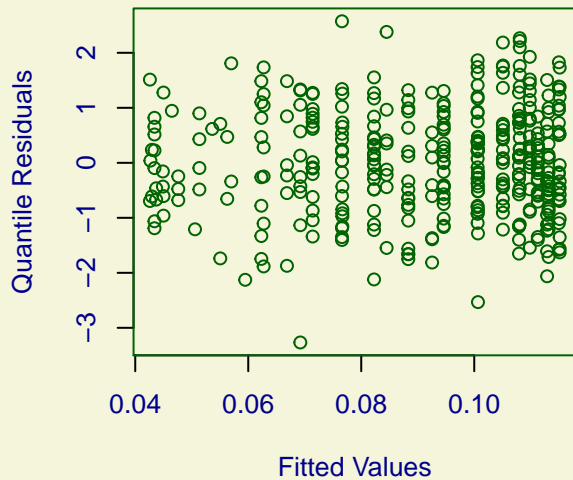Diagnostic plot for Beta−Binomial model fit of
red_meat in zambia_wom   women age 18 − 67
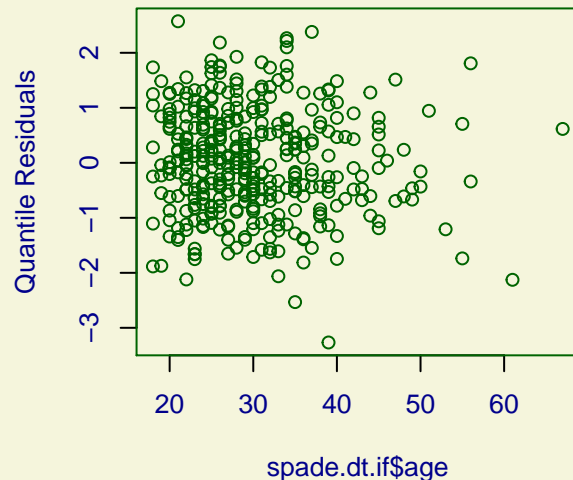