

## Ronald G. Felthoven

National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Alaska Fisheries Science Center

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### **Principal Interests**

Fisheries management, natural resource economics, economic performance measurement.

### **Education**

University of California, Davis, Ph.D. in Agricultural and Resource Economics, 2001, GPA: 3.9

*Dissertation:* "Measuring Capacity, Utilization, and Economic Performance: An Application to North Pacific Groundfish Fisheries"

University of California, Davis, M.S. in Agricultural and Resource Economics, 1997

University of California, Davis, B.S. with Honors in Agricultural Economics, 1995

### **Professional Experience**

**Director**, Resource Ecology and Fisheries Management Division, National Oceanic and Atmospheric Administration, NOAA Fisheries, 2015 - Present

**Program Manager**, Economic and Social Sciences Research Program, National Oceanic and Atmospheric Administration, NOAA Fisheries, 2004 - 2015

**Industry Economist**, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 2001- 2004

**Graduate Fellow** in Marine Resource Economics, NOAA Fisheries/Sea Grant College, 2000-2001  
**Economist**, Pacific States Marine Fisheries Commission, 1999

**Research Assistant**, Department of Agricultural and Resource Economics, U.C. Davis, Professors Catherine Morrison Paul and Douglas M. Larson, 1997-1999

**Research Assistant**, Department of Agricultural and Resource Economics, University of Maryland, College Park, Professor Kenneth McConnell, 1996

### **Awards and Honors**

NOAA Fisheries Service Employee of the Year, Supervisor Category, 2009

Best Economic Research Paper, NOAA Fisheries, 2008 (1<sup>st</sup> and 3<sup>rd</sup> place papers)

United States Department of Commerce Bronze Medal for Superior Federal Service, 2005

Best Economic Research Paper, NOAA Fisheries, 2004 (1<sup>st</sup> and 3<sup>rd</sup> place papers)

Promoted to Grade GS-14 (2004) and GS-13 (2003), National Marine Fisheries Service

Quality of Work Step Increases, National Marine Fisheries Service, 2001 and 2003

Graduate Fellowship in Marine Resource Economics, Sea Grant College and NOAA Fisheries, 2000

American Agricultural Economics Association Graduate Student Travel Grant, 2000

Jastro-Shields Graduate Research Award, University of California, Davis, 1999

University of California Davis Graduate Studies Travel Grant, 1998

University of California Giannini Foundation Grant, 1997

Undergraduate Fellow, Institute of Governmental Affairs, University of California, 1995

Zeta Psi Education Foundation Scholarship, 1995

## **Publications**

26. Szymkowiak, M. and R. Felthoven. 2016. "Understanding the Determinants of Hired Skipper Use in the Alaska Halibut IFQ Fishery." *North American Journal of Fisheries Management* 36(5): 1139-1148.
25. Fissel, B., O'Donnell, C., R. Felthoven, and S. Kasperski. 2015. "Decomposing Productivity and Efficiency Changes in the Alaska Head and Gut Factory Trawl Fleet." *Marine Policy* 62: 337-346.
24. Thunberg, E., J. Walden, J. Agar, R. Felthoven, A. Harley, S. Kasperski, J. Lee, T. Lee, A. Mamula, J. Stephen, and A. Strelcheck. 2015. "Measuring Changes in Multi-Factor Productivity in U.S. Catch Share Fisheries." *Marine Policy* 62: 294–301.
23. Lambert, D., E. Thunberg, R. Felthoven, J. Lincoln, and W. Patrick. 2015. "Guidance on Fishing Vessel Risk Assessments and Accounting for Safety at Sea in Fishery Management Design." U.S. Dept. of Commerce, NOAA Technical Memorandum NMFS-OSF-2, 57 p.
22. Walden, J., J. Agar, R. Felthoven, A. Harley, S. Kasperski, J. Lee, T. Lee, A. Mamula, J. Stephen, A. Strelcheck, and E. Thunberg. 2014. Productivity Change in U.S. Catch Shares Fisheries. U.S. Dept. of Commer., NOAA Technical Memorandum NMFS-F/SPO-146, 137 p.
21. Torres, M. and R. Felthoven. 2014. "Productivity Growth and Product Choice in Catch Share Fisheries: the Case of the Alaska Pollock." *Marine Policy* 50 Part A: 280-289.
20. Felthoven, R., J. Lee and K. Schnier. 2014. "Cooperative Formation and Peer Effects in Fisheries." *Marine Resource Economics* 29(2): 133-156.
19. Felthoven, R. and S. Kasperski. 2013. "Socioeconomic Indicators for United States Fisheries and Fishing Communities." *PICES Press* 21(2): 20-23.
18. Schnier, K. and R. Felthoven. 2013. "Production Efficiency and Exit in Rights-Based Fisheries." *Land Economics* 89(3): 538-557.
17. Himes-Cornell, A., K. Hoelting, C. Maguire, L. Munger-Little, J. Lee, J. Fisk, R. Felthoven, C. Geller and P. Little. 2013. "Community Profiles for North Pacific Fisheries - Alaska." *NOAA Technical Memorandum NMFS-AFSC-259*, Volumes 1-12, U.S. Department of Commerce.
16. Schnier, K. and R. Felthoven. 2011. "Accounting for Spatial Heterogeneity and Autocorrelation in Spatial Discrete Choice Models: Implications for Behavioral Predictions." *Land Economics* 87(3): 382-402.
15. Lazrus, H., J. Sepez, R. Felthoven and J. Lee. 2011. "Post-Rationalization Restructuring of Commercial Crew Member Opportunities in Bering Sea and Aleutian Island Crab Fisheries." *NOAA Technical Memorandum NMFS-AFSC-217*, U.S. Department of Commerce.

