| **MODEL** | **ASSESSMENT** |
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| *PS.Y.C.SP.V.1*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  No lag  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2814 (0.2507 – 0.3158)  Log pseudo-likelihood -16607.3290 (+782.319)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4147 15.1347 0.0034 329.6929 |
| *PS.Y.C.SP.SSV.1*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  No lag  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Not overdispersed (lrtest)  Alpha 0.2894 (0.2586 – 0.3240)  Log pseudo-likelihood -16607.3290 (+782.319)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4557 14.9484 0.0035 209.7491 |
| *PS.Y.C.SP.PP.1*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  No lag  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2896 (0.2581 – 0.3249)  Log pseudo-likelihood -16648.3330 (+741.315)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4067 14.8795 0.0034 249.7440 |
| *PS.Q.C.SP.V.1*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  No lag  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Not overdispersed (lrtest)  Alpha 0.3491 (0.3060 – 0.3982)  Log pseudo-likelihood -45805.4420 (+2731.92)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.4206 3.6599 0.0000 73.5632 |
| *PS.Q.C.SP.SSV.1*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  No lag  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Not overdispersed (lrtest)  Alpha 0.3562 (0.3123 – 0.4063)  Log pseudo-likelihood -45858.0830 (+2679.279)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.4292 3.6743 0.0000 65.9572 |
| *PS.Q.C.SP.PP.1*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  No lag  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Red flag (lrtest yields no p-value)  Alpha 0.3548 (0.3118 – 0.4037)  Log pseudo-likelihood -45873.5250 (+2663.837)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.4216 3.6301 0.0000 51.6464 |
| *PS.Y.C.SP.V.2*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  Lag 1  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2828 (0.2521 – 0.3172)  Log pseudo-likelihood -16615.6220 (+774.026)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4040 15.0760 0.0033 286.2152 |
| *PS.Y.C.SP.SSV.2*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Lag 1  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2902 (0.2592 – 0.3250)  Log pseudo-likelihood -16644.9580 (+744.69)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4541 14.9715 0.0035 207.3319 |
| *PS.Y.C.SP.PP.2*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Lag 1  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2915 (0.2603 – 0.3265)  Log pseudo-likelihood -16658.6170 (+731.031)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.3990 14.8162 0.0033 239.1787 |
| *PS.Q.C.SP.V.2*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  Lag 1  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.3409 (0.2975 – 0.3906)  Log pseudo-likelihood -43502.1770 (+5035.185)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.5424 3.7555 0.0001 88.8010 |
| *PS.Q.C.SP.SSV.2*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Lag 1  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Not overdispersed (lrtest)  Alpha 0.3491 (0.3063 – 0.3979)  Log pseudo-likelihood -43556.2930 (+4981.069)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.5474 3.7143 0.0000 61.1507 |
| *PS.Q.C.SP.PP.2*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Lag 1  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Red flag (lrtest yields no p-value)  Alpha 0.3490 (0.3050 – 0.3994)  Log pseudo-likelihood -43563.0910 (+4974.271)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.5467 3.7200 0.0000 66.6348 |
| *PS.Y.C.SP.V.3*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag 4  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2825 (0.2521 – 0.3166)  Log pseudo-likelihood -16612.0590 (+777.589)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.3991 15.0170 0.0033 226.0941 |
| *PS.Y.C.SP.SSV.3*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag 4  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Red flag (lrtest yields no p-value)  Alpha 0.2886 (0.2577 – 0.3233)  Log pseudo-likelihood -16637.2250 (+752.423)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4412 14.9160 0.0000 194.3401 |
| *PS.Y.C.SP.PP.3*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag 4  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Red flag (lrtest yields no p-value)  Alpha 0.2899 (0.2590 – 0.3244)  Log pseudo-likelihood -16646.6020 (+743.046)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4163 14.9319 0.0000 234.8276 |
| *PS.Q.C.SP.V.3*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag 4  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.3185 (0.2777 – 0.3651)  Log pseudo-likelihood -38439.6120 (+10097.75)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.7076 3.8510 0.0001 87.2403 |
| *PS.Q.C.SP.SSV.3*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag 4  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Not overdispersed (lrtest)  Alpha 0.3264 (0.2847 – 0.3741)  Log pseudo-likelihood -38482.6970 (+10054.67)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.7183 3.8397 0.0000 61.0882 |
| *PS.Q.C.SP.PP.3*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag 4  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.3291 (0.2848 – 0.3803)  Log pseudo-likelihood -38518.5550 (+10018.81)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.7198 3.8686 0.0000 79.3483 |
| *PS.Y.C.SP.V.4*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag From T=0  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2762 (0.2455 – 0.3109)  Log pseudo-likelihood -16575.2080 (+814.440)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.3952 14.8122 0.0032 182.7355 |
| *PS.Y.C.SP.SSV.4*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag From T=0  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2777 (0.2472 – 0.3119)  Log pseudo-likelihood -16573.0510 (+816.597)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4352 15.0055 0.0033 149.9487 |
| *PS.Y.C.SP.PP.4*  PS injury outcome  Mine-year unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag From T=0  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2816 (0.2512 – 0.3156)  Log pseudo-likelihood -16585.1880 (+804.460)  Mean SD Min Max  True 9.9767 14.8533 0 200  Predicted 10.4476 15.0141 0.0033 159.1444 |
| *PS.Q.C.SP.V.4*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # violations  Cumulative Lag From T=0  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.2879 (0.2461 – 0.3369)  Log pseudo-likelihood -33756.8400 (+14780.52)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.9221 4.1160 0.0000 52.0031 |
| *PS.Q.C.SP.SSV.4*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # sig&sub violations  Cumulative Lag From T=0  *poisson run (bad fit)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Not overdispersed (lrtest)  Alpha 0.2957 (0.2547 – 0.3433)  Log pseudo-likelihood -33747.6390 (+14789.72)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.9444 4.2093 0.0000 57.9534 |
| *PS.Q.C.SP.PP.4*  PS injury outcome  Mine-quarter unit  Count outcome variable  Subpart-level violation predictors  Predictors = # penalty points  Cumulative Lag From T=0  *poisson run (bad fit, overdispersed)*  *nbreg - GLM run (inferior log likelihood)*  *nbreg results reported* | Overdispersed (lrtest)  Alpha 0.3013 (0.2561 – 0.3545)  Log pseudo-likelihood -33835.1680 (+14702.19)  Mean SD Min Max  True 2.1778 3.8517 0 71  Predicted 2.9336 4.1086 0.0000 45.7272 |