| **MODEL** | **ASSESSMENT** |
| --- | --- |
| *MR.Y.B.SP.V.1*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  No lag  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2691.4105 (+389.3199)  Positive predictive value Pr(1 | +) 79.16% (+2.62%)  Negative predictive value Pr(0 | -) 76.09% (-0.10%)  False + rate for true 0 Pr(+ | 0) 23.64% (-7.63%)  False - rate for true 1 Pr(- | 1) 21.09% (+3.69%)  Correctly classified 77.72% (+1.32%)  Mean SD  True 0.5525 0.4973  Predicted 0.5323 0.3057 |
| *MR.Y.B.SP.SSV.1*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  No lag  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2722.3090 (+358.4214)  Positive predictive value Pr(1 | +) 78.71% (+2.17%)  Negative predictive value Pr(0 | -) 75.85% (-0.34%)  False + rate for true 0 Pr(+ | 0) 24.53% (-6.74%)  False - rate for true 1 Pr(- | 1) 20.94% (+3.54%)  Correctly classified 77.39% (+0.99%)  Mean SD  True 0.5525 0.4973  Predicted 0.5343 0.3015 |
| *MR.Y.B.SP.PP.1*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  No lag  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -1346.1302 (+1734.6002)  Positive predictive value Pr(1 | +) 80.57% (+4.03%)  Negative predictive value Pr(0 | -) 77.10% (+0.91%)  False + rate for true 0 Pr(+ | 0) 20.51% (-10.76%)  False - rate for true 1 Pr(- | 1) 21.72% (+4.32%)  Correctly classified 78.86% (+2.46%)  Mean SD  True 0.5525 0.4973  Predicted 0.4675 0.3012 |
| *MR.Q.B.SP.V.1*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  No lag  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -11964.3820 (+783.2790)  Positive predictive value Pr(1 | +) 72.30% (+2.32%)  Negative predictive value Pr(0 | -) 83.03% (-0.24%)  False + rate for true 0 Pr(+ | 0) 5.78% (+0.24%)  False - rate for true 1 Pr(- | 1) 56.06% (-3.44%)  Correctly classified 81.36% (-0.05%)  Mean SD  True 0.2419 0.4282  Predicted 0.2557 0.2358 |
| *MR.Q.B.SP.SSV.1*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  No lag  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -12018.3320 (+729.3290)  Positive predictive value Pr(1 | +) 72.37% (+2.39%)  Negative predictive value Pr(0 | -) 82.97% (-0.30%)  False + rate for true 0 Pr(+ | 0) 5.74% (+0.20%)  False - rate for true 1 Pr(- | 1) 56.25% (-3.25%)  Correctly classified 81.33% (-0.08%)  Mean SD  True 0.2419 0.4282  Predicted 0.2559 0.2331 |
| *MR.Q.B.SP.PP.1*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  No lag  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -6093.7030 (+6653.9580)  Positive predictive value Pr(1 | +) 71.57% (+1.59%)  Negative predictive value Pr(0 | -) 83.36% (+0.09%)  False + rate for true 0 Pr(+ | 0) 6.14% (+0.60%)  False - rate for true 1 Pr(- | 1) 54.79% (-4.71%)  Correctly classified 81.47% (+0.06%)  Mean SD  True 0.2419 0.4282  Predicted 0.2112 0.2183 |
| *MR.Y.B.SP.V.2*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Lag 1  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2699.1741 (+381.5563)  Positive predictive value Pr(1 | +) 79.55% (+3.01%)  Negative predictive value Pr(0 | -) 76.29% (+0.01%)  False + rate for true 0 Pr(+ | 0) 22.91% (-8.36%)  False - rate for true 1 Pr(- | 1) 21.18% (+3.78%)  Correctly classified 78.00% (+1.60%)  Mean SD  True 0.5525 0.4973  Predicted 0.5307 0.3048 |
| *MR.Y.B.SP.SSV.2*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Lag 1  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2727.1630 (+353.5674)  Positive predictive value Pr(1 | +) 78.91% (+2.37%)  Negative predictive value Pr(0 | -) 76.14% (-0.05%)  False + rate for true 0 Pr(+ | 0) 24.43% (-6.84%)  False - rate for true 1 Pr(- | 1) 20.57% (+3.17%)  Correctly classified 77.63% (+1.23%)  Mean SD  True 0.5525 0.4973  Predicted 0.5352 0.3017 |
