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CURRICULUM VITAE

NAME: SAMUEL F. HERRICK, Jr.

ORGANIZATION: National Oceanic & Atmospheric Administration
National Marine Fisheries Service
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PRESENT POSITION: Industry Economist

DISCIPLINE: Resource Economics

PERSONAL INFORMATION: Born February 22, 1945 in USA; citizen of USA.

EDUCATION:

B.A., Business Administration, University of Hawaii, 1972
M.S., Agriculture and Resource Economics, University of Hawaii, 1975
Ph.D., Agriculture and Resource Economics, Oregon State University, 1979

TITLE OF PH.D. DISSERTATION:

An economic analysis of the long-run decision making behavior of Oregon otter trawl fishermen

EXPERIENCE:

2002 - 2009	Lecturer San Diego State University San Diego, CA
1979 _ present	Industry Economist National Marine Fisheries Service La Jolla, CA
1975 _ 1979	Research Assistant

Department of Agricultural and
Resource Economics
Oregon State University
Corvallis, OR

1973 _ 1975 Research Assistant
Sea Grant Program
University of Hawaii
Honolulu, HI

1972 _ 1973 Research Associate
Marine Option Program
University of Hawaii
Honolulu, HI

RESEARCH INTERESTS:

Fisheries conservation and management policy analysis
Economic welfare and financial analysis

HONORS AND AWARDS:

Outstanding Performance Award, 1983
Special Act or Service Award, 1982
Ten-Year Service Award, 1989
Fifteen-Year Service Award, 1994
Bronze Medal, 2003

PROFESSIONAL AFFILIATIONS:

American Agricultural Economics Association
Western Association for the Evaluation of Ecosystems
American Fisheries Society
International Institute of Fisheries Economics and Trade

SERVICE ON SCIENTIFIC COMMITTEES:

Member, Pacific Fishery Management Council's Billfish/Oceanic Shark Plan
Development Team, 1980_1981
Albacore Task Force, SWFC, 1983_1988
EEO Committee, 1987
Member, Pacific Fishery Management Council's West Coast Groundfish Limited Entry
Amendment Drafting and Oversight Committee, 1990
Member, Pacific Fishery Management Council's Groundfish Management Team, 1997-
1999
Member, Pacific Fishery Management Council's Coastal Pelagic Species Fishery

Management Team, 1991-present
Member, Pacific Fishery Management Council's Highly Migratory Species Plan
Development Team, 1999-2006
Member, Pacific Fishery Management Council's Ecosystem-Fishery Management Plan
Development Team, 2010-present
Member, National Catch Share Working Group, 2011

PUBLICATIONS - SAMUEL F. HERRICK, Jr.

1. Herrick, Jr., S.F. and W.J. Baldwin. 1975. The commercial production of topminnows: a preliminary economic analysis. University of Hawaii Sea Grant Programs, UNIHI_SEAGRANT_AR_75_02.
2. Herrick, Jr., S.F. 1975. Factors influencing the choice of overseas cargo transport mode in Hawaii. Unpublished Masters Thesis, Department of Agricultural and Resource Economics, University of Hawaii.
3. Herrick, Jr., S.F. 1977. Some economic and technological aspects related to the commercial production of the topminnow *Poecilia vittata*. NOAA Technical Report, NMFS Circular 408.
4. Herrick, Jr., S.F. 1979. An economic analysis of the long_run decision_making behavior of Oregon otter trawl fishermen. Unpublished Ph.D. Thesis, Department of Agricultural and Resource Economics, Oregon State University.
5. Herrick, Jr., S.F. 1980. A baseline economic analysis of surface tuna fishing activity in the eastern tropical Atlantic. Collective Volume of Scientific Papers, International Commission for the Conservation of Atlantic Tunas, Madrid, (SCRS_1981), Vol.XV.
6. Herrick, Jr., S.F. 1981. Size and species composition of Atlantic tunas from imports landed in Puerto Rico during 1980. Collective Volume of Scientific Papers, International Commission for the Conservation of Atlantic Tunas, Madrid, (SCRS_1981), Vol. XVI.
7. Herrick, Jr., S.F. 1982. A review of the tropical tuna fishery of the Atlantic Ocean, 1975_80. Collective Volume of Scientific Papers, International Commission for the Conservation of Atlantic Tunas, Madrid, (SCRS_1982), Vol. XVIII.
8. Herrick, Jr., S.F. 1984. Socio_economic profile of the southern California billfish anglers. NMFS, Southwest Fisheries Center Administrative Report, LJ_84_12. La Jolla, California.
9. Herrick, Jr., S.F. 1984. U.S. tuna trade summary, 1982. *Mar. Fish. Rev.* 46(1).
10. Herrick, Jr., S.F. and S.J. Koplín. 1984. U.S. tuna trade summary, 1983. *Mar. Fish. Rev.* 46(4).

