| **MODEL** | **ASSESSMENT** |
| --- | --- |
| *PS.Y.B.SP.V.1*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  No lag  *Logit results reported* | Good fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1674.725 (+218.6431)  Positive predictive value Pr(1 | +) 89.44% (+2.18%)  Negative predictive value Pr(0 | -) 74.08% (-3.16%)  False + rate for true 0 Pr(+ | 0) 53.96% (-17.25%)  False - rate for true 1 Pr(- | 1) 3.40% (+1.69%)  Correctly classified 87.78% (+1.15%)  Mean SD  True 0.8322 0.3737  Predicted 0.8256 0.2318 |
| *PS.Y.B.SP.SSV.1*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  No lag  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1703.7061 (+189.6620)  Positive predictive value Pr(1 | +) 88.96% (+1.70%)  Negative predictive value Pr(0 | -) 72.38% (-4.86%)  False + rate for true 0 Pr(+ | 0) 56.53% (-14.68%)  False - rate for true 1 Pr(- | 1) 3.51% (+1.80%)  Correctly classified 87.22% (+0.59%)  Mean SD  True 0.8322 0.3737  Predicted 0.8251 0.2306 |
| *PS.Y.B.SP.PP.1*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  No lag  *Logit results reported* | Good fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1685.0405 (+208.3276)  Positive predictive value Pr(1 | +) 89.14% (+1.88%)  Negative predictive value Pr(0 | -) 72.88% (-4.36%)  False + rate for true 0 Pr(+ | 0) 55.67% (-15.54%)  False - rate for true 1 Pr(- | 1) 3.48% (+1.77%)  Correctly classified 87.42% (+0.79%)  Mean SD  True 0.8322 0.3737  Predicted 0.8257 0.2307 |
| *PS.Q.B.SP.V.1*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  No lag  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -13798.178 (+1445.245)  Positive predictive value Pr(1 | +) 78.50% (+2.06%)  Negative predictive value Pr(0 | -) 74.22% (-2.47%)  False + rate for true 0 Pr(+ | 0) 31.39% (-0.23%)  False - rate for true 1 Pr(- | 1) 17.22% (+0.37%)  Correctly classified 76.84% (+0.30%)  Mean SD  True 0.5523 0.4973  Predicted 0.5806 0.2888 |
| *PS.Q.B.SP.SSV.1*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  No lag  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -13803.097 (+1440.326)  Positive predictive value Pr(1 | +) 78.46% (+2.02%)  Negative predictive value Pr(0 | -) 74.31% (-2.38%)  False + rate for true 0 Pr(+ | 0) 31.54% (-0.08%)  False - rate for true 1 Pr(- | 1) 17.08% (+0.23%)  Correctly classified 76.86% (+0.32%)  Mean SD  True 0.5523 0.4973  Predicted 0.5808 0.2882 |
| *PS.Q.B.SP.PP.1*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  No lag  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -13812.303 (+1431.12)  Positive predictive value Pr(1 | +) 78.46% (+2.02%)  Negative predictive value Pr(0 | -) 74.42% (-2.27%)  False + rate for true 0 Pr(+ | 0) 31.59% (-0.03%)  False - rate for true 1 Pr(- | 1) 16.96% (+0.11%)  Correctly classified 76.91% (+0.37%)  Mean SD  True 0.5523 0.4973  Predicted 0.5809 0.2884 |
| *PS.Y.B.SP.V.2*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Lag 1  *Logit results reported* | Good fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1676.6439 (+216.7242)  Positive predictive value Pr(1 | +) 89.38% (+2.12%)  Negative predictive value Pr(0 | -) 73.28% (-3.96%)  False + rate for true 0 Pr(+ | 0) 54.24% (-16.97%)  False - rate for true 1 Pr(- | 1) 3.52% (+1.81%)  Correctly classified 87.63% (+1.00%)  Mean SD  True 0.8322 0.3737  Predicted 0.8256 0.2318 |
| *PS.Y.B.SP.SSV.2*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Lag 1  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1697.0276 (+196.3405)  Positive predictive value Pr(1 | +) 88.68% (+1.42%)  Negative predictive value Pr(0 | -) 73.00% (-4.24%)  False + rate for true 0 Pr(+ | 0) 55.67% (-15.54%)  False - rate for true 1 Pr(- | 1) 3.62% (+1.91%)  Correctly classified 86.96% (+0.33%)  Mean SD  True 0.8322 0.3737  Predicted 0.8189 0.2332 |
