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Joshua A. Greenberg  
Department of Resources Management, and  
Department of Economics  
University of Alaska Fairbanks  
Fairbanks, Alaska 99775-7200

Phone: 907.474-7189

E-mail: [j.greenberg@uaf.edu](mailto:j.greenberg@uaf.edu)

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## **EDUCATION**

- Ph.D. Agricultural Economics, Washington State University, December 1990.
- M.S. Resource Economics, University of Alaska Fairbanks, December 1984.
- B.S. Business Administration, University of Connecticut, May 1982.

## **RELEVANT EXPERIENCE**

- Chair, Department of Resources Management, School of Natural Resources and Agricultural Sciences, January 2004 - Present.
- Associate Professor of Economics, Joint Appointment, School of Natural Resources and Agricultural Sciences and School of Management, July 1 2004– Present.
- Associate Professor of Resource Economics, Department of Resources Management, School of Agriculture and Land Resources Management, University of Alaska Fairbanks. July 1995 - Present.
- Assistant Professor of Resource Economics, Department of Resources Management, School of Agriculture and Land Resources Management, University of Alaska Fairbanks. November 1990 - July 1995.
- Economist, National Marine Fisheries Service, and Research Assistant, Department of Agricultural Economics, Washington State University. August 1985 - October 1990.
- Research Associate, School of Agriculture and Land Resources Management, University of Alaska Fairbanks. September 1984 - August 1985.
- Research Assistant, School of Agriculture and Land Resources Management, University of Alaska Fairbanks. September 1982 - August 1984.

## **ACADEMIC SERVICES**

- Member, Executive Council, Western Association of Agricultural Economics
- Member, Crab Plan Team, North Pacific Fishery Management Council
- University of Alaska Fairbanks, Master Planning Committee
- University of Alaska Fairbanks, Faculty Appeals Committee

School of Natural Resources and Agriculture Sciences, Director Graduate Programs  
School of Natural Resources and Agriculture Sciences, Head, Graduate Admission Committee  
School of Natural Resources and Agriculture Sciences, Curriculum Council

#### PROFESSIONAL AFFILIATIONS

American Agricultural Economic Association  
North American Fisheries Society  
Western Agricultural Economic Association  
Omicron Delta Epsilon

#### REFEREED PUBLICATIONS:

- Robards, M, and J.A. Greenberg. "Global Constraints on Rural Fishing Communities: Whose Resilience is it Anyway?" *Fish and Fisheries*. Vol. 8. 2007.
- Herrmann, M., and J.A. Greenberg. "The Demand and Allocation of Alaska and Canada Snow Crab." *The Canadian Journal of Agricultural Economics*. Vol. 55 (1), March, 2007.
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- Greenberg, J.A., W.C. Thomas and W.G. Workman. "Economic Evaluation of Reindeer Range in Alaska." *Canadian Journal of Agricultural Economics*. Vol. 38. 1990: 89-105.

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- Greenberg, J. A., M. Herrmann, and P. Hooker. "Potential Economic Impacts of Alternative Pot Limits to Bristol Bay Red King Crab Fishermen and Bering Sea *C. opilio* Fishermen -- Final Report." Alaska Department of Fish and Game. Juneau, Alaska. March, 1992.
- Greenberg, J. A., M. Herrmann, and P. Hooker. "Economic Impacts of Alternative Pot Limits to Bristol Bay Red King Crab and Bering Sea *C. opilio* Fishermen -- Executive Summary." Alaska Department of Fish and Game. Juneau, Alaska. February, 1992.
- Workman, W. G., W. C. Thomas and J. A. Greenberg. "Economics of Reindeer Rangeland." *Agroborealis*, Vol. 23 (1). 1991.
- Matulich, S. C., J. A. Greenberg and R. C. Mittelhammer. "A Model of Exvessel Price Determination in the Bristol Bay King Crab Fishery." Ag. Econ. Ser. 90-2.1. Department of Agricultural Economics, Wash. State U. Pullman, Washington. December, 1990.
- Matulich, S. C., R. C. Mittelhammer and J. A. Greenberg. "Predicting Japanese Wholesale Price and Demand for Alaska King Crab." Ag. Econ. Ser. 90-2.1. Department of Agricultural Economics, Wash. State U. Pullman, Washington. December, 1990.

Greenberg, J. A., and S. C. Matulich. "The Role of Japan in King Crab Price Determination." *Proceedings of the International Symposium on King and Tanner Crabs*. Alaska Sea Grant. 1989.

