. // Model SP.C.V.4

**. glm MR `subpart\_count\_lag\_all\_vars' `covariates' ib(freq).state ib(freq).time, family(poisson) link(log) vce(cl mineid) exposure(hours) iter(50) eform**

note: sp77\_801\_1\_c\_lag\_all omitted because of collinearity

note: sp77\_801\_c\_lag\_all omitted because of collinearity

note: sp77\_902\_2\_c\_lag\_all omitted because of collinearity

note: sp75\_705\_3\_c\_lag\_all omitted because of collinearity

note: sp48\_24\_c\_lag\_all omitted because of collinearity

note: sp48\_4\_c\_lag\_all omitted because of collinearity

note: sp75\_834\_c\_lag\_all omitted because of collinearity

note: sp77\_606\_c\_lag\_all omitted because of collinearity

note: sp75\_1438\_c\_lag\_all omitted because of collinearity

Iteration 0: log pseudolikelihood = -8943.3902

Iteration 1: log pseudolikelihood = -8357.4762

Iteration 2: log pseudolikelihood = -8351.4765

Iteration 3: log pseudolikelihood = -8351.4681

Iteration 4: log pseudolikelihood = -8351.4681

Generalized linear models No. of obs = 6,253

Optimization : ML Residual df = 5,924

Scale parameter = 1

Deviance = 7128.070439 (1/df) Deviance = 1.203253

Pearson = 7911.160705 (1/df) Pearson = 1.335442

Variance function: V(u) = u [Poisson]

Link function : g(u) = ln(u) [Log]

AIC = 2.776417

Log pseudolikelihood = -8351.468066 BIC = -44652.53

(Std. Err. adjusted for 1,238 clusters in mineid)

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| Robust

MR | IRR Std. Err. z P>|z| [95% Conf. Interval]

-----------------------+----------------------------------------------------------------

sp47\_41\_c\_lag\_all | 1.015978 .0073381 2.19 0.028 1.001697 1.030463

sp48\_11\_c\_lag\_all | .9874822 .0071584 -1.74 0.082 .9735513 1.001613

sp71\_701\_c\_lag\_all | .9376543 .0874293 -0.69 0.490 .7810422 1.12567

sp75\_1001\_1\_c\_lag\_all | .9296062 .0202123 -3.36 0.001 .8908229 .9700778

sp75\_1001\_c\_lag\_all | .9591209 .033813 -1.18 0.236 .8950863 1.027736

sp75\_1003\_1\_c\_lag\_all | .9820026 .0483413 -0.37 0.712 .8916826 1.081471

sp75\_1400\_1\_c\_lag\_all | .9387915 .0389167 -1.52 0.128 .8655325 1.018251

sp75\_1401\_1\_c\_lag\_all | .786508 .0558008 -3.38 0.001 .6844038 .9038447

sp75\_1401\_c\_lag\_all | 1.008581 .0277931 0.31 0.757 .9555523 1.064552

sp75\_1403\_11\_c\_lag\_all | .9210113 .0546229 -1.39 0.165 .8199406 1.034541

sp75\_1404\_1\_c\_lag\_all | .8291906 .0364166 -4.26 0.000 .760801 .9037277

sp75\_1405\_1\_c\_lag\_all | .94831 .0579441 -0.87 0.385 .8412785 1.068959

sp75\_1431\_c\_lag\_all | 1.172913 .140089 1.34 0.182 .9281137 1.482282

sp75\_151\_c\_lag\_all | 1.095621 .0560718 1.78 0.074 .9910544 1.211221

sp75\_1721\_c\_lag\_all | .8002677 .0517491 -3.45 0.001 .7050056 .9084019

sp75\_1731\_c\_lag\_all | 1.000427 .000347 1.23 0.218 .9997471 1.001107

sp75\_1911\_c\_lag\_all | .9971668 .001694 -1.67 0.095 .9938521 1.000493

sp75\_211\_c\_lag\_all | 1.003392 .0032091 1.06 0.290 .9971218 1.009701

sp75\_341\_c\_lag\_all | 1.072667 .0536344 1.40 0.161 .972532 1.183112

sp75\_506\_1\_c\_lag\_all | 1.062055 .011225 5.70 0.000 1.04028 1.084285

sp75\_510\_1\_c\_lag\_all | 1.224083 .1580064 1.57 0.117 .9504657 1.576468

sp75\_511\_1\_c\_lag\_all | .9811073 .0641237 -0.29 0.770 .863144 1.115192

sp75\_511\_c\_lag\_all | 1.005398 .0090248 0.60 0.549 .9878647 1.023243

sp75\_512\_1\_c\_lag\_all | .9674526 .0702297 -0.46 0.649 .8391487 1.115374

sp75\_513\_1\_c\_lag\_all | .9942702 .0224935 -0.25 0.799 .9511469 1.039349

sp75\_516\_1\_c\_lag\_all | 1.004097 .0257513 0.16 0.873 .9548732 1.055859

sp75\_517\_1\_c\_lag\_all | .9713422 .0261844 -1.08 0.281 .921354 1.024043

sp75\_518\_1\_c\_lag\_all | 1.002346 .0035319 0.66 0.506 .9954473 1.009292

sp75\_523\_1\_c\_lag\_all | 1.000648 .0045295 0.14 0.886 .99181 1.009566

sp75\_600\_1\_c\_lag\_all | 1.006289 .0261226 0.24 0.809 .9563704 1.058813

sp75\_601\_1\_c\_lag\_all | .9996715 .0018706 -0.18 0.861 .9960118 1.003345

sp75\_601\_c\_lag\_all | .999837 .0027951 -0.06 0.954 .9943738 1.00533

sp75\_700\_1\_c\_lag\_all | .9772173 .019592 -1.15 0.250 .9395624 1.016381

sp75\_701\_1\_c\_lag\_all | 1.017599 .0078433 2.26 0.024 1.002342 1.033088

sp75\_701\_c\_lag\_all | 1.000179 .0018498 0.10 0.923 .9965601 1.003811

sp75\_702\_1\_c\_lag\_all | .8831351 .0810756 -1.35 0.176 .7377058 1.057234

sp75\_703\_1\_c\_lag\_all | .8409004 .0635168 -2.29 0.022 .7251865 .9750781

sp75\_705\_1\_c\_lag\_all | .9971603 .0242809 -0.12 0.907 .9506883 1.045904

sp75\_801\_c\_lag\_all | .9971276 .035489 -0.08 0.936 .929941 1.069168

sp75\_821\_c\_lag\_all | 1.003556 .0101121 0.35 0.725 .9839314 1.023573

sp75\_831\_c\_lag\_all | 1.118718 .0401061 3.13 0.002 1.04281 1.200152

sp75\_901\_c\_lag\_all | 1.023681 .014448 1.66 0.097 .9957516 1.052394

sp75\_902\_1\_c\_lag\_all | 1.072775 .0717566 1.05 0.294 .9409639 1.223051

sp77\_1111\_c\_lag\_all | .9579254 .0390328 -1.05 0.291 .8843976 1.037566

sp77\_401\_c\_lag\_all | .9975746 .0105882 -0.23 0.819 .9770364 1.018544

sp77\_403\_1\_c\_lag\_all | .9779866 .0179271 -1.21 0.225 .9434738 1.013762

sp77\_411\_c\_lag\_all | .8818947 .0425627 -2.60 0.009 .8022973 .9693891

sp77\_501\_c\_lag\_all | 1.008671 .0148968 0.58 0.559 .979892 1.038294

sp77\_502\_1\_c\_lag\_all | 1.137616 .0850358 1.72 0.085 .9825828 1.317111

sp77\_503\_1\_c\_lag\_all | .9643574 .0352894 -0.99 0.321 .8976136 1.036064

sp77\_506\_1\_c\_lag\_all | .996374 .0046032 -0.79 0.432 .9873926 1.005437

sp77\_508\_1\_c\_lag\_all | 1.075818 .0219498 3.58 0.000 1.033646 1.119711

sp77\_511\_c\_lag\_all | 1.007876 .0212435 0.37 0.710 .9670878 1.050384

sp77\_601\_c\_lag\_all | 1.022572 .0337069 0.68 0.498 .9585968 1.090818

sp77\_606\_1\_c\_lag\_all | .919009 .0781718 -0.99 0.321 .7778857 1.085735

sp77\_700\_1\_c\_lag\_all | 1.003226 .0463398 0.07 0.944 .9163914 1.098288

sp77\_701\_1\_c\_lag\_all | 1.015314 .0229479 0.67 0.501 .9713185 1.061302

sp77\_701\_c\_lag\_all | 1.003841 .0042355 0.91 0.364 .9955737 1.012177

sp75\_811\_c\_lag\_all | 1.005927 .0063898 0.93 0.352 .993481 1.018529

sp77\_704\_1\_c\_lag\_all | 1.138332 .0722389 2.04 0.041 1.005198 1.2891

sp77\_800\_1\_c\_lag\_all | 1.065008 .0242915 2.76 0.006 1.018446 1.113699

sp77\_801\_1\_c\_lag\_all | 1 (omitted)

sp77\_801\_c\_lag\_all | 1 (omitted)

