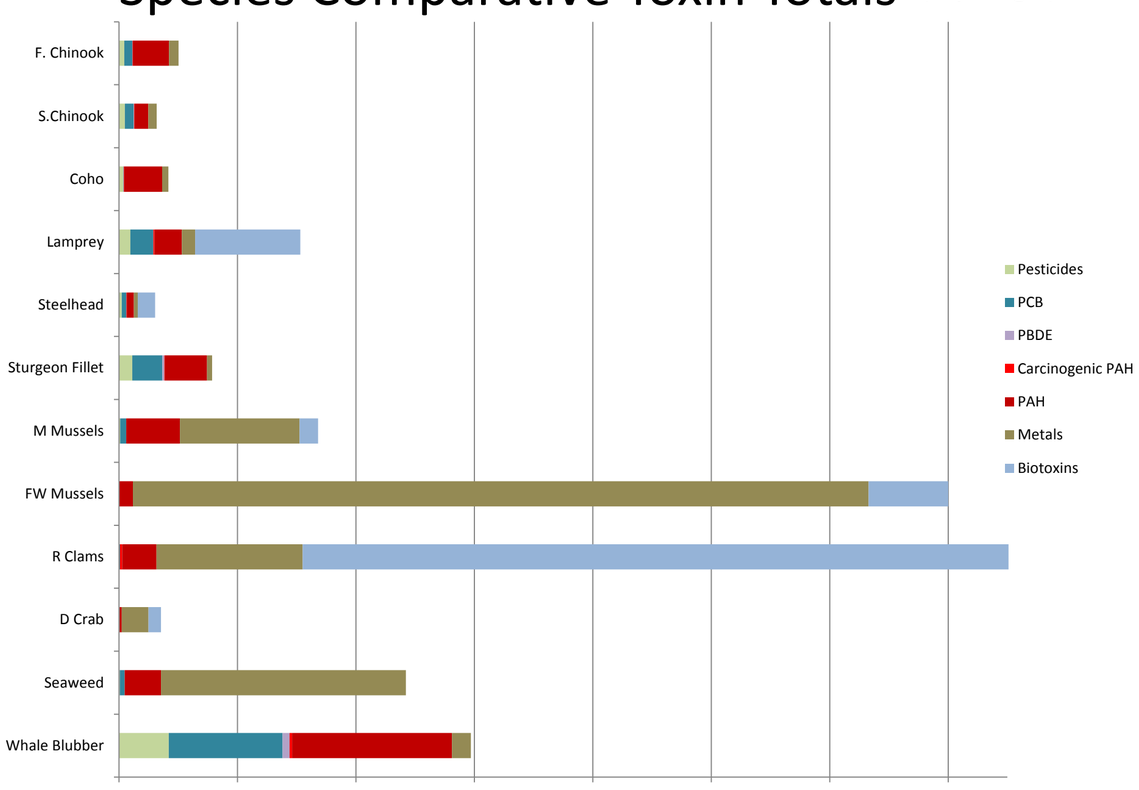
This research is funded by
U.S. EPA - Science To Achieve Results (STAR) Program
Grant # RD-83370801-0

YTEP STAR Grant : Tier 1 Preliminary Results and Analysis- July 2012

Species Comparative Toxin Totals (Dry Weight)



Regulatory Threshold Limits- Wet Weight Reporting

(Where different agencies have established criteria, the numbers listed below are the most protective levels.)

Biotoxins- 800 ppb for Shellfish Poison in clams, mussels and oysters (Nat'l Shellfish Sanitation Program Manual of Operations); 21000 ppb for Domoic Acid in fish and shellfish; 24 ppb microcystins in fish; 32 in prawns; 51 in mussels or molluscs (Australia Health Guideline Value)

Metals- 1000 ppm for aluminum; 86 for arsenic; 4 for chromium; 1 for mercury; 80 for nickel; and 2 for lead in tissue (US Food and Drug Administration)

PAH- 2 ppb in fish; 5 in crustaceans and cephalopods; and ppb in bivalves (European Union Limits)

