GLOS Committee	Painesville	GLoS Conf Call	8				
2004	10	11		Williams	Bardon & Oliver	Strongsville	Business Dev.	2				
2004	10	11		Williams	Dave Wagner	Cleveland	Site visit for ext office	3				
2004	10	11		Williams	Pre-employment	Cleveland	Budgeting & finance			15		
2004	10	12		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	10	12		Williams	David Otter	Strongsville	finance	2				
2004	10	12		Williams	Michael Occhionero	Cleveland	Site visit for ext office	3				
2004	10	12		kelch/riesen	cleveland woods & waters club	cleveland	lake erie dead zone	39				
2004	10	12		Riesen	LENSC staff meeting	Erie Nature and Science	education initiatives	8				
2004	10	12		Riesen	Woods and Waters sports club	Cleveland	Dead Zone	30				
2004	10	12		Riesen	Ross Environmental professionals	Lorain CCC	contacts with co. visitors bureaus	50				
2004	10	13	15	Hageman	Hudson M.S. II - Hudson	Gibraltar Island	Aquatic Science Workshop Program			36		
2004	10	13		Lichtkoppler	Great Lakes Sea Grant - Agents	Painesville	Kiosk Grant Proposal WI	6				
2004	10	13		Williams	Ext educators	Berea	Staff mtg	6				
2004	10	13		kelch	levb policy sub-committee meeting	lorain	new policy planning	8	x			
2004	10	14		Snyder	Jo Jones & Marilyn Spiegel	Port Clinton	History of Extension Interview	2				
2004	10	14		Hageman	Paul Zansky/JMET Corp.-Cleveland	Gibraltar Island	Zebra Mussel Experiment			2		
2004	10	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2004	10	14		Williams	Michael Occhionero	Cleveland	Site visit for ext office	5				
2004	10	14		Williams	Mangus Equip	Willoughby	Business Dev.	2				
2004	10	14		kelch	central basin charterboat association	lorain	lake erie update-fisheries	32				
2004	10	15		Snyder	District Extension Staff	Findlay	Staff updates	12				
2004	10	15		Hageman	Lake Ridge Academy - N. Ridgeville	Gibraltar Island	Aquatic Science Workshop Program			13		
2004	10	15		Hageman	Janelle Duncan - Miami Univ. - Oxford	Peach Pt. Rsch. Lab	Assist with Research				3	
2004	10	15	17	Hageman	O.S.U. Plankton Class	Gibraltar Island	Aquatic Science Workshop Program	9				
2004	10	15		Williams	Northeast health	Cleveland	Business Dev.	3				
2004	10	16	17	Hageman	O.S.U. Mount Scholars	Gibraltar Island	Stone Lab Program Overview	32				
2004	10	18		Hageman	Cub Scout Pack #320 - Clyde	Gibraltar Island	Aquatic Science Workshop Program			9		
2004	10	18		Williams	Pre-employment	Cleveland	Budgeting & finance	15				
2004	10	18		Williams	Terrell Mtg	Strongsville	Business Dev.	3				
2004	10	18		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	19	20	Hageman	Jackson M.S. - Grove City	Gibraltar Island	Aquatic Science Workshop Program			68		
2004	10	19		Williams	OEDC	Columbus	Marketing	16				
2004	10	20		Lichtkoppler	Great Lakes Sea Grant - Agents	Painesville	Habitat/altitude TM Conf Call	7				
2004	10	20		Lucente	Dave Kelch, Ohio Sea Grant	Toledo	Laker Erie Shipwreck Trail Mtg.	2			x	
2004	10	20		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	20		Williams	T. Allmond	Cleveland	Business Dev.	2				
2004	10	20		Williams	American Mine	Cleveland	Business Dev.	3				
2004	10	20		kelch	meeting with joe lucente	toledo	Laker Erie Shipwreck Trail Mtg.	2	x			
