

MARION MANN
P.O. Box 645
South Beach, OR 97366
(541) 867- 0413 lab (541) 867- 4636 home
email: marion.mann@oregonstate.edu

PROFESSIONAL EXPERIENCE

Ageing Specialist

Developed highly specialized skills in ageing seven groundfish species and completed production ageing of over 22,000 individual structures. Designed data sheets, wrote the associated protocol and produced quarterly production reports. Used computer software to perform image analysis, inventory, random stratified sub-sample selection, data entry, quality assurance, and data interpretation. On all double read data performed statistical analysis for tracking of ageing bias and precision such as the V, CV, D, APE, Hoenigs Test of Symmetry and Von Bertalanffy growth curves. Conduct literature searches, and use Internet resources for information gathering and communication. Provided training in ageing methodologies to co-workers and new personnel. Designed and completed a research project presented at the Western Groundfish Conference in 2000. Project activities included data collection, statistical analysis, power-point presentation, and report writing. Lead the team on the development and maintenance of the web site for the Committee of Age Reading Experts (CARE), and contributed to the "Web working group" by writing and illustrating a section on otolith extraction and handling procedures. Attend meetings, workshops, seminars and conferences. Participated in numerous at sea projects, including gear research, several slope surveys and a juvenile whiting survey cruise.

ODFW Outreach Volunteer: November 1997 to April 1998. Organized Family Science Nights and Science Fair events at the Melrose Elementary school, Roseburg OR. Established a Science Fair Committee and support programs. Family science nights included ten hands-on family science sessions with demonstrations and interactions. Support programs involved after school High school student counseling and one-to-one team matches with college nursing students and science fair participants. Coordinated the design of application forms and writing of explanatory support materials including sample project demonstrations. Organized the final project-judging event and designed our scoring system. Interacted with media, coordinated advertisement, and arranged accompanying program events. Initiated and conducted fund raising activities, delegated tasks, and supervised volunteers.

May 99 to September 99

NRS II

Oregon Department of Fish And Wildlife

Newport, OR

Conducted literature searches on by-catch excluder devices and fish behavior. Planned and organized at sea research trips. Put together video equipment and procured necessary components. Tested and ensured functionality of all equipment by performing trial runs. Designed and ordered the manufacture of custom made nets and accessories. Designed data forms. Participated in two at sea research trips. Collected biological fish data and extracted otoliths. Transposed, edited, and analyzed video recordings. Generated a video summary report. Wrote cruise report.

May 95 to October 95

Fisheries Tech. III

Pacific States Marine Fisheries Commission

Gladstone, OR

Intercept interviews for the Marine Recreational Fisheries Statistical Survey (MRFSS). Collected data on biological, economic, and demographic information used to calculate CPUE. Performed at sea GSI sampling for black rockfish. Wrote monthly reports summarizing fishing activities. Used random sampling design in intercept activities. Collected maturity data on black rockfish, and developed picture catalog. Explained and discussed fishing regulations with the public and responded to frustrated individuals and their grievances. Participated in surfperch research, collected salmon parts for CWT study and ageing, attended meetings and workshops.

June 94 to August 96

Biologist

Tioga Resource and Resources Northwest

Roseburg & Portland, OR

Marbled Murrelet Surveys: Scheduled and tracked all site surveys according to Pacific Seabird Group protocol. Collected, recorded, and edited data of Murrelet activity. Performed general, single site, and intensive surveys. Hiked, camped and backpacked over long distances in tough terrain. Used GPS system for station location, and prepared maps of bird activity. Used topographic maps, aerial photographs, compass and altimeter. Wrote technical report summarizing survey and detection data. (June 94 to August 94 and Feb. 96 to August 96.) Participated in Marbled Murrelet ocean surveys from Depoe Bay to Florence, OR. August 96 (Craig Strong)

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Biologist

Stream surveys: Conducted stream habitat surveys in the North and South Umpqua Watersheds using the Hankin and Reeves Inventory Handbook Level 2, version 7.5. Made data recordings on stream character, fish, substrate, bank erosion, vegetation and culverts. Used Convert database program for data entry. (June 94 to Nov. 94)

March 94 to June 94

Research Technician

Oregon State University

Corvallis, OR

Flying squirrel population study: Before and after treatment project using capture and recapture techniques. Surveyed and plotted trapping grid in treatment areas. Set up 100 stations per grid, baited and maintained two live animal traps per station. Trapped and tagged chipmunks and squirrels using ear tags and a toe clipping numbering system. Collected and recorded biological information, including sex, condition and lactating females. Activities required extensive hiking with heavy loads in incremental weather conditions. Used topographical and aerial maps, compass, altimeter, and hip chain.

April 93 to September 93

Project Biologist

Oregon Department of Fish And Wildlife

Newport, OR

Project evaluated human disturbance levels to a sea bird colony and sea lion rookery at Three Arch Rocks. Developed research protocol and designed data sheets and data base structure. Conducted literature search. Collected, entered, edited and analyzed data. Wrote preliminary activity and summary report. Attended meetings, workshops, and legislative session. Interacted with the public, discussed and listened to comments and complaints. Used cameras and a Questar scope for documentation and data recording. Worked in cooperation with the U.S. Fish and Wildlife Service, the Chamber of Commerce and the American Sportfish Association.

