

Curriculum Vitae

Joe A. Tadey

Fraser (River) Stock Assessment
Department of Fisheries and Oceans
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EDUCATION

B.Sc. (1988) Bachelor of Science, Biology
Faculty of Science
Simon Fraser University, Burnaby, B.C.

WORK EXPERIENCE

Summary: I have been employed by the Department of Fisheries and Oceans (DFO) for over 14 years. During this time, I worked in a number of capacities in Fraser Stock Assessment; from junior technical positions assessing salmon escapements from 1994 to 1996, to Senior Technician for the Chinook and Coho Program starting in July 1996. In July of 2001, I accepted the position of Stock Assessment Biologist for the Chinook and Coho Program. This was my substantive position to May 2008.

Starting in August of 2001, I had several acting assignments in the position of Program Head: Chinook & Coho Program for Lower Fraser Area (LFA) Stock Assessment. The most recent Program Head acting assignment lasted approximately 16 months and ended in the spring of 2006.

In October of 2007, I accepted a 6 month acting assignment in Resource Management as a Management Biologist for Chinook, coho and chum salmon for the Lower Fraser Area.

In May of 2008 I returned to Fraser Stock Assessment and accepted an indeterminate position as Program Head: Chum, Pink and Recreational Fisheries Program. I am currently in this position.

2008 – present Program Head/Biologist

Chum, Pink and Recreational Fisheries Program, Fraser Stock Assessment Department of Fisheries and Oceans

In my present position, I am responsible for the conduct of stock assessments of chum and pink salmon and assess various recreational salmon fisheries in the lower Fraser River area. I also provide biological stock assessment advice for the management and conservation of Fraser River chum and pink salmon. Activities related to these functions include:

- reporting results on annual chum, pink and recreational fisheries assessment and research projects (e.g. escapement estimates, recreational fishery catch estimates) both verbally and in the form of written documents and project summaries;
- providing scientific advice (e.g. Outlook: stock status) and stock status information (e.g. Marine Stewardship Council certification) related to chum and pink salmon;
- representing the Program, Area and Region in the reporting of chum & pink stock assessments and recreational fishery assessments to departmental working groups, departmental committees and international committees (e.g. Annual DFO Outlook, Pacific Salmon Commission's Chum Technical Committee: see publications and contributions below);
- contributing to and participating in the preparation of scientific papers and reports in the field of chum and pink salmon stock assessments (e.g. Marine Stewardship Council Certification Unit Profiles; see list of publications and contributions below) and peer reviewing of stock assessment manuscripts and reports;

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- contributing as a scientific authority to the implementation of the Squamish River Salmon Recovery Plan's and Assessment Framework focusing on Chinook salmon; and,

**2007 – 2008 Management Biologist (Acting)
Resource Management, Lower Fraser Area
Department of Fisheries and Oceans**

From the fall of 2007 to the spring of 2008, I acted in the role of Management Biologist for Chinook, coho and chum salmon for Resource Management in the LFA. In this position, I provided biological and harvest management advice for the management and conservation of Fraser River (and area; e.g. Howe Sound) Chinook, coho and chum salmon. Activities related to these functions included:

- working with LFA and Regional Resource Managers to determine fishery impacts on the Fraser Chinook, coho and Chum salmon populations;
- representing the LFA and Region on departmental working groups, departmental committees and international committees related to Chinook, coho and chum salmon (e.g. Chinook Working Group; Pacific Salmon Commission's Chum Technical Committee: see publications and contributions below);
- applying scientific and technical principles, theories and practices to the design, implementation and analysis of biological and assessment programs related to Chinook, coho and chum salmon;
- conducting consultations with representatives from First Nation, recreational and commercial groups regarding biological and stock status information on Chinook, coho and chum salmon;
- working with Treaty and Aboriginal Policy Branch to provide advice on stock assessment issues related to First Nations (FN) Treaties being negotiated in the lower Fraser River area.

**2004 – 2006 Program Head (Acting)/Biologist
Chinook and Coho Program, Fraser Stock Assessment
Department of Fisheries and Oceans**

In this position, I was responsible for the conduct of stock assessments on Chinook and coho salmon in the LFA. I also provided biological advice for the management and conservation of LFA Chinook and coho salmon. Activities related to these functions included:

- reporting results of annual Chinook and coho assessment and research projects in the LFA (e.g. escapement estimates, survival forecasts) both verbally and in the form of written documents and project summaries;
- providing scientific advice (e.g. Outlook: stock status) related to LFA Chinook and coho populations, and recommending strategies related to the management of Chinook and coho salmon resources;
- quantitative analysis of early timed spring-run Chinook salmon assessment data to determine management unit status and impacts to the resource of various harvest management strategies;
- quantitative analysis of the impacts of lower Fraser River fisheries on the exploitation of interior Fraser River coho stocks;
- representing the Program, Area and Region in the reporting of our areas Chinook and coho biological assessments to departmental committees and working groups and international committees (e.g. Cheam Working Team, PST CTC, PST CoTC; see publications and contributions below);