2004	10	21		Snyder	Ohio Sea Grant Staff	Bay Village	Sea Grant Planning meeting	9				
2004	10	21		Hageman	Ohio Sea Grant Extension	Bay Village	Meeting				8	
2004	10	21		Lichtkoppler	OH Sea Grant Staff	Bay Village	Sea Grant Program Management	8				
2004	10	21		Lucente	OSU Sea Grant Agents	Bay Village	Staff mtg.	10				
2004	10	21		Williams	Sea Grant	Avon	Sea Grant educators mtg	7				
2004	10	21		Williams	GMO Forum	Cleveland	Food Forum on GMO	37				
2004	10	21		kelch	michigan clean marina workshop	mt. clemens michigan	clean marina workshop training					

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	10	21		Riesen	Ohio Sea Grant Staff	LENSC/Bay Village	Staff Meeting	7				
2004	10	22		Lucente	OH Balanced Growth Steering Comm.	Toledo	Lake Erie Balanced Grwth. Init.	22				
2004	10	22		Williams	Joe Micelli	Cleveland	Business Dev.	3				
2004	10	22		Williams	Fishermans all natural partners & mutual	Cleveland	Business Dev.	2				
2004	10	22		Williams		Cleveland	Ext Education	7				
2004	10	25		Hageman	Pheasants Forever, Chapter 291	Camp Perry	Banquet Location				6	
2004	10	25	26	Hageman	Hilliard Tharp M.S. I - Hilliard	Gibraltar Island	Aquatic Science Workshop Program			36		
2004	10	25		Williams	A new image	WarrensVille	Business Dev.	3				
2004	10	25		Williams	Mr. Levine	Cleveland	Business Dev.	3				
2004	10	25		Williams	Pipeline mtg	Cleveland	Shorebank	9				
2004	10	25		Williams	Pre-employment	Cleveland	Budgeting & finance	15				
2004	10	25		Williams	Fundamental of Business planning	Cleveland	Ext Education	15				
2004	10	25		Williams	Growth Capital	Cleveland	Staff mtg	5				XX
2004	10	25		Williams	Fabtech	IX Center	Business Dev.					
2004	10	26	27	Hageman	Hilliard Tharp M.S. II - Hilliard	Gibraltar Island	Aquatic Science Workshop Program			31		
2004	10	26		Williams	Arnold Lockett	Cleveland	business roundtable	2				
2004	10	26		Williams	Fabtech	IX Center	Business Dev.					
2004	10	26		kelch	submerged lands adv council mtg	bowling green st univ	shipwreck protection committee	11				
2004	10	27		Lichtkoppler	ARP Project Committee	Ashtabula	Ashtabula River Clean up Dredgin	19				
2004	10	27		Lichtkoppler	ARP Coordinating Committee	Ashtabula	Ashtabula River Clean up Dredgin	15				
2004	10	27		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	27		kelch	ext directors internal advisory comm	columbus	advisory & update ext director	18				
2004	10	28		Williams	Ohio Development	Columbus	Marketing			5		
2004	10	28		kelch	area marina visits for clean marina	Iorain, vermillion	clean marina workshop info	6				
2004	10	29	30	Hageman	Clev. Regional Council of Sci. Teachers	Cleveland	Conference	90				
2004	10	29		Lichtkoppler	Great Lakes Sea Grant Agents	Painesville	Kosk Grant Proposal WI	7				
2004	10	29		Williams	Eggs & issues	Cleveland	election coverage	64				
2004	10	30		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh House Clean up	10				
2004	10	30		Riesen	Cleveland Regional Council of Science	John Carroll University	exhibit set up			95		
2004	11	1		Williams	Shorebank	Cleveland	weekly activities	5				
2004	11	1		Williams	Green Bulkhead	Cleveland	sea Grant Act.	5				
2004	11	1		Williams	board mtg	Cleveland	Sea Grant board mtg	5				
