



Pre-Permitting Environmental / Socio-Economic Data Report Series

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# Report Series J- Marine Nearshore Fish and Benthic Invertebrates

## Report J-9 Dietary Composition of Selected Fish Species Figures 2004-2007

*Submitted to the Alaska Department of Natural Resources August 2009*

*Preliminary data. Do not cite or quote.*

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

Collected for the Pebble Partnership by:



Pentec Environmental  
120 Third Ave. South,  
Suite 110  
Edmonds, Washington 98020



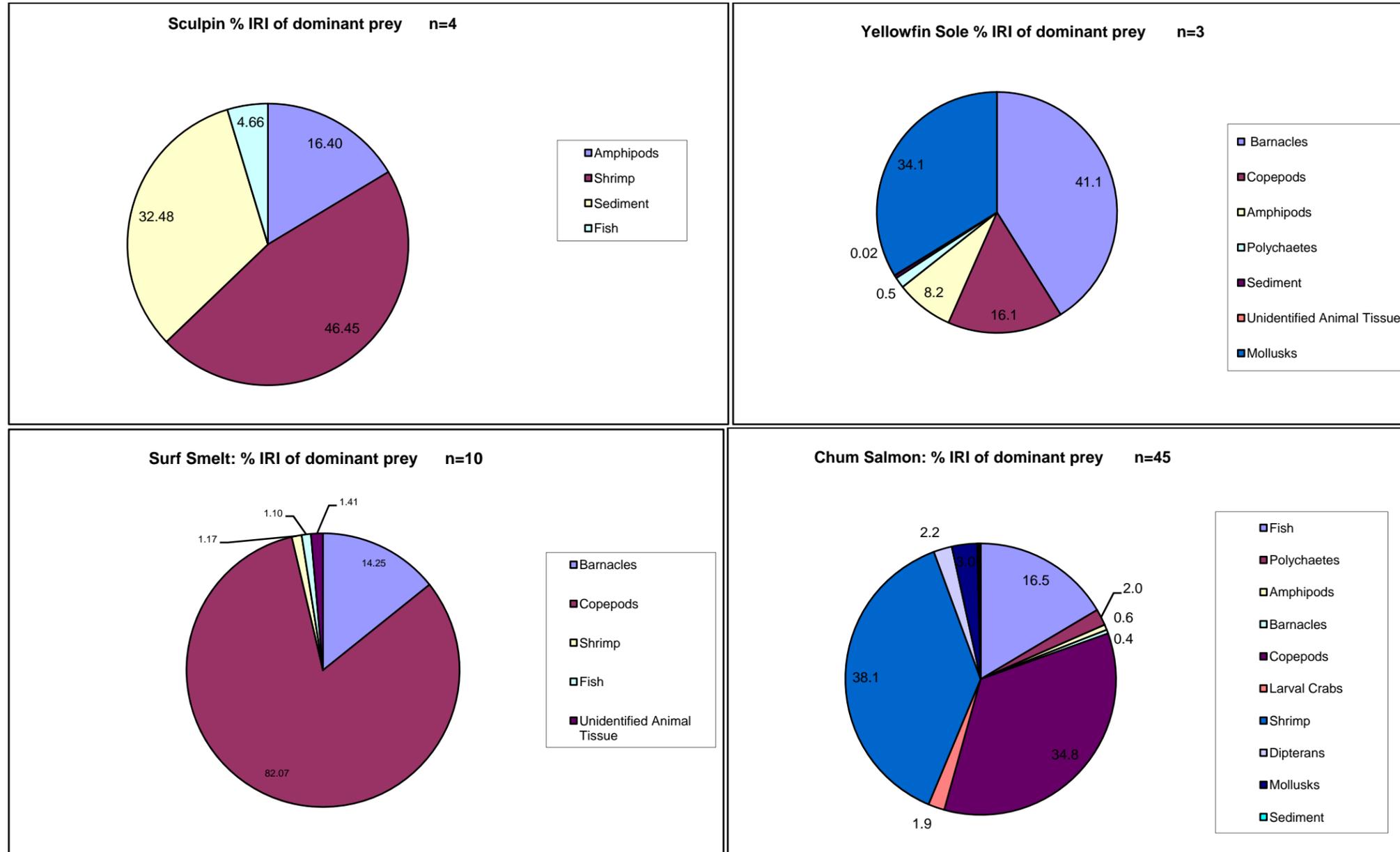
Bristol Environmental &  
Engineering Services  
Corporation  
111 W. 16th Ave., Third Floor  
Anchorage, Alaska 99502