| *PS.Y.B.SP.PP.2*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Lag 1  *Logit results reported* | Good fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1676.7237 (+216.6444)  Positive predictive value Pr(1 | +) 88.88% (+1.62%)  Negative predictive value Pr(0 | -) 73.99% (-3.25%)  False + rate for true 0 Pr(+ | 0) 54.43% (-16.78%)  False - rate for true 1 Pr(- | 1) 3.55% (+1.84%)  Correctly classified 87.21% (+0.58%)  Mean SD  True 0.8322 0.3737  Predicted 0.8185 0.2336 |
| *PS.Q.B.SP.V.2*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Lag 1  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -12654.876 (+2588.547)  Positive predictive value Pr(1 | +) 78.85% (+2.41%)  Negative predictive value Pr(0 | -) 73.53% (-3.16%)  False + rate for true 0 Pr(+ | 0) 34.19% (+2.57%)  False - rate for true 1 Pr(- | 1) 15.67% (-1.18%)  Correctly classified 76.95% (+0.41%)  Mean SD  True 0.5523 0.4973  Predicted 0.6018 0.2816 |
| *PS.Q.B.SP.SSV.2*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Lag 1  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -12670.33 (+2573.093)  Positive predictive value Pr(1 | +) 78.69% (+2.25%)  Negative predictive value Pr(0 | -) 73.28% (-3.41%)  False + rate for true 0 Pr(+ | 0) 34.48% (+2.86%)  False - rate for true 1 Pr(- | 1) 15.81% (-1.04%)  Correctly classified 76.76% (+0.22%)  Mean SD  True 0.5523 0.4973  Predicted 0.6019 0.2811 |
| *PS.Q.B.SP.PP.2*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Lag 1  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -12673.1 (+2570.323)  Positive predictive value Pr(1 | +) 78.61% (+2.17%)  Negative predictive value Pr(0 | -) 73.41% (-3.28%)  False + rate for true 0 Pr(+ | 0) 34.64% (+3.02%)  False - rate for true 1 Pr(- | 1) 15.68% (-1.17%)  Correctly classified 76.77% (+0.23%)  Mean SD  True 0.5523 0.4973  Predicted 0.6016 0.2808 |
| *PS.Y.B.SP.V.3*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag 4  *Logit results reported* | Good fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1664.9628 (+228.4053)  Positive predictive value Pr(1 | +) 89.35% (+2.09%)  Negative predictive value Pr(0 | -) 74.50% (-2.74%)  False + rate for true 0 Pr(+ | 0) 53.77% (-17.44%)  False - rate for true 1 Pr(- | 1) 3.39% (+1.68%)  Correctly classified 87.72% (+1.09%)  Mean SD  True 0.8322 0.3737  Predicted 0.8235 0.2335 |
| *PS.Y.B.SP.SSV.3*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag 4  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1672.729 (+220.6391)  Positive predictive value Pr(1 | +) 88.80% (+1.54%)  Negative predictive value Pr(0 | -) 73.79% (-3.45%)  False + rate for true 0 Pr(+ | 0) 54.87% (-16.34%)  False - rate for true 1 Pr(- | 1) 3.55% (+1.84%)  Correctly classified 87.14% (+0.51%)  Mean SD  True 0.8322 0.3737  Predicted 0.8186 0.2336 |
| *PS.Y.B.SP.PP.3*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag 4  *Logit results reported* | Good fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1664.9615 (+228.4066)  Positive predictive value Pr(1 | +) 88.94% (+1.68%)  Negative predictive value Pr(0 | -) 74.69% (-2.55%)  False + rate for true 0 Pr(+ | 0) 53.53% (-17.68%)  False - rate for true 1 Pr(- | 1) 3.53% (+1.82%)  Correctly classified 87.32% (+0.69%)  Mean SD  True 0.8323 0.3737  Predicted 0.8169 0.2349 |
| *PS.Q.B.SP.V.3*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag 4  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -10541.455 (+4701.968)  Positive predictive value Pr(1 | +) 79.65% (+3.21%)  Negative predictive value Pr(0 | -) 73.14% (-3.55%)  False + rate for true 0 Pr(+ | 0) 35.84% (+4.22%)  False - rate for true 1 Pr(- | 1) 14.38% (-2.47%)  Correctly classified 77.48% (+0.94%)  Mean SD  True 0.5523 0.4973  Predicted 0.6210 0.2805 |