2004	11	1		Williams	Pre-employment	Cleveland	Budgeting & finance	12				
2004	11	1		Williams	Fundamental of Business planning		Ext Education	15				
2004	11	2		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	11	3		Williams	Tensile testing	Aurora	Business Dev.	3				
2004	11	3		Williams	GE Capital	Cleveland	Business Dev.	3				
2004	11	3		Williams	Fundamental of Business planning		Ext Education	14				
2004	11	3		Williams	Fsasco co.	WarrensVille	Business Dev.	2				
2004	11	4		Hageman	Dr. Stuckey / Bruce Leach	Gibraltar Island	Stone Lab Library				2	
2004	11	4		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	26				
2004	11	4		Williams	McTech	Cleveland	Business Dev.	5				
2004	11	4		Williams	Garfield alloys	Garfield	Business Dev.	3				
2004	11	4		kelch	midview high school 9th grade biology	gratton	lake erie, dead zone	63				
2004	11	5		Williams	Perk Industries	Bedford	Business Dev.	2				
2004	11	5		Riesen	LENSC staff meeting	LENSC/Bay Village	Strategic planning	15				XX
2004	11	8		Snyder	Columbus Dispatch Interview	Port Clinton	Lake Erie Industries					
2004	11	8		Snyder	LECBA Board of Directors	Port Clinton	Charter Industry Programs	14				
2004	11	8		Hageman	Pheasants Forever, Chapter 291	Vickery	Monthly Board Meeting	6				
2004	11	8		Lichtkoppler	Great Lakes Sea Grant Agents	Painesville	Kiosk Grant Proposal WI	6				
2004	11	8		Lucente	Greg Davis, OSU Ext.	Findlay	Leadership Development	2			x	
2004	11	8		Williams	aluminum Precision	Cleveland	Business Dev.	3				
2004	11	8		Williams	Shorebank	Cleveland	weekly activities	7				
2004	11	8		Williams	Ann Zadcar NCB	North Olmsted	Business Dev.	2				

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2004	11	8		Williams	Pre-employment	Cleveland	Budgeting & finance	10				
2004	11	8		Williams	Fundamental of Business planning		Ext Education	15				
2004	11	9		Snyder	Lake Erie Marina Managers	Port Clinton	Clean Marinas Workshop			20		
2004	11	9		Williams	OEDC	Columbus	Marketing	16				
2004	11	9		Williams	Lakefront Planning	Cleveland	Planning			73		
2004	11	9		Williams	Terrell Mfg	Strongsville	Business Dev.	3				
2004	11	9		kelch	1st clean marina workshop	port clinton	teach clean marina information	22				
2004	11	10		Snyder	Port Clinton Residents	Port Clinton	Municipal Aquarium Development	3				
2004	11	10		Lichtkoppler	OH Coastal Resources Mgt Program	Cleveland	Citizen Coastal Concerns	6				
2004	11	10		Lucente	Christine Bailey, Toledo COC	Toledo	Leadership Development	2		x		
2004	11	10		Williams	Educator Mfg	Cleveland	Site visit for ext office	7				
2004	11	10		Williams	Garfield alloys	Garfield	Business Dev.	2				
2004	11	11		Williams	Stork Material	Valley View	Business Dev.	3				
2004	11	11		Williams	Jim Gronoski	Cleveland	Site visit for ext office	3				
2004	11	11		Williams	Spencer Forge	Spencer, Oh	Business Dev.	3				
2004	11	11		Riesen	West Cleveland Sportsmen's Club	Grafton	Steelhead Survey Results	35				
2004	11	12		Williams	Residence Empowerment Organization	Toledo, Oh	Ext Education	34				
2004	11	15		Lichtkoppler	Lake County Officials & staff	Painesville	Program Promotion	35				
2004	11	15		Williams	Shorebank	Cleveland	weekly activities	8				