PBDE- no current guidelines

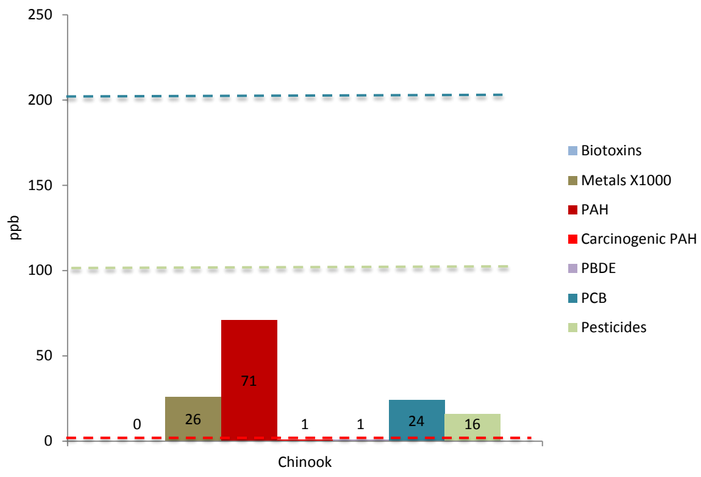
PCB- 200 ppb (US Food and Drug Administration)

Pesticides- 100 ppb for chlordanes; 100 for dieldrin; 5000 for DDTs (US Food and Drug Administration)

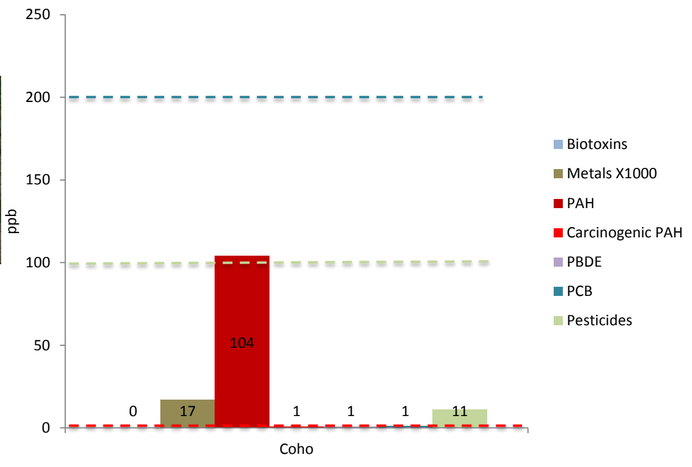
Pesticides data are sums of organochlorine and pyrethriod detections.

*The color of the bars corresponds to toxins and also to the dotted threshold line of the same color.