sp77\_807\_1\_c\_lag\_all | 1.066872 .0503816 1.37 0.170 .9725579 1.170332

sp77\_900\_1\_c\_lag\_all | 1.027807 .0373136 0.76 0.450 .9572144 1.103605

sp77\_901\_1\_c\_lag\_all | .7193435 .0517625 -4.58 0.000 .6247202 .8282989

sp77\_901\_c\_lag\_all | 1.003359 .0277396 0.12 0.903 .9504376 1.059228

sp47\_42\_c\_lag\_all | .9297748 .0285448 -2.37 0.018 .8754779 .9874391

sp75\_1100\_2\_c\_lag\_all | 1.001501 .0008571 1.75 0.080 .9998224 1.003182

sp75\_1102\_c\_lag\_all | .9897183 .0091727 -1.12 0.265 .9719025 1.007861

sp75\_1106\_2\_c\_lag\_all | .9877467 .0062147 -1.96 0.050 .9756409 1.000003

sp75\_1400\_2\_c\_lag\_all | .9665928 .026746 -1.23 0.219 .9155677 1.020462

sp75\_1402\_2\_c\_lag\_all | 1.167478 .1471385 1.23 0.219 .9119501 1.494606

sp75\_1432\_c\_lag\_all | .9700799 .0298565 -0.99 0.324 .9132923 1.030399

sp75\_1600\_2\_c\_lag\_all | 1.000641 .0034303 0.19 0.852 .9939398 1.007387

sp75\_1912\_c\_lag\_all | 1.023361 .0154543 1.53 0.126 .993515 1.054103

sp75\_202\_c\_lag\_all | 1.000053 .0002336 0.23 0.820 .9995954 1.000511

sp75\_212\_c\_lag\_all | 1.000273 .0055303 0.05 0.961 .9894928 1.011172

sp75\_312\_c\_lag\_all | 1.003215 .0037693 0.85 0.393 .9958546 1.01063

sp75\_342\_c\_lag\_all | .9998106 .0008516 -0.22 0.824 .9981428 1.001481

sp75\_352\_c\_lag\_all | .993604 .0074737 -0.85 0.394 .9790634 1.008361

sp75\_382\_c\_lag\_all | 1.016518 .0087516 1.90 0.057 .9995087 1.033816

sp75\_512\_2\_c\_lag\_all | .9982145 .002646 -0.67 0.500 .9930419 1.003414

sp75\_512\_c\_lag\_all | 1.001233 .0007115 1.73 0.083 .9998399 1.002629

sp75\_516\_2\_c\_lag\_all | 1.002908 .0038344 0.76 0.448 .9954207 1.010451

sp75\_523\_2\_c\_lag\_all | .9938866 .0035854 -1.70 0.089 .9868842 1.000939

sp75\_601\_2\_c\_lag\_all | .9354184 .0304709 -2.05 0.040 .8775631 .997088

sp75\_602\_c\_lag\_all | 1.004947 .0063116 0.79 0.432 .9926523 1.017394

sp75\_701\_2\_c\_lag\_all | .9702259 .0130741 -2.24 0.025 .9449365 .996192

sp75\_702\_c\_lag\_all | 1.036094 .0598374 0.61 0.539 .9252091 1.160268

sp75\_703\_2\_c\_lag\_all | .9784249 .0230552 -0.93 0.355 .9342651 1.024672

sp75\_705\_2\_c\_lag\_all | 1.411725 .1811713 2.69 0.007 1.097773 1.815464

sp75\_800\_2\_c\_lag\_all | 1.005493 .0498694 0.11 0.912 .9123516 1.108144

sp75\_802\_c\_lag\_all | .9887587 .0184003 -0.61 0.544 .9533447 1.025488

sp75\_803\_2\_c\_lag\_all | .9255491 .0989028 -0.72 0.469 .7506565 1.141189

sp75\_812\_c\_lag\_all | 1.022549 .0300755 0.76 0.448 .965269 1.083228

sp75\_832\_c\_lag\_all | .9607562 .0655834 -0.59 0.558 .8404429 1.098293

sp75\_900\_2\_c\_lag\_all | .8590784 .0290102 -4.50 0.000 .8040602 .9178612

sp75\_902\_2\_c\_lag\_all | 1.003478 .0045356 0.77 0.442 .9946272 1.012407

sp75\_902\_c\_lag\_all | .9961368 .0028087 -1.37 0.170 .990647 1.001657

sp77\_1112\_c\_lag\_all | .9992208 .0189313 -0.04 0.967 .9627965 1.037023

sp77\_1432\_c\_lag\_all | .9269117 .0353352 -1.99 0.046 .8601801 .9988203

sp77\_1802\_c\_lag\_all | .9800297 .0554484 -0.36 0.721 .8771618 1.094961

sp77\_202\_c\_lag\_all | .9981827 .0023185 -0.78 0.434 .9936488 1.002737

sp77\_402\_c\_lag\_all | .995928 .0058655 -0.69 0.488 .9844979 1.007491

sp77\_403\_2\_c\_lag\_all | .9149135 .1941153 -0.42 0.675 .6036461 1.386685

sp77\_412\_c\_lag\_all | .9908657 .0145941 -0.62 0.533 .9626707 1.019886

sp77\_502\_2\_c\_lag\_all | 1.026286 .0095673 2.78 0.005 1.007704 1.045209

sp77\_502\_c\_lag\_all | .9983271 .001198 -1.40 0.163 .9959818 1.000678

sp77\_512\_c\_lag\_all | .9954165 .0039325 -1.16 0.245 .9877386 1.003154

sp77\_602\_c\_lag\_all | 1.073554 .0499513 1.53 0.127 .9799827 1.17606

sp77\_701\_2\_c\_lag\_all | .9737186 .0176205 -1.47 0.141 .9397883 1.008874

sp77\_702\_c\_lag\_all | .6971067 .0542516 -4.64 0.000 .5984879 .8119758

sp77\_800\_2\_c\_lag\_all | .9811512 .0171201 -1.09 0.275 .9481638 1.015286

sp77\_802\_c\_lag\_all | 1.05749 .0689942 0.86 0.392 .9305524 1.201742

sp77\_807\_2\_c\_lag\_all | 1.003855 .0246738 0.16 0.876 .9566412 1.053398

sp77\_900\_2\_c\_lag\_all | 1.019603 .0199005 0.99 0.320 .9813351 1.059363

sp77\_902\_2\_c\_lag\_all | 1 (omitted)

sp77\_902\_c\_lag\_all | .9838133 .0173005 -0.93 0.353 .9504826 1.018313

sp47\_43\_c\_lag\_all | .8641208 .084762 -1.49 0.137 .7129839 1.047296

sp72\_503\_c\_lag\_all | 1.000344 .0099783 0.03 0.972 .980977 1.020094

sp75\_1106\_3\_c\_lag\_all | 1.001286 .0018602 0.69 0.489 .9976467 1.004939

sp75\_1400\_3\_c\_lag\_all | .9998961 .0100586 -0.01 0.992 .9803747 1.019806

sp75\_1403\_3\_c\_lag\_all | .8813709 .0437232 -2.55 0.011 .7997094 .9713713

sp75\_1433\_c\_lag\_all | .9817192 .0146484 -1.24 0.216 .9534246 1.010853

sp75\_153\_c\_lag\_all | 1.049915 .0857131 0.60 0.551 .8946718 1.232097

sp75\_1903\_c\_lag\_all | 1.00497 .0043764 1.14 0.255 .9964285 1.013584

sp75\_1913\_c\_lag\_all | .9997684 .0064626 -0.04 0.971 .9871817 1.012516

sp75\_503\_c\_lag\_all | .9998345 .0003749 -0.44 0.659 .9990999 1.00057

sp75\_513\_c\_lag\_all | .9937516 .0118349 -0.53 0.599 .9708242 1.01722

sp75\_523\_c\_lag\_all | 1.003481 .0037065 0.94 0.347 .9962422 1.010772

sp75\_601\_3\_c\_lag\_all | 1.059128 .0363781 1.67 0.094 .9901752 1.132882

sp75\_603\_c\_lag\_all | .9980645 .0087224 -0.22 0.825 .9811145 1.015307

sp75\_701\_3\_c\_lag\_all | 1.011031 .0109817 1.01 0.312 .9897348 1.032786

sp75\_703\_3\_c\_lag\_all | 1.013451 .0091363 1.48 0.138 .9957011 1.031517

sp75\_703\_c\_lag\_all | 1.005993 .0058198 1.03 0.302 .9946507 1.017464

sp75\_705\_3\_c\_lag\_all | 1 (omitted)

sp75\_800\_3\_c\_lag\_all | .9961592 .0161275 -0.24 0.812 .965046 1.028275

sp75\_803\_c\_lag\_all | .9902255 .0131395 -0.74 0.459 .9648045 1.016316

sp75\_900\_3\_c\_lag\_all | .9935412 .0090858 -0.71 0.479 .9758919 1.01151

sp75\_903\_c\_lag\_all | 1.00278 .0052322 0.53 0.595 .992577 1.013087

sp77\_103\_c\_lag\_all | 1.057739 .0673426 0.88 0.378 .9336531 1.198317

sp77\_1103\_c\_lag\_all | 1.002083 .002383 0.87 0.382 .9974232 1.006764

sp77\_1403\_c\_lag\_all | 1.005677 .0217367 0.26 0.793 .9639632 1.049195

sp77\_1433\_c\_lag\_all | .9842788 .0268781 -0.58 0.562 .9329837 1.038394

sp77\_203\_c\_lag\_all | .9757657 .0191135 -1.25 0.210 .939014 1.013956

sp77\_403\_c\_lag\_all | .9783958 .0329472 -0.65 0.517 .9159054 1.04515

sp77\_413\_c\_lag\_all | 1.031774 .0250321 1.29 0.197 .9838598 1.082021

sp77\_503\_c\_lag\_all | 1.00946 .0207342 0.46 0.647 .9696288 1.050927

sp77\_513\_c\_lag\_all | 1.003741 .0043802 0.86 0.392 .9951921 1.012363

sp77\_603\_c\_lag\_all | 1.029698 .038301 0.79 0.431 .9573003 1.10757

sp77\_703\_c\_lag\_all | .8076628 .0587372 -2.94 0.003 .7003684 .9313943

sp77\_803\_c\_lag\_all | 1.078078 .049962 1.62 0.105 .9844695 1.180587

sp77\_807\_3\_c\_lag\_all | 1.078414 .0654768 1.24 0.214 .9574233 1.214694

sp77\_903\_c\_lag\_all | 1.006469 .0418811 0.15 0.877 .9276421 1.091995

sp47\_44\_c\_lag\_all | .9767234 .0085356 -2.70 0.007 .9601364 .9935969

sp48\_24\_c\_lag\_all | 1 (omitted)

sp48\_4\_c\_lag\_all | 1 (omitted)

sp75\_1103\_4\_c\_lag\_all | 1.000184 .0015771 0.12 0.907 .9970981 1.00328

sp75\_1104\_c\_lag\_all | .9970521 .0042037 -0.70 0.484 .9888469 1.005325

sp75\_1106\_4\_c\_lag\_all | 1.001784 .0148881 0.12 0.905 .9730246 1.031393

sp75\_1107\_14\_c\_lag\_all | 1.348125 .115511 3.49 0.000 1.139717 1.594643

sp75\_1400\_4\_c\_lag\_all | .9855158 .01453 -0.99 0.322 .957445 1.01441

sp75\_1403\_4\_c\_lag\_all | 1.129462 .0646705 2.13 0.033 1.009564 1.2636

sp75\_1404\_c\_lag\_all | .9987676 .050734 -0.02 0.981 .9041205 1.103323

sp75\_1434\_c\_lag\_all | .9982334 .0118103 -0.15 0.881 .975352 1.021652

sp75\_1914\_c\_lag\_all | 1.000107 .000774 0.14 0.890 .9985913 1.001625

sp75\_214\_c\_lag\_all | .9959373 .005226 -0.78 0.438 .9857471 1.006233

sp75\_324\_c\_lag\_all | .9912615 .0118712 -0.73 0.464 .9682653 1.014804

sp75\_344\_c\_lag\_all | .9930499 .0134852 -0.51 0.608 .966968 1.019835

sp75\_504\_c\_lag\_all | .9944198 .0138174 -0.40 0.687 .9677037 1.021874

sp75\_514\_c\_lag\_all | 1.00089 .002658 0.33 0.738 .9956937 1.006113

sp75\_604\_c\_lag\_all | 1.000875 .0006497 1.35 0.178 .9996024 1.002149

sp75\_701\_4\_c\_lag\_all | 1.050046 .045231 1.13 0.257 .9650341 1.142547

sp75\_703\_4\_c\_lag\_all | 1.095414 .0580821 1.72 0.086 .9872905 1.215378

sp75\_704\_c\_lag\_all | .8891584 .0363718 -2.87 0.004 .8206538 .9633814

sp75\_800\_4\_c\_lag\_all | 1.001407 .0139437 0.10 0.920 .9744471 1.029112

sp75\_814\_c\_lag\_all | .9846267 .01711 -0.89 0.373 .9516564 1.018739

sp75\_834\_c\_lag\_all | 1 (omitted)