University of Alaska –  
Fairbanks  
P.O. Box 757500  
Fairbanks, Alaska 99775

RWJ Consulting  
22415 Norton Court  
Chugiak, Alaska 99567

Report J-9 Figure 1  
 Dietary Composition of Selected Fish Species Collected in Iniskin/Iliamna Bays, 2005



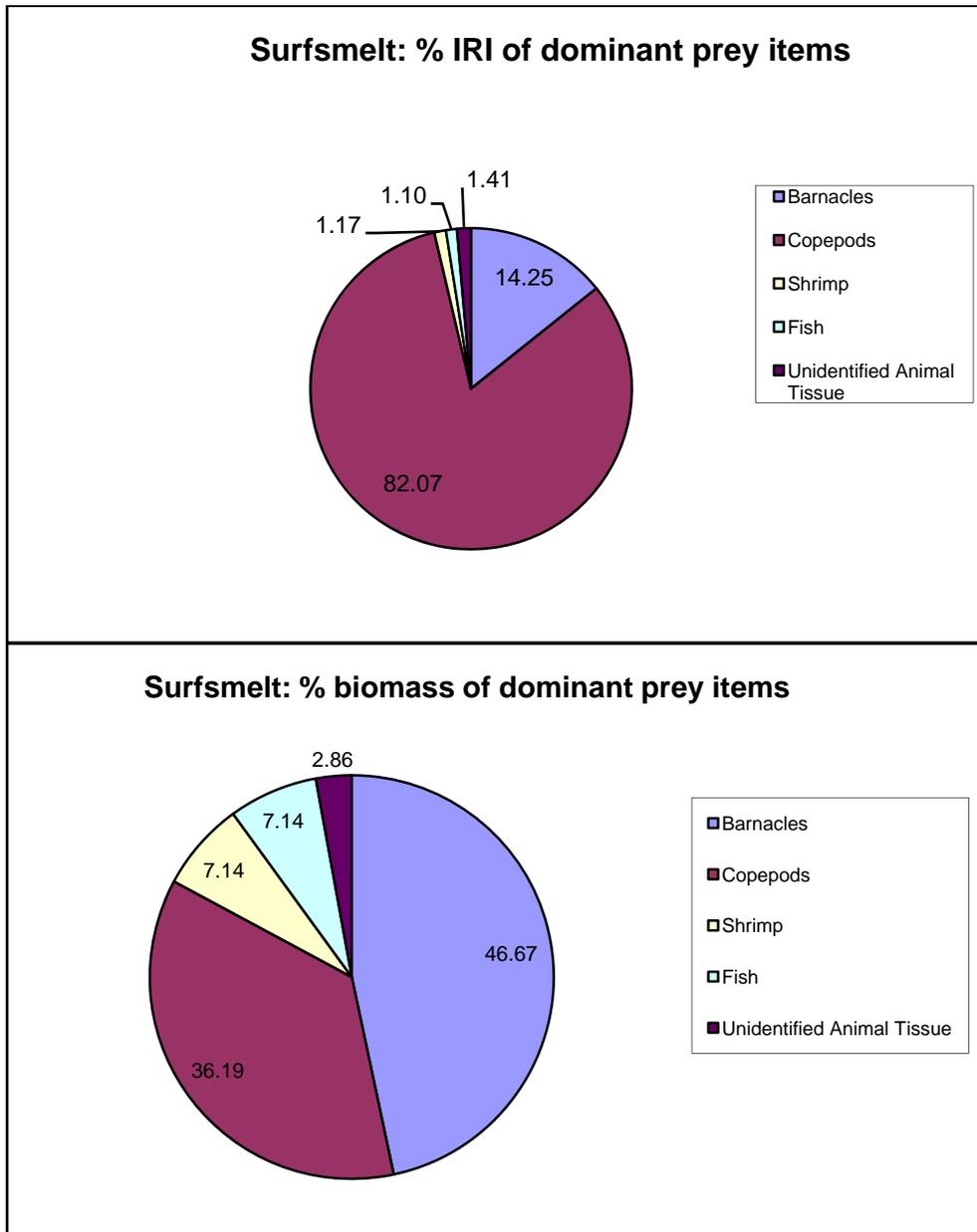
The Index of Relative Importance (IRI) of prey items in the diet of the fish species sampled was calculated according to Cailliet (1976) using the equation:

$$IRI = (\%N + \%W) / \%FO$$

where N is proportion of a particular prey item relative to the total number of prey items; W is the percent biomass that each prey item comprised; and FO, the Frequency of Occurrence, was the proportion of stomachs in which the taxon was identified.