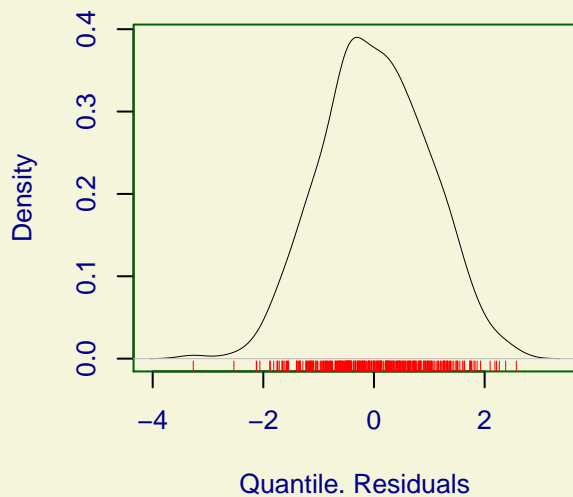
Original data for red_meat in zambia_wom
women ; age 18–67
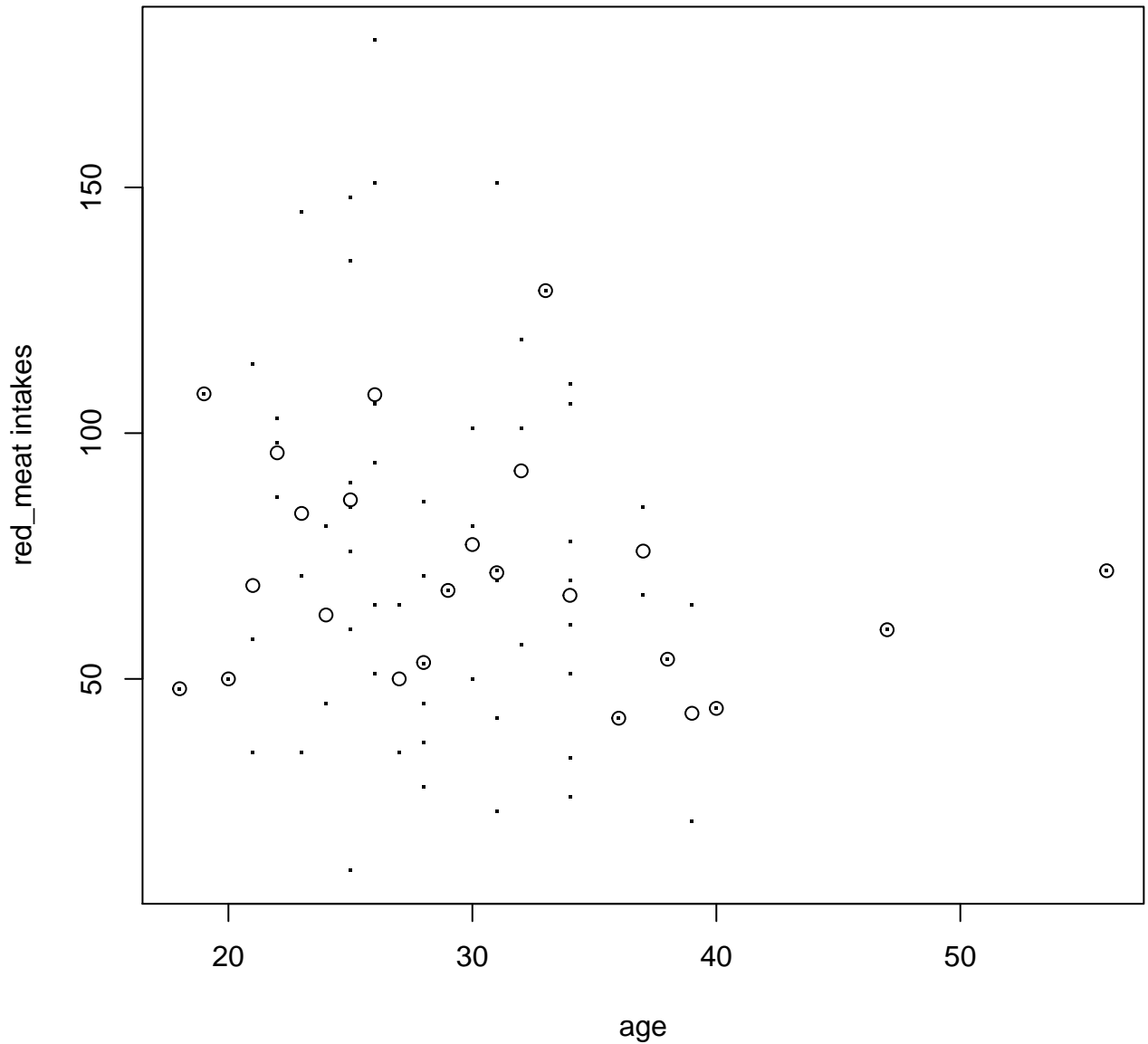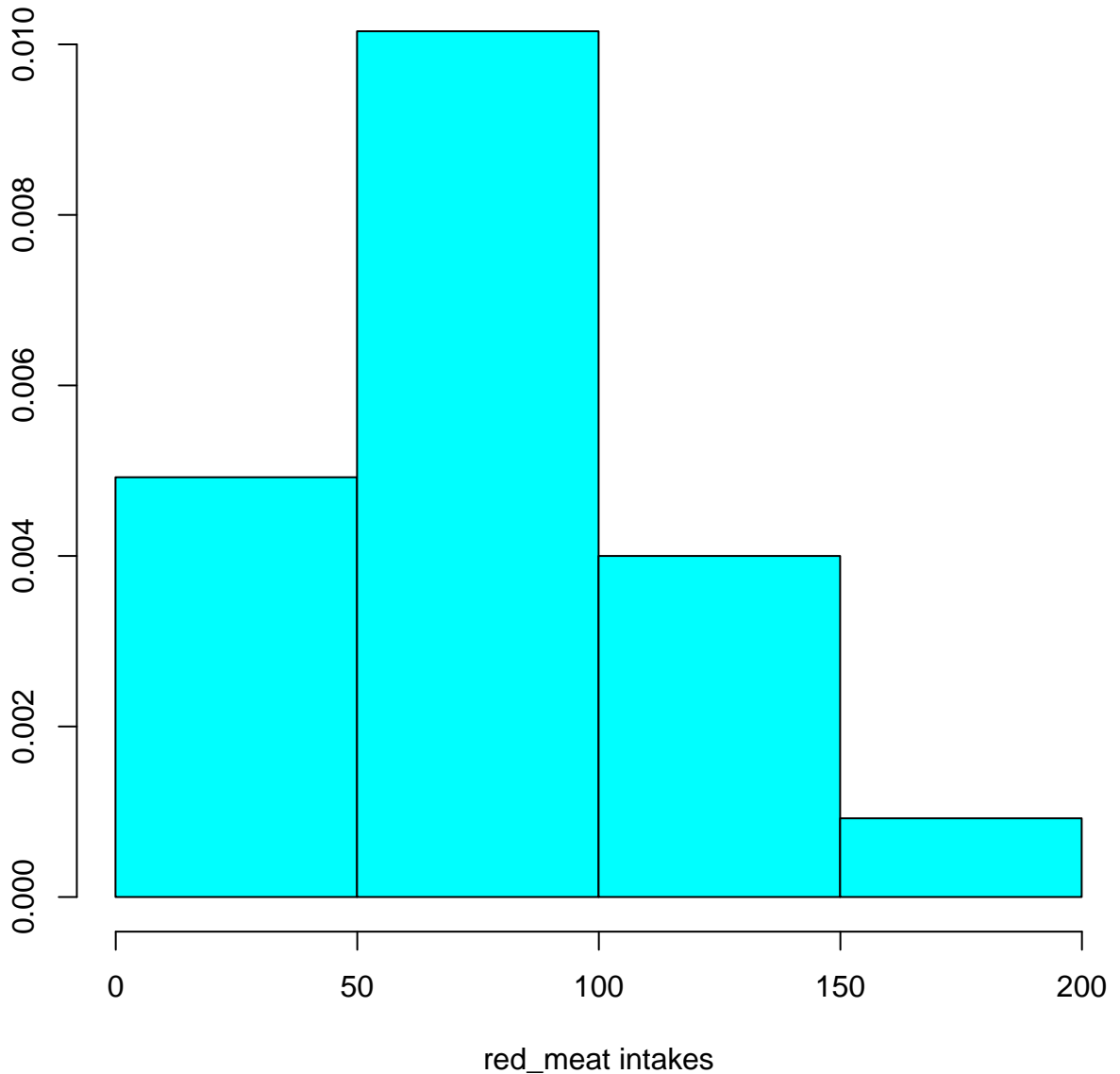