| *PS.Q.B.SP.SSV.3*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag 4  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -10553.109 (+4690.314)  Positive predictive value Pr(1 | +) 79.55% (+3.11%)  Negative predictive value Pr(0 | -) 73.01% (-3.68%)  False + rate for true 0 Pr(+ | 0) 36.19% (+4.57%)  False - rate for true 1 Pr(- | 1) 14.35% (-2.50%)  Correctly classified 77.39% (+0.85%)  Mean SD  True 0.5523 0.4973  Predicted 0.6218 0.2797 |
| *PS.Q.B.SP.PP.3*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag 4  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -10570.452 (+4672.971)  Positive predictive value Pr(1 | +) 79.50% (+3.06%)  Negative predictive value Pr(0 | -) 73.18% (-3.51%)  False + rate for true 0 Pr(+ | 0) 36.42% (+4.80%)  False - rate for true 1 Pr(- | 1) 14.16% (-2.69%)  Correctly classified 77.42% (+0.88%)  Mean SD  True 0.5523 0.4973  Predicted 0.6220 0.2795 |
| *PS.Y.B.SP.V.4*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag From T=0  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1639.7582 (+253.6099)  Positive predictive value Pr(1 | +) 88.69% (+1.43%)  Negative predictive value Pr(0 | -) 72.92% (-4.32%)  False + rate for true 0 Pr(+ | 0) 53.29% (-17.92%)  False - rate for true 1 Pr(- | 1) 3.99% (+2.28%)  Correctly classified 86.80% (+0.17%)  Mean SD  True 0.8322 0.3737  Predicted 0.8131 0.2385 |
| *PS.Y.B.SP.SSV.4*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag From T=0  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1660.1231 (+233.245)  Positive predictive value Pr(1 | +) 88.68% (+1.42%)  Negative predictive value Pr(0 | -) 73.23% (-4.01%)  False + rate for true 0 Pr(+ | 0) 54.62% (-16.59%)  False - rate for true 1 Pr(- | 1) 3.73% (+2.02%)  Correctly classified 86.92% (+0.29%)  Mean SD  True 0.8322 0.3737  Predicted 0.8163 0.2357 |
| *PS.Y.B.SP.PP.4*  PS injury outcome  Mine-year unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag From T=0  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -1640.9465 (+252.4216)  Positive predictive value Pr(1 | +) 88.87% (+1.61%)  Negative predictive value Pr(0 | -) 73.71% (-3.53%)  False + rate for true 0 Pr(+ | 0) 53.77% (-17.44%)  False - rate for true 1 Pr(- | 1) 3.70% (+1.99%)  Correctly classified 87.13% (+0.50%)  Mean SD  True 0.8322 0.3737  Predicted 0.8168 0.2377 |
| *PS.Q.B.SP.V.4*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag From T=0  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -8987.7401 (+6255.683)  Positive predictive value Pr(1 | +) 80.17% (+3.73%)  Negative predictive value Pr(0 | -) 72.44% (-4.25%)  False + rate for true 0 Pr(+ | 0) 36.13% (+4.51%)  False - rate for true 1 Pr(- | 1) 14.26% (-2.59%)  Correctly classified 77.65% (+1.11%)  Mean SD  True 0.5523 0.4973  Predicted 0.6301 0.2820 |
| *PS.Q.B.SP.SSV.4*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag From T=0  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -8998.3945 (+6245.029)  Positive predictive value Pr(1 | +) 80.20% (+3.76%)  Negative predictive value Pr(0 | -) 72.63% (-4.06%)  False + rate for true 0 Pr(+ | 0) 36.17% (+4.55%)  False - rate for true 1 Pr(- | 1) 14.10% (-2.75%)  Correctly classified 77.74% (+1.20%)  Mean SD  True 0.5523 0.4973  Predicted 0.6304 0.2813 |
| *PS.Q.B.SP.PP.4*  PS injury outcome  Mine-quarter unit  Binary outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag From T=0  *Logit results reported* | Bad fit (lfit)  Specification error/missing vars (linktest)  Log pseudo-likelihood -8999.7304 (+6243.693)  Positive predictive value Pr(1 | +) 80.23% (+3.79%)  Negative predictive value Pr(0 | -) 72.26% (-4.43%)  False + rate for true 0 Pr(+ | 0) 36.28% (+4.66%)  False - rate for true 1 Pr(- | 1) 14.25% (-2.60%)  Correctly classified 77.65% (+1.11%)  Mean SD  True 0.5523 0.4973  Predicted 0.6319 0.2809 |