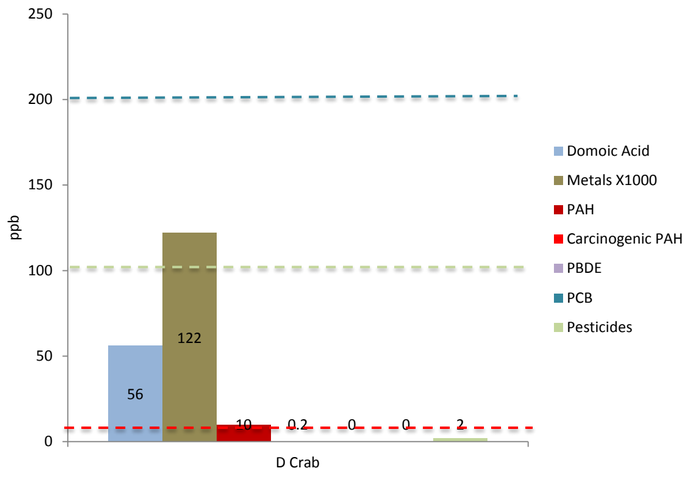
CHINOOK



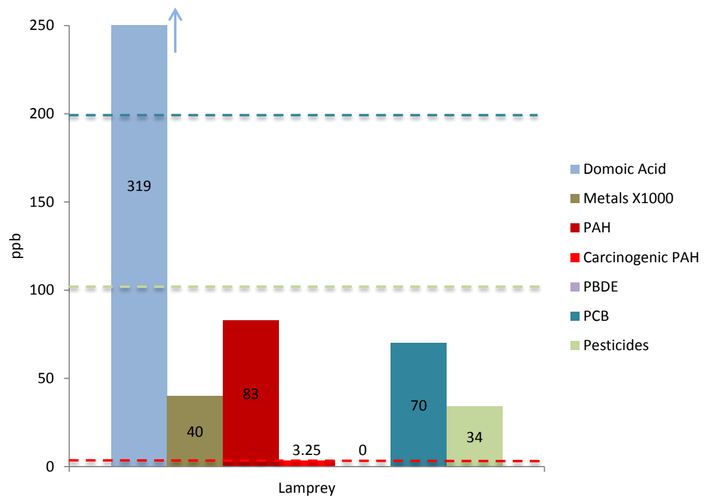
COHO



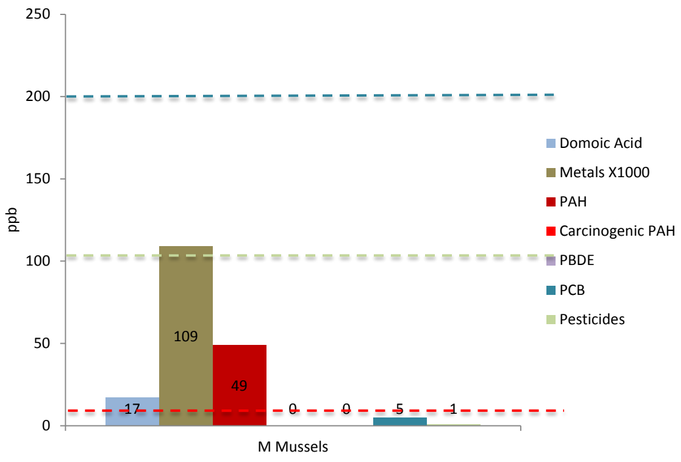
DUNGENESS CRAB



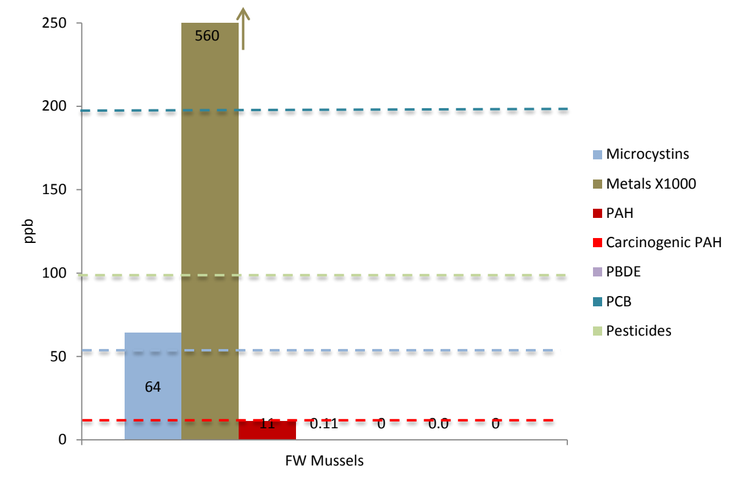
LAMPREY



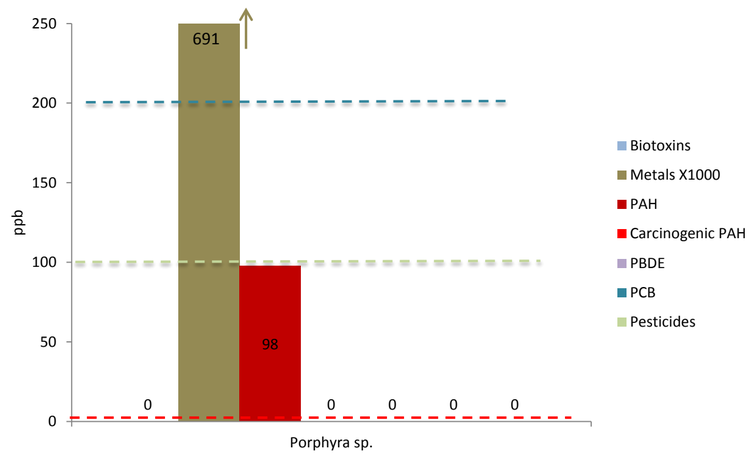
MARINE MUSSELS



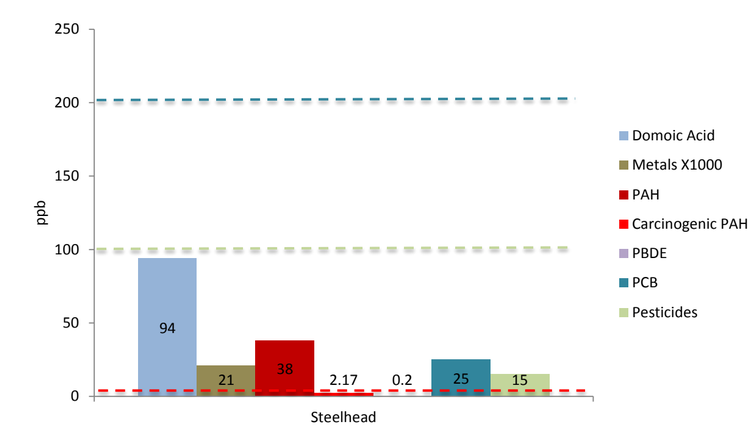