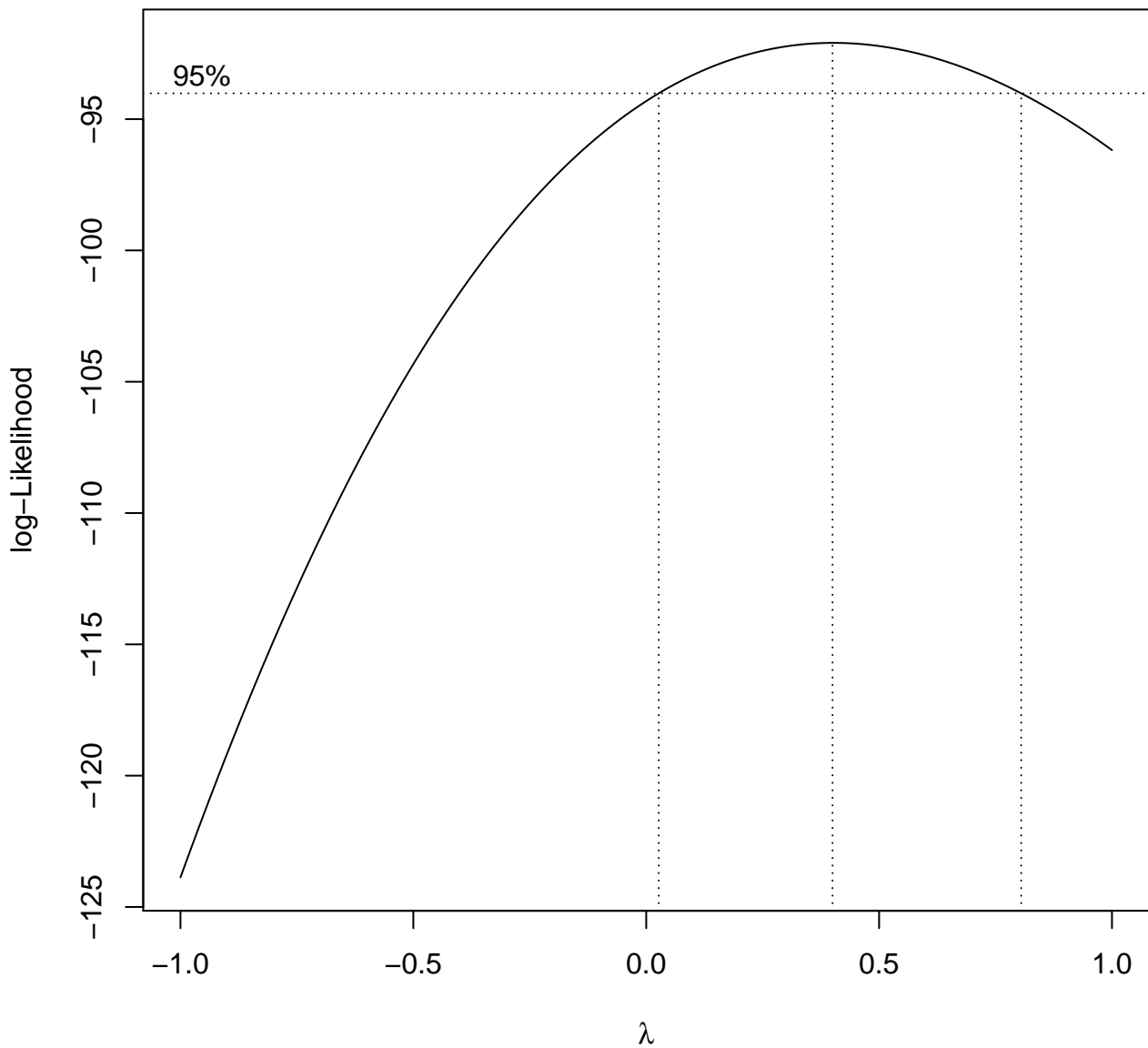
Original data for red_meat in zambia_wom women ; age 18−67
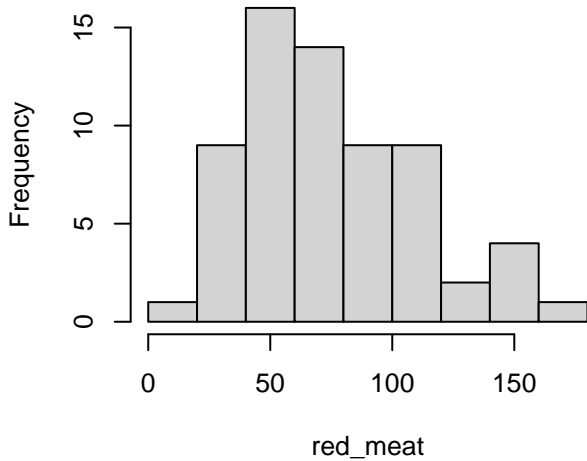
red_meat intakes