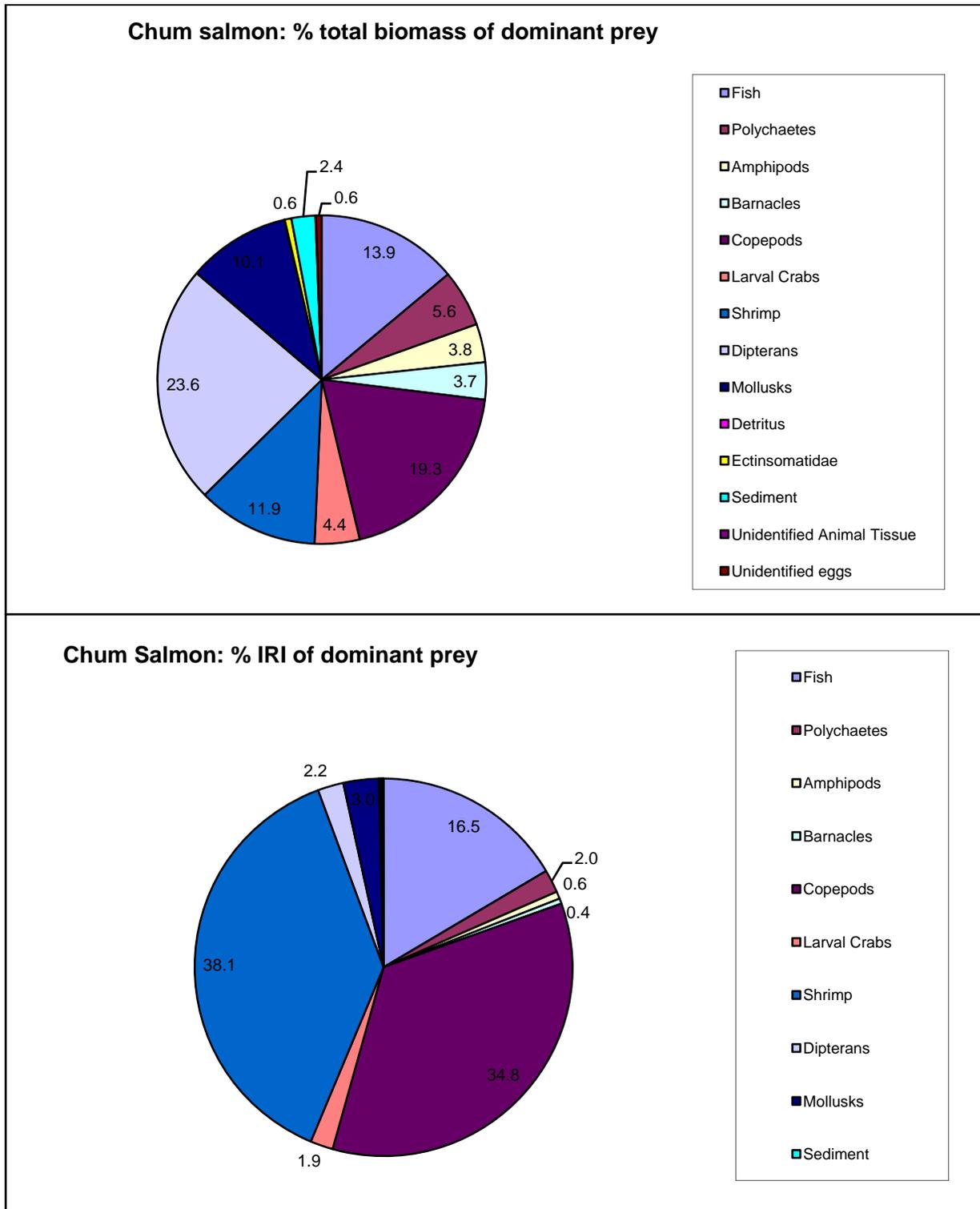
Report J-9 Figure 2

Dietary Composition of Surfsmelt Collected in Iniskin/Iliamna Bays, 2005



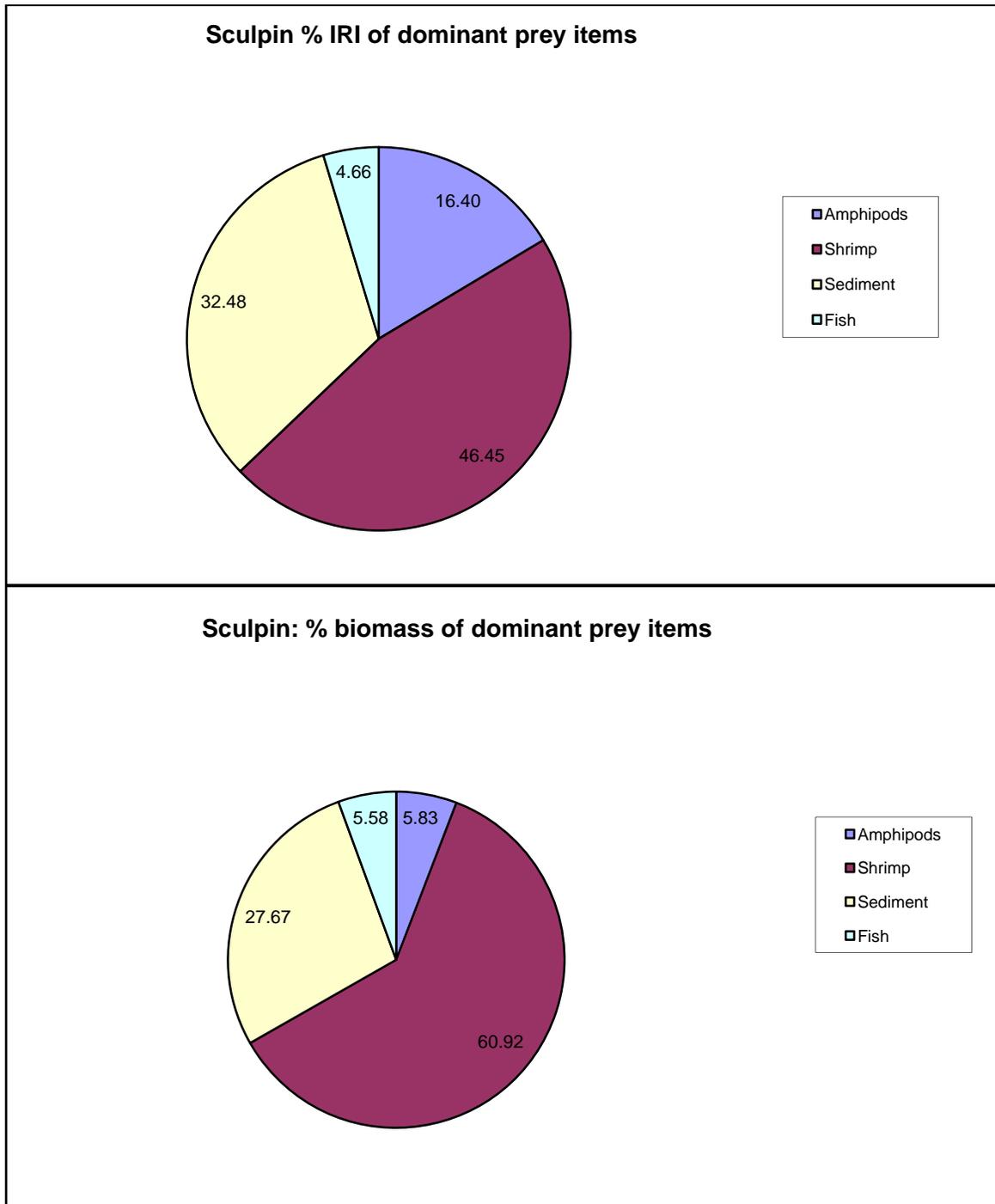
Report J-9 Figure 3

Dietary Composition of Chum Salmon Collected in Iniskin/Iliamna Bays, 2005



Report J-9 Figure 4

Dietary Composition of Sculpin Collected in Iniskin/Illiamna Bays, 2005



Report J-9 Figure 5

Dietary Composition of Flatfish Collected in Iniskin/Iliamna Bays, 2005

