



2015 Fish Consumption Research Literature Review

- Identified by DEC as a first step in the HHC process
 - Goal: Identify existing data, identify data gaps, and identify potential research needs
- Contracted with The Cadmus Group, Inc. in 2014



Research Methods

- Conducted telephone interviews with subject matter experts
- Performed literature review (31+ different papers)
- Criteria for Inclusion
 - Specific to Alaska
 - Fish or seafood from Alaskan waters (i.e., not tuna or canned sardines)
 - Data sourced for consumption-not commercial sale
 - Included data on collection method & QA/QC (when available)
 - All acceptable data should be less than 20 years old.

Available Dietary Surveys

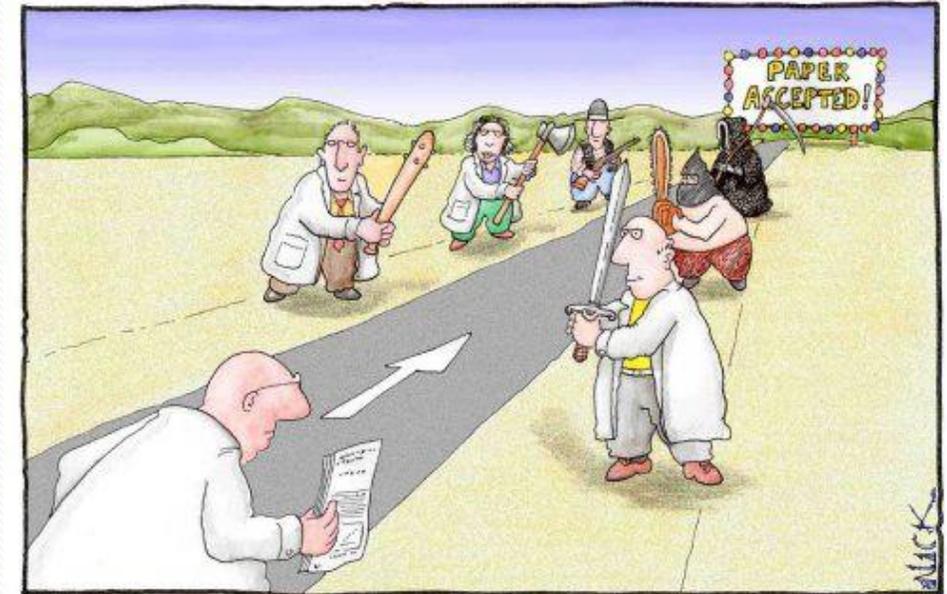
- Four Alaska dietary surveys with reported FCR were identified
 - Two surveys conducted in Cook Inlet Region
 - One in Aleutian Region
 - One with statewide sample population
- Four surveys that may have collected applicable data but did not report FCR in the study

Alaska Dietary Surveys

Author	Study Year	Location	FCR/Other Findings
Nobmann et al.	1992	Throughout AK	109 g/day
U.S. DOE	1998-1999	Atka, St. Paul, Nikolski, Unalaska	100 g/day (composite)
ANHB & ANEC	2002	Throughout AK	Max and median per person consumption in pounds per year
ATSDR	2003	Port Graham, AK	142-256 g/day
Johnson et al.	2002-2004	Yukon-Kuskokwim and Maniilaq Regions	Fish as % of total calories consumed
Loring, Gerlach & Harrison	2011-2012	Kenai Peninsula	% of population that harvests & consumes fish
AK DHSS	2012	Nome	No data reported
Seldovia Village Tribe	2012	Seldovia, Port Graham, Nanwalek and Tyonek	94.8 (+/- 23.5) g/day

HHC Literature Review: Peer Review

- DEC solicited four experts to conduct a peer review
 - Lon Kissinger, U.S. Environmental Protection Agency
 - Elizabeth Nobmann, Ph.D. EDN Nutrition Consulting
 - Angela Matz, Ph.D. U.S. Fish and Wildlife Service
 - Philip Loring, Ph.D. University of Saskatchewan (UAF affiliate faculty)



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

- Panel provided:
 - Comments on report (e.g., representativeness of findings, seasonal differences)
 - Four additional sources to consider

Key Points from Peer Review

- A need to consider ADF&G Harvest data as logistical and fiscal challenges exist
- Consider inclusion of marine fish, marine mammals, and seaweeds
- Consider federal data sources
- Numerous issues with representativeness in the reviewed documents
- A need to consider sampling of certain high fish consuming populations

Literature Review-what next?

- Incorporate comments from the HHC Technical Workgroup on the utility of the Lit. Review.
- Incorporate feedback from general public
- Engage with ADF&G to identify additional sources of information
- Review new sources of data as they become available- Several tribes have indicated an interest in collecting consumption data.

Questions?