Box–Cox plot for original data for red_meat in zambia_wom
women ; age 18–67
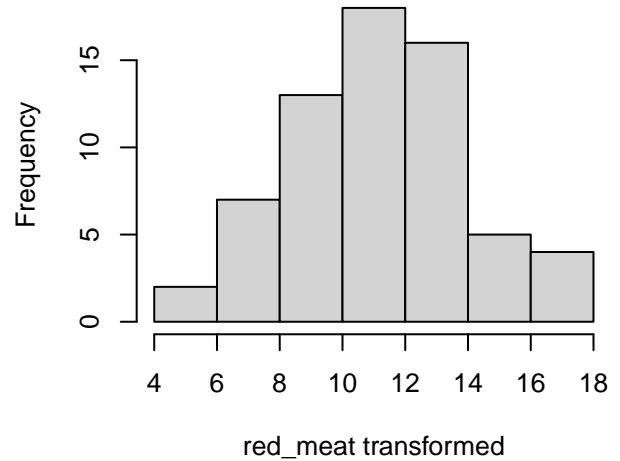**lambda = 0.402 (0.03,0.8)**

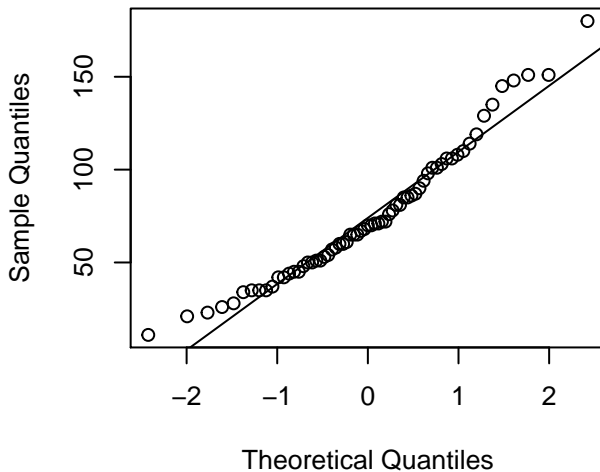Diagnostic plots for red_meat in zambia_wom
women ; age 18−67
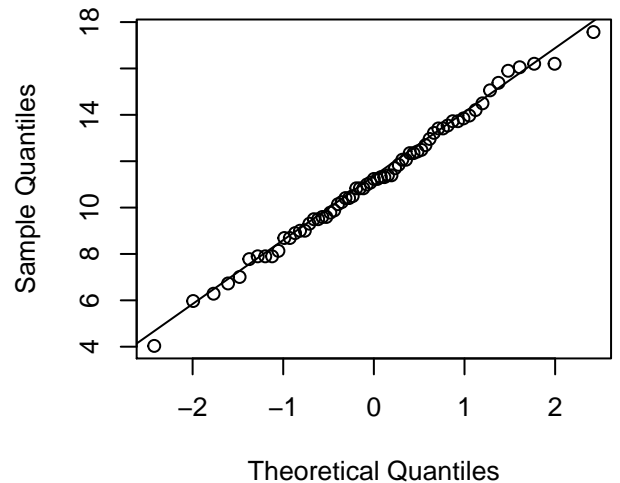
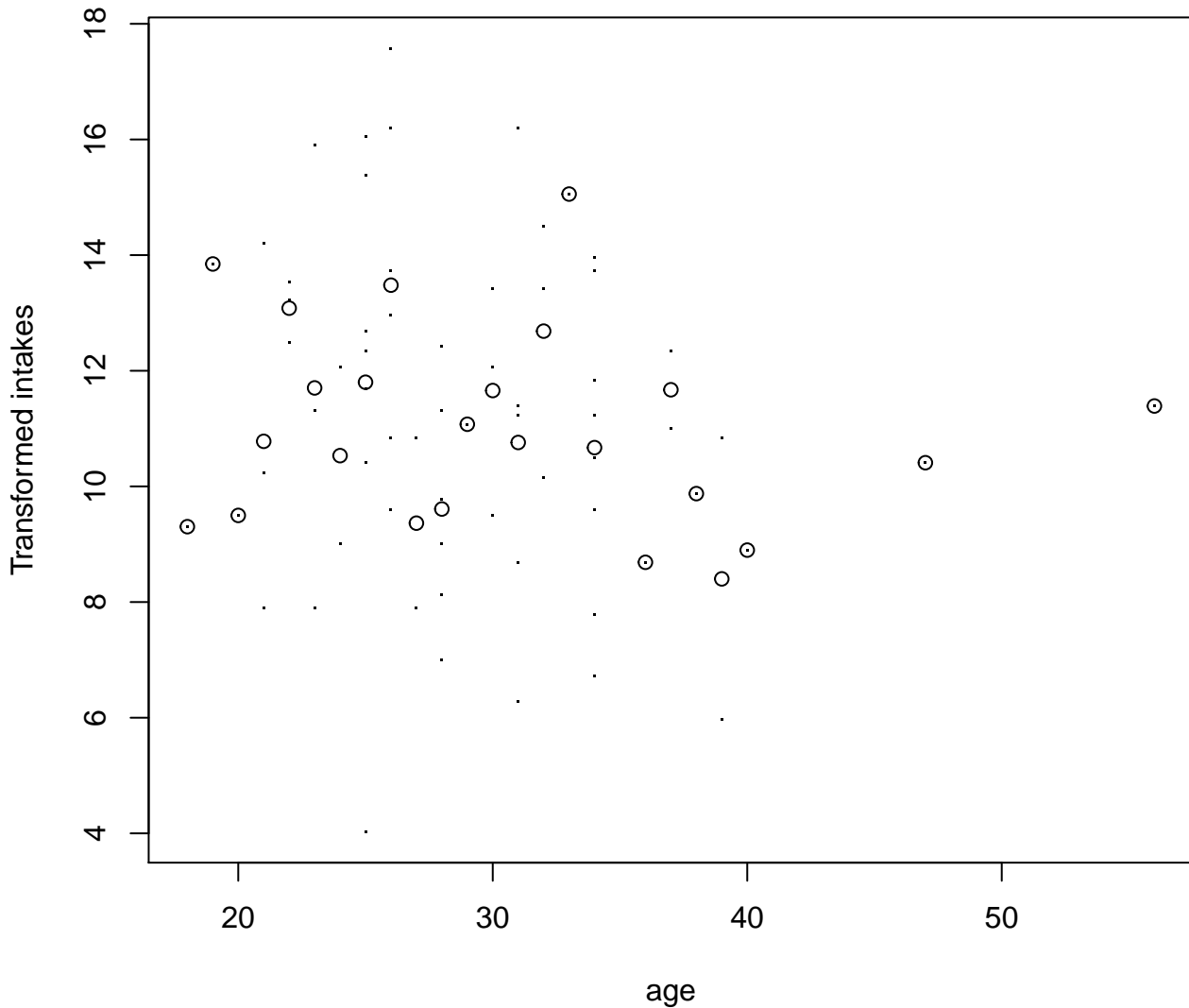**Intakes before Box−Cox trans.**

