

## Data Set: Girls' Body Fat Pre- and Post-Menarche

*Data File:* Phillips.txt

*Source:*

This data set was analyzed by Laird and Fitzmaurice in “Longitudinal Data Modeling,” in Scott, Simonoff, and Marx, eds., *The SAGE Handbook of Multilevel Modeling* (Sage, 2013), and originated from Phillips et al., “A longitudinal comparison of body composition by total body water and bioelectrical impedance in adolescent girls,” *Journal of Nutrition*, 2003, 133: 1419-1425.

*Variables:*

subject: subject ID number, 1-162.

age: age (in years) at the time of measurement; the girls were measured at different ages, and although the measurements were approximately taken annually, the ages are not generally whole numbers.

menarche: age at menarch (constant within subjects).

age.adjusted: age - age at menarch.

body.fat: percentage body fat at the time of measurement.