2004	11	15		Williams	ozanne construction	Cleveland	Business Dev.	3				
2004	11	15		Williams	Pre-employment	Cleveland	Budgeting & finance	10				
2004	11	15		Williams	Fundamental of Business planning	Cleveland	Ext Education	12				
2004	11	16		Hageman	Stone Lab Departments	Columbus	End of Season Meeting	3			20	
2004	11	16		Lucente	Jerry Jakes, Karen Baker, LEW	Toledo	Lake Erie West Mtg.	8		x		
2004	11	16		Williams	OEDC		Business Dev.	13				
2004	11	16		Williams	Industrial Roundtable	Cleveland	Business Dev.	11				
2004	11	16		kelch	2nd clean marina workshop	bay village	teach clean marina information	18				
2004	11	16		Riesen	Marina Owners	LENSC/Bay Village	Clean Marinas Program			18		
2004	11	17		Snyder	OSUE W. Dist. Prom. & Tenure Comm.	Findlay	Vita Review and Voting	8	x			
2004	11	17		Hageman	OH Chapter, American Fisheries Soc.	Reynoldsburg	Executive Board Meeting	10				
2004	11	17		Lucente	OH Balanced Growth Steering Comm.	Toledo	Conference Call	15				
2004	11	17		Williams	Mtg S. Strincha	Cleveland	Shorebank	4				
2004	11	17		Williams	Fundamental of Business planning	Cleveland	Business Dev.	12				
2004	11	18		Lichtkoppler	NE SG Advisory Committee	Painesville	Sea Grant / Lake Erie Priorities	10				
2004	11	18		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2004	11	18		Williams	Bendix	Elyria	Business Dev.	4				
2004	11	18		Williams	Growth Capital	Cleveland	Br. Mtg	200				
2004	11	18		Williams	Cuyahoga RAP	Cleveland	Sea Grant	23				
2004	11	18		kelch/riesen	steelhead angling seminar, LENS	bay village	steelhead biology, angling info	89	x		x	
2004	11	18		Riesen	steelhead anglers	LENSC/Bay Village	steelhead angling	70				
2004	11	19		Snyder	Wooster-Lima Joint Center Meeting	Wooster	Regional Center Development	26				
2004	11	19		Lichtkoppler	Lake Erie Coastal Ohio, Inc. Exc Comm	Amherst	LECO, Inc Management	6				
2004	11	19		Lucente	NW OSU Extension Staff	Findlay	Staff Mtg.	12				
2004	11	19		Williams	R. Fairbanks	Cleveland	Business Dev.	2				
2004	11	19		Riesen	Computer Technician/Carter	LENSC/Bay Village	resolve computer problem	8			2	
2004	11	22		Snyder	Great Lakes Sea Grant Program Leader	Port Clinton	Planning Conference Call	6				
2004	11	22		Williams	Garfield alloys	Cleveland	Business Dev.	4				
2004	11	22		Williams	OSU site visits	Cleveland	Office location	2				
2004	11	23		Lucente	Jim Widenheft, OSU Ext.	Toledo	Business Retention & Exp.	4				
2004	11	23		Williams	OSU site visits	Parma	Office location	5				
2004	11	23		Williams	Botanical Garden	Cleveland	sea grant	5				
2004	11	23		Riesen	Environmental Presenters/Sandy Yohe	Fremont	Envirothon review	3				
2004	11	24		Snyder	Aquaculturists	Castalia	Aquaculture Breakfast	4				
2004	11	24		Williams	Garth Woodson	Cleveland	Business Dev.	4				

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2004	11	24		Williams D. Swander		Cleveland	Business Dev	2				
2004	11	24		kelch icvb board of directors meeting		lorain	tourism, new program ideas	19				
2004	11	29		Williams Jim Heron		Cleveland	Business Dev	2				
2004	11	29		Williams Shorebank		Cleveland	Business Dev	5				
2004	11	29		Williams Pipeline mtg		Cleveland	Business Dev	5				
2004	11	29		Williams Andrew Shrod		Cleveland	Business Dev	2				