RIVER MUSSELS



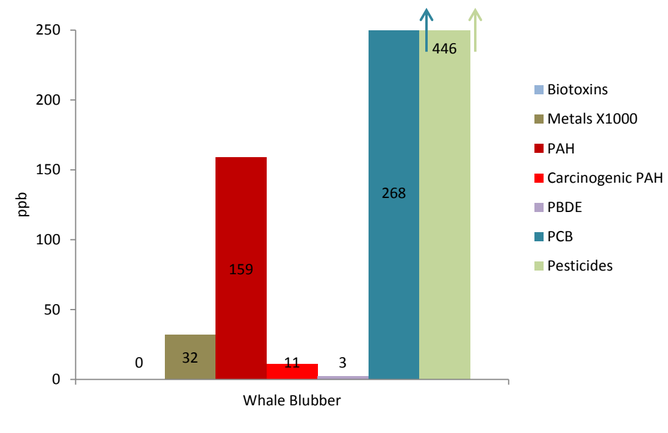
SEAWEED *Porphyra sp.*



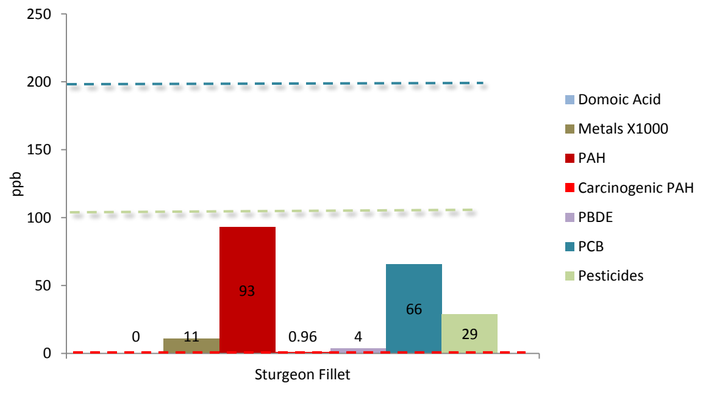
STEELHEAD



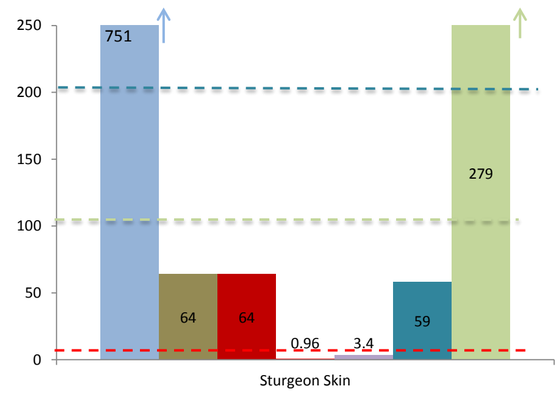
GREY WHALE BLUBBER



STURGEON FILLETS



STURGEON SKINS



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