| *MR.Y.B.SP.PP.2*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Lag 1  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -1349.5144 (+1731.2160)  Positive predictive value Pr(1 | +) 80.66% (+4.12%)  Negative predictive value Pr(0 | -) 77.67% (+1.48%)  False + rate for true 0 Pr(+ | 0) 21.08% (-10.19%)  False - rate for true 1 Pr(- | 1) 20.52% (+3.12%)  Correctly classified 79.21% (+2.81%)  Mean SD  True 0.5525 0.4973  Predicted 0.4666 0.3033 |
| *MR.Q.B.SP.V.2*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Lag 1  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -11386.8960 (+1360.7650)  Positive predictive value Pr(1 | +) 71.74% (+1.76%)  Negative predictive value Pr(0 | -) 82.21% (-1.06%)  False + rate for true 0 Pr(+ | 0) 6.45% (+0.91%)  False - rate for true 1 Pr(- | 1) 55.28% (-4.22%)  Correctly classified 80.46% (-0.95%)  Mean SD  True 0.2419 0.4282  Predicted 0.2680 0.2377 |
| *MR.Q.B.SP.SSV.2*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Lag 1  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -11432.5400 (+1315.1210)  Positive predictive value Pr(1 | +) 71.82% (+1.84%)  Negative predictive value Pr(0 | -) 82.11% (-1.16%)  False + rate for true 0 Pr(+ | 0) 6.36% (+0.82%)  False - rate for true 1 Pr(- | 1) 55.73% (+3.77%)  Correctly classified 80.41% (+1.00%)  Mean SD  True 0.2419 0.4282  Predicted 0.2680 0.2347 |
| *MR.Q.B.SP.PP.2*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Lag 1  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -5982.8191 (+6764.8420)  Positive predictive value Pr(1 | +) 72.24% (+2.26%)  Negative predictive value Pr(0 | -) 82.85% (-0.42%)  False + rate for true 0 Pr(+ | 0) 6.43% (+0.89%)  False - rate for true 1 Pr(- | 1) 53.64% (-5.86%)  Correctly classified 81.04% (-0.37%)  Mean SD  True 0.2419 0.4282  Predicted 0.2218 0.2214 |
| *MR.Y.B.SP.V.3*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2701.0642 (+379.6662)  Positive predictive value Pr(1 | +) 79.25% (+2.71%)  Negative predictive value Pr(0 | -) 76.28% (+0.09%)  False + rate for true 0 Pr(+ | 0) 22.79% (-8.48%)  False - rate for true 1 Pr(- | 1) 21.62% (+4.22%)  Correctly classified 77.83% (+1.43%)  Mean SD  True 0.5525 0.4973  Predicted 0.5262 0.3031 |
| *MR.Y.B.SP.SSV.3*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2717.6661 (+363.06430)  Positive predictive value Pr(1 | +) 78.85% (+2.31%)  Negative predictive value Pr(0 | -) 76.48% (+0.29%)  False + rate for true 0 Pr(+ | 0) 24.18% (-7.09%)  False - rate for true 1 Pr(- | 1) 20.55% (+3.15%)  Correctly classified 77.75% (+1.35%)  Mean SD  True 0.5525 0.4973  Predicted 0.5316 0.3021 |
| *MR.Y.B.SP.PP.3*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -1334.8611 (+1745.8693)  Positive predictive value Pr(1 | +) 80.91% (+4.37%)  Negative predictive value Pr(0 | -) 78.06% (+1.87%)  False + rate for true 0 Pr(+ | 0) 20.31% (-10.96%)  False - rate for true 1 Pr(- | 1) 20.64% (+3.24%)  Correctly classified 79.52% (+3.12%)  Mean SD  True 0.5525 0.4973  Predicted 0.4681 0.3013 |
| *MR.Q.B.SP.V.3*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -9958.2075 (+2789.4530)  Positive predictive value Pr(1 | +) 71.41% (+1.43%)  Negative predictive value Pr(0 | -) 81.68% (-1.59%)  False + rate for true 0 Pr(+ | 0) 7.52% (+1.98%)  False - rate for true 1 Pr(- | 1) 52.47% (-7.03%)  Correctly classified 79.74% (-1.67%)  Mean SD  True 0.2419 0.4282  Predicted 0.2834 0.2467 |
