Effect of weights on cod-end retention

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Take a two net case

$$\eta = X\beta + W\gamma \tag{1}$$

$$(\eta_0 \quad \eta_1) = (1) (0 \quad \beta_0) + (w_0 \quad w_1) \begin{pmatrix} \gamma_0 & 0 \\ 0 & \gamma_1 \end{pmatrix}$$

$$(\eta_0 \quad \eta_1) = (0 \quad \beta_0) + (w_0 \gamma_0 \quad w_1 \gamma_1)$$

$$(3)$$

$$(\eta_0 \quad \eta_1) = (0 \quad \beta_0) + (w_0 \gamma_0 \quad w_1 \gamma_1) \tag{3}$$

$$(\eta_0 \quad \eta_1) = (w_0 \gamma_0 \quad \beta_0 + w_1 \gamma_1) \tag{4}$$

So that

$$p_0 = \frac{e^{w_0 \gamma_0}}{e^{w_0 \gamma_0} + e^{\beta_0 + w_1 \gamma_1}} \tag{5}$$

$$p_{0} = \frac{e^{w_{0}\gamma_{0}}}{e^{w_{0}\gamma_{0}} + e^{\beta_{0} + w_{1}\gamma_{1}}}$$

$$p_{1} = \frac{e^{\beta_{0} + w_{1}\gamma_{1}}}{e^{w_{0}\gamma_{0}} + e^{\beta_{0} + w_{1}\gamma_{1}}}$$
(5)