2004	11	30		Williams ED Network		Cleveland	land use forum	9				
2004	11	30		Williams American Mine		Cleveland	Business Dev	4				
2004	12	1		Williams Ed Novinc		Cleveland	Junior Achievement	2				
2004	12	1		Williams Interstate McBee		Cleveland	Business Dev	3				
2004	12	1		Williams Fundamental of Business planning		Cleveland	Business Dev	12				
2004	12	2		Snyder OSU Lima Campus Faculty		Lima	Extension Program Familiarization	46				
2004	12	2		Lichtkoppfer OSU Faculty		Painesville	P&T Conf Call	3				
2004	12	2		Williams Jim Heron		Cleveland	Business Dev	2				
2004	12	2		Williams Charles burkett		Cleveland	Business Dev	3				
2004	12	2		Williams site Visits		Cleveland	OSU Office search	3				
2004	12	3		Snyder Kelly Reisen		Port Clinton	Fisheries Extension Development	1				
2004	12	3		Williams RL Trucking		Cleveland	business Dev	4				
2004	12	3		Riesen Meeting with Fred Snyder		Port Clinton	Charter Captain Conf. planning	2				
2004	12	6		Snyder Great Lakes Environ. Research Lab		Ann Arbor, MI	Proposal Review	22				
2004	12	6	8	Lucente GL Sea Grant Coastal Comm. Dev.		New Buffalo, MI	Coastal Comm. Smart Growth	12				
2004	12	6		Williams Shorebank		Cleveland	business Dev	5				
2004	12	6		Williams Pipeline mtg		Cleveland	business Dev	5				
2004	12	6		Williams Tanya Allmond		Cleveland	business Dev	2				
2004	12	6		Williams Fundamental of Business planning		Cleveland	business Dev	12				
2004	12	7		Snyder NW Sea Grant Ext. Advisory Comm.		Port Clinton	Sea Grant Strategic Planning	10		x		
2004	12	7	9	Lichtkoppfer OSU Faculty		Columbus	P&T Committee Meetings	10				
2004	12	7		Williams OEDC		Columbus	business Dev	17				
2004	12	7		Williams Tomco		Cleveland	business Dev	3				
2004	12	7		Riesen Fred Snyder/Advisory Committee Mtg		Sandusky	Strategic planning			10		
2004	12	8		Williams Rose Metal		Cleveland	business Dev	3				
2004	12	8		Williams OSU Educators		Cleveland	Educators Mtg	4				
2004	12	8		kelch sea grant conference call		elyria	Boat/Sport Show planning				x	
2004	12	8		kelch sea grant conference call		elyria	clean marina, clean boater prog				x	
2004	12	8		Riesen Conference Call		LENSC/Bay Village	Boat/Sport Show planning	8				
2004	12	9		Lichtkoppfer Citizens, OEPA officials		Ashtabula	USACE 401 permit	53				
2004	12	9		Lucente NW OH Regional Econ. Dev. Assoc.		Toledo	NORED Mtg.	26				
2004	12	9		Williams Ext annual conf		Worthington	Annual conference					
2004	12	9		Williams L. Westfield		Cleveland	Business Dev.	2				
2004	12	10		Snyder Sea Grant Main Office		Columbus	Stone Laboratory	6				
2004	12	10		Williams Team Neo		Akron	Business Dev					
2004	12	10		Williams Junior Achievement		Cleveland	Success skills	37				
2004	12	10		Riesen Local Aquarium Stores		Cleveland	Aquariums for Boat/Sport shows	2				
2004	12	11	12	Snyder American Fisheries Society		Indianapolis, IN	AIS Regulation & Enforcement	35				
2004	12	13		Williams N najeeullah		Cleveland	Business Dev	2				
2004	12	13		Williams R. Barth		Cleveland	business Dev	2				
2004	12	13		Williams Ext holiday path		Cleveland	business Dev					
2004	12	14		Williams McTech		Cleveland	business Dev	5				
