

$$A_0 = \left[ \frac{1 + \tau_{ig}^2}{1 + \tau_{ig}^2} \cdot \left( \frac{1 - s_{ig}}{1 - s_{ig}} \right)^M \cdot \frac{\tau_{ig} w_{ig} (h_{ig}) - \left[ \eta \tau_{ig} \cdot \frac{\partial w_{ig}}{\partial h_{ig}} \cdot s_{ig}^\phi \cdot \left( \frac{2\hat{H}}{m} \right)^{\frac{1}{\sigma} \frac{1}{1-\eta}} \right] \cdot \alpha_T^{\frac{1}{\sigma} \frac{1}{1-\eta}}}{(1-\eta) \left[ \eta^2 \cdot \tau_{ig} \cdot A_0 \cdot s_{ig}^\phi \cdot \left( \frac{2\hat{H}}{m} \right)^{\frac{1}{\sigma} \frac{1}{1-\eta}} \right]} \right] \frac{1-\eta}{\alpha}$$

$$s_{ig} = \frac{A_0 \phi}{A_0 \phi - \eta + \eta \cdot \tau_{ig} \cdot \frac{w_{ig}(h_{ig})}{e_{ig}}}$$

$$e_{ig} = \left[ \eta \cdot \tau_{ig} \cdot \frac{\partial w_{ig}}{\partial h_{ig}} \cdot \alpha_i^\phi \cdot s_{ig}^\phi \cdot \left( \frac{2\hat{H}}{m} \right)^{\frac{1}{\sigma} \frac{1}{1-\eta}} \right]^{\frac{1}{1-\eta}}$$

$$h_{ig} = \left[ \eta^2 \cdot \tau_{ig}^\eta \left( \frac{\partial w_{ig}}{\partial h_{ig}} \right)^\eta \cdot \alpha_i^\alpha \cdot s_{ig}^\phi \cdot \left( \frac{2\hat{H}}{m} \right)^{\frac{1}{\sigma} \frac{1}{1-\eta}} \right]^{\frac{1}{1-\eta}}$$