Intakes after Box−Cox trans.

Normal Q−Q plot
Original intakes

BoxCox transformed intakes
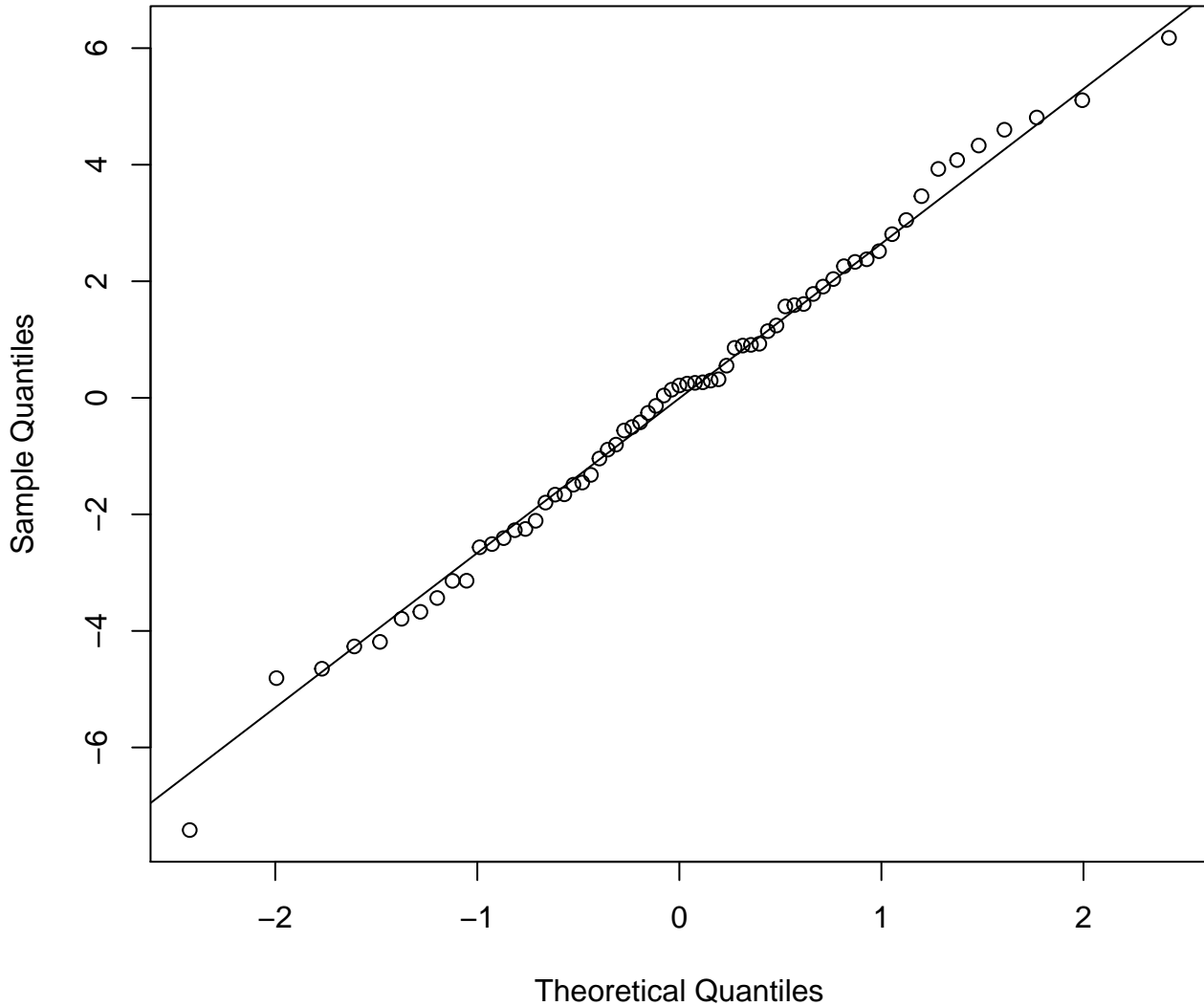lambda = 0.402