sp75\_900\_4\_c\_lag\_all | .9968264 .0034181 -0.93 0.354 .9901495 1.003548

sp75\_902\_4\_c\_lag\_all | 1.012532 .0073466 1.72 0.086 .9982351 1.027034

sp75\_904\_c\_lag\_all | 1.002386 .0010682 2.24 0.025 1.000295 1.004482

sp77\_104\_c\_lag\_all | .9247189 .0789136 -0.92 0.359 .782294 1.093074

sp77\_1104\_c\_lag\_all | .9999697 .00114 -0.03 0.979 .9977379 1.002207

sp77\_1434\_c\_lag\_all | 1.014902 .0336986 0.45 0.656 .9509568 1.083146

sp77\_204\_c\_lag\_all | .994824 .0053235 -0.97 0.332 .9844447 1.005313

sp77\_314\_c\_lag\_all | 1.158734 .1369023 1.25 0.212 .9192127 1.460669

sp77\_404\_c\_lag\_all | .9988529 .0011357 -1.01 0.313 .9966294 1.001081

sp77\_504\_c\_lag\_all | .9901469 .0062765 -1.56 0.118 .9779213 1.002525

sp77\_514\_c\_lag\_all | .9804083 .0198464 -0.98 0.328 .9422715 1.020089

sp77\_604\_c\_lag\_all | .9689757 .0215145 -1.42 0.156 .9277124 1.012074

sp75\_804\_c\_lag\_all | .9778076 .0073204 -3.00 0.003 .9635647 .9922611

sp77\_704\_c\_lag\_all | 1.018831 .0802151 0.24 0.813 .8731417 1.188828

sp77\_804\_c\_lag\_all | .9678271 .0415519 -0.76 0.446 .8897192 1.052792

sp77\_904\_c\_lag\_all | .9923312 .0048091 -1.59 0.112 .9829501 1.001802

sp48\_25\_c\_lag\_all | 1.017464 .0148437 1.19 0.235 .9887833 1.046977

sp48\_5\_c\_lag\_all | 1.041862 .0172305 2.48 0.013 1.008633 1.076187

sp75\_1106\_5\_c\_lag\_all | .9890286 .0063137 -1.73 0.084 .9767311 1.001481

sp75\_1403\_5\_c\_lag\_all | .9982674 .0007555 -2.29 0.022 .9967879 .9997492

sp75\_1405\_c\_lag\_all | .9946338 .0026147 -2.05 0.041 .9895221 .9997718

sp75\_1435\_c\_lag\_all | 1.020765 .0343499 0.61 0.541 .9556124 1.090359

sp75\_155\_c\_lag\_all | .9213787 .059755 -1.26 0.207 .8113989 1.046266

sp75\_1725\_c\_lag\_all | 1.000531 .0005185 1.02 0.306 .999515 1.001547

sp75\_1915\_c\_lag\_all | .9898599 .014674 -0.69 0.492 .9615132 1.019042

sp75\_505\_c\_lag\_all | 1.041633 .0242635 1.75 0.080 .9951467 1.090291

sp75\_515\_c\_lag\_all | .996867 .0014889 -2.10 0.036 .9939531 .9997894

sp75\_605\_c\_lag\_all | 1.003453 .002876 1.20 0.229 .9978315 1.009105

sp75\_705\_c\_lag\_all | 1.044058 .0457056 0.98 0.325 .9582122 1.137595

sp75\_815\_c\_lag\_all | .9836879 .0133238 -1.21 0.225 .9579173 1.010152

sp75\_825\_c\_lag\_all | .973547 .0204828 -1.27 0.203 .9342179 1.014532

sp75\_905\_c\_lag\_all | .9189572 .0247767 -3.13 0.002 .8716565 .9688246

sp77\_1605\_c\_lag\_all | .9998199 .0013395 -0.13 0.893 .997198 1.002449

sp77\_1915\_c\_lag\_all | .9495629 .0210464 -2.33 0.020 .909196 .9917221

sp77\_205\_c\_lag\_all | .9985516 .0012193 -1.19 0.235 .9961646 1.000944

sp77\_305\_c\_lag\_all | .6575656 .0675125 -4.08 0.000 .5377073 .804141

sp77\_315\_c\_lag\_all | 1.011799 .1764531 0.07 0.946 .7188676 1.424098

sp77\_405\_c\_lag\_all | .9734862 .0142589 -1.83 0.067 .9459366 1.001838

sp77\_505\_c\_lag\_all | 1.000888 .0035085 0.25 0.800 .9940353 1.007789

sp77\_515\_c\_lag\_all | 1.009654 .0531652 0.18 0.855 .9106484 1.119423

sp77\_605\_c\_lag\_all | .8419143 .0581151 -2.49 0.013 .7353797 .9638825

sp75\_805\_c\_lag\_all | 1.031072 .0221404 1.42 0.154 .988578 1.075392

sp77\_705\_c\_lag\_all | .9883535 .011805 -0.98 0.327 .9654848 1.011764

sp77\_805\_c\_lag\_all | .8798284 .0559294 -2.01 0.044 .7767626 .9965695

sp48\_26\_c\_lag\_all | 1.013385 .0110321 1.22 0.222 .9919912 1.035239

sp48\_6\_c\_lag\_all | 1.005175 .0086413 0.60 0.548 .9883798 1.022255

sp75\_1106\_6\_c\_lag\_all | 1.08712 .1121102 0.81 0.418 .8881706 1.330633

sp75\_1106\_c\_lag\_all | 1.026696 .0165404 1.64 0.102 .9947842 1.059632

sp75\_1403\_6\_c\_lag\_all | .9998495 .0010234 -0.15 0.883 .9978456 1.001857

sp75\_1436\_c\_lag\_all | 1.08227 .0971855 0.88 0.379 .9076104 1.29054

sp75\_156\_c\_lag\_all | .8682576 .0648273 -1.89 0.058 .7500579 1.005084

sp75\_1712\_6\_c\_lag\_all | .9937222 .0066854 -0.94 0.349 .9807052 1.006912

sp75\_1726\_c\_lag\_all | 1.043858 .0178524 2.51 0.012 1.009448 1.079442

sp75\_506\_c\_lag\_all | .9968132 .0088594 -0.36 0.719 .9795995 1.014329

sp75\_516\_c\_lag\_all | .9964677 .0021477 -1.64 0.101 .9922671 1.000686

sp75\_606\_c\_lag\_all | 1.000479 .0009687 0.49 0.621 .9985824 1.00238

sp75\_706\_c\_lag\_all | .9750538 .0118603 -2.08 0.038 .9520828 .9985789

sp75\_816\_c\_lag\_all | .9921128 .0038753 -2.03 0.043 .9845464 .9997375

sp77\_1106\_c\_lag\_all | 1.085722 .0677682 1.32 0.188 .9607024 1.227012

sp77\_1606\_c\_lag\_all | 1.000555 .0016902 0.33 0.743 .9972474 1.003873

sp77\_1906\_c\_lag\_all | 1.076708 .0361743 2.20 0.028 1.008092 1.149995

sp77\_1916\_c\_lag\_all | 1.015752 .0252102 0.63 0.529 .9675231 1.066384

sp77\_206\_c\_lag\_all | 1.007732 .008347 0.93 0.352 .9915048 1.024226

sp77\_216\_c\_lag\_all | 1.001711 .0053023 0.32 0.747 .9913722 1.012157

sp77\_506\_c\_lag\_all | .9918233 .0049786 -1.64 0.102 .9821132 1.001629

sp77\_516\_c\_lag\_all | 1.000133 .0018666 0.07 0.943 .9964807 1.003798

sp77\_606\_c\_lag\_all | 1 (omitted)

sp75\_806\_c\_lag\_all | 1.100594 .0297253 3.55 0.000 1.043849 1.160424

sp77\_906\_c\_lag\_all | .5469381 .1222915 -2.70 0.007 .3528706 .8477364

sp48\_27\_c\_lag\_all | .9890115 .0137955 -0.79 0.428 .9623391 1.016423

sp48\_7\_c\_lag\_all | 1.015042 .010909 1.39 0.165 .9938847 1.03665

sp75\_1403\_7\_c\_lag\_all | .9877915 .0058516 -2.07 0.038 .9763888 .9993273

sp75\_1437\_c\_lag\_all | 1.022566 .046849 0.49 0.626 .9347451 1.118637

sp75\_1727\_c\_lag\_all | 1.042424 .0324817 1.33 0.182 .980666 1.108071

sp75\_337\_c\_lag\_all | 1.007005 .0050864 1.38 0.167 .9970852 1.017024

sp75\_507\_c\_lag\_all | 1.001973 .0082642 0.24 0.811 .9859054 1.018302

sp75\_517\_c\_lag\_all | .9998166 .0004714 -0.39 0.697 .9988932 1.000741

sp75\_607\_c\_lag\_all | .986523 .0067041 -2.00 0.046 .9734703 .9997508

sp75\_827\_c\_lag\_all | .9859675 .024764 -0.56 0.574 .9386062 1.035719

sp75\_907\_c\_lag\_all | .9853238 .0074739 -1.95 0.051 .9707835 1.000082

sp77\_1437\_c\_lag\_all | .9351943 .0283325 -2.21 0.027 .8812802 .9924067

sp77\_207\_c\_lag\_all | 1.006893 .0050128 1.38 0.168 .997116 1.016766

sp77\_507\_c\_lag\_all | .9891169 .0166686 -0.65 0.516 .9569806 1.022332

sp75\_807\_c\_lag\_all | 1.000182 .0012985 0.14 0.889 .9976397 1.00273

sp77\_807\_c\_lag\_all | .9749825 .0246133 -1.00 0.316 .9279153 1.024437

sp48\_28\_c\_lag\_all | .9754543 .0143237 -1.69 0.091 .9477806 1.003936

sp48\_8\_c\_lag\_all | 1.02679 .0129221 2.10 0.036 1.001773 1.052432

sp75\_1403\_8\_c\_lag\_all | 1.000625 .0008698 0.72 0.473 .9989214 1.002331

sp75\_1438\_c\_lag\_all | 1 (omitted)

