| **MODEL** | **SPECIFICATION** | **ASSESSMENT** |
| --- | --- | --- |
| *MR.Y.P.C.V.1*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  No lag  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | p75 (1.0013)\*\*\*  onsite\_insp\_hours (0.9998)\*\*  state fixed effects significant  quarter fixed effects significant | Overdispersed (lrtest)  Alpha 0.2179 (0.1800 - 0.2638)  Log pseudo-likelihood -8670.8900 (+291.0417)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted 1.9271 2.9315 0.0006 31.8932 |
| *MR.Y.P.C.SSV.1*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  No lag  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.PP.1*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  No lag  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.V.1*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  No lag  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.SSV.1*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  No lag  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.PP.1*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  No lag  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.V.2*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  Lag 1  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.SSV.2*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  Lag 1  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.PP.2*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  Lag 1  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.V.2*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  Lag 1  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.SSV.2*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  Lag 1  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.PP.2*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  Lag 1  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.V.3*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.SSV.3*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.PP.3*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.V.3*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.SSV.3*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.PP.3*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.V.4*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.SSV.4*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Y.P.C.PP.4*  MR injury outcome  Mine-year unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.V.4*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.SSV.4*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # sig&sub violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |
| *MR.Q.P.C.PP.4*  MR injury outcome  Mine-quarter unit  Part-level violation predictors  Count outcome variable  Predictors = # penalty points  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | var (coef)\*  state fixed effects significant  quarter fixed effects significant | (Not) Overdispersed (lrtest)  Alpha 0.XXXX (0.XXXX - 0.XXXX)  Log pseudo-likelihood -XXXX.XXXX (+X.XX)  Mean SD Min Max  True 1.8810 3.2689 0 37  Predicted X.XXXX X.XXXX X.XXXX X.XXXX |