11. Carlson, K.L. and S.F. Herrick, Jr. 1985. Vessel characteristics and performance of the north Pacific albacore fleet: 1974_1976. NMFS, Southwest Fisheries Center Administrative Report, LJ_85_05. La Jolla, California.
12. Herrick, Jr., S.F. and K.L. Carlson. 1986. A budget simulation model for west coast albacore trollers. NOAA, NMFS, Southwest Fisheries Center, NOAA Technical Memorandum NOAA_TM_NMFS_SWFC_57.
13. Herrick, Jr., S.F. and S.J. Koplín. 1986. U.S. tuna trade summary, 1984. *Mar. Fish. Rev.* 48(3).
14. Herrick, Jr., S.F. and S.J. Koplín. 1986. U.S. tuna trade summary, 1985. NMFS, Southwest Region Administrative Report, SWR_86_10. Terminal Island, California.
15. Herrick, Jr., S.F. and S.J. Koplín. 1987. U.S. tuna trade summary, 1985. *Mar. Fish. Rev.* 49(3).
16. Herrick, Jr. S.F. 1987. Recent trends in worldwide tuna production and trade. In Tuna and Billfish Summaries of Major Stocks, ed. by Bartoo, N. Southwest Fisheries Center Administrative Report #LJ-87-26.
17. Herrick, Jr., S.F. and D. Hanan. 1988. A review of California entangling net fisheries 1981-1986. U.S. Dept. of Commer. NOAA Tech. Memo., NMFS, SWFC, No. 108.
18. Herrick, Jr., S.F., J.G. Lee, and D. Squires. 1988. Documentation for the west coast fishing fleet cost-earnings data base. Southwest Fisheries Center Administrative Report #LJ-88-04.
19. Herrick, Jr., S.F. 1988. Book Review, Doulman, D. (ed). The development of the tuna industry in the Pacific islands region: An analysis of options (Honolulu: East-West Center, 1987). *Mar. Res. Econ.* 5:165-169.
20. Herrick, Jr., S.F. and D.D. Huppert. 1988. Economic impacts associated with changes in landings of California entangling net fisheries, 1981-1986. Southwest Fisheries Center Administrative Report #LJ-88-27.
21. Herrick, Jr., S.F., W.W. Parks, and P.J. Donley. 1988. U.S. tunas trade summary, 1986. Southwest Region Administrative Report #SWR-88-3.
22. Parks, W.W., S.F. Herrick, Jr. and P.J. Donley. 1989. U.S. trade in tuna for canning, 1987. Southwest Region Administrative Report #SWR-89-01.
23. Herrick, Jr., S.F. and D. Squires. 1989. Integration of United States, Thailand and Philippines canned tuna markets. *Asian Fish. Sci.* 3:85-99