sp75\_1728\_c\_lag\_all | 1.041553 .0529972 0.80 0.424 .9426916 1.150781

sp75\_208\_c\_lag\_all | .996938 .002351 -1.30 0.193 .9923407 1.001556

sp75\_518\_c\_lag\_all | 1.000182 .0024683 0.07 0.941 .9953559 1.005031

sp75\_705\_8\_c\_lag\_all | .8851779 .0576098 -1.87 0.061 .7791697 1.005609

sp75\_818\_c\_lag\_all | 1.041758 .0295517 1.44 0.149 .9854189 1.101319

sp77\_1438\_c\_lag\_all | .938152 .1233665 -0.49 0.627 .7250043 1.213964

sp77\_208\_c\_lag\_all | 1.004787 .0023346 2.06 0.040 1.000222 1.009374

sp77\_408\_c\_lag\_all | 1.026453 .0216014 1.24 0.215 .9849765 1.069677

sp77\_508\_c\_lag\_all | .9953172 .0147387 -0.32 0.751 .9668451 1.024628

sp75\_808\_c\_lag\_all | .9954535 .0141391 -0.32 0.748 .9681235 1.023555

sp77\_704\_8\_c\_lag\_all | 1.032461 .0277337 1.19 0.234 .9795101 1.088275

sp77\_808\_c\_lag\_all | 1.021517 .048975 0.44 0.657 .9299002 1.122161

sp75\_1403\_9\_c\_lag\_all | .9954558 .0058537 -0.77 0.439 .9840486 1.006995

sp75\_1729\_c\_lag\_all | .8980569 .0267141 -3.61 0.000 .8471953 .951972

sp75\_1909\_c\_lag\_all | 1.000557 .0007544 0.74 0.460 .99908 1.002037

sp75\_519\_c\_lag\_all | .9659636 .061129 -0.55 0.584 .8532852 1.093521

sp75\_819\_c\_lag\_all | .9189843 .0778686 -1.00 0.319 .7783644 1.085009

sp77\_309\_c\_lag\_all | .7508965 .0715522 -3.01 0.003 .622974 .9050867

sp77\_409\_c\_lag\_all | .9907946 .0277116 -0.33 0.741 .9379428 1.046624

sp77\_509\_c\_lag\_all | .9929846 .0082835 -0.84 0.399 .9768812 1.009353

sp75\_809\_c\_lag\_all | .9926062 .0059847 -1.23 0.218 .9809454 1.004406

sp77\_704\_9\_c\_lag\_all | .8038965 .0693161 -2.53 0.011 .6788989 .9519084

sp77\_809\_c\_lag\_all | .9947938 .0120424 -0.43 0.666 .971469 1.018679

sp72\_610\_c\_lag\_all | .9437198 .0721189 -0.76 0.448 .8124458 1.096205

sp72\_620\_c\_lag\_all | 1.010503 .0438853 0.24 0.810 .9280481 1.100283

sp72\_630\_c\_lag\_all | .9988063 .0013893 -0.86 0.391 .9960871 1.001533

sp75\_100\_c\_lag\_all | 1.04372 .0298243 1.50 0.134 .9868717 1.103842

sp75\_1101\_20\_c\_lag\_all | .9840841 .0252528 -0.63 0.532 .9358137 1.034844

sp75\_1400\_c\_lag\_all | .9931188 .0083793 -0.82 0.413 .9768308 1.009678

sp75\_1403\_10\_c\_lag\_all | 1.004292 .0019401 2.22 0.027 1.000497 1.008102

sp75\_150\_c\_lag\_all | 1.027296 .0326601 0.85 0.397 .9652372 1.093345

sp75\_160\_c\_lag\_all | .9201143 .0584156 -1.31 0.190 .8124586 1.042035

sp75\_1712\_10\_c\_lag\_all | .9808228 .0103654 -1.83 0.067 .960716 1.00135

sp75\_1720\_c\_lag\_all | 1.004146 .0076991 0.54 0.589 .9891688 1.01935

sp75\_1730\_c\_lag\_all | .9868931 .0092431 -1.41 0.159 .9689422 1.005177

sp75\_1910\_c\_lag\_all | 1.000669 .0011317 0.59 0.554 .9984536 1.00289

sp75\_320\_c\_lag\_all | .9928815 .0030911 -2.29 0.022 .9868414 .9989585

sp75\_340\_c\_lag\_all | 1.001654 .0012273 1.35 0.177 .9992514 1.004062

sp75\_520\_c\_lag\_all | 1.002949 .0044012 0.67 0.502 .9943597 1.011612

sp75\_600\_c\_lag\_all | .946267 .0411918 -1.27 0.205 .8688807 1.030546

sp75\_700\_c\_lag\_all | 1.001913 .0052765 0.36 0.717 .9916249 1.012309

sp75\_800\_c\_lag\_all | 1.020177 .015647 1.30 0.193 .9899657 1.05131

sp75\_820\_c\_lag\_all | 1.062876 .0252298 2.57 0.010 1.01456 1.113494

sp75\_900\_c\_lag\_all | 1.001999 .0032661 0.61 0.540 .9956183 1.008421

sp77\_1710\_c\_lag\_all | .9959123 .0038544 -1.06 0.290 .9883863 1.003496

sp77\_200\_c\_lag\_all | 1.005829 .0018379 3.18 0.001 1.002234 1.009438

sp77\_210\_c\_lag\_all | 1.015449 .0105682 1.47 0.141 .9949451 1.036375

sp77\_400\_c\_lag\_all | 1.001708 .0015154 1.13 0.259 .998742 1.004682

sp77\_410\_c\_lag\_all | 1.001607 .0020367 0.79 0.430 .9976225 1.005606

sp77\_500\_c\_lag\_all | .9475721 .0269372 -1.89 0.058 .89622 1.001867

sp77\_510\_c\_lag\_all | .9986048 .043541 -0.03 0.974 .9168108 1.087696

sp77\_600\_c\_lag\_all | .9777321 .0242841 -0.91 0.365 .9312761 1.026505

sp77\_700\_c\_lag\_all | 1.036775 .0180256 2.08 0.038 1.002041 1.072714

sp75\_810\_c\_lag\_all | 1.012445 .0062949 1.99 0.047 1.000182 1.024858

sp77\_800\_c\_lag\_all | .962268 .034435 -1.07 0.282 .8970891 1.032182

sp77\_810\_c\_lag\_all | .978134 .0228454 -0.95 0.344 .9343672 1.023951

sp77\_900\_c\_lag\_all | 1.001301 .0218581 0.06 0.953 .959363 1.045071

mine\_time | .989769 .010493 -0.97 0.332 .9694153 1.01055

onsite\_insp\_hours | 1.000006 .0000369 0.15 0.879 .9999333 1.000078

|

state |

1 | 1.202146 .3000856 0.74 0.461 .7370149 1.960823

2 | 2.118579 .1823978 8.72 0.000 1.78962 2.508005

3 | .8307802 .1589171 -0.97 0.332 .5710349 1.208675

4 | 1.062455 .1118368 0.58 0.565 .864392 1.305901

5 | .7068264 .1153219 -2.13 0.033 .5133758 .9731731

6 | .8767252 .053251 -2.17 0.030 .7783282 .9875616

7 | .9995179 .2825845 -0.00 0.999 .5742993 1.739574

8 | .7185336 .1333253 -1.78 0.075 .499465 1.033687

9 | .4491104 .1987988 -1.81 0.071 .1886117 1.069394

10 | .7265897 .1241251 -1.87 0.062 .5198481 1.015552

11 | 1.036613 .42164 0.09 0.930 .4670813 2.300599

12 | 1.115351 .104895 1.16 0.246 .9275963 1.34111

13 | 1.287578 .2054221 1.58 0.113 .9418278 1.760255

14 | .7109637 .0960594 -2.52 0.012 .5455572 .9265195

15 | .7738881 .057147 -3.47 0.001 .6696102 .8944052

17 | .6227527 .2646501 -1.11 0.265 .2707585 1.43235

|

time |

2000 | 1.080868 .0625903 1.34 0.179 .9648988 1.210775

2002 | .9876379 .0540778 -0.23 0.820 .8871365 1.099525

2003 | .8791378 .0574468 -1.97 0.049 .773456 .9992595

2004 | .9381951 .0631621 -0.95 0.343 .8222194 1.070529

2005 | .842485 .0575765 -2.51 0.012 .7368684 .9632398

2006 | .8281953 .0597871 -2.61 0.009 .7189272 .9540709

2007 | .7480262 .0551858 -3.94 0.000 .6473202 .8643992

2008 | .6636294 .0493346 -5.52 0.000 .5736497 .7677227

2009 | .6046885 .0461353 -6.59 0.000 .520701 .7022229

2010 | .5903605 .0477305 -6.52 0.000 .503846 .6917302

2011 | .5957775 .0481378 -6.41 0.000 .5085205 .698007

2012 | .5830563 .0515531 -6.10 0.000 .4902846 .6933822

2013 | .5213762 .0485879 -6.99 0.000 .4343365 .6258585

2014 | .4749448 .0475848 -7.43 0.000 .3902663 .5779965

2015 | .4687733 .051306 -6.92 0.000 .3782692 .5809312

|

\_cons | .000016 1.01e-06 -173.86 0.000 .0000141 .0000181

ln(hours) | 1 (exposure)

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**. estat gof**

Deviance goodness-of-fit = 7128.07

Prob > chi2(5924) = 0.0000

Pearson goodness-of-fit = 7911.161

Prob > chi2(5924) = 0.0000

**. glm MR `subpart\_count\_lag\_all\_vars' `covariates' ib(freq).state ib(freq).time, family(nbinomial) link(log) vce(cl mineid) exposure(hours) iter(50) eform**

note: sp77\_801\_1\_c\_lag\_all omitted because of collinearity

note: sp77\_801\_c\_lag\_all omitted because of collinearity

note: sp77\_902\_2\_c\_lag\_all omitted because of collinearity

note: sp75\_705\_3\_c\_lag\_all omitted because of collinearity

note: sp48\_24\_c\_lag\_all omitted because of collinearity

note: sp48\_4\_c\_lag\_all omitted because of collinearity

note: sp75\_834\_c\_lag\_all omitted because of collinearity

note: sp77\_606\_c\_lag\_all omitted because of collinearity

note: sp75\_1438\_c\_lag\_all omitted because of collinearity

Iteration 0: log pseudolikelihood = -9133.5313

Iteration 1: log pseudolikelihood = -8957.6737

Iteration 2: log pseudolikelihood = -8956.2235

Iteration 3: log pseudolikelihood = -8956.2215

Iteration 4: log pseudolikelihood = -8956.2215

Generalized linear models No. of obs = 6,253

Optimization : ML Residual df = 5,924

Scale parameter = 1

Deviance = 3598.680626 (1/df) Deviance = .6074748

Pearson = 3880.592313 (1/df) Pearson = .6550628

Variance function: V(u) = u+(1)u^2 [Neg. Binomial]

Link function : g(u) = ln(u) [Log]

AIC = 2.969845

Log pseudolikelihood = -8956.221488 BIC = -48181.92

(Std. Err. adjusted for 1,238 clusters in mineid)

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| Robust

MR | IRR Std. Err. z P>|z| [95% Conf. Interval]

-----------------------+----------------------------------------------------------------

sp47\_41\_c\_lag\_all | 1.012012 .0092357 1.31 0.191 .9940718 1.030277

sp48\_11\_c\_lag\_all | .9841202 .0099739 -1.58 0.114 .9647646 1.003864

sp71\_701\_c\_lag\_all | .9028593 .1036093 -0.89 0.373 .721006 1.13058

sp75\_1001\_1\_c\_lag\_all | .9311643 .022867 -2.90 0.004 .8874074 .9770788

sp75\_1001\_c\_lag\_all | .9614644 .0457803 -0.83 0.409 .8757963 1.055512

sp75\_1003\_1\_c\_lag\_all | 1.015493 .0572618 0.27 0.785 .9092416 1.134161

sp75\_1400\_1\_c\_lag\_all | .9737438 .0521533 -0.50 0.619 .8767075 1.08152

sp75\_1401\_1\_c\_lag\_all | .7892307 .090589 -2.06 0.039 .6302341 .9883394

sp75\_1401\_c\_lag\_all | 1.017982 .0396349 0.46 0.647 .9431895 1.098706

sp75\_1403\_11\_c\_lag\_all | .932988 .0960053 -0.67 0.500 .7625823 1.141472

sp75\_1404\_1\_c\_lag\_all | .8443273 .0647893 -2.21 0.027 .7264305 .9813583

sp75\_1405\_1\_c\_lag\_all | 1.048218 .0841142 0.59 0.557 .8956678 1.22675

sp75\_1431\_c\_lag\_all | 1.338749 .2505293 1.56 0.119 .9277007 1.931925

sp75\_151\_c\_lag\_all | 1.099197 .0717058 1.45 0.147 .9672699 1.249118

sp75\_1721\_c\_lag\_all | .7903965 .0520996 -3.57 0.000 .6946043 .8993994

sp75\_1731\_c\_lag\_all | 1.000058 .0004434 0.13 0.897 .9991889 1.000927

sp75\_1911\_c\_lag\_all | .9958651 .0021832 -1.89 0.059 .9915953 1.000153

sp75\_211\_c\_lag\_all | 1.008149 .0041655 1.96 0.050 1.000018 1.016346

sp75\_341\_c\_lag\_all | 1.115833 .0657071 1.86 0.063 .9942033 1.252342

sp75\_506\_1\_c\_lag\_all | 1.050867 .0122252 4.26 0.000 1.027177 1.075103

sp75\_510\_1\_c\_lag\_all | 1.147488 .1765012 0.89 0.371 .8488289 1.551229

sp75\_511\_1\_c\_lag\_all | 1.003611 .0673435 0.05 0.957 .8799317 1.144675

sp75\_511\_c\_lag\_all | 1.001371 .0099551 0.14 0.890 .9820485 1.021074

sp75\_512\_1\_c\_lag\_all | .9606084 .0832994 -0.46 0.643 .810465 1.138567

sp75\_513\_1\_c\_lag\_all | .9879653 .0260375 -0.46 0.646 .9382284 1.040339

sp75\_516\_1\_c\_lag\_all | .9882086 .0262977 -0.45 0.656 .9379871 1.041119

sp75\_517\_1\_c\_lag\_all | .9718942 .0395384 -0.70 0.483 .8974093 1.052561

sp75\_518\_1\_c\_lag\_all | 1.003086 .0040802 0.76 0.449 .9951209 1.011115

sp75\_523\_1\_c\_lag\_all | 1.003775 .0053462 0.71 0.479 .9933509 1.014308

sp75\_600\_1\_c\_lag\_all | .9696673 .0310746 -0.96 0.336 .9106354 1.032526

sp75\_601\_1\_c\_lag\_all | .9995681 .0022683 -0.19 0.849 .9951323 1.004024

sp75\_601\_c\_lag\_all | .9980557 .0036389 -0.53 0.593 .990949 1.005213

sp75\_700\_1\_c\_lag\_all | .9708723 .0197724 -1.45 0.147 .9328824 1.010409

sp75\_701\_1\_c\_lag\_all | 1.020849 .0097878 2.15 0.031 1.001845 1.040214

sp75\_701\_c\_lag\_all | 1.000252 .0022006 0.11 0.909 .9959487 1.004575

sp75\_702\_1\_c\_lag\_all | .9418815 .082199 -0.69 0.493 .7937998 1.117587

sp75\_703\_1\_c\_lag\_all | .8402488 .0660253 -2.22 0.027 .7203142 .980153

sp75\_705\_1\_c\_lag\_all | 1.000564 .0331272 0.02 0.986 .9376981 1.067645

sp75\_801\_c\_lag\_all | .9580365 .0376583 -1.09 0.275 .8869992 1.034763

sp75\_821\_c\_lag\_all | .9941936 .0124727 -0.46 0.643 .9700456 1.018943

sp75\_831\_c\_lag\_all | 1.104696 .0470097 2.34 0.019 1.016296 1.200784

sp75\_901\_c\_lag\_all | 1.021076 .0160212 1.33 0.184 .990153 1.052965

sp75\_902\_1\_c\_lag\_all | .9939151 .0811969 -0.07 0.940 .8468592 1.166507

sp77\_1111\_c\_lag\_all | .9742622 .0389512 -0.65 0.514 .9008338 1.053676

sp77\_401\_c\_lag\_all | .9852856 .0110025 -1.33 0.184 .9639554 1.007088

sp77\_403\_1\_c\_lag\_all | 1.006782 .0196362 0.35 0.729 .9690224 1.046013

sp77\_411\_c\_lag\_all | .8380727 .0322392 -4.59 0.000 .7772084 .9037033

sp77\_501\_c\_lag\_all | 1.010849 .0190986 0.57 0.568 .9741012 1.048983

sp77\_502\_1\_c\_lag\_all | 1.107571 .0880846 1.28 0.199 .9477114 1.294397

sp77\_503\_1\_c\_lag\_all | .9098532 .041099 -2.09 0.036 .8327634 .9940792

sp77\_506\_1\_c\_lag\_all | .9972753 .0062397 -0.44 0.663 .9851204 1.00958

sp77\_508\_1\_c\_lag\_all | 1.06561 .0260436 2.60 0.009 1.015769 1.117897

sp77\_511\_c\_lag\_all | .9811175 .0253335 -0.74 0.460 .9327004 1.032048

sp77\_601\_c\_lag\_all | .9882326 .0421005 -0.28 0.781 .9090682 1.074291

sp77\_606\_1\_c\_lag\_all | .950511 .1043807 -0.46 0.644 .766447 1.178778

sp77\_700\_1\_c\_lag\_all | 1.005097 .0505231 0.10 0.919 .9107956 1.109163

sp77\_701\_1\_c\_lag\_all | 1.030526 .0257356 1.20 0.229 .9812995 1.082222

sp77\_701\_c\_lag\_all | 1.0036 .0057116 0.63 0.528 .9924679 1.014857

sp75\_811\_c\_lag\_all | 1.007656 .0080002 0.96 0.337 .9920972 1.023459

sp77\_704\_1\_c\_lag\_all | 1.241574 .1043019 2.58 0.010 1.053089 1.463795

sp77\_800\_1\_c\_lag\_all | 1.077561 .031006 2.60 0.009 1.018473 1.140078

sp77\_801\_1\_c\_lag\_all | 1 (omitted)

