

$$\begin{aligned}
\ln(C_{it}) = & \beta_0 + \beta_1 \ln Q_{it} + \frac{\beta_2}{2} \ln Q_{it}^2 + \sum_{k=1}^3 \gamma_k \ln W_{k,it} + \sum_{k=1}^3 \phi_k \ln Q_{it} \ln W_{k,it} \\
& + \sum_{k=1}^3 \sum_{j=1}^3 \gamma_{kj} \ln W_{k,it} \ln W_{j,it} + \beta_3 \text{Time}_t + \varepsilon_{it}
\end{aligned}$$