Matulich, S. C., and J. A. Greenberg. "Alternative Spawner-Recruit Specifications for Alaska Red King Crab." *Proceedings of the International Symposium on King and Tanner Crabs*." Alaska Sea Grant. 1989.

## PRESENTATIONS

Greenberg, J.A., and M. Herrmann. "The Effects of Foreign Competition to the Markets for Alaska Crab". The Crab Industry Forum. Seattle Wa. October 16, 2006.

Greenberg, J.A., and M. Herrmann. "Alaska Crab Markets an Integrated Perspective." Presented to the BSAI Crab Plan Team, North Pacific Fishery Management Council. Anchorage, Ak. September 14, 2006

Greenberg, J. and M. Herrmann. "Demand and Allocation of Alaska and Canadian Snow Crab and King Crab. Presented at the WAEA Annual Meeting Anchorage, Alaska . June 30, 2006

Robards, M, and J.A. Greenberg. "Alaska Salmon Fisheries Whose Resilience Is It Anyways." Presentation before the 12<sup>th</sup> International Symposium on Society and Natural Resources, ISSRM 2006. Vancouver B.C. June 5, 2006.

Greenberg, J.A., and M. Herrmann. "Modeling Alaska Crab Markets." Presented to the BSAI Crab Plan Team, North Pacific Fishery Management Council. Anchorage, Ak. September, 8, 2005.

Hamel, C., J.A. Greenberg, M. Herrmann, H. Geier. "Risk Management in the Bristol Bay Salmon Fishery." Presented before the eleventh meeting of the International Institute of Fisheries Economics and Trade, Wellington, New Zealand, Aug 19-22, 2002.

Greenberg, J.A., M. Herrmann, H. Geier, and C. Hamel. Risk Management for the Bristol Bay Commercial Salmon Fishery. Naknek, Ak. June, 2001

Greenberg, J.A., M. Herrmann, H. Geier, and C. Hamel. A Risk Insurance Program for Alaska Commercial Salmon Fisheries. Dillingham, Ak. June, 2001

Greenberg, J.A., M. Herrmann, H. Geier, and C. Hamel. Application of Crop Insurance to the Bristol Bay Commercial Salmon Fishery. Anchorage Ak, May 20001

Greenberg, J.A., M. Herrmann, H. Geier, and C. Hamel. Wild Salmon Risk Management in Risk Management in Alaska Salmon Fisheries. North American Association of Fisheries Economists, New Orleans April, 2001

- Criddle, K.C., M. Herrmann, and J.A. Greenberg. "Territorial Use Rights: A Rights Based Approach to Spatial Management". Presented at the Lowell Wakefield International Fisheries Symposium, Anchorage, Alaska, 29 October 1999.
- Greenberg, J.A. and M. Herrmann. "Potential Economic Implications of More Restrictive Pot Limits in the Bristol Bay Red King Crab Fishery, Report to the Board of Fish and Final Testimony Before the Alaska Board of Fisheries, August 26, 1997, Anchorage, Alaska.
- Herrmann, M., J.A. Greenberg, and K. Criddle. "Proposed Pot Limits for the ADAK Brown King Crab Fishery: Testimony Before the Alaska Board of Fish." Testimony Before the Alaska Board of Fisheries, Anchorage, Alaska, March 9, 1997.
- Greenberg, J. A. "Evaluation of Fishery Economic Policy Using Regional Economic Analysis: The Case of the Norton Sound Red King Crab Fishery." Presented at the Annual Meeting of the American Fisheries Society, Alaska Chapter, Fairbanks, Alaska. November, 1996.
- Criddle, K. C., M. Herrmann, J. A. Greenberg, and E. M. Feller. "Estimated Economic Impacts of Potential Policy Changes Affecting the Total Allowable Catch for Pollack." Presented at the Fourteenth Pacific Coast Resource Modeling Conference, Juneau, Alaska. June, 1995.
- Natcher, B., J. A. Greenberg, and M. Herrmann. "Economic Evaluation of Super Exclusive Designation for the Summer Norton Sound Red King Crab Fishery." Presented at the International Symposium on Biology, Management, and Economics of Crabs from High Latitude Habitats. Anchorage, Alaska. October, 1995.
- Greenberg, J. A., and N. Mollett. "The Question of ITQs in Alaska Crab Fisheries." Presented at the International Meeting of The Institute of Management Sciences XXXII. Anchorage, Alaska. June, 1994.
- McCracken, J., J. A. Greenberg, and M. Herrmann. "An Econometric Model of the Alaska Snow Crab Industry." Presented at the 123rd Meeting of the American Fisheries Society. Portland, Oregon. August, 1993.
- Boyce, J., M. Herrmann, D. Bischak, and J. A. Greenberg. "Construction of a Benefit Cost Analysis for the Alaska Salmon Enhancement Program." Presented at the International Conference of Fisheries Economists Conference. Solstranbm, Norway. June, 1993.
- Geier, H., J. A. Greenberg and M. Herrmann. "Commercial and Subsistence Fisheries in Alaska: Conflicts Within a Multiple Use Resource." Presented at the 32nd Annual Meeting of the Western Regional Science Association. Maui, Hawaii. March, 1993.

