

(A)

POULTRY & EGG MASS ESTIMATE



$$\text{egg mass, } m_{\text{egg}}^{(\text{diet})} \approx \frac{f \text{ eggs}}{\text{person} \times \text{week}} \times \frac{f \times 10^{-2} \text{ kg}}{1 \text{ egg}} \times \frac{52 \text{ weeks}}{1 \text{ year}}$$

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



$$\text{poultry mass, } m_{\text{poultry}}^{(\text{diet})} \approx \frac{0.5 \text{ kg}}{\text{person} \times \text{week}} \times \frac{52 \text{ weeks}}{1 \text{ year}}$$

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

$$\text{global chicken product mass, } m_{\text{egg+poultry}} \approx N_{\text{pop}} \times (m_{\text{egg}}^{(\text{diet})} + m_{\text{poultry}}^{(\text{diet})})$$

$$\approx 8 \times 10^9 \text{ people} \times \frac{f \times 10 \text{ kg}}{\text{person} \times \text{year}}$$

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

(B)

● poultry
 ● eggs
 ● total
 - - estimate

data source: Food and Agricultural Organization (FAO) of the UN

