Estimates of Economic Impacts from ANS (mostly those attributed to zebra mussels {ZM}*

SPECIES/REGION	IMPACT PER TIME PERIOD	YEAR OF STUDY
		RELEASED
Economic impact of ZM, Nationwide (1)	\$750 million - \$1 billion/1989-1999.	2000
ZM Control, Bethlehem Steel, Portage Indiana (2)	\$400,000/ year	1996
ZM Monitoring and Control Costs, Surface Water Using Facilities, Great	\$120 Million/1989 –1994	1998
Lakes (3)		
Potential Impact of zebra mussels to the power industry, nationwide (9)	\$3.4 billion/10 years	1992
Cost of ZM control facilities (potassium permanganate injection units),	\$3.66 million/one time: 1994	1994
City of Baltimore (6)		
ZM related expenses at infested facilities, 35 states (4)	\$69,070,780/1989-1995.	1997
Economic loss, <i>Egeria</i> , Purple Loosestrife (aquatic weeds), Oregon (5)	\$3.5 million/\$1.5 million/annually	2001
Potential Economic loss, Oregon, Spartina (5)	\$8.5 million/annual	2001
estimated amount for aquatic weeds control annually, Nationwide (7)	\$100 million/annually	1990
Damage caused by Aquatic Nuisance Species, Nationwide (8)	\$5 billion/annually	2000
Economic damage caused by 50,000 species of plants, animals, and	\$138 billion/annually	2000
microbes, Nationwide (8)		

SOURCES

- 1) ANS O'Neill (personal communication, March 2000)
- 2) Zebra Mussel Update #28, University of Wisconsin Sea Grant Institute, September 1996.
- 3) Park, J and L. Hushak. 1998. Zebra Mussel Control Costs in Surface Water Using Facilities. Ohio Sea Grant College Program. Technical Summary OHSU-TS-028. 15 pp.
- 4) O'Neill, C. 1997. 1995 Economic Impact of Zebra Mussels Results of the 1995 National Zebra Mussel Information Clearinghouse Study. New York Sea Grant. Technical Collection. 18 pp.
- 5) Source: Oregon Department of Agriculture. 2001. Oregon Noxious Weed Strategic Plan. Salem, Oregon. 60 pp.).
- 5) IBID
- Balog, G., T. Neimeyer, L. Davis, A. Sokhey, D. Scott, and O. Custodio. Baltimore City Adopts a Proactive Approach to Zebra Mussel Control Using Potassium Permanganate. Proceeding of the Fifth International Zebra Mussel and Other Aquatic Nuisance Organisms Conference. Toronto, Canada. February 1995.
- 7) Gallagher, J.E. and Hailer, W. T., "History and Development of Aquatic Weed Control in the United States," *Review of Weed Science*, vol. 5. 1990, pp. 115-192.
- 8) Pimental, David. 2000. Economic Impact of Aquatic Nuisance Species. Abstracts of the Tenth International Aquatic Nuisance Species and Zebra Mussel Conference. February 13-17. Toronto Canada.
- 9) M. Cochran. 1992. Non-indigenous species in the united states-economic consequences. Congressional Report Service Report 90-116 ENR.