sp77\_801\_c\_lag\_all | 1 (omitted)

sp77\_807\_1\_c\_lag\_all | 1.058889 .0601431 1.01 0.314 .9473356 1.183579

sp77\_900\_1\_c\_lag\_all | 1.060253 .0380777 1.63 0.103 .9881878 1.137573

sp77\_901\_1\_c\_lag\_all | .7340676 .0681938 -3.33 0.001 .6118722 .8806663

sp77\_901\_c\_lag\_all | 1.020102 .0308826 0.66 0.511 .9613337 1.082462

sp47\_42\_c\_lag\_all | .9126755 .0286739 -2.91 0.004 .858171 .9706416

sp75\_1100\_2\_c\_lag\_all | 1.001219 .0010664 1.14 0.253 .9991307 1.003311

sp75\_1102\_c\_lag\_all | .9944579 .0119183 -0.46 0.643 .9713706 1.018094

sp75\_1106\_2\_c\_lag\_all | .9836683 .0080046 -2.02 0.043 .9681041 .9994828

sp75\_1400\_2\_c\_lag\_all | .9927744 .036733 -0.20 0.845 .9233276 1.067444

sp75\_1402\_2\_c\_lag\_all | 1.236828 .2306334 1.14 0.254 .8581919 1.782519

sp75\_1432\_c\_lag\_all | .9552063 .0360431 -1.21 0.225 .8871121 1.028527

sp75\_1600\_2\_c\_lag\_all | .9987044 .0041587 -0.31 0.756 .9905867 1.006889

sp75\_1912\_c\_lag\_all | 1.027096 .0188597 1.46 0.145 .9907891 1.064734

sp75\_202\_c\_lag\_all | .9999642 .0003005 -0.12 0.905 .9993754 1.000553

sp75\_212\_c\_lag\_all | .9985304 .0060991 -0.24 0.810 .9866476 1.010556

sp75\_312\_c\_lag\_all | 1.002983 .0042833 0.70 0.486 .9946227 1.011413

sp75\_342\_c\_lag\_all | .9996263 .001088 -0.34 0.731 .9974962 1.001761

sp75\_352\_c\_lag\_all | .9885572 .0096157 -1.18 0.237 .9698893 1.007584

sp75\_382\_c\_lag\_all | 1.015855 .0124738 1.28 0.200 .9916983 1.0406

sp75\_512\_2\_c\_lag\_all | .997499 .0029868 -0.84 0.403 .991662 1.00337

sp75\_512\_c\_lag\_all | 1.001213 .0009247 1.31 0.189 .9994019 1.003027

sp75\_516\_2\_c\_lag\_all | .9973605 .0047405 -0.56 0.578 .9881124 1.006695

sp75\_523\_2\_c\_lag\_all | .9953684 .0038638 -1.20 0.232 .9878242 1.00297

sp75\_601\_2\_c\_lag\_all | .9153662 .0329695 -2.46 0.014 .8529752 .9823207

sp75\_602\_c\_lag\_all | 1.009728 .0068726 1.42 0.155 .996347 1.023288

sp75\_701\_2\_c\_lag\_all | .9806736 .0181091 -1.06 0.291 .9458151 1.016817

sp75\_702\_c\_lag\_all | 1.047094 .0650276 0.74 0.459 .9270934 1.182627

sp75\_703\_2\_c\_lag\_all | .9541051 .0318454 -1.41 0.159 .893687 1.018608

sp75\_705\_2\_c\_lag\_all | 1.494573 .2471692 2.43 0.015 1.080805 2.066746

sp75\_800\_2\_c\_lag\_all | .9414406 .0458758 -1.24 0.216 .855686 1.035789

sp75\_802\_c\_lag\_all | .9735803 .0191623 -1.36 0.174 .936738 1.011872

sp75\_803\_2\_c\_lag\_all | .8788397 .1011902 -1.12 0.262 .7012967 1.10133

sp75\_812\_c\_lag\_all | 1.058667 .0311542 1.94 0.053 .9993338 1.121524

sp75\_832\_c\_lag\_all | .9545246 .0766087 -0.58 0.562 .8155883 1.117129

sp75\_900\_2\_c\_lag\_all | .8156409 .0328239 -5.06 0.000 .7537789 .8825798

sp75\_902\_2\_c\_lag\_all | 1.004956 .0055476 0.90 0.371 .9941412 1.015888

sp75\_902\_c\_lag\_all | .9968997 .0034678 -0.89 0.372 .9901261 1.00372

sp77\_1112\_c\_lag\_all | .9885158 .020243 -0.56 0.573 .949626 1.028998

sp77\_1432\_c\_lag\_all | .8809472 .0420552 -2.66 0.008 .8022592 .9673531

sp77\_1802\_c\_lag\_all | .9791171 .071517 -0.29 0.773 .8485177 1.129818

sp77\_202\_c\_lag\_all | .9965189 .0028985 -1.20 0.231 .990854 1.002216

sp77\_402\_c\_lag\_all | .993154 .0075029 -0.91 0.363 .9785569 1.007969

sp77\_403\_2\_c\_lag\_all | .7620405 .2008219 -1.03 0.302 .4546313 1.277311

sp77\_412\_c\_lag\_all | .9806704 .0175488 -1.09 0.275 .9468715 1.015676

sp77\_502\_2\_c\_lag\_all | 1.022317 .0109908 2.05 0.040 1.001001 1.044087

sp77\_502\_c\_lag\_all | .9971395 .0014247 -2.00 0.045 .994351 .9999359

sp77\_512\_c\_lag\_all | .9991464 .0042419 -0.20 0.841 .9908669 1.007495

sp77\_602\_c\_lag\_all | 1.150888 .0665401 2.43 0.015 1.02759 1.288981

sp77\_701\_2\_c\_lag\_all | .9872958 .0196533 -0.64 0.521 .9495178 1.026577

sp77\_702\_c\_lag\_all | .7391888 .1158193 -1.93 0.054 .5437328 1.004906

sp77\_800\_2\_c\_lag\_all | .9960958 .0206267 -0.19 0.850 .9564775 1.037355

sp77\_802\_c\_lag\_all | 1.029174 .0731047 0.40 0.686 .8954181 1.18291

sp77\_807\_2\_c\_lag\_all | 1.027269 .0269265 1.03 0.305 .9758269 1.081423

sp77\_900\_2\_c\_lag\_all | 1.020878 .019021 1.11 0.267 .9842701 1.058848

sp77\_902\_2\_c\_lag\_all | 1 (omitted)

sp77\_902\_c\_lag\_all | .9674976 .0267844 -1.19 0.233 .9164 1.021444

sp47\_43\_c\_lag\_all | .8476438 .1028179 -1.36 0.173 .6682884 1.075135

sp72\_503\_c\_lag\_all | .9982819 .0117829 -0.15 0.884 .9754529 1.021645

sp75\_1106\_3\_c\_lag\_all | 1.000701 .0023191 0.30 0.762 .9961665 1.005257

sp75\_1400\_3\_c\_lag\_all | .9969329 .0120304 -0.25 0.799 .9736303 1.020793

sp75\_1403\_3\_c\_lag\_all | .8729742 .0704657 -1.68 0.092 .7452348 1.022609

sp75\_1433\_c\_lag\_all | .9737441 .0194428 -1.33 0.183 .9363729 1.012607

sp75\_153\_c\_lag\_all | .9796329 .1186159 -0.17 0.865 .7726774 1.24202

sp75\_1903\_c\_lag\_all | 1.005529 .0057916 0.96 0.338 .994242 1.016945

sp75\_1913\_c\_lag\_all | 1.000146 .0068309 0.02 0.983 .9868466 1.013624

sp75\_503\_c\_lag\_all | 1.000241 .0004257 0.57 0.571 .9994074 1.001076

sp75\_513\_c\_lag\_all | .9894761 .0126164 -0.83 0.407 .9650548 1.014515

sp75\_523\_c\_lag\_all | .9984776 .0040855 -0.37 0.710 .9905021 1.006517

sp75\_601\_3\_c\_lag\_all | 1.036677 .0525654 0.71 0.477 .9386044 1.144996

sp75\_603\_c\_lag\_all | .9935079 .0097168 -0.67 0.505 .9746448 1.012736

sp75\_701\_3\_c\_lag\_all | 1.017519 .0147192 1.20 0.230 .9890748 1.046781

sp75\_703\_3\_c\_lag\_all | 1.024274 .0128414 1.91 0.056 .9994119 1.049754

sp75\_703\_c\_lag\_all | 1.004049 .0055875 0.73 0.468 .9931573 1.01506

sp75\_705\_3\_c\_lag\_all | 1 (omitted)

sp75\_800\_3\_c\_lag\_all | .9742301 .019889 -1.28 0.201 .936018 1.014002

sp75\_803\_c\_lag\_all | 1.002131 .0155826 0.14 0.891 .9720505 1.033142

sp75\_900\_3\_c\_lag\_all | .9845381 .0097681 -1.57 0.116 .9655779 1.003871

sp75\_903\_c\_lag\_all | 1.004746 .0060448 0.79 0.431 .9929677 1.016664

sp77\_103\_c\_lag\_all | 1.014232 .046993 0.31 0.760 .926186 1.110648

sp77\_1103\_c\_lag\_all | 1.002365 .0029967 0.79 0.429 .9965089 1.008256

sp77\_1403\_c\_lag\_all | .9784546 .022754 -0.94 0.349 .9348586 1.024084

sp77\_1433\_c\_lag\_all | .9675292 .0356597 -0.90 0.370 .9001022 1.040007

sp77\_203\_c\_lag\_all | .9782071 .0204241 -1.06 0.291 .9389846 1.019068

sp77\_403\_c\_lag\_all | .9509252 .0292519 -1.64 0.102 .8952866 1.010022

sp77\_413\_c\_lag\_all | 1.027676 .0400198 0.70 0.483 .9521574 1.109185

sp77\_503\_c\_lag\_all | 1.004141 .0246277 0.17 0.866 .9570136 1.05359

sp77\_513\_c\_lag\_all | 1.003914 .0050803 0.77 0.440 .9940064 1.013921

sp77\_603\_c\_lag\_all | 1.021535 .0399356 0.55 0.586 .9461866 1.102885

sp77\_703\_c\_lag\_all | .7533591 .0825874 -2.58 0.010 .6076991 .9339323

sp77\_803\_c\_lag\_all | 1.093739 .0517468 1.89 0.058 .9968776 1.200012

sp77\_807\_3\_c\_lag\_all | 1.078371 .0694115 1.17 0.241 .9505582 1.223369

sp77\_903\_c\_lag\_all | 1.037311 .0487581 0.78 0.436 .9460163 1.137415

sp47\_44\_c\_lag\_all | .9838743 .0110603 -1.45 0.148 .9624336 1.005793

sp48\_24\_c\_lag\_all | 1 (omitted)

sp48\_4\_c\_lag\_all | 1 (omitted)

