

BIOGRAPHICAL SKETCH – Dennis M. King

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Professional Preparation:

University of Massachusetts, Corporate Finance/Economics B.B.A. 1970.
University of Massachusetts, Food & Natural Resource Economics M.S. 1973
University of Rhode Island, Marine Resource Economics Ph.D. 1977

Positions Held:

Research Professor, University of Maryland Center for Environmental Science,
Chesapeake Biological Laboratory, 1991 – present.
Director of Resource Economics and Corporate Manager, ICF, Inc., San Diego office,
1987-1991.
Adjunct Professor, Economics Department, University of California, San Diego, 1978-
1987.
Lecturer, Scripps Institution of Oceanography, 1978-1987.
Senior Economist, U.S. Department of Commerce, NOAA, Oceanic Division, 1977-
1978.
Assistant Professor, Natural Resource Economics, University of New Hampshire, 1975-
1976.

Five Publications within Last Five Years:

King, D.M., P. Hagan, L. Wainger, and N. Chigounis. 2007. Managing Patuxent River water
quality looking beyond science and politics to the economics of decision-making. A report
to NOAA National Ocean Service (NOS).
King, D.M. 2007. The future of the Patuxent River - an economic perspective. *The Bay Journal*
16(11).
King, D.M. and E. W. Price. 2007. Developing defensible wetland mitigation ratios: standard
tools for "scoring" wetland creation, restoration, enhancement, and conservation. NOAA,
Office of Habitat Protection.
King, D.M. 2005. Crunch time for water quality trading. *Choices* 20(1): 71-75.
King, D.M. 2004. Sparing the rod spoils the Bay. *The Bay Journal* 14(9).

Five Other Relevant Publications:

King, D.M. 2003. Trade-based carbon sequestration accounting. *Environmental Management*
33(4): 559-571.

- King, D. M. and L. Wainger. 1999. Assessing the economic value of biodiversity using indicators of site conditions and landscape context. Paper presented at the Workshop on Benefits Valuation of Biodiversity Resources, 18–19 October, Paris, France.
- King, D.M. 1979. International management of highly migratory species: centralized vs. decentralized economic decision-making. *Journal of Marine Policy* 3(4): 264-277.
- Wainger, L.A., D.M. King, J.A. Cantrell and S.L. Bird. 2004. Development of indicators to assess economic vulnerabilities to changes in ecosystem services: case study of counties in Maryland, USA. *Environmental Management* 34(5):730-747.
- Boyd, J., D. King, and L. Wainger. 2001. Compensation for lost ecosystem services: the need for benefit-based transfer ratios and restoration criteria. *Stanford Environmental Law Journal* 20(2): 393-412.

Synergistic Activities:

PI - California Department of Fish and Game: Updating California Interindustry Fishery (CIF) Model initially published as King and Shellhammer (1982). PI - EPA, Regional ecosystem Vulnerability Assessment (ReVA): Development of socio-economic risk indicators and decision-support tools to prioritize environmental threats and risks in the mid-Atlantic and Southeast regions. PI - Lenfest Ocean Program at Pew Charitable Trust: Enforcement economics study of U.S. commercial fisheries to determine the effectiveness of existing enforcement activities and identify opportunities for improvements. PI - Maryland Port Administration: Economic study of alternative ballast water treatment systems, including cost analysis and assessment of monitoring and enforcement options. Maryland Environmental Services: Environmental economic analysis of dredged material placement options and GIS-based assessments of aesthetic and other localized impacts of placement alternatives. Maryland Port Administration: Integrated economic and environmental analysis of environmentally beneficial dredge material placement options, including applications to protect and restore wetlands and create island habitats. Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS): Assessing the value of physical ocean observations to users along several pathways involving fishing, fishery management, search and rescue, shipping, offshore energy, weather predictions, etc. NOAA, Office of Habitat Protection: Development of formulae and related guidebook and software for developing science-based and legally-defensible wetland mitigation (compensation) ratios; prepare workshops for NOAA field staff on east coast (Silver Spring, MD) and west coast (Seattle, WA). U.S. Department of Commerce, NOAA: Managing economic component of the Chesapeake Inundation Prediction System (CIPS), a new NOAA storm-generated flooding prediction system for the Chesapeake Bay.