(A)

POULTRY & EGG MASS ESTIMATE

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

$\approx$ f kg / (person $\times$ year)

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

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

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

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

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

(B)