Hood Canal
Killer Whales

Killer Whale
Ecotypes

Mammal-Eaters
(Transients)

Fish-Eaters
(Residents)

Offshores
Fish-Eaters
(Residents)

Salmon, Herring
Matrilineal Family Groups
Social, Vocal
Somewhat Predictable
San Juan (So. Residents)
Transportation
Lack of awarness
Early 2000s

Mammal-Eaters
(Transients)

Seals, Sea Lions, Whales,
Dolphins
Small Groups (2-5)
Widely Distributed
Less Vocal, Silent Hunters
Transportation
Lack of awarness
Early 2000s

Large Fish (Tuna, Sharks)?
Large Groups
Mostly Offshore, Ocean
Little Known, Rarely Seen
Transportation
Lack of awarness
Early 2000s

Offshores

2002-2017
Bio-Energetics - Predict Seal Consumption

How Many Calories
Does a Whale Eat per Day?

How Many Calories is
a Harbor Seal Worth?

Reaction of Seal Population

Would there be any Harbor Seals Left??
How Many Harbor Seals Did Whales Eat in 2003?

Reasons:
- Bio-Energetic Model Wrong
- Population Estimate is Low
- Large Immigration of Seals to Canal
- Survival of Seals
Fool Us Once, Shame on Them,
Fool Us Twice, Shame on Us
How Many Harbor Seals Did Whales Eat in 2005? ~950

~220

Weekly Breach Counts at Penola 1200-2006

June 2005

Feb-Mar 2006

Source: C. Carbon and M. Halm

Dick Swan