- Greenberg, J. A., and M. Herrmann. "Economic Impacts of Pot Limits in the Bristol Bay Red King Crab Fishery." Presented at the International Symposium on Management Strategies for Exploited Fish Populations. Anchorage, Alaska. October, 1992.
- Greenberg, J. A., S. C. Matulich and M. Herrmann. "The Alaska King Crab Industry--An Industry in Transition." Presented at the Sixth Conference of the International Institute of Fisheries Economics and Trade. Paris, France. July, 1992.
- Herrmann, M. and J. A. Greenberg. "Why the Alaska Salmon Prices Crashed." Presented at the Sixth Conference of the International Institute of Fisheries Economics and Trade. Paris, France. July, 1992.
- Geier, H., J. A. Greenberg and M. Herrmann. "Subsistence Fisheries in Alaska: Conflicts Within a Multiple Use Resource." Presented at the Sixth Conference of the International Institute of Fisheries Economics and Trade. Paris, France. July, 1992.
- Greenberg, J. A., M. Herrmann, and P. Hooker. "Potential Economic Impacts of Alternative Pot Limits to Bristol Bay Red King Crab and Bering Sea *C. opilio* Fishermen." Presentation to the Alaska Board of Fisheries. Anchorage, Alaska. March, 1992.
- Greenberg, J. A., M. Herrmann, and P. Hooker. "Gear Limitation Impacts to the Economic Performance of Alaska Crab Fishermen." Presentation to the Alaska Department of Fish and Game. Juneau, Alaska. February, 1992.
- Greenberg, J. A. "Bioeconomic Modelling--Application to the Alaskan King Crab Fishery." Seminar Presented to the Alaska Department of Fish and Game. Juneau, Alaska. June, 1991.
- Greenberg, J. A., and S. C. Matulich. "The Role of Japan in King Crab Price Determination." Presented at the International Symposium on King and Tanner Crabs. Anchorage, Alaska. November, 1989.
- Matulich, S. C., and J. A. Greenberg. "Alternative Spawner-Recruit Specifications for Alaska Red King Crab." Presented at the International Symposium on King and Tanner Crabs." Anchorage, Alaska. November, 1989.
- Greenberg, J. A. "Development of Agricultural Cooperatives with an Application to the Alaska Reindeer Industry." Presentation to the Alaska Agricultural Conference. Fairbanks, Alaska. April, 1985.
- Greenberg, J. A. "Designing a Grading System for Alaska Reindeer Antler." Presentation at the Annual Meeting of the Alaska Reindeer Herders Association. Nome, Alaska. March, 1985.

Greenberg, J. A. "Optimal Reindeer Herd Management Plans." Presentation at the Annual Meeting of the Alaska Reindeer Herders Association. Nome, Alaska. March, 1985.

Greenberg, J. A. "An Alternative Marketing Plan for Alaska Reindeer Antler." Presentation at the Annual Meeting of the Alaska Development Council. Juneau, Alaska. February, 1985.

#### **SPONSORED RESEARCH**

Bering Sea Fisherman's Research Fund. "Analysis of Minimum Size Limit for Eastern Bering Sea Tanner Crab Fisheries." August 2009.

ADAP. "Regional Food Security and Sufficiency Project." June 2009

USDA. New Crops for New Market. USDA Special Programs. "Opportunities for an Alaska Commercial Dogfish Fishery." October 2006.

Alaska Department of Fish and Game. "Modeling Price Formation for Alaska Crab: Focus on Crab Rationalization." July 2004. .

NPRB, "An International Supply and Demand Econometric Model for King and Snow Crab." May 2004.

