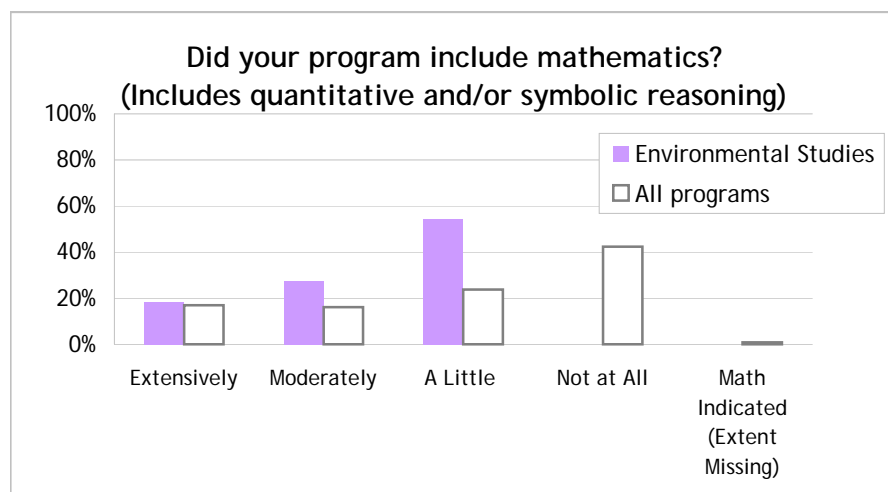


## End-of-Program Review 2006-07

### Mathematics in Environmental Studies Programs

Did your program include mathematics? (Includes quantitative and/or symbolic reasoning)

	Extensively	Moderately	A Little	Not at All	Math Indicated (Extent Missing)	Percent of Programs with any Math	Programs with any Math (N)	Programs Responded (N)
Environmental Studies	18.2%	27.3%	54.5%	0.0%	0.0%	100%	11	11
All programs	16.9%	16.1%	23.7%	42.4%	0.8%	58%	68	118



Descriptions of programs on next page.

Programs with Mathematics	Extent	Fields	Introductory	Intermediate	Advanced
Animal Behavior	Extensively	Statistics (weekly computer labs in the CAL); also, probability and Algebra to Calculus levels of relatedness in family groups, and to calculate cost-benefit analyses associated with various behaviors.		X	X
Living in Extreme Environments	Extensively	Introductory and Advanced Statistics, Spatial Analysis			X
Field Ornithology	Moderately	Trigonometry, Geometry (both at intro level) and Statistics (introductory and intermediate).	X	X	
Introduction to Environmental Studies: Water, Energy, and Forest Ecosystems	Moderately	Spread sheet Analysis, including pivot tables for analyzing very large data sets. Stella modeling software that uses rates of change and amounts as the basic tools for building models of	X		
Marine Life: Marine Organisms and Their Environments	Moderately	Algebra and Introductory Statistics		X	
Energy Matters	A Little	Algebra, Computer Science, Logic and Statistics to calculate (for example) appropriate ceilings or caps for carbon trading proposals as part of global warming legislation.		X	
Fungal Kingdom: Lichens and Mushrooms, Nature's Recyclers	A Little	Basic Numeracy	X		
Nature of Natural History	A Little	Analyzing patterns in nature; Interpreting graphs, tables, charts	X		
Nuisance to Negligence: Environmental Law	A Little	Data Supporting for example the chemical make-up of air pollutants and the absolute percentage of each kind in overall NAAQ or CAA standards for factory hog farms: how the courts/EPA allow point source air pollutants to rise above levels allowed	X		
Practice of Sustainable Agriculture	A Little	Formulas, Budgeting, Marketing	X		
Sustainable Futures: Moving Into the Post-Petroleum Age	A Little	Exponential Growth Models	X		