## **Publications (cont.)**

14. Morrison Paul, C., R. Felthoven and M. Torres. 2010. "Economic Performance in Fisheries: Modeling, Measurement and Management." *Australian Journal of Agricultural and Resource Economics* 54(3): 343-360.
13. Morrison Paul, C.J., M. Torres, and R. Felthoven. 2009. "Fishing Revenue, Productivity, and Product Choice in the Alaskan Pollock Fishery." *Environmental and Resource Economics* 44: 457-474.
12. Felthoven, R., K. Schnier and W. Horrace. 2009. "Estimating Heterogeneous Primal Capacity and Capacity Utilization Measures in a Multi-Species Fishery." *Journal of Productivity Analysis* 32: 173-189.
11. Felthoven, R., C. Morrison Paul, and M. Torres. 2009. "Measuring Productivity Change and its Components for Fisheries: The Case of the Alaskan Pollock Fishery, 1994-2002." *Natural Resource Modeling* 22(1): 105-136.
10. Sepez, J., K. Norman and R. Felthoven. 2007. "A Quantitative Model for Identifying and Ranking Communities Involved in Commercial Fisheries." *National Association of Practicing Anthropologists Bulletin* 28:43-56.
9. Felthoven, R. 2004. "Methods for Estimating Fishing Capacity with Routinely Collected Data: A Comparison." *Review of International Fisheries Law and Policy*, Vol. 1(2): 125-137.
8. Felthoven, R. and C.J. Morrison Paul. 2004. "Multi-Output, Non-Frontier Primal Measures of Capacity and Capacity Utilization." *American Journal of Agricultural Economics*, Vol. 86(3): 615-629.
7. Felthoven, R., T. Hiatt, and J. Terry. 2004. "Measuring Fishing Capacity and Utilization with Commonly Available Data: An Application to Alaskan Fisheries." *Marine Fisheries Review* Vol. 64(4): 29-39.
6. Felthoven, R. and C.J. Morrison Paul. 2004. "Directions for Productivity Measurement in Fisheries." *Marine Policy*, Vol. 28: 161-169.
5. Morrison Paul, C.J., V. Ball, R. Felthoven, A. Grube, and R. Nehring. 2002. "Effective Costs and Chemicals Use in US Agricultural Production: Benefits of Using the Environment as a "Free Input." *American Journal of Agricultural Economics*, Vol. 84(4): 897-901.
4. Felthoven, R. 2002. "Effects of the American Fisheries Act on Capacity, Utilization and Technical Efficiency." *Marine Resource Economics*, Vol. 17(3): 181-205.
3. Felthoven, R., C.J. Morrison Paul, V. Ball, and R. Nehring. 2002. "Costs of Production and Environmental Risk: Resource-Factor Substitution in U.S. Agriculture." In Agricultural Productivity: Measurement and Sources of Growth, pp. 293-310. Kluwer Academic Press, Boston, MA.

## **Publications (cont.)**

2. Morrison Paul, C.J., Felthoven, R., V. Ball, and R. Nehring. 2001. "Public Infrastructure Impacts on US Agricultural Production: A State-Level Panel Analysis of Costs and Netput Composition." *Public Finance and Management*, Vol. 1(2): 183-213.