USDA. New Crops for New Market. USDA Special Programs. "Carbon Sequestration Market Opportunities in Alaska." October 2003.

Alaska Department of Fish and Game. "Regional Economic Impact Assessment of the Alaska Snow Crab Fishery." July 2001.

National Science Foundation, Division of Graduate Education. : Regional Resilience and Adaptation: Planning for Change (Integrative Graduate Research and Training). 2001.

U.S. Department of Agriculture, Hatch/McIntire-Stennis Program. "Impact Analysis for Alaska Natural Resources." 2001. \$208,000.

U.S. Department of Agriculture-Cooperative Research Education and Extension Service. "Wild Salmon Risk Management in Bristol Bay Alaska." December 2000.

Alaska Department of Fish and Game. "Economic Evaluation of Past and Current Crab Management in Alaska: A Continuation." July 1999.

Mineral Management Service/Coastal Marine Institute. "Regional Economic Impact Analysis of Subsistence Bowhead Whaling: Accounting for Non-Market Activities in Barrow, Nuiqsut, and Kaktovik Alaska." September 1999 .

- Alaska Department of Fish and Game. "An Economic Evaluation of Past and Current Crab Management in Alaska." July 1999."
- National Science Foundation. "Reindeer Herding in Transition: Feedbacks Between Climate, Caribou, and Local Communities in Northwest Alaska." March, 1999.
- Alaska Department of Fish and Game. "An Economic Examination of an Individual Transferable Pot Quota Program for the ADAK Brown King, Bristol Bay Red King, and Bering Sea Snow Crab Fishery." July 1998.
- Mineral Management Service/Coastal Marine Institute. "An Economic Assessment of the Marine Sport Fisheries in Lower Cook Inlet." July 1997.
- Alaska Department of Fish and Game. "Potential Economic Implications of More Restrictive Pot Limits in the Bristol Bay Red King Crab Fishery." July 1997.
- Alaska Sea Grant College Program. "An Economic Assessment of the Kenai Peninsula Sport Fisheries for Pacific Halibut." 1997.
- U.S. Department of Agriculture, Hatch/McIntire-Stennis Program. "Regional Economic Modelling for Rural Alaska." 1996.
- Alaska Department of Fish and Game. "An Economic Evaluation of Variable Pot Limits in the Bristol Bay Red King Crab Fishery." 1996.
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- Alaska Department of Fish and Game. "Economic Evaluation of Super Exclusive Designation for the Summer Norton Sound Red King Crab Fishery." 1994.
- United States Department of Agriculture-Rural Development Administration. "Education and Development Services for Alaska Marketing Cooperatives." 1994.
- Alaska Sea Grant. "Commercial and Subsistence Salmon Fisheries of the Yukon River." 1993.
- United States Department of Agriculture, National Research Initiative Competitive Grants Program. "An Inclusive Regional Economic Model for Rural Alaska." 1993.
- Alaska Department of Fish and Game. "Considerations in Applying Individual Fishing Quotas to Alaska's Bering Sea Aleutian Island Crab Fisheries." 1993.
- National Oceanic and Atmospheric Administration, Office of Global Programs. "Potential Bio-Economic Impacts of Climate Change on the Fisheries for Pacific Whiting and Walleye Pollack." 1993.

National Marine Fisheries Service, (Saltonstall-Kennedy Award). "Economic Impacts of Alternative Vessel Moratorium and Gear Restriction Management Policies in Alaska King and Tanner Crab Fisheries." 1993.

Alaska Department of Fish and Game, Commercial Fisheries Division. "An Econometric Model of the International Market for Alaska Snow Crab." 1992.

Alaska Department of Fish and Game, Commercial Fisheries Division. "An Economic Analysis of the Alaska C. Opilio Industry." 1992.

Alaska Sea Grant. "An Economic Analysis of World Markets for Wild and Farmed Salmon." January, 1992.

Alaska Legislative Branch. "Statewide Salmon Enhancement Program Analysis." December, 1991.

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#### **COURSES TAUGHT**

ECON 235, Introduction to Natural Resource and Environmental Economics

ECON 335, Intermediate Natural Resource and Environmental Economics

ECON 636, Natural Resource Economics II

NRM 310, Agricultural Concepts

NRM 304, Perspectives in Natural Resource Management

ECON\NRM\BIO\ANTH 694, Regional System Dynamics and Modeling

ECON\NRM\ECON\BIO\ANTH F647, Regional Sustainability and Resilience

ECON\NRM 637, Natural Resource Policy