sp75\_1103\_4\_c\_lag\_all | .999114 .0019079 -0.46 0.643 .9953816 1.00286

sp75\_1104\_c\_lag\_all | 1.000377 .0053963 0.07 0.944 .9898566 1.01101

sp75\_1106\_4\_c\_lag\_all | 1.000348 .019272 0.02 0.986 .9632802 1.038843

sp75\_1107\_14\_c\_lag\_all | 1.480583 .1293741 4.49 0.000 1.24754 1.75716

sp75\_1400\_4\_c\_lag\_all | .9826912 .0175629 -0.98 0.329 .9488644 1.017724

sp75\_1403\_4\_c\_lag\_all | 1.129691 .1083174 1.27 0.203 .9361479 1.363248

sp75\_1404\_c\_lag\_all | .9595859 .0764296 -0.52 0.604 .8208937 1.121711

sp75\_1434\_c\_lag\_all | 1.012392 .0163027 0.76 0.444 .9809383 1.044854

sp75\_1914\_c\_lag\_all | 1.000408 .0009852 0.41 0.679 .9984789 1.002341

sp75\_214\_c\_lag\_all | .9978998 .0060662 -0.35 0.729 .9860809 1.00986

sp75\_324\_c\_lag\_all | .9847279 .0144157 -1.05 0.293 .9568751 1.013392

sp75\_344\_c\_lag\_all | .9876528 .0168254 -0.73 0.466 .9552202 1.021187

sp75\_504\_c\_lag\_all | .9931437 .0122892 -0.56 0.578 .969347 1.017525

sp75\_514\_c\_lag\_all | 1.004151 .0031514 1.32 0.187 .9979932 1.010347

sp75\_604\_c\_lag\_all | 1.00067 .0008153 0.82 0.411 .9990729 1.002269

sp75\_701\_4\_c\_lag\_all | 1.063431 .0541151 1.21 0.227 .962485 1.174964

sp75\_703\_4\_c\_lag\_all | 1.115204 .0747792 1.63 0.104 .9778622 1.271836

sp75\_704\_c\_lag\_all | .9302825 .0440224 -1.53 0.127 .8478805 1.020693

sp75\_800\_4\_c\_lag\_all | .9936505 .0153551 -0.41 0.680 .9640063 1.024206

sp75\_814\_c\_lag\_all | .9898777 .0216837 -0.46 0.642 .9482779 1.033302

sp75\_834\_c\_lag\_all | 1 (omitted)

sp75\_900\_4\_c\_lag\_all | 1.000318 .0048822 0.07 0.948 .9907943 1.009933

sp75\_902\_4\_c\_lag\_all | 1.021322 .0086983 2.48 0.013 1.004415 1.038513

sp75\_904\_c\_lag\_all | 1.001094 .0011864 0.92 0.356 .998772 1.003422

sp77\_104\_c\_lag\_all | .9319904 .0991504 -0.66 0.508 .7565816 1.148067

sp77\_1104\_c\_lag\_all | .9995152 .0012645 -0.38 0.701 .99704 1.001997

sp77\_1434\_c\_lag\_all | 1.015273 .0393125 0.39 0.695 .941073 1.095323

sp77\_204\_c\_lag\_all | .9936375 .0069781 -0.91 0.363 .9800543 1.007409

sp77\_314\_c\_lag\_all | 1.287788 .1812037 1.80 0.072 .9774007 1.696744

sp77\_404\_c\_lag\_all | .9990461 .0013203 -0.72 0.470 .9964617 1.001637

sp77\_504\_c\_lag\_all | .9947199 .0083201 -0.63 0.527 .9785457 1.011162

sp77\_514\_c\_lag\_all | .9498017 .0272224 -1.80 0.072 .8979176 1.004684

sp77\_604\_c\_lag\_all | .9570483 .0268147 -1.57 0.117 .9059094 1.011074

sp75\_804\_c\_lag\_all | .9707968 .0090791 -3.17 0.002 .9531642 .9887555

sp77\_704\_c\_lag\_all | 1.104777 .055666 1.98 0.048 1.000888 1.219449

sp77\_804\_c\_lag\_all | .9368542 .0502618 -1.22 0.224 .8433453 1.040731

sp77\_904\_c\_lag\_all | .9960857 .0058444 -0.67 0.504 .9846965 1.007607

sp48\_25\_c\_lag\_all | 1.004233 .0177365 0.24 0.811 .9700647 1.039604

sp48\_5\_c\_lag\_all | 1.04209 .0189706 2.26 0.024 1.005564 1.079943

sp75\_1106\_5\_c\_lag\_all | .9949063 .0072162 -0.70 0.481 .9808628 1.009151

sp75\_1403\_5\_c\_lag\_all | .9968829 .0010373 -3.00 0.003 .9948519 .998918

sp75\_1405\_c\_lag\_all | .9961188 .0034159 -1.13 0.257 .9894462 1.002836

sp75\_1435\_c\_lag\_all | .9875345 .062655 -0.20 0.843 .8720613 1.118298

sp75\_155\_c\_lag\_all | 1.039505 .1129228 0.36 0.721 .8401551 1.286156

sp75\_1725\_c\_lag\_all | 1.000845 .0006436 1.31 0.189 .9995844 1.002107

sp75\_1915\_c\_lag\_all | 1.0048 .0216029 0.22 0.824 .9633387 1.048045

sp75\_505\_c\_lag\_all | 1.022762 .0295336 0.78 0.436 .9664843 1.082316

sp75\_515\_c\_lag\_all | .9966147 .0018246 -1.85 0.064 .993045 1.000197

sp75\_605\_c\_lag\_all | 1.002172 .0031559 0.69 0.491 .996006 1.008377

sp75\_705\_c\_lag\_all | 1.052661 .057228 0.94 0.345 .9462654 1.17102

sp75\_815\_c\_lag\_all | .9859867 .0151428 -0.92 0.358 .9567496 1.016117

sp75\_825\_c\_lag\_all | .9781071 .0264159 -0.82 0.412 .9276794 1.031276

sp75\_905\_c\_lag\_all | .9234106 .0347004 -2.12 0.034 .8578433 .9939894

sp77\_1605\_c\_lag\_all | 1.000492 .0015228 0.32 0.746 .9975121 1.003481

sp77\_1915\_c\_lag\_all | .96179 .0237471 -1.58 0.115 .9163547 1.009478

sp77\_205\_c\_lag\_all | 1.000394 .0016173 0.24 0.808 .997229 1.003569

sp77\_305\_c\_lag\_all | .6449319 .070242 -4.03 0.000 .5209622 .7984017

sp77\_315\_c\_lag\_all | 1.140739 .2319492 0.65 0.517 .7657899 1.699273

sp77\_405\_c\_lag\_all | .9594604 .0153805 -2.58 0.010 .9297838 .9900842

sp77\_505\_c\_lag\_all | .9985911 .0039049 -0.36 0.718 .9909669 1.006274

sp77\_515\_c\_lag\_all | 1.05957 .0854388 0.72 0.473 .9046757 1.240985

sp77\_605\_c\_lag\_all | .8874694 .0532155 -1.99 0.046 .7890647 .9981461

sp75\_805\_c\_lag\_all | .9933835 .0197629 -0.33 0.739 .9553944 1.032883

sp77\_705\_c\_lag\_all | .9942305 .0140167 -0.41 0.681 .9671343 1.022086

sp77\_805\_c\_lag\_all | .7652143 .0546724 -3.75 0.000 .6652228 .8802359

sp48\_26\_c\_lag\_all | 1.018156 .0126059 1.45 0.146 .9937468 1.043166

sp48\_6\_c\_lag\_all | 1.018399 .0126018 1.47 0.141 .9939969 1.0434

sp75\_1106\_6\_c\_lag\_all | .9576756 .1340576 -0.31 0.757 .7278893 1.260003

sp75\_1106\_c\_lag\_all | 1.067617 .0264452 2.64 0.008 1.017023 1.120728

sp75\_1403\_6\_c\_lag\_all | .9977775 .0013489 -1.65 0.100 .9951372 1.000425

sp75\_1436\_c\_lag\_all | 1.070476 .1262836 0.58 0.564 .8494952 1.34894

sp75\_156\_c\_lag\_all | .8227373 .0709503 -2.26 0.024 .6947943 .9742404

sp75\_1712\_6\_c\_lag\_all | .9978986 .0079038 -0.27 0.791 .9825271 1.013511

sp75\_1726\_c\_lag\_all | 1.044377 .0181862 2.49 0.013 1.009334 1.080637

sp75\_506\_c\_lag\_all | .9831552 .0111542 -1.50 0.134 .9615347 1.005262

sp75\_516\_c\_lag\_all | .9960237 .0026735 -1.48 0.138 .9907975 1.001277

sp75\_606\_c\_lag\_all | 1.000296 .001154 0.26 0.798 .9980364 1.00256

sp75\_706\_c\_lag\_all | .9645304 .0145481 -2.39 0.017 .9364341 .9934697

sp75\_816\_c\_lag\_all | .9944914 .0046764 -1.17 0.240 .9853679 1.003699

sp77\_1106\_c\_lag\_all | 1.027244 .0844124 0.33 0.744 .8744343 1.206757

sp77\_1606\_c\_lag\_all | 1.000078 .0020442 0.04 0.969 .9960798 1.004093

sp77\_1906\_c\_lag\_all | 1.105222 .0480707 2.30 0.021 1.01491 1.203572

sp77\_1916\_c\_lag\_all | 1.034109 .0360668 0.96 0.336 .9657813 1.107271

sp77\_206\_c\_lag\_all | 1.003858 .0094018 0.41 0.681 .9855989 1.022455

sp77\_216\_c\_lag\_all | .9989183 .0066312 -0.16 0.870 .9860056 1.012

sp77\_506\_c\_lag\_all | .9931401 .0060823 -1.12 0.261 .9812902 1.005133

sp77\_516\_c\_lag\_all | 1.002408 .0023376 1.03 0.302 .9978373 1.007

sp77\_606\_c\_lag\_all | 1 (omitted)

sp75\_806\_c\_lag\_all | 1.113064 .0385343 3.09 0.002 1.040043 1.191211

sp77\_906\_c\_lag\_all | .641669 .2208689 -1.29 0.197 .3268278 1.259805

sp48\_27\_c\_lag\_all | 1.002123 .0145745 0.15 0.884 .9739604 1.031099

sp48\_7\_c\_lag\_all | 1.006324 .0139438 0.45 0.649 .9793626 1.034028

sp75\_1403\_7\_c\_lag\_all | .9808306 .0072939 -2.60 0.009 .9666385 .9952311

sp75\_1437\_c\_lag\_all | .9788594 .0688984 -0.30 0.761 .8527216 1.123656

sp75\_1727\_c\_lag\_all | 1.0865 .0411498 2.19 0.028 1.008769 1.170221

sp75\_337\_c\_lag\_all | 1.005891 .0063281 0.93 0.350 .9935645 1.018371

sp75\_507\_c\_lag\_all | 1.003039 .0095103 0.32 0.749 .9845718 1.021854

sp75\_517\_c\_lag\_all | .9992916 .0005816 -1.22 0.223 .9981523 1.000432

sp75\_607\_c\_lag\_all | .9904378 .0079008 -1.20 0.228 .9750729 1.006045

sp75\_827\_c\_lag\_all | .9906072 .0337124 -0.28 0.782 .9266875 1.058936

sp75\_907\_c\_lag\_all | .9850666 .0091765 -1.62 0.106 .9672441 1.003217

sp77\_1437\_c\_lag\_all | .9329706 .0394974 -1.64 0.101 .8586819 1.013686

sp77\_207\_c\_lag\_all | 1.004526 .0060834 0.75 0.456 .992673 1.01652

sp77\_507\_c\_lag\_all | .9829145 .0195654 -0.87 0.387 .9453055 1.02202

sp75\_807\_c\_lag\_all | 1.001014 .0015642 0.65 0.517 .9979525 1.004084

sp77\_807\_c\_lag\_all | .962713 .0242519 -1.51 0.131 .9163346 1.011439

sp48\_28\_c\_lag\_all | .9710954 .0135453 -2.10 0.035 .9449066 .9980099

sp48\_8\_c\_lag\_all | 1.033132 .0159722 2.11 0.035 1.002297 1.064916

sp75\_1403\_8\_c\_lag\_all | 1.00017 .001123 0.15 0.880 .9979714 1.002374

sp75\_1438\_c\_lag\_all | 1 (omitted)