1. Felthoven, R. 2000. "Capacity and Capacity Utilization in Bering Sea and Aleutian Island Groundfish Fisheries." In: *Micro-behavior and Macro-results: Proceedings of the Tenth Biennial Conference of the International Institute of Fisheries Economics and Trade*. Oregon State University Press.

## **Working Papers and Reports**

Anderson C., J. Meredith and R. Felthoven. 2017. "The Regional and Community Size Distribution of Fishing Revenues in the North Pacific."

Anderson C., J. Meredith and R. Felthoven. 2017. "Distributional Trends of Ownership in Alaska's Catch Share Fisheries."

"Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2013" (with Terry Hiatt). NMFS, November 2014.

"Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2012" (with Terry Hiatt). NMFS, November 2013.

"Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2011" (with Terry Hiatt). NMFS, November 2012.

"Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2010" (with Terry Hiatt). NMFS, November 2011.

"Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2009" (with Terry Hiatt). NMFS, November 2010.

"Chinook Salmon Bycatch Data Collection Program." 2009. Regulatory Impact Review/Initial Regulatory Flexibility Analysis (with Mark Fina, Brian Garber-Yonts, and Alan Haynie).

"Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2008" (with Terry Hiatt). NMFS, November 2009.

## **Reports and Working Papers (continued)**

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2007” (with Terry Hiatt). NMFS, November 2008.

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2006” (with Terry Hiatt). NMFS, November 2007.

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2005” (with Terry Hiatt). NMFS, November 2006.

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2004” (with Terry Hiatt). NMFS, November 2005.

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2003” (with Terry Hiatt). NMFS, November 2004.

“Report of the NOAA Fisheries Working Group on Excessive Shares in Individual Fishing Quota and other Quota Allocation Programs” (with M. Milazzo, L. Benaka, M. Hodor, J. Ward, P. Fricke, E. Thunberg, A. Kitts, J. Waters, D. Squires, S. Freese, K. Quigley, C. Lian, T. Meyer, M. Pan, and S. Allen). November 2003.

“Alaska Groundfish Fisheries Draft Programmatic Supplemental Environmental Impact Statement” (one of many contributors). National Marine Fisheries Service, Alaska Region. U.S. Department of Commerce. September 2003.

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2002” (with Terry Hiatt and Joseph Terry). NMFS, November 2003.

“Quantitative Estimates of Fishing Capacity, Capacity Utilization, and Fishery Utilization for Alaskan Commercial Fisheries, 2001” (with Terry Hiatt and Joseph Terry). NMFS Report, 2002.

“Stock Assessment And Fishery Evaluation Report For the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2001” (with Terry Hiatt and Joseph Terry). NMFS, November 2002.

“Bering Sea and Aleutian Islands Crab Rationalization Program Trailing Amendments: Data Collection Program” (with Darrell Brannan, Joe Terry and Mark Fina). Prepared for the North Pacific Fishery Management Council, October 2002.

## **Reports and Working Papers (continued)**

“BSAI Crab Rationalization: Implications from the AFA’s Effects on Efficiency and Capacity Utilization in the Pollock Fishery.” Appendix 2-8 in *BSAI Crab Rationalization Program Alternatives*, North Pacific Fisheries Management Council. January 2002.

“Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Island Area: Economic Status of the Groundfish Fisheries off Alaska, 2000” (with Terry Hiatt and Joseph Terry). NMFS, November 2001.

“Assessing Economic Performance in Selected Alaska Groundfish Fisheries” (with Douglas Larson, Jim Sanchirico, and Joseph Terry). Report to the Pacific States Marine Fishery Commission. University of California, Davis, 1999.

“Economic Valuation of Beneficial Uses in the Lake Tahoe Basin” (with Daniel Lew, Sabina Shaikh, Douglas Larson, Lauren Stewart, and Keith Casey). Report to the California Department of Transportation, Environmental Program, 1998.

“Measuring Benefits of Pesticide Use in California Agriculture: A Distance Function Approach.” Manuscript, University of California, Davis, 1997.

“Economic Impacts of Reductions in Irrigation Water Availability in the Sacramento Valley” (with Hyunok Lee, Daniel A. Sumner, Richard Howitt). Report for the California Rice Research Board. University of California, Davis, 1995.

## **Selected Conference Papers and Presentations**

“Improved Approaches for Inclusion of Social and Economic Considerations into Management.” Lowell Wakefield Fisheries Symposium, Anchorage Alaska, May 2015. Invited speaker.

“Cooperative Formation and Peer Effects in Fisheries.” North American Productivity Workshop, Ottawa Canada, 2014. Also presented at the Western Economic Association International conference, Seattle WA, 2013.

