

Chapter 11—Intake of Meats, Dairy Products, and Fats

When using these residue levels, the assessor should ensure consistency in the exposure assessment calculations by using consumption rates that are based on the amount of lipids consumed for the meat or dairy product of interest.

If necessary, wet-weight (e.g., as-consumed) intake rates may be converted to lipid-weight intake rates using the fat content percentages presented in Table 11-38 and the following equation:

$$IR_{lw} = IR_{ww} \left[\frac{L}{100} \right] \quad (\text{Eqn. 11-3})$$

where:

IR_{lw} = lipid-weight intake rate,
 IR_{ww} = wet-weight intake rate, and
 L = percent lipid (fat) content.

Alternately, wet-weight residue levels in meat and dairy products may be estimated by multiplying the levels based on fat by the fraction of fat per product as follows:

$$C_{ww} = C_{lw} \left[\frac{L}{100} \right] \quad (\text{Eqn. 11-4})$$

where:

C_{ww} = wet-weight concentration,
 C_{lw} = lipid-weight concentration, and
 L = percent lipid (fat) content.

The resulting residue levels may then be used in conjunction with wet-weight (e.g., as-consumed) consumption rates. Table 11-38 presents the total fat content data for selected meat and dairy products taken from USDA (2007).

11.7. REFERENCES FOR CHAPTER 11

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Chapter 11—Intake of Meats, Dairy Products, and Fats

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