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- providing technical stock assessment advice to the Treaty and Aboriginal Policy Branch related to First Nations (FN) Treaties being negotiated in the lower Fraser River area;
- providing technical stock assessment information to various LFA societies (e.g. Seymour River Salmonid Society, Salmon River Enhancement Society), Fish and Game Clubs (e.g. Semiahmoo Fish and Game Club) and LFA First Nations on their assessments or the status of Chinook and coho in southern BC;
- contributing to and participating in the preparation of scientific papers and reports in the field of chinook and coho salmon stock assessments (e.g. see list of publications and contributions below) and peer reviewing of stock assessment manuscripts and reports (e.g. AFS reports for the Squamish, Lil'Wat, Douglas and Chehalis First Nations' salmon assessments);
- contributing as a scientific authority to the development of the Squamish River Salmon Recovery Plan's Assessment Framework that focused on Chinook salmon;
- contributing to the designing and planning of stock assessment programs for various LFA First Nations to monitor and assess Chinook and coho salmon populations; and,
- working with DFO Fish Management and the Treaty and Aboriginal Policy Branch to provide advice on stock assessment issues related to First Nations (FN) Treaties being negotiated in the lower Fraser River area.

2001 – 2008 Stock Assessment Biologist Chinook and Coho Program, Fraser Stock Assessment Department of Fisheries and Oceans

In this position, I conducted stock assessments on Chinook and coho salmon in the LFA. I also provided biological advice for the management and conservation of LFA Chinook and coho salmon. Activities related to these functions included:

- designing, planning, and directing annual chinook and coho salmon assessment and research projects in the LFA;
- analysing, evaluating and interpreting field data and sampling results;
- providing estimates of smolt abundance, CWT samples, adult escapement by sex and age, CWT escapement; spawner distribution; abundance estimates involved using mark-recapture, AUC, and peak-live estimators;
- analysing recreational fishery data for Inch creek coho to determine freshwater exploitation;
- calculating current year marine survival rates and forecast marine survival for the subsequent year (trend analysis) for Salmon River and Inch Creek Coho;
- documenting results in annual in-house project summaries and periodically published reports and contributions to regional departmental documents (see list below);
- reporting results of annual Chinook and coho assessment and research projects in the LFA (e.g. escapement estimates, survival forecasts) both verbally and in the form of written documents and project summaries;
- providing technical stock assessment information to various LFA societies, Fish and Game Clubs and LFA First Nations on their assessments or the status of Chinook and coho in southern BC;
- participating in the development of new methods and quality control/assurance procedures for the collection and analysis of stock assessment data (e.g. Fraser Terminal Run calculations for PST CTC catch and escapement reports);
- contributing as a scientific authority in the reviewing of a Pacific Salmon Foundation Salmon Recovery Plan for the Squamish River;

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- contributing as a scientific authority to the development of the Squamish River Salmon Recovery Plan's Assessment Framework; and,

**1996 – 2001 Senior Technician
Chinook and Coho Program, Fraser Stock Assessment
Department of Fisheries and Oceans**

Working co-operatively with the Program Head, Program Biologist and subordinate technicians, I was the senior technician responsible for the conduct of field operation projects and post-project data management for Chinook and coho projects in the LFA. Activities related to this function included:

- developing a database to be used for multivariate adult escapement data;
- performing and supervising the electronic input of study data;
- designing, implementing and conducting data verification processes;
- analysing, evaluating and interpreting field data and sampling results; and,
- providing estimates of smolt abundance, CWT samples, adult escapement by sex and age, CWT escapement; spawner distribution; abundance estimates involved using mark-recapture, AUC, and peak-live estimators.

PUBLICATIONS

- Grant, S.C.H., S.M. Kayln, J.E. Mahoney, and **J.A. Tadey**. **2007**. Coho (*Oncorhynchus kisutch*) and chum (*O. keta*) salmon visual enumeration surveys in twenty-six lower Fraser River area streams: 1999-2005. Can. Tech. Rep. Fish. Aquat. Sci. 2727: vi + 154 p.
- Schubert, N.D., J.R. Candy, R. Cook, J. Greenbank, D. Lofthouse, R. McNicol, C.K. Parken, D. Sneddon, **J.A. Tadey** and K. Wilson. **2006**. Status of Birkenhead River Chinook salmon (*Oncorhynchus tshawytscha*). PSARC Working Paper. S2006-2.
- Diewert, R.E., Evers, S., Dickson, R., **Tadey, J.A.** and Galbraith, R.V. **2004**. Capture and transport of juvenile coho (*Oncorhynchus kisutch*) and steelhead (*O. mykiss*) salmon past the Cleveland Dam on the Capilano River in 2001 and 2002 with an Assessment of the upper Capilano River production. Can. Manuscr. Rep. Fish. Aquat. Sci. 2667: viii + 101 p.
- Houtman, R., **J.A. Tadey** and N.D. Schubert. **2000**. Estimation of the 1995 Birkenhead River sockeye salmon (*Oncorhynchus nerka*) escapement. Can. Manuscr. Rep. Fish. Aquat. Sci. 2534: 39 p.
- Farwell, M.K., R.E. Bailey and **J.A. Tadey**. **1999**. Estimation of the 1996 Harrison River Chinook salmon escapement. Can. Manuscr. Rep. Fish. Aquat. Sci. 2478: 30 p.
- Schubert, N.D. and **J.A. Tadey**. **1997**. Estimation of the 1994 Birkenhead River sockeye salmon (*Oncorhynchus nerka*) escapement. Can. Manuscr. Rep. Fish. Aquat. Sci. 2399: 35 p.