“Findings from Meetings with the Seafood Industry.” 2014. Alaska Fisheries Science Center *Half-Baked Seminar Series*.

“Economic Groundfish SAFE Report, 2013.” Presented to the Scientific and Statistical Committee, North Pacific Fishery Council. Seattle, WA.

“Current Trends in Economic Performance in North Pacific Fisheries.” Scientific and Statistical Committee Workshop on Social Science, North Pacific Fishery Council Meeting, Feb. 2011.

“Socioeconomic Data Collection for Alaska Fisheries: Current Status and Needs.” International Institute of Fisheries Economics and Trade Conference. Montpellier, France, 2010.

“Estimating the Shadow Value of Salmon Bycatch in the Bering Sea Pollock Fishery.” North American Association of Fisheries Economists Biannual Meeting, Newport, Rhode Island, 2009.

### **Selected Conference Papers and Presentations (cont.)**

“Fishing Revenue, Productivity, and Product Choice in the Alaskan Pollock Fishery.” First Place Research Paper; NOAA Fisheries Economics and Social Sciences Bi-annual Meetings, 2008.

“Estimating Heterogeneous Primal Capacity and Capacity Utilization Measures in a Multi-Species Fishery.” Third Place Research Paper; NOAA Fisheries Economics and Social Sciences Bi-annual Meetings, 2008.

“Economic Data Collection in Fishery Rationalization Programs.” International Symposium on Society and Resource Management, Vancouver, B.C., 2006.

“Bering Sea and Aleutian Islands Crab Rationalization and Economic Data Collection.” NOAA Fisheries Economics and Social Sciences Bi-annual Meetings, 2006.

“Federally Managed Fisheries off Alaska: an Overview.” NOAA Fisheries Overcapacity Working Group, Washington, D.C., 2005.

“Measuring Fishing Capacity and Utilization with Commonly Available Data: An Application to Alaska Fisheries.” Third Place Research Paper; NOAA Fisheries Economics and Social Sciences Bi-annual Meetings, 2004.

“A Multi-output Transformation Function Approach for Estimating Fishing Capacity.” First Place Research Paper; NOAA Fisheries Economics and Social Sciences Bi-annual Meetings, 2004. Also Presented at the Centre for Fisheries Economics, Bergen, Norway, 2003.

“Economic Performance Indicators for Alaskan Groundfish Fisheries.” Presented to the Scientific and Statistical Committee of the North Pacific Fisheries Management Council. Sea-Tac, Washington, October 2001.

“Primal Approaches for Measuring Fishing Capacity: a Comparison.” NMFS/Sea Grant Graduate Fellows Seminar, Silver Spring, Maryland, May 2001.

“Measuring Capacity and Capacity Utilization in North Pacific Groundfish Fisheries.” *Selected Paper*, American Agricultural Economics Association Annual Meetings, Tampa, Florida, 2000. Also presented at Oregon State University and Utah State University.

“Bycatch Allocation in Multispecies Fisheries: A Distance Function Approach.” *Selected Paper*, International Institute of Fisheries Economics and Trade, Oregon State University, 2000.

“Capacity and Capacity Utilization in Bering Sea and Aleutian Island Groundfish Fisheries.” *Selected Paper*, International Institute of Fisheries Economics and Trade Conference, Oregon State University, July 2000.

“Size Matters: Vessel Size and Fishing Capacity in Groundfish Fisheries.” Department of Agricultural and Resource Economics Brown Bag Seminar, UC Davis. May 2000.

## **Selected Conference Papers and Presentations (continued)**

“Evaluating Effective Benefits and Costs of Pesticides in U.S. Agriculture” (with V.E. Ball, C.J. Morrison Paul and R. Nehring). Economic Research Service Conference on Agricultural Productivity. March 2000.

“Measurement of Allocative Efficiency in Alaskan Groundfish Fisheries” (with Douglas M. Larson and Joseph Terry). *Selected Poster*, American Agricultural Economics Association Annual Meetings, Nashville, Tennessee, August 1999.

“Multi-output Revenue Function Models of Groundfish Processing.” Department of Agricultural and Resource Economics Brown Bag Seminar Series, University of California, Davis. May 1999.

“Multispecies Revenue Function Estimation for North Pacific Groundfish Fisheries” (with Douglas Larson, Jim Sanchirico, and Joseph Terry). *Selected Paper*, American Agricultural Economics Association Annual Meetings, Salt Lake City, August 1998. (Also presented at the International Institute of Fisheries Economics and Trade Conference, Tromso, Norway, July 1998.)

