

Answer on Question #48276, Physics, Others Most carbonated soft drinks contain about 2.3 grams of CO₂ per (16oz) bottle. How much CO₂ is released into the atmosphere per year if every person in the United states consumed on soft drink per day?

Solution

Let us assume that there are 310 million people in USA. They drink

$$310 \cdot 10^6 \cdot 365 = 113.15 \cdot 10^9$$

bottles per year. Mass of CO₂ released is

$$113.15 \cdot 10^9 \cdot 2.3 \cdot 10^{-3} \approx 260.2 \cdot 10^6 \text{ kg}$$