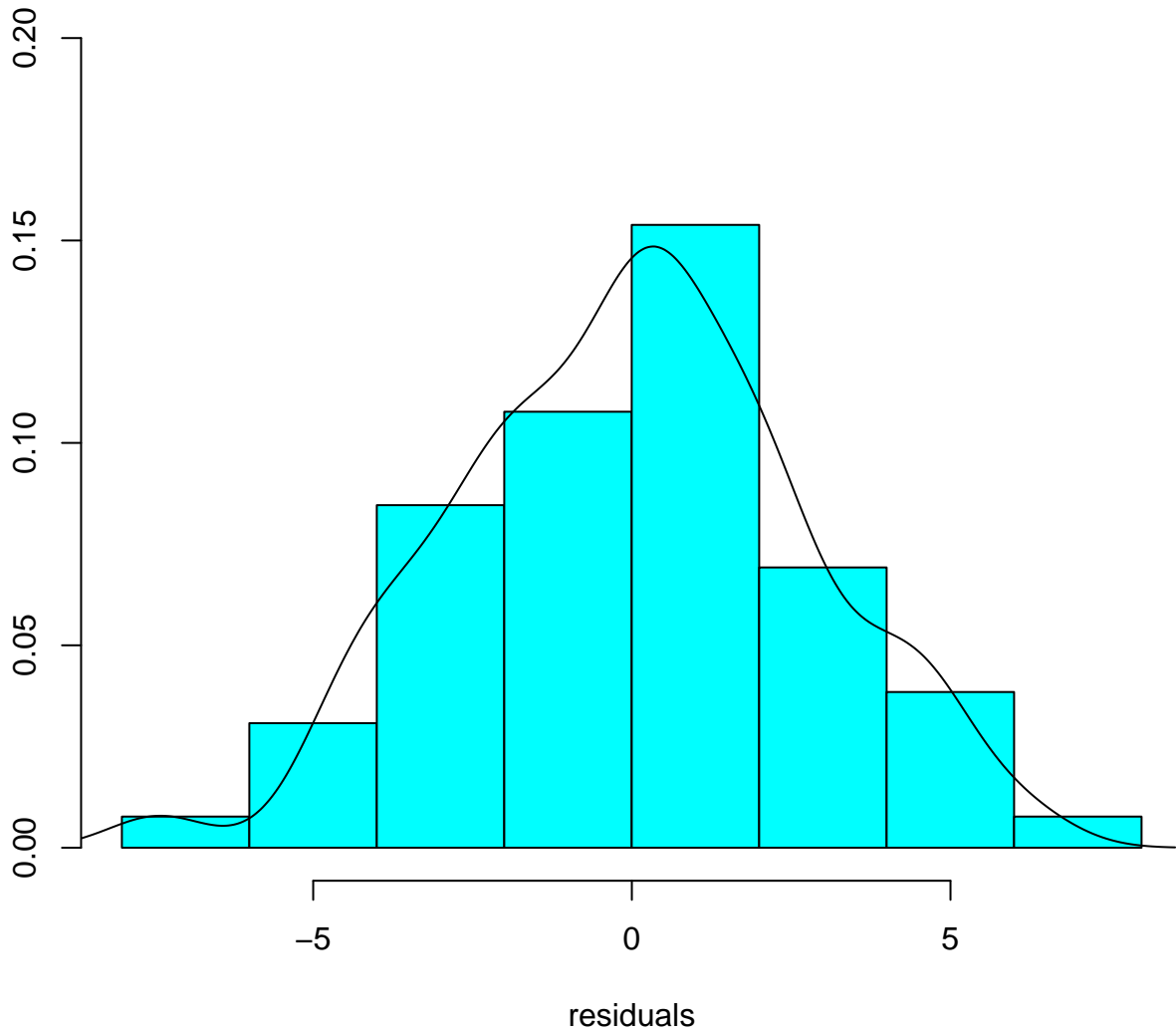
Transformed data for red_meat in zambia_wom
women ; age 18–67   lambda = 0.402