24. Parrish, R.H., N.W. Bartoo, S.F. Herrick, Jr., P.M. Kleiber, R.M. Laurs, and J.A. Wetherall. 1989. Albacore management information document. U.S. Dept. of Commer., NOAA, Tech. Memo., NMFS, SWFC, No. 126, 56p.
25. Squires, D., S.F. Herrick, Jr. and J. Hastie. 1989. Integration of Japanese and United States sablefish markets. *Fish. Bull.*, U.S. 87(2):341-351.
26. Herrick, Jr., S.F. and D. Squires. 1990. On measuring fishing fleet productivity: Development and demonstration of an analytical framework. *Fish. Bull.*, U.S. 88(1):85-94.
27. Squires, D. and S.F. Herrick, Jr. 1990. Productivity measurement in common property resource industries: Theory and an application. Southwest Fisheries Center Administrative Report #LJ-90-18.
28. Parks, W.W., P. Donley, and S. Herrick, Jr. 1990. U.S. trade in tuna for canning, 1987. *Mar. Fish. Rev.* 52(1):14-22.
29. Herrick, Jr. S.F. and J.G. Lee. 1991. Current trends in world wide tuna production and trade. Southwest Fisheries Science Center Administrative Report #LJ-91-43.
30. Miller, M., S. Herrick, D. Squires, J. Walden, D. Lipton, and I. Strand. 1992. A cost-benefit analysis of pollock and cod quota allocations in the Bering Sea/Aleutian Islands and Gulf of Alaska groundfish fisheries. NMFS Economics Special Studies Team Report, 48p.
31. Ainley, D, B. DeLong, S. Herrick, L. Jacobson, E. Konno, J. Lanfersieck, M. Lowry, R. Parrish, C. Thomson, and P. Wolf. 1993. Draft fishery description for the Pacific coastal pelagic species fishery management plan. SWFSC Admin. Rep., La Jolla, LJ-93-15, 186 p.
32. Herrick, Jr. S.F., I. Strand, D. Squires, M. Miller, D. Lipton, J. Walden and S. Freese. 1994. Application of benefit-cost analysis to fisheries allocation decisions: the case of Alaska walleye pollock and Pacific cod. *N. Am. J. Fish. Mgmt.* 14:726-741.
33. Herrick, Jr., S.F. 1995. Book Review, Campbell, H.F. and A.D. Owen (eds). *The Economics of Papua New Guinea's Tuna Fisheries* (Canberra, Australia: Australian Center for International Agricultural Research, 1994). *Mar. Res. Econ.* 10(4):409-412.
34. Herrick, Jr. S.F., J. Kirkley, K. Salvanes and D. Squires. 1996. Environmental regulation and technical efficiency: the case of tuna-dolphin fishing. SWFSC Admin. Rep. LJ-94-22.

35. Herrick, Jr. S.F. 1996. Monthly patterns in Pacific coast groundfish landings: effects of landings limits. SWFSC Admin. Rep. La Jolla, LJ-96-03, 30 p.
36. Herrick, Jr. S.F. 1996. Bimonthly patterns in groundfish deliveries to Pacific coast processors: effects of cumulative monthly landings limits. SWFSC Admin. Rep. LJ-96-04, 29 p.
37. Herrick, Jr. S.F. 1996. The U.S. Pacific tuna industry. In: *Our Living Economic Oceans: The Economic Status of U.S. Fisheries, 1996*. U.S. Dep. of Commer. NOAA Tech. Memo. NMFS F/SPO-22:60-67.
38. Herrick, Jr. S.F., B. Rader and D. Squires. 1997. Access fees and economic benefits in the western Pacific United States purse seine tuna fishery. *Mar. Pol.* 21(1):83-96.
39. Squires, D., H. Campbell, S. Cunningham, C. Dewees, R. Q. Grafton, S. Herrick, Jr., J. Kirkley, S. Pascoe, K. Salvanes, B. Shallard, B. Turriss and N. Vestergaard. 1998. Individual transferable quotas in multispecies fisheries. *Mar. Pol.* 22(2):135-159.
40. Herrick, Jr. S. F. and D. Thomas. 1998. The California commercial rockfish fishery during 1991-1995: description, trends and issues. SWFSC Admin. Rep. LJ-98-08, 174 p.
41. Bargmann, G., D. Hanan, S. Herrick, K. Hill, L. Jacobson, J. Morgan, R. Parrish, J. Spratt and J. Walker. 1998. Amendment 8 (to the Anchovy Fishery Management Plan) incorporating a name change to: The coastal pelagic species fishery management plan. Pacific Fishery Management Council, Portland.
42. Campbell, H., S. F. Herrick, Jr. and D. Squires. 2000. The role of research in fisheries management: the conservation of dolphins in the eastern tropical Pacific and the exploitation of southern bluefin tuna in the southern ocean. *Ocean Development and International Law.* 31:347-375.
43. Crone, P., B. Culver, C. Dahl, S. Herrick, K. Hill, J. McCrae, J. Morgan, P. Smith, D. Waldeck, and M. Yaremko. 2002. Limited entry fleet capacity management and a market squid MSY control rule: Amendment 10 to the coastal pelagics species fishery management plan. Pacific Fishery Management Council, Portland.
44. Herrick, Jr., S.F., R. Rasmussen, D. Dealy and D. Squires. 2003. An analysis of producer surplus and private profits for the Pacific coast HMS fishing fleets. NMFS, SWFSC Admin Rep. LJ-03-07.
45. Squires, D., S.F. Herrick, D. Dealy, C. Janisse, and D. Colpo. 2003. Cost-and-earnings survey of the California-Oregon drift gillnet fleet, 1998-1999. NMFS, SWFSC Admin Rep. LJ-03-02.