## **Training/Certifications**

Level 1 contracting officer representative (COR) certification; have taken accredited courses in COR duties, project management principles, small business programs, green purchasing, federal procurement, federal appropriations law and writing performance based contracts.

## **Teaching Experience**

*University of California, Davis, 1995 – 2000:* Served as a teaching assistant as both an undergraduate and graduate student in five intermediate economics courses, a futures and options course, and a natural resource economics course. I also served as a guest lecturer on several occasions.

## **Relevant Coursework**

Fields of specialization: resource and environmental economics, econometrics.

Courses: resource and environmental economics, econometrics (linear and non-linear models, asymptotic theory, panel data models, time series), dynamic optimization, production economics, microeconomics, statistics, demand analysis, welfare analysis, mathematical programming, and macroeconomics.

## **Computer Skills**

Knowledge of SAS, TSP, GiveWin, Shazam, Frontier, Microsoft Excel, Word and Powerpoint, and Unix; familiarity with GAMS, GAUSS, R.



## Selected Professional Service

*Referee for: Agricultural and Resource Economics Review, Australian Journal of Agricultural and Resource Economics, American Journal of Agricultural Economics, American Agricultural Economics Association Annual Meetings, Canadian Journal of Agricultural Economics, Environmental and Resource Economics, European Journal of Operational Research, Fisheries Bulletin, Journal of Applied Economics, Journal of Environmental Economics and Management, Journal of Productivity Analysis, Marine Resource Economics, Natural Resource Modeling, North American Journal of Fisheries Management and Saltonstall-Kennedy grants.*

Invited speaker, Lowell Wakefield Fisheries Symposium, Anchorage, Alaska, May 2015

Ph.D. Dissertation Committee, Marysia Szymkowiak, University of Delaware, 2013-2015;

Alexander Kotlarov, University of Alaska, Fairbanks, 2013-present

AKFIN Advisory Team, 2013-present

NOAA National Productivity Measurement Working Group, 2013-2014

Selected to represent NOAA as U.S. Delegate for PICES Human Dimensions Section, 2012-present

Invited presenter, Special Session on Mathematics in Natural Resource Modeling, 2012

NOAA Fisheries National Standard 10 Working Group on Vessel Safety, 2011-2012

University of Washington, School of Fisheries and Aquatic Sciences; Selection committee for fisheries economist position, 2011

NOAA Fisheries Workgroup on Defining Catch Share Program Performance Metrics, 2011-2013

NOAA Fisheries Workgroup on Defining Social Indicators for Fishing Communities, 2011

Joint committee to develop harvest crew data collection program (Alaska Department of Fish and Game and NOAA Fisheries), 2010

Economic data collection program for salmon bycatch in Bering Sea pollock fisheries (NOAA Fisheries and North Pacific Fishery Management Council), 2010

Organizer, Workshop on BSAI Crab Research and Data Collection, 2010

Election Committee, International Institute of Fisheries Economics and Trade, 2009

NOAA Fisheries National Standard 2 Working Group on Best Scientific Information Available in Fisheries Management, 2008-2010

AKFIN Advisory Committee, 2007-present.

Project lead, Comprehensive Economic Data Collection Committee (North Pacific Fishery Management Council) 2006-2008

NMFS National Overcapacity Working Group 2006-2007

Economic Data Collection Committee for Bering Sea crab fisheries (North Pacific Fishery Management Council), 2005

Mentor, National Sea Grant College and NMFS Graduate Fellowship in Marine Resource Economics, 2004 (Joshua Abbot), 2005 (Harrison Fell) and 2013 (Marysia Szymkowiak).

Excessive Shares in Individual Transferable Quota Programs Management Team, U.S. National Marine Fisheries Service 2003-2004

Mentor, Alaska Fisheries Science Center Summer Internship, 2004

NOAA Fisheries Working Group on Excessive Shares in IFQ Programs, 2003

Invited Presenter, 50<sup>th</sup> Anniversary Workshop of the Centre for Fisheries Economics, Norway, 2003

Bevan Symposium Steering Committee, University of Washington School of Fisheries, 2003

Expert Group on Overcapacity in Fisheries, 2001

Panel on Fishing Capacity and Fishing Mortality, NMFS, Santa Cruz, CA, 2001

Undergraduate tutor, University of California, Davis, 1999

Graduate Student Policy Representative, U.C. Davis, 1998

## References

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