July 92 to February 94

Fisheries Tech. III

Pacific States Marine Fisheries Commission

Gladstone, OR

Collected data on marine mammal interactions with gillnet fisheries. Observed fishing operations on-board vessels operating in the Columbia River, Willapa Bay, and Greys Harbor. Scheduled, arranged and conducted charter trips. Interacted with fisherman and the public, discussing regulations, policies, quotas and projects. Worked with tribal fisheries. Performed necropsies on seals and sea lions. Collected histological and toxicological tissue samples. Participated in population surveys. Wrote project evaluations reports and made recommendations after each fishery. (Five fishing seasons, summer 92, fall 92 and 93, winter 93 and 94)

March 92 to July 92

Park Ranger

Parks and Recreation Department, City of Edmonds

Edmonds, WA

Interpreted the coastal ecology of Puget Sound to promote marine preservation and instill concepts of stewardship. Designed, wrote and administered classroom presentations and nature walks for grades K- 13. Wrote summary reports on schedules and lesson plan development. Interacted with the public, providing environmental education and information about marine sanctuary rules and regulations. Assisted in the construction of displays, and in the training and supervising of junior rangers. Interacted with enforcement activities carried out by the Edmonds Police Dept. and NMFS.

September 90 to July 93

Keeper Aide - Volunteer

Point Defiance Zoo and Aquarium,

Tacoma, WA

Assisted zoo staff in the care, training and husbandry of marine animals. Helped maintain exhibits. Prepared diets, tested water quality, trained and fed animals and assisted in medical procedures.

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March 91 to October 91

Fisheries Observer Arctic Observers / National Marine Fisheries Service Seattle, WA

Observed fishing practices on-board vessels operating in the Bering Sea and the Gulf of Alaska. Collected, recorded and processed biological data for NMFS. Evaluated and designed methods measuring volumes to obtain accurate data on haul sizes. Recorded and documented gear design and fishing activities. Used random sampling design to collect fish data. Sampled whole hauls, partial hauls and used sub-samples for species composition of catch and by-catch. Collected stomach samples and otoliths. Prepared summary reports and weekly catch messages used in determining fishing quotas. Prepared detailed technical reports for NMFS during debriefing. Was trained in fish identification and data collection. NMFS observer certified.

August 90 to March 91

Veterinary Technician Animal Surgery Clinic of Seattle Seattle, WA

Assisted in all aspects of veterinary care and surgical procedures on patients. Administered medications pre-surgery and post- surgery. Took x-rays. I prepared animals and instruments for surgery. Organized and selected surgical trays depending on procedure. Assisted during surgery. Gave post-surgical care and monitored patients. Inventoried, ordered and stocked all supplies. Supervised back office and kennel maintenance crew. Performed euthanasia.

February 87 to July 90

President / Team Leader - Volunteer Humboldt Wildlife Care Center Arcata, CA

Served as volunteer. Supervised and participated in the functions of all teams. Chaired monthly committee meetings and supervised budget and fund raising activities. Developed goals and objectives and associated timelines. Established positions and outlined position descriptions. Wrote activity reports for CDFG. Implemented grievance and work evaluation procedures and guidelines. Handled disciplinary problems. Organized and gave presentations, trained volunteers, and represented the HWCC during public forums. Worked with various agencies such as CDFG, NMFS, and the Coast Guard. Conducted weekly radio interviews, wrote newspaper columns and performed T.V. appearances. Organized and coordinated rescues, transport and rehabilitation of injured and orphaned wildlife. Performed necropsies and euthanasia.

Awards, Scholarships and Grants

Date	Award	Amount
5-1-2002	Markham Grant Requirements: Year 1 - Poster Year 2 – Presentation (30 min)	10,000

Presentations and papers

March 2001	Determination of Growth and Validation of 5 Otolith Preparation Methods for Shortspine Thornyhead. Appendix to: Stock Status of Shortspine Thornyhead off the Pacific West Coast of the United States 2001. March 31, 2001
April 2000	Western Groundfish Conference 2000, Sitka Alaska Verbal presentation (20 min): Changes in Precision and Bias for Age Readers through Hands-on Workshop Activities – what does it mean?
January 2000	Cruise Report Video Observations of Fish Behavior in Bottom Trawls off the Oregon Coast, 1999. Oregon Department of Fish and Wildlife, Newport OR
May 1990	Senior Thesis Biological Rhythms and Song Activity of Humpback Whales (<i>Megaptera novaeangliae</i>)

Certifications: First Aid, CPR, PADI Scuba diving, Boat operation, Marine Safety and Survival.

Additional Training: Fisheries surveys - shelf, slope and gear performance; Fish trapping; Beach seining; Deer/fawn capture, trapping and radio telemetry.

Workshops Larval Fish Identification; Microsoft EXCEL; Communication Skills; Team building; Bird identification; Bat identification;