2004	12	14		kelch lorain city new elected officials/commiss		elyria	sea grant update, value to city	27				
2004	12	14		Riesen Fender's Fish Hatchery		Coshocton	Pick up fish for boat/sport shows	3				
2004	12	15		Snyder Ohio Sea Grant Staff		Bay Village	Sea Grant Program Management	9				
2004	12	15		Hageman Ohio Sea Grant Staff		Bay Village	Sea Grant Program Management				9	
2004	12	15		Hageman Ohio Sea Grant Staff		Bay Village	Directors Advisory Meeting					18
2004	12	15		Lichtkoppfer Ohio Sea Grant Staff		Bay Village	Sea Grant Program Management	9				

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2004	12	15		Lichtkoppler	Citizens, Lake County Coastal Comm	Painesville	Coastal Planning	15				
2004	12	15		Lucente	Dave Kelch, OSU Sea Grant	Elvira	Lake Erie Shipwreck Trails	2		x		
2004	12	15		Lucente	Ohio Sea Grant Staff	Bay Village	Sea Grant Program Management	10				
2004	12	15		Williams	American Mine	Cleveland	business Dev	5				
2004	12	15		Williams	K. Slivka	Cleveland	business Dev	2				
2004	12	15		Williams	Ohio Sea Grant Staff	Rocky River	Sea Grant Program Management	5			x	
2004	12	15		kelch	Ohio Sea Grant Staff	bay village	sea grant planning					
2004	12	15		Riesen	Ohio Sea Grant Staff	LENSC/Bay Village	Staff Meeting	8				
2004	12	15		Riesen	Sea Grant Directory Advisory Council	LENSC/Bay Village	Strategic planning			15		
2004	12	16		Lichtkoppler	ARP Project Committee	Ashtabula	Ashtabula River Clean up Dredgin	20				
2004	12	16		Lichtkoppler	ARP Coordinating Committee	Ashtabula	Ashtabula River Clean up Dredgin	14				
2004	12	16		Riesen	LENSC staff meeting	LENSC/Bay Village	education staff planning	4				
2004	12	17		Snyder	District Extension Staff	Findlay	Staff updates	18				
2004	12	17		Lichtkoppler	Lake Erie Coastal Ohio, Inc	Cleveland	LECO, Inc Management	6				
2004	12	17		Lichtkoppler	Lake Erie Coastal Ohio, Inc	Cleveland	Coastal Tourism	24				
2004	12	17		Lucente	District Extension Staff	Findlay	Staff updates	18				
2004	12	20		Snyder	Advisory Committee Members	Port Clinton	Program Update	3				
2004	12	20		Lucente	NW Sea Grant Advisory Council	Toledo	Strategic Planning/Sea Grant	14	x			
2004	12	20		Williams	Shorebank	Cleveland	business Dev	2				
2004	12	20		Williams	Pipeline mtg	Cleveland	business Dev	4				
2004	12	20		Williams	american Metal coating	Cleveland	business Dev	3				
2004	12	20		Williams	V. Finley	Cleveland	business Dev	2				
2004	12	21		Williams	STD Speciality Filters	Cleveland	Business Dev	3				
2004	12	21		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	12	21		Riesen	Aquarium Adventure	Brooklyn, Ohio	Aquariums for Boat/Sport shows	2				
2004	12	22		Lucente	OH Balanced Growth Steering Comm.	Toledo	Conference Call- LEBGI	16				
2004	12	22		Williams	L Green	Beachwood	Business dev	3				
2004	12	22		Williams	L. westfield	Mayfield	Business Dev	2				
2004	12	22		Riesen	Conference Call	LENSC/Bay Village	Boat/Sport Show planning	4				
2004	12	27		Williams	Shorebank	Cleveland	Business Dev	4				
2004	12	27		Williams	Pipeline mtg	Cleveland	Business Dev	5				
2004	12	27		Williams	Shawn Sukey	Cleveland	Business Dev	2				
2004	12	28		Williams	OEDC	Columbus	Marketing	6				

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