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RECENT CONTRIBUTIONS TO COLLABORATIVE DOCUMENTS

- PSC, 2010. Joint Chum Technical Committee Post Season Summary Report, 2008. Pacific Salmon Commission (PSC): TCCHUM (10)-2.
Found at: http://www.psc.org/publications_tech_techcommitteereport.htm#TCCHUM
- DFO, 2010. Post Season Report for 2009 Canadian Treaty Limited Fisheries. Prepared for the Pacific Salmon Commission. Fisheries & Oceans Canada, Pacific Region. Vancouver, B.C.
- PSC, 2010. Joint Chum Technical Committee Post Season Summary Report, 2007. Pacific Salmon Commission (PSC): TCCHUM (10)-1.
Found at: http://www.psc.org/publications_tech_techcommitteereport.htm#TCCHUM
- DFO, 2009. Post Season Report for 2008 Canadian Treaty Limited Fisheries. Prepared for the Pacific Salmon Commission. Fisheries & Oceans Canada, Pacific Region. Vancouver, B.C.
- DFO, 2009. Information Document to Assist Development of a Fraser Chinook Management Plan. Fisheries & Oceans Canada, Pacific Region. Vancouver, BC.
- PSC, 2008. Joint Chum Technical Committee Post Season Summary Report, 2006. Pacific Salmon Commission (PSC): TCCHUM (08)-1.
Found at: http://www.psc.org/publications_tech_techcommitteereport.htm#TCCHUM
- DFO, 2008. Information Document to Assist Development of a Fraser Chinook Management Plan. Fisheries & Oceans Canada, Pacific Region. Vancouver, BC.
- DFO, 2008. Integrated Fisheries Management Plan, Salmon, Southern B.C. June 1, 2008 to May 31, 2009. Fisheries & Oceans Canada, Pacific Region. Vancouver, BC.
- DFO, 2007. 2007 Marine Survival Forecast of Southern British Columbia coho. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. *In press*.
- PSC, 2007. Annual Report on Catch, Escapement, Exploitation Rate Analysis and Model Calibration of Chinook Salmon under Pacific Salmon Commission Jurisdiction, 2006. January 2007. PST TCCHINOOK 07-1.
Found at: http://www.psc.org/publications_tech_techcommitteereport.htm#TCCHINOOK
- DFO, 2006. 2006 Marine Survival Forecast of Southern British Columbia coho. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 2006/037.
Found at: http://www.dfo-mpo.gc.ca/csas/Csas/status/2006/SAR-AS2006_037_E.pdf
- DFO, 2006. Post Season Report for 2006 Canadian Treaty Limit Fisheries. Prepared for the Pacific Salmon Commission. Fisheries and Oceans Canada, Pacific Region. Vancouver, B.C.
- DFO, 2006. Southern BC Post Season Salmon Review. Report prepared by Fisheries and Oceans Canada.
- DFO, 2005. Simple Decision Guidelines for Managing Early Fraser Chinook Fisheries. Report prepared by SOLV Consulting Ltd. for Fisheries and Oceans Canada. Discussion document.

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Significant Committee Memberships

- 2008 May to present *Pacific Salmon Commission's Chum Technical Committee*: a bilateral committee comprised of Canadian and American members charged with implementing the Coho Annex of the Pacific Salmon Treaty between the governments of Canada and the government of the United States of America.
- 2005 Feb to 2006 Apr *Early Fraser Chinook Working Group*: Was the only LFA stock assessment representative on this working group. The group's goal was to develop simple decision rules to manage early timed Fraser River Chinook salmon. This was achieved by applying a consistent and transparent description of information to be considered, determining status from this information using pre-defined benchmarks, and linking in-river harvest opportunities to status.
- 2004 Jan to 2005 Jul *Cheam Working Team*: There has been a history of conflict between the DFO and the Cheam First Nation. In response to the need to build a strong working relationship with the Cheam community, DFO formed a multi-program team that would be tasked on a priority basis to work with the Cheam First Nation community on a number of fisheries related activities.
- 2001 Dec to 2008 Apr *Pacific Salmon Commission's Coho Technical Committee*: a bilateral committee comprised of Canadian and American members charged with implementing the Coho Chapter of Annex IV of the Pacific Salmon Treaty between the governments of Canada and the government of the United States of America. Specific workgroups I was assigned to were:
- determining management unit (MU)-specific reference points and associated exploitation rate constraints;
 - MU descriptions;
 - Procedures/rules to determine MU status