46. Squires, D., S.F. Herrick, and D. Dealy. 2003. Cost-and-earnings survey of the west coast albacore troll fleet, 1998-1999. NMFS, SWFSC Admin Rep. LJ-03-02.
47. Au, D., N. Bartoo, S. Crooke, S. Fougner, S. Herrick, J. McCrae, E. Mitchell, J. Morgan, M. Robinson, L. Six, S. Smith and D. Squires. 2003. Fishery management plan and environmental impact statement for U.S. west coast fisheries for highly migratory species. Pacific Fishery Management Council, Portland.
48. Haraden, J., S. Herrick, D. Squires, and C. Tisdell. 2004. "Economic Benefits of Dolphins in the United States Eastern Tropical Pacific Purse Seine Tuna Industry," *Environmental and Resource Economics*, 28: 451-468.
49. Hannesson, R., M. Barange and S.F. Herrick Jr. (eds.) 2006. *Climate Change and the Economics of the World's Fisheries*. Edward Elgar, U.K.
50. Herrick, S. F., K. Hill and C. Reiss. 2006. An optimal harvest policy for the recently renewed United States Pacific sardine fishery. *In Climate change and the economics of the world's fisheries*, R. Hannesson, M. Barange and S. Herrick eds. Edward Elgar, U.K. pp: 126-150.
51. Herrick, Jr. S. F., J. G. Norton, J. E. Mason and C. Bessey. 2007. Management application of an empirical model of sardine-climate regime shifts. *Marine Policy*, 31: 71-80.
52. Hannesson, R. and S. Herrick. 2008. Catch strategies for the pacific sardine. CalCOFI Rep., Vol. 49: 222-231.
53. Norton, J.G., S.F. Herrick and J.E. Mason. 2009. Fisheries abundance cycles in ecosystem and economic management of California fish and invertebrate resources. *In The future of fisheries science in North America*, R.J. Beamish and B.J. Rothschild eds. Springer, B.V. pp. 227-244.
54. Hannesson, R., S. Herrick and J. Field. 2009. Ecological and economic considerations in the conservation and management of the Pacific sardine (*Sardinops sagax*). *Ca. J. Fish. Aquat. Sci.* 66: 859-868.
55. Herrick, Jr, S.F., J.G. Norton, R. Hannesson, U.R. Sumaila, M. Ahmed and J.Pena-Torres. 2010. Global production and economics of small pelagic fish. *In Climate Change and Small Pelagic Fish*, Checkley, D.M., J. Alheit, Y. Oozeki and C. Roy eds. Cambridge University Press, N.Y. pp:256-274.
56. Hannesson, R. and S.F. Herrick Jr. 2010. The value of Pacific sardine as forage fish. *Marine Policy* 34: 935-942.

In Press or accepted for publication, 2011:

57. Norton, J.G., J.E. Mason, C. Bessey and S.F. Herrick. 2011. Physical, Biological and Economic Interconnections in the Ecosystems and Fisheries off California, 1877-2004. *In* PACLIM: proceedings of the 24th Pacific Climate Workshop, 2009, Scott W. Starratt ed. Elsevier, in press.
58. Fissel, B.E., N.C.H. Lo and S.f. Herrick Jr. 2011. Daily Egg Production, Spawning Biomass and Recruitment for the Central Subpopulation of Northern Anchovy 1981–2009. *CalCOFI Rep.*, Vol. 52, in press.
59. Hannesson, R. and S.F. Herrick Jr. 2011. Local feed fish supplies and possible offshore aquaculture in California1. *Aquaculture Research*, in press.
60. Sumaila, U.R., W.W.L. Cheung, V.W.Y. Lam, D. Pauly and S. Herrick. 2011. Climate change impacts on the economics of world fisheries. *Nature Climate Change* accepted.