| *MR.Q.B.SP.SSV.3*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -9994.5917 (+2753.0690)  Positive predictive value Pr(1 | +) 72.25% (+2.27%)  Negative predictive value Pr(0 | -) 81.58% (-1.69%)  False + rate for true 0 Pr(+ | 0) 7.14% (+1.60%)  False - rate for true 1 Pr(- | 1) 53.00% (-6.50%)  Correctly classified 79.86% (-1.55%)  Mean SD  True 0.2419 0.4282  Predicted 0.2835 0.2431 |
| *MR.Q.B.SP.PP.3*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag 4  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -5553.1706 (+7194.4900)  Positive predictive value Pr(1 | +) 71.29% (+1.31%)  Negative predictive value Pr(0 | -) 82.34% (-0.93%)  False + rate for true 0 Pr(+ | 0) 7.53% (+1.99%)  False - rate for true 1 Pr(- | 1) 51.48% (-8.02%)  Correctly classified 80.25% (-1.16%)  Mean SD  True 0.2419 0.4282  Predicted 0.2388 0.2325 |
| *MR.Y.B.SP.V.4*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | Good fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -2692.9207 (+387.8097)  Positive predictive value Pr(1 | +) 79.38% (+2.84%)  Negative predictive value Pr(0 | -) 75.96% (-0.23%)  False + rate for true 0 Pr(+ | 0) 23.20% (-8.07%)  False - rate for true 1 Pr(- | 1) 21.39% (+3.99%)  Correctly classified 77.76% (+1.36%)  Mean SD  True 0.5525 0.4973  Predicted 0.5318 0.3083 |
| *MR.Y.B.SP.SSV.4*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -2714.5065 (+366.2239)  Positive predictive value Pr(1 | +) 78.92% (+2.38%)  Negative predictive value Pr(0 | -) 76.52% (+0.33%)  False + rate for true 0 Pr(+ | 0) 23.70% (-7.57%)  False - rate for true 1 Pr(- | 1) 20.88% (+3.48%)  Correctly classified 77.79% (+1.39%)  Mean SD  True 0.5525 0.4973  Predicted 0.5286 0.3040 |
| *MR.Y.B.SP.PP.4*  MR injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -1300.2492 (+1780.4812)  Positive predictive value Pr(1 | +) 81.18% (+4.64%)  Negative predictive value Pr(0 | -) 77.76% (+1.57%)  False + rate for true 0 Pr(+ | 0) 20.32% (-10.95%)  False - rate for true 1 Pr(- | 1) 20.64% (+3.24%)  Correctly classified 79.51% (+3.11%)  Mean SD  True 0.5525 0.4973  Predicted 0.4940 0.3166 |
| *MR.Q.B.SP.V.4*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -6112.1798 (+6635.4810)  Positive predictive value Pr(1 | +) 76.28% (+6.30%)  Negative predictive value Pr(0 | -) 81.64% (-1.63%)  False + rate for true 0 Pr(+ | 0) 9.60% (+4.06%)  False - rate for true 1 Pr(- | 1) 39.69% (-19.81%)  Correctly classified 80.21% (-1.20%)  Mean SD  True 0.2419 0.4282  Predicted 0.3387 0.2877 |
| *MR.Q.B.SP.SSV.4*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -6142.2448 (+6605.4160)  Positive predictive value Pr(1 | +) 75.24% (+5.26%)  Negative predictive value Pr(0 | -) 81.45% (-1.82%)  False + rate for true 0 Pr(+ | 0) 9.95% (+4.41%)  False - rate for true 1 Pr(- | 1) 40.41% (-19.09%)  Correctly classified 79.79% (-1.62%)  Mean SD  True 0.2419 0.4282  Predicted 0.3367 0.2822 |
| *MR.Q.B.SP.PP.4*  MR injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag From T=0  *Probit does not converge*  *Logit results reported* | Bad fit (lfit)  No specification error/missing vars (linktest)  Log pseudo-likelihood -3010.1027 (+9737.5580)  Positive predictive value Pr(1 | +) 76.41% (+6.43%)  Negative predictive value Pr(0 | -) 81.77% (-1.50%)  False + rate for true 0 Pr(+ | 0) 10.49% (+4.95%)  False - rate for true 1 Pr(- | 1) 37.00% (-22.50%)  Correctly classified 80.22% (-1.19%)  Mean SD  True 0.2419 0.4282  Predicted 0.3065 0.2848 |