

Important Forage Species for the Chesapeake Bay

Representative Predators

Five predator species were selected by the Steering Committee of the 2014 Forage Workshop to serve as representative indicator species for the range of predators and lifestyle types in the Chesapeake Bay. The selected species included:



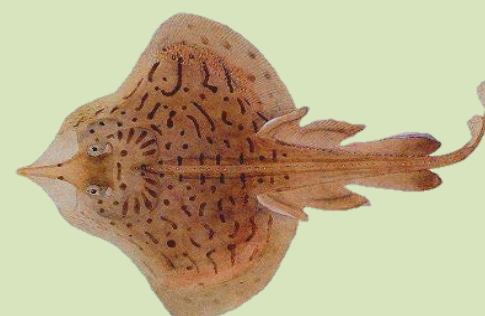
Striped Bass
anadromous, piscivore



Summer Flounder
mesohaline-polyhaline, piscivore



Atlantic Croaker
oligohaline-polyhaline, omnivore



Clearnose Skate
polyhaline, omnivore



White Perch
oligohaline, omnivore

To identify important forage in the Chesapeake Bay ecosystem, an analysis of a long term, fishery-independent survey ([ChesMMAP](#)) was conducted to quantify the gut contents of five representative predator species.

Forage species were considered important if the forage taxon or group composed at least 5% by wet weight of a predator's diet in at least one of the five ChesMMAP seasonal sampling cruises taken during any year of the study (on right).

Forage species are critical to sustaining production of economically and ecologically valuable fish species in the Chesapeake Bay.

Key Forage*



Bay Anchovy



Polychaetes



Mysids



Amphipods and isopods



Weakfish (juveniles)



Spot (juveniles)



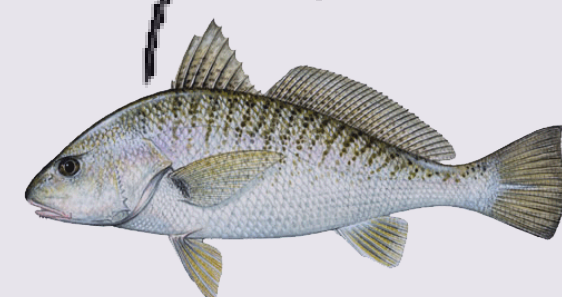
Mantis shrimp



Razor clams



Sand shrimp



Atlantic croaker (juveniles)



Macoma clams

* Based on wet weight of prey in stomach analysis of 5 representative predators in the Chesapeake Bay (ChesMAPP)

Additional Important Forage

Managed
forage
species



Atlantic menhaden



Blue crab

Historically
important



Shad & river herrings

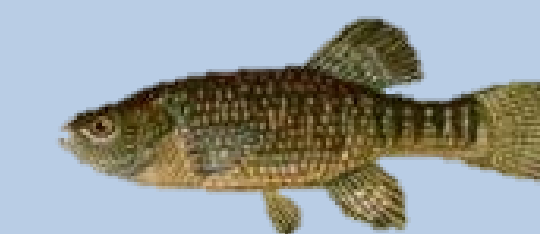
Forage of
Upriver
Predators



Small bivalves



Atlantic Silverside



Mummichog

Additional species were added to the list of important forage by the participants of the Forage Workshop to include forage of under-represented freshwater predators, historically important forage, and managed forage (additional important forage above).

For more details on this analysis, please view the Scientific and Technical Advisory Committee's [2014 Forage Workshop Report](#).

Above data is based on the 2014 Scientific and Technical Advisory Committee Forage Workshop