QQ−normal: residuals of model
intake.trans ~ fp(age)
women ; age 18−67   for   red_meat in zambia_wom

Sample Quantiles

Theoretical Quantiles

Histogram: residuals of model
intake.trans ~ fp(age)
women ; age 18–67   for   red_meat   in   zambia_wom

residuals

BB model: intake frequency distribution for red_meat in zambia_wom
women ; age 18−67
per person 100 simulated pseudo persons

intake frequency

age

- ○ sample mean per age
- —■— model fit
- --■-- unsmoothed mean/percentiles
- --■-- smoothed mean/percentiles

P0.95
P0.9
P0.75
AM
P0.5
P0.25
P0.1
P0.05
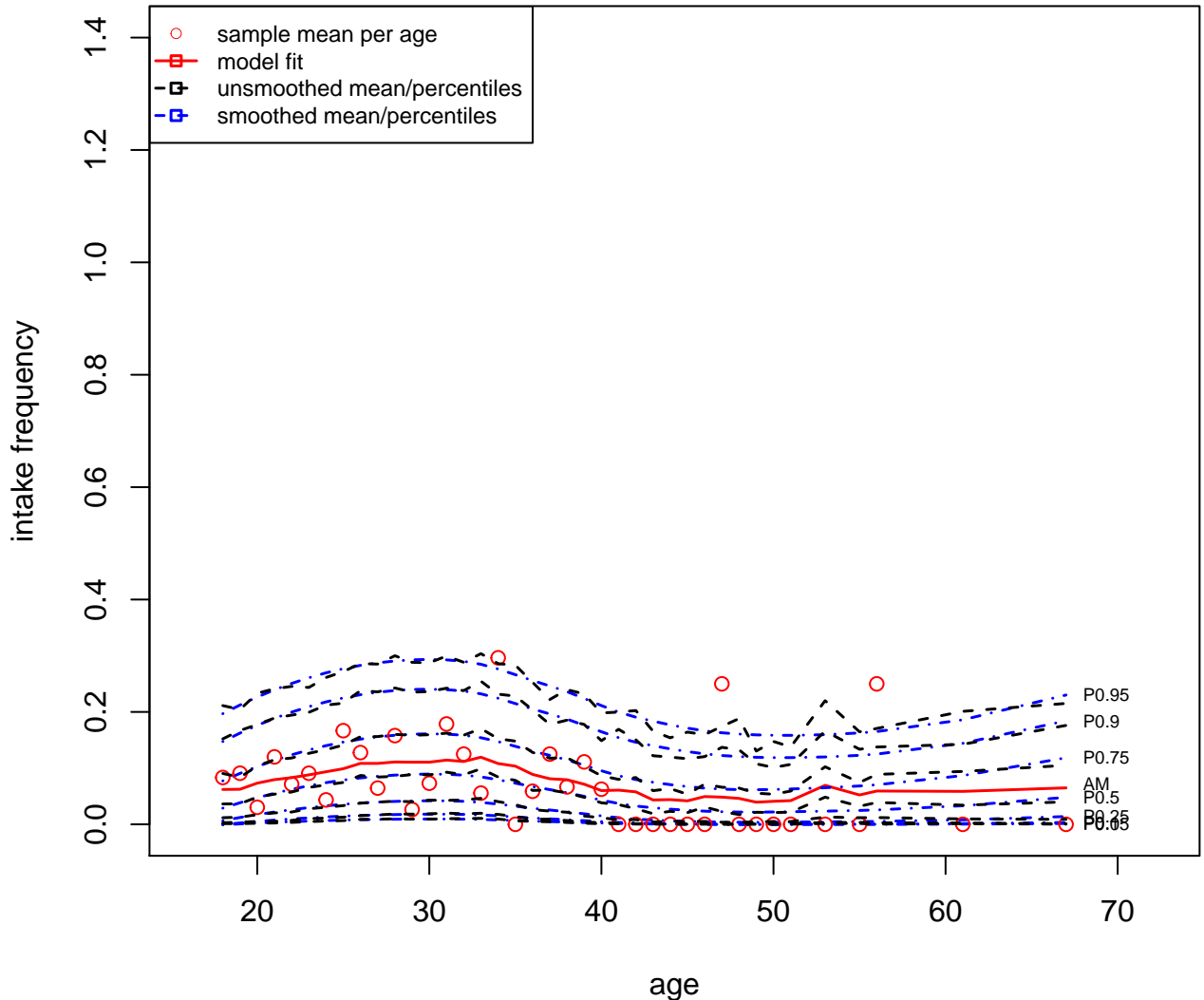
Habitual amount distribution for red_meat in zambia_wom
women ; age 18−67
per person 100 simulated pseudo persons
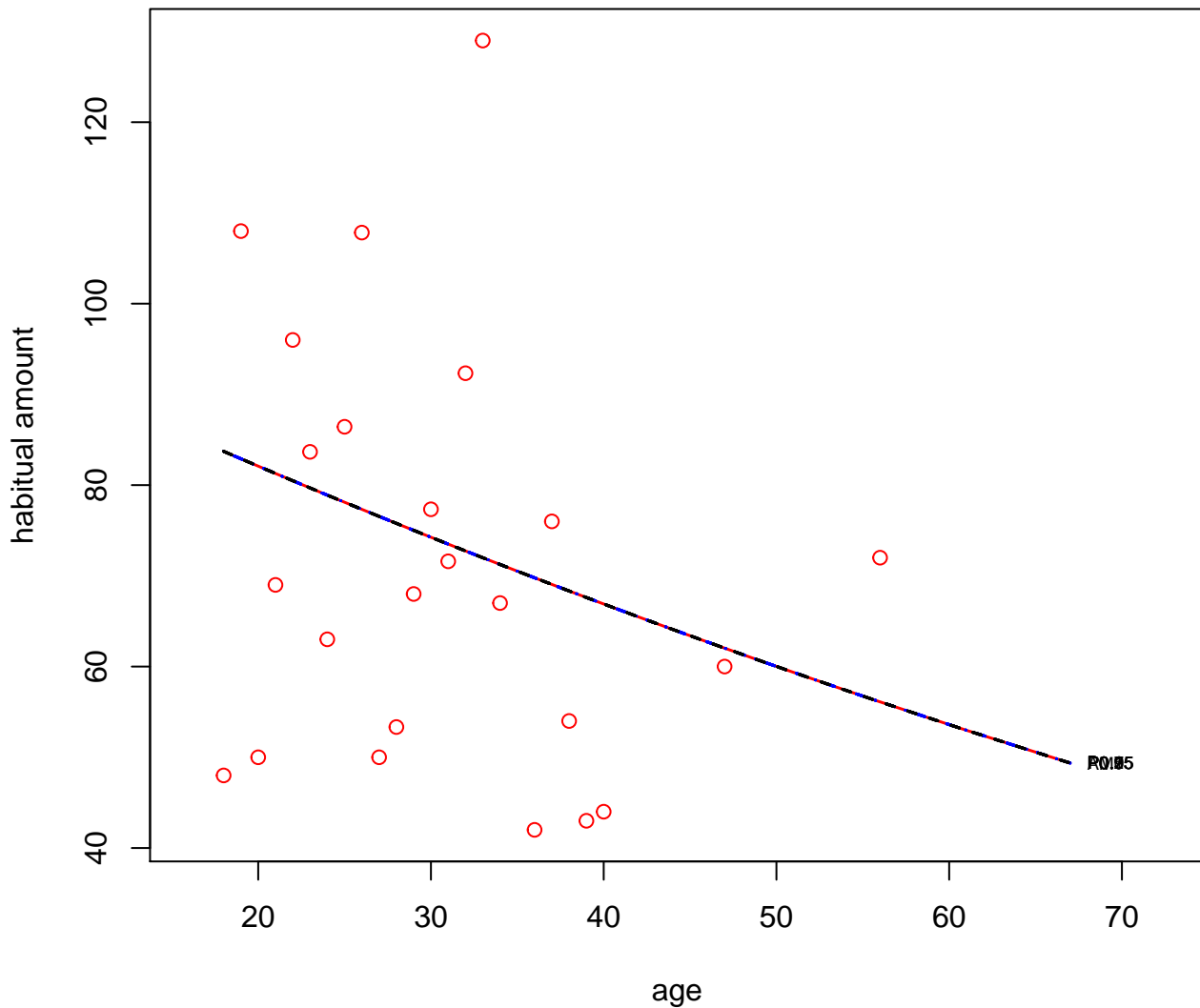
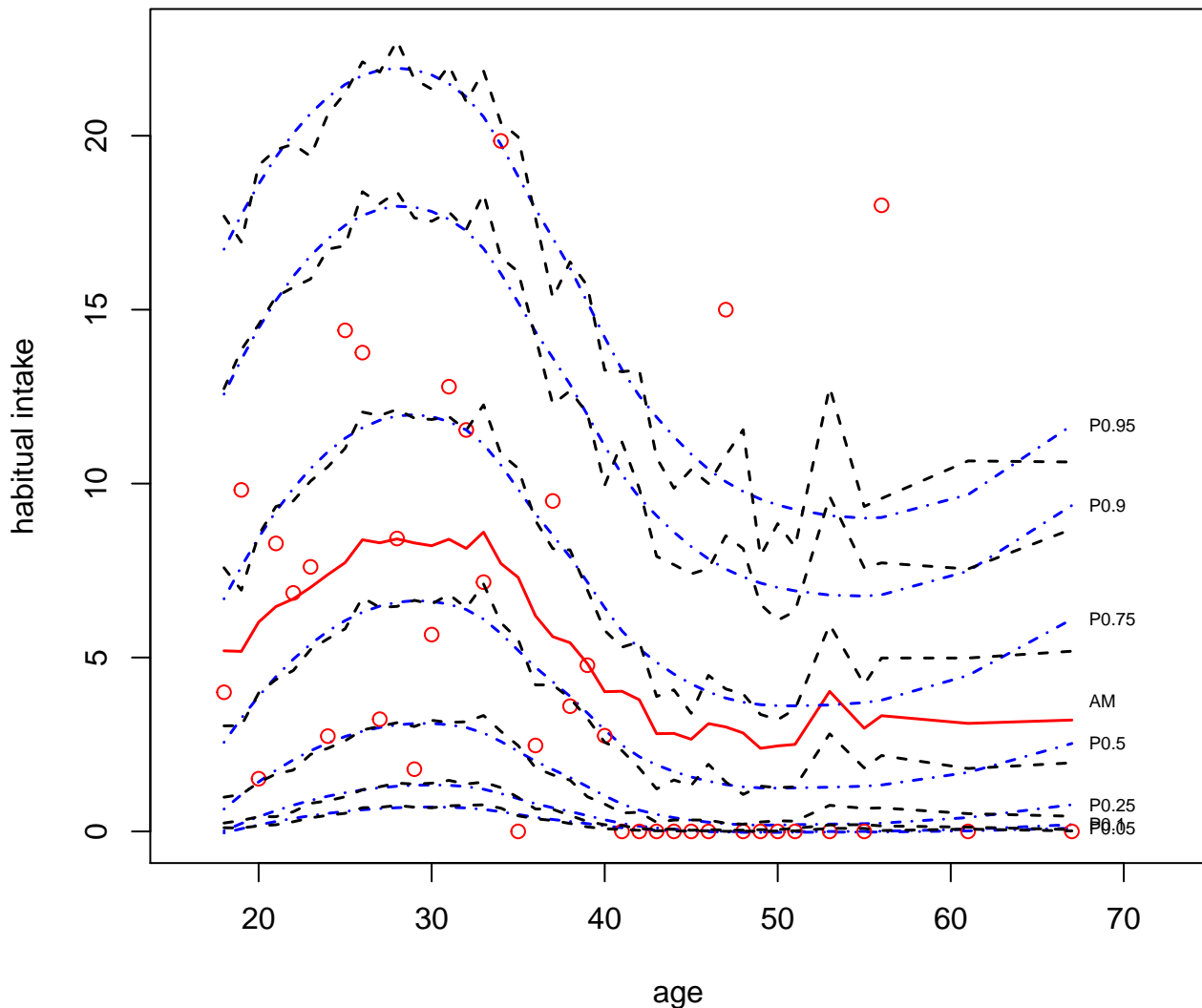Habitual amount distribution for red_meat in zambia_wom
women ; age 18–67
per person 100 simulated pseudo persons

Habitual intake distribution for red_meat in zambia_wom
women ; age 18−67
100 pseudo persons per person are simulated