sp75\_1728\_c\_lag\_all | 1.087651 .0453041 2.02 0.044 1.002385 1.180171

sp75\_208\_c\_lag\_all | .996399 .0031074 -1.16 0.247 .9903272 1.002508

sp75\_518\_c\_lag\_all | .9975697 .0031488 -0.77 0.441 .9914171 1.00376

sp75\_705\_8\_c\_lag\_all | .876391 .0721548 -1.60 0.109 .7457907 1.029861

sp75\_818\_c\_lag\_all | 1.028476 .0337518 0.86 0.392 .9644063 1.096802

sp77\_1438\_c\_lag\_all | 1.018369 .164014 0.11 0.910 .7427017 1.396355

sp77\_208\_c\_lag\_all | 1.003998 .0027938 1.43 0.152 .9985375 1.009489

sp77\_408\_c\_lag\_all | 1.056449 .0246493 2.35 0.019 1.009226 1.105883

sp77\_508\_c\_lag\_all | .9743897 .0184395 -1.37 0.170 .938911 1.011209

sp75\_808\_c\_lag\_all | 1.021166 .0149214 1.43 0.152 .9923353 1.050834

sp77\_704\_8\_c\_lag\_all | 1.016351 .0281996 0.58 0.559 .9625565 1.073151

sp77\_808\_c\_lag\_all | 1.018827 .060181 0.32 0.752 .9074466 1.143879

sp75\_1403\_9\_c\_lag\_all | 1.007489 .0076606 0.98 0.326 .9925857 1.022616

sp75\_1729\_c\_lag\_all | .9070988 .0254259 -3.48 0.001 .858609 .9583271

sp75\_1909\_c\_lag\_all | 1.000068 .0009021 0.08 0.940 .998302 1.001838

sp75\_519\_c\_lag\_all | .9112063 .0819899 -1.03 0.301 .7638815 1.086945

sp75\_819\_c\_lag\_all | .8142881 .1029238 -1.63 0.104 .6356067 1.0432

sp77\_309\_c\_lag\_all | .7481505 .0759392 -2.86 0.004 .6131826 .9128263

sp77\_409\_c\_lag\_all | 1.028251 .0406651 0.70 0.481 .9515594 1.111123

sp77\_509\_c\_lag\_all | 1.000742 .009769 0.08 0.939 .9817772 1.020073

sp75\_809\_c\_lag\_all | .9889607 .0073037 -1.50 0.133 .9747488 1.00338

sp77\_704\_9\_c\_lag\_all | .8844764 .0721436 -1.51 0.132 .753801 1.037805

sp77\_809\_c\_lag\_all | .9899352 .0137366 -0.73 0.466 .9633748 1.017228

sp72\_610\_c\_lag\_all | .9286502 .0627031 -1.10 0.273 .8135392 1.060049

sp72\_620\_c\_lag\_all | .9752624 .044579 -0.55 0.584 .8916886 1.066669

sp72\_630\_c\_lag\_all | 1.000157 .0015581 0.10 0.920 .997108 1.003216

sp75\_100\_c\_lag\_all | 1.043055 .0327397 1.34 0.179 .9808206 1.109239

sp75\_1101\_20\_c\_lag\_all | .9843174 .0249479 -0.62 0.533 .9366151 1.034449

sp75\_1400\_c\_lag\_all | .9996419 .0097134 -0.04 0.971 .9807841 1.018862

sp75\_1403\_10\_c\_lag\_all | 1.005772 .0023072 2.51 0.012 1.00126 1.010304

sp75\_150\_c\_lag\_all | 1.06812 .0430221 1.64 0.102 .987041 1.15586

sp75\_160\_c\_lag\_all | .9730677 .0595551 -0.45 0.656 .8630711 1.097083

sp75\_1712\_10\_c\_lag\_all | .9763025 .0143228 -1.63 0.102 .9486302 1.004782

sp75\_1720\_c\_lag\_all | 1.003539 .0089589 0.40 0.692 .9861327 1.021253

sp75\_1730\_c\_lag\_all | .9938589 .0113073 -0.54 0.588 .9719423 1.01627

sp75\_1910\_c\_lag\_all | 1.001451 .0015298 0.95 0.343 .9984571 1.004454

sp75\_320\_c\_lag\_all | .9937202 .0040463 -1.55 0.122 .9858212 1.001683

sp75\_340\_c\_lag\_all | 1.002037 .0015603 1.31 0.191 .9989831 1.005099

sp75\_520\_c\_lag\_all | 1.00563 .0053287 1.06 0.289 .9952404 1.016129

sp75\_600\_c\_lag\_all | .9232415 .0453788 -1.62 0.104 .8384505 1.016607

sp75\_700\_c\_lag\_all | 1.005832 .0065402 0.89 0.371 .9930949 1.018733

sp75\_800\_c\_lag\_all | 1.004935 .0209503 0.24 0.813 .9647006 1.046847

sp75\_820\_c\_lag\_all | 1.073138 .0288915 2.62 0.009 1.01798 1.131285

sp75\_900\_c\_lag\_all | 1.000449 .0037347 0.12 0.904 .9931561 1.007796

sp77\_1710\_c\_lag\_all | .9961723 .0046571 -0.82 0.412 .9870863 1.005342

sp77\_200\_c\_lag\_all | 1.004822 .0020426 2.37 0.018 1.000826 1.008833

sp77\_210\_c\_lag\_all | 1.023503 .0133798 1.78 0.076 .9976117 1.050065

sp77\_400\_c\_lag\_all | 1.002349 .0018644 1.26 0.207 .9987017 1.00601

sp77\_410\_c\_lag\_all | 1.001716 .0024041 0.71 0.475 .9970156 1.006439

sp77\_500\_c\_lag\_all | .8974211 .0366445 -2.65 0.008 .8283981 .9721952

sp77\_510\_c\_lag\_all | 1.075696 .0544611 1.44 0.150 .9740797 1.187914

sp77\_600\_c\_lag\_all | .9633691 .0271993 -1.32 0.186 .9115076 1.018181

sp77\_700\_c\_lag\_all | 1.050173 .0210494 2.44 0.015 1.009717 1.09225

sp75\_810\_c\_lag\_all | 1.013481 .0075408 1.80 0.072 .9988084 1.028369

sp77\_800\_c\_lag\_all | .9564336 .0361382 -1.18 0.238 .8881632 1.029952

sp77\_810\_c\_lag\_all | 1.001112 .0238363 0.05 0.963 .9554669 1.048937

sp77\_900\_c\_lag\_all | .9738691 .0237768 -1.08 0.278 .928365 1.021604

mine\_time | 1.000063 .0099061 0.01 0.995 .980835 1.019669

onsite\_insp\_hours | 1.000052 .0000529 0.98 0.327 .9999482 1.000155

|

state |

1 | 1.324635 .3503772 1.06 0.288 .7887627 2.224571

2 | 1.694945 .1409385 6.35 0.000 1.440046 1.994964

3 | .8124435 .1721346 -0.98 0.327 .5363481 1.230664

4 | 1.092016 .1669169 0.58 0.565 .8093211 1.473455

5 | .6686747 .1112241 -2.42 0.016 .4826476 .9264024

6 | .8432156 .0553167 -2.60 0.009 .7414776 .9589131

7 | .8619015 .2031615 -0.63 0.528 .543023 1.368034

8 | 1.087113 .1538291 0.59 0.555 .8238111 1.43457

9 | .6049792 .3180675 -0.96 0.339 .2158846 1.69535

10 | .6317237 .1436387 -2.02 0.043 .4045615 .9864379

11 | 1.181259 .6131112 0.32 0.748 .4271148 3.266976

12 | 1.031428 .107832 0.30 0.767 .8403279 1.265986

13 | 1.351697 .237142 1.72 0.086 .9583947 1.906401

14 | .7556503 .0980401 -2.16 0.031 .5859812 .9744467

15 | .7222159 .0570738 -4.12 0.000 .618586 .8432066

17 | .5808295 .3060814 -1.03 0.303 .2067705 1.631582

|

time |

2000 | 1.049097 .0698153 0.72 0.471 .9208099 1.195257

2002 | .9114564 .0621955 -1.36 0.174 .7973555 1.041885

2003 | .8771246 .0712203 -1.61 0.106 .7480762 1.028435

2004 | .8138462 .0636106 -2.64 0.008 .6982518 .948577

2005 | .7273468 .0553584 -4.18 0.000 .6265511 .8443579

2006 | .7522873 .0602131 -3.56 0.000 .6430631 .8800634

2007 | .6626402 .0526979 -5.17 0.000 .5670013 .7744109

2008 | .595251 .049454 -6.24 0.000 .5058031 .7005172

2009 | .4840923 .0419118 -8.38 0.000 .4085383 .5736191

2010 | .5293272 .0473043 -7.12 0.000 .4442782 .6306573

2011 | .5511352 .0488231 -6.73 0.000 .4632904 .6556364

2012 | .5546202 .0531725 -6.15 0.000 .4596098 .669271

2013 | .4412001 .0459864 -7.85 0.000 .3596786 .5411986

2014 | .4035754 .0462509 -7.92 0.000 .3223848 .5052133

2015 | .4336566 .0523036 -6.93 0.000 .3423592 .5493004

|

\_cons | .0000169 1.18e-06 -157.70 0.000 .0000147 .0000193

ln(hours) | 1 (exposure)

----------------------------------------------------------------------------------------

**. eststo: nbreg MR `subpart\_count\_lag\_all\_vars' `covariates' ib(freq).state ib(freq).time, vce(cl mineid) exposure(hours) iter(50) irr**

note: sp77\_801\_1\_c\_lag\_all omitted because of collinearity

note: sp77\_801\_c\_lag\_all omitted because of collinearity

note: sp77\_902\_2\_c\_lag\_all omitted because of collinearity

note: sp75\_705\_3\_c\_lag\_all omitted because of collinearity

note: sp48\_24\_c\_lag\_all omitted because of collinearity

note: sp48\_4\_c\_lag\_all omitted because of collinearity

note: sp75\_834\_c\_lag\_all omitted because of collinearity

note: sp77\_606\_c\_lag\_all omitted because of collinearity

note: sp75\_1438\_c\_lag\_all omitted because of collinearity

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -82728.223

Iteration 1: log pseudolikelihood = -39610.988 (backed up)

Iteration 2: log pseudolikelihood = -28176.927

Iteration 3: log pseudolikelihood = -17380.842

Iteration 4: log pseudolikelihood = -9226.2532

Iteration 5: log pseudolikelihood = -8448.6098

Iteration 6: log pseudolikelihood = -8353.4885

Iteration 7: log pseudolikelihood = -8351.4748

Iteration 8: log pseudolikelihood = -8351.4681

Iteration 9: log pseudolikelihood = -8351.4681

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -9249.9658

Iteration 1: log pseudolikelihood = -8971.6355

Iteration 2: log pseudolikelihood = -8961.958

Iteration 3: log pseudolikelihood = -8961.9317

Iteration 4: log pseudolikelihood = -8961.9317

Fitting full model:

Iteration 0: log pseudolikelihood = -8469.9515

Iteration 1: log pseudolikelihood = -8341.2786

Iteration 2: log pseudolikelihood = -8320.0578

Iteration 3: log pseudolikelihood = -8318.2956

Iteration 4: log pseudolikelihood = -8318.2714

Iteration 5: log pseudolikelihood = -8318.2714

Negative binomial regression Number of obs = 6,253

Wald chi2(328) = .

Dispersion = mean Prob > chi2 = .

