

(A)

SEAFOOD MASS ESTIMATE

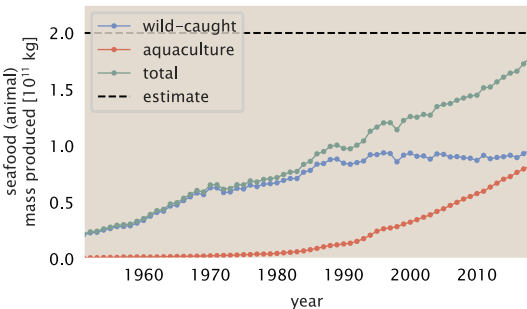


$$\text{seafood mass, } m_{\text{seafood}}^{(\text{diet})} \approx \frac{f \times 10^{-1} \text{ kg}}{\text{person} \times \text{week}} \times \frac{52 \text{ weeks}}{1 \text{ year}}$$

$$\approx f \times 10 \text{ kg} / (\text{person} \times \text{year})$$

$$\text{global seafood mass, } m_{\text{seafood}} \approx \frac{f \times 10 \text{ kg}}{\text{person} \times \text{year}} \times 8 \times 10^9 \text{ people}$$

$$\approx f \times 10^{11} \text{ kg} / \text{year}$$



(B)

AQUACULTURE STOCK POPULATION

cultured carp



$$m_{\text{carp}} \approx f \text{ kg}$$

$$t_{\text{carp}} \approx 0.8 \text{ year}$$

cultured oysters & clams



$$m_{\text{shelled}} \approx f \times 10^{-2} \text{ kg}$$

$$t_{\text{shelled}} \approx f \text{ years}$$

cultured shrimp



$$m_{\text{shrimp}} \approx f \times 10^{-2} \text{ kg}$$

$$t_{\text{shrimp}} \approx 0.5 \text{ years}$$