Log pseudolikelihood = -8318.2714 Pseudo R2 = 0.0718

(Std. Err. adjusted for 1,238 clusters in mineid)

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| Robust

MR | IRR Std. Err. z P>|z| [95% Conf. Interval]

-----------------------+----------------------------------------------------------------

sp47\_41\_c\_lag\_all | 1.015832 .0073642 2.17 0.030 1.001501 1.030369

sp48\_11\_c\_lag\_all | .9873313 .0075791 -1.66 0.097 .9725878 1.002298

sp71\_701\_c\_lag\_all | .9277474 .0874001 -0.80 0.426 .771331 1.115883

sp75\_1001\_1\_c\_lag\_all | .9261654 .0204163 -3.48 0.001 .8870023 .9670577

sp75\_1001\_c\_lag\_all | .9572379 .0360777 -1.16 0.246 .8890755 1.030626

sp75\_1003\_1\_c\_lag\_all | .9904606 .0489109 -0.19 0.846 .8990899 1.091117

sp75\_1400\_1\_c\_lag\_all | .9484752 .0407183 -1.23 0.218 .8719341 1.031735

sp75\_1401\_1\_c\_lag\_all | .7887979 .0618378 -3.03 0.002 .6764501 .9198049

sp75\_1401\_c\_lag\_all | 1.008678 .0304775 0.29 0.775 .9506778 1.070217

sp75\_1403\_11\_c\_lag\_all | .9272618 .0656043 -1.07 0.286 .8071967 1.065186

sp75\_1404\_1\_c\_lag\_all | .8278053 .0399604 -3.91 0.000 .7530753 .909951

sp75\_1405\_1\_c\_lag\_all | .964574 .0709923 -0.49 0.624 .8350019 1.114253

sp75\_1431\_c\_lag\_all | 1.214748 .1610907 1.47 0.142 .9367123 1.57531

sp75\_151\_c\_lag\_all | 1.095208 .0596252 1.67 0.095 .9843633 1.218534

sp75\_1721\_c\_lag\_all | .8020295 .0531873 -3.33 0.001 .7042749 .9133527

sp75\_1731\_c\_lag\_all | 1.000342 .0003659 0.93 0.350 .9996251 1.001059

sp75\_1911\_c\_lag\_all | .9968002 .0017883 -1.79 0.074 .9933013 1.000311

sp75\_211\_c\_lag\_all | 1.00478 .0033781 1.42 0.156 .9981809 1.011423

sp75\_341\_c\_lag\_all | 1.089958 .0566748 1.66 0.098 .9843502 1.206896

sp75\_506\_1\_c\_lag\_all | 1.05915 .0111921 5.44 0.000 1.037439 1.081314

sp75\_510\_1\_c\_lag\_all | 1.192262 .1542821 1.36 0.174 .9251745 1.536454

sp75\_511\_1\_c\_lag\_all | .9900231 .0629954 -0.16 0.875 .8739432 1.121521

sp75\_511\_c\_lag\_all | 1.005789 .009236 0.63 0.530 .9878482 1.024055

sp75\_512\_1\_c\_lag\_all | .9692899 .0718063 -0.42 0.674 .8382925 1.120758

sp75\_513\_1\_c\_lag\_all | .9926236 .0236479 -0.31 0.756 .9473401 1.040072

sp75\_516\_1\_c\_lag\_all | .9979459 .0257449 -0.08 0.936 .9487413 1.049702

sp75\_517\_1\_c\_lag\_all | .968613 .0284927 -1.08 0.278 .9143476 1.026099

sp75\_518\_1\_c\_lag\_all | 1.0029 .0036369 0.80 0.425 .9957974 1.010054

sp75\_523\_1\_c\_lag\_all | 1.000435 .0047122 0.09 0.926 .9912421 1.009714

sp75\_600\_1\_c\_lag\_all | .9934747 .0265852 -0.24 0.807 .9427116 1.046971

sp75\_601\_1\_c\_lag\_all | .9995034 .0019317 -0.26 0.797 .9957246 1.003297

sp75\_601\_c\_lag\_all | .9994247 .0028867 -0.20 0.842 .9937828 1.005099

sp75\_700\_1\_c\_lag\_all | .9739592 .0189275 -1.36 0.175 .9375597 1.011772

sp75\_701\_1\_c\_lag\_all | 1.017767 .0080995 2.21 0.027 1.002016 1.033766

sp75\_701\_c\_lag\_all | 1.000046 .0019031 0.02 0.981 .9963227 1.003783

sp75\_702\_1\_c\_lag\_all | .8965148 .0938063 -1.04 0.296 .7302851 1.100582

sp75\_703\_1\_c\_lag\_all | .8350604 .0615757 -2.44 0.015 .72269 .9649033

sp75\_705\_1\_c\_lag\_all | .9986772 .0245221 -0.05 0.957 .951753 1.047915

sp75\_801\_c\_lag\_all | .984496 .0355318 -0.43 0.665 .9172611 1.056659

sp75\_821\_c\_lag\_all | 1.001454 .0108622 0.13 0.893 .980389 1.022971

sp75\_831\_c\_lag\_all | 1.114398 .040857 2.95 0.003 1.037129 1.197423

sp75\_901\_c\_lag\_all | 1.020088 .0145617 1.39 0.164 .9919431 1.049031

sp75\_902\_1\_c\_lag\_all | 1.045577 .0730409 0.64 0.523 .9117874 1.198998

sp77\_1111\_c\_lag\_all | .9595191 .0383975 -1.03 0.302 .887137 1.037807

sp77\_401\_c\_lag\_all | .9942417 .0105083 -0.55 0.585 .9738576 1.015052

sp77\_403\_1\_c\_lag\_all | .9851505 .018118 -0.81 0.416 .9502722 1.021309

sp77\_411\_c\_lag\_all | .8685186 .0391715 -3.13 0.002 .7950395 .9487888

sp77\_501\_c\_lag\_all | 1.008917 .0159801 0.56 0.575 .9780779 1.040729

sp77\_502\_1\_c\_lag\_all | 1.139594 .0824019 1.81 0.071 .9890115 1.313104

sp77\_503\_1\_c\_lag\_all | .9447667 .0368692 -1.46 0.145 .8751988 1.019864

sp77\_506\_1\_c\_lag\_all | .996522 .0049032 -0.71 0.479 .9869581 1.006179

sp77\_508\_1\_c\_lag\_all | 1.070941 .0222611 3.30 0.001 1.028187 1.115473

sp77\_511\_c\_lag\_all | 1.002707 .0217906 0.12 0.901 .9608954 1.046339

sp77\_601\_c\_lag\_all | 1.011879 .0352029 0.34 0.734 .9451826 1.083282

sp77\_606\_1\_c\_lag\_all | .9213531 .0824649 -0.92 0.360 .7731078 1.098025

sp77\_700\_1\_c\_lag\_all | 1.007051 .0478205 0.15 0.882 .9175543 1.105278

sp77\_701\_1\_c\_lag\_all | 1.022543 .0230181 0.99 0.322 .9784087 1.068667

sp77\_701\_c\_lag\_all | 1.004344 .0045189 0.96 0.335 .995526 1.01324

sp75\_811\_c\_lag\_all | 1.005509 .0066021 0.84 0.403 .9926523 1.018533

sp77\_704\_1\_c\_lag\_all | 1.16332 .0760585 2.31 0.021 1.023404 1.322364

sp77\_800\_1\_c\_lag\_all | 1.067654 .0254768 2.74 0.006 1.01887 1.118774

sp77\_801\_1\_c\_lag\_all | 1 (omitted)

sp77\_801\_c\_lag\_all | 1 (omitted)

sp77\_807\_1\_c\_lag\_all | 1.063239 .0514693 1.27 0.205 .9669988 1.169058

sp77\_900\_1\_c\_lag\_all | 1.030083 .0370444 0.82 0.410 .9599767 1.105309

sp77\_901\_1\_c\_lag\_all | .7154733 .0530337 -4.52 0.000 .618727 .8273472

sp77\_901\_c\_lag\_all | 1.007523 .0279397 0.27 0.787 .9542234 1.063799

sp47\_42\_c\_lag\_all | .9251635 .0283665 -2.54 0.011 .8712037 .9824653

sp75\_1100\_2\_c\_lag\_all | 1.001371 .0008989 1.53 0.127 .9996104 1.003134

sp75\_1102\_c\_lag\_all | .9907345 .0096985 -0.95 0.342 .971907 1.009927

sp75\_1106\_2\_c\_lag\_all | .9869407 .0065716 -1.97 0.048 .9741442 .9999053

sp75\_1400\_2\_c\_lag\_all | .9727588 .028386 -0.95 0.344 .9186844 1.030016

sp75\_1402\_2\_c\_lag\_all | 1.154956 .1621166 1.03 0.305 .8771739 1.520706

sp75\_1432\_c\_lag\_all | .9655526 .030778 -1.10 0.271 .9070746 1.027801

sp75\_1600\_2\_c\_lag\_all | 1.000097 .003486 0.03 0.978 .9932882 1.006953

sp75\_1912\_c\_lag\_all | 1.023871 .0157171 1.54 0.124 .9935245 1.055144

sp75\_202\_c\_lag\_all | .9999928 .0002448 -0.03 0.977 .9995132 1.000473

sp75\_212\_c\_lag\_all | .9998122 .0055432 -0.03 0.973 .9890067 1.010736

sp75\_312\_c\_lag\_all | 1.002737 .0038154 0.72 0.473 .9952866 1.010243

sp75\_342\_c\_lag\_all | .9997682 .0008957 -0.26 0.796 .9980141 1.001525

sp75\_352\_c\_lag\_all | .991867 .0079136 -1.02 0.306 .9764773 1.007499

sp75\_382\_c\_lag\_all | 1.016703 .0093681 1.80 0.072 .9985067 1.035231

sp75\_512\_2\_c\_lag\_all | .9980837 .0026623 -0.72 0.472 .9928793 1.003315

sp75\_512\_c\_lag\_all | 1.001253 .0007534 1.66 0.096 .9997773 1.00273

sp75\_516\_2\_c\_lag\_all | 1.002035 .0039287 0.52 0.604 .9943647 1.009765

sp75\_523\_2\_c\_lag\_all | .9936524 .0036626 -1.73 0.084 .9864998 1.000857

sp75\_601\_2\_c\_lag\_all | .927352 .0303477 -2.30 0.021 .8697391 .9887814

sp75\_602\_c\_lag\_all | 1.006193 .0063581 0.98 0.329 .9938079 1.018732

sp75\_701\_2\_c\_lag\_all | .9714199 .0136946 -2.06 0.040 .9449463 .9986351

sp75\_702\_c\_lag\_all | 1.040251 .0591517 0.69 0.488 .9305428 1.162894

sp75\_703\_2\_c\_lag\_all | .9736759 .0243707 -1.07 0.287 .9270629 1.022633

sp75\_705\_2\_c\_lag\_all | 1.422918 .1915817 2.62 0.009 1.092884 1.852617

sp75\_800\_2\_c\_lag\_all | .9862798 .0493956 -0.28 0.783 .8940662 1.088004

sp75\_802\_c\_lag\_all | .9869348 .0180124 -0.72 0.471 .9522551 1.022877

sp75\_803\_2\_c\_lag\_all | .9186147 .0990313 -0.79 0.431 .7436517 1.134742

sp75\_812\_c\_lag\_all | 1.036486 .030952 1.20 0.230 .9775628 1.098962

sp75\_832\_c\_lag\_all | .9674657 .0689415 -0.46 0.643 .8413546 1.11248

sp75\_900\_2\_c\_lag\_all | .8518782 .0301756 -4.53 0.000 .7947415 .9131227

sp75\_902\_2\_c\_lag\_all | 1.004195 .0047495 0.89 0.376 .9949288 1.013547

sp75\_902\_c\_lag\_all | .9963762 .002846 -1.27 0.204 .9908138 1.00197

sp77\_1112\_c\_lag\_all | .9972086 .0186158 -0.15 0.881 .9613817 1.034371

sp77\_1432\_c\_lag\_all | .9209702 .0360539 -2.10 0.035 .8529489 .9944161

sp77\_1802\_c\_lag\_all | .9871283 .0583519 -0.22 0.827 .8791373 1.108385

sp77\_202\_c\_lag\_all | .9980309 .0024498 -0.80 0.422 .9932408 1.002844

sp77\_402\_c\_lag\_all | .9949446 .0061543 -0.82 0.413 .9829553 1.00708

sp77\_403\_2\_c\_lag\_all | .9073691 .1989116 -0.44 0.657 .590453 1.394385

sp77\_412\_c\_lag\_all | .9908258 .01504 -0.61 0.544 .961782 1.020747

sp77\_502\_2\_c\_lag\_all | 1.024827 .0097155 2.59 0.010 1.005961 1.044047

sp77\_502\_c\_lag\_all | .9979657 .0012381 -1.64 0.101 .9955421 1.000395

sp77\_512\_c\_lag\_all | .9964549 .0039985 -0.89 0.376 .9886487 1.004323

sp77\_602\_c\_lag\_all | 1.090926 .05395 1.76 0.078 .9901493 1.201961

sp77\_701\_2\_c\_lag\_all | .975409 .0178756 -1.36 0.174 .9409952 1.011081

sp77\_702\_c\_lag\_all | .6867535 .0636117 -4.06 0.000 .5727392 .8234643

sp77\_800\_2\_c\_lag\_all | .9824726 .0175192 -0.99 0.321 .9487287 1.017417

sp77\_802\_c\_lag\_all | 1.05365 .0697629 0.79 0.430 .9254173 1.199651

sp77\_807\_2\_c\_lag\_all | 1.011705 .0241234 0.49 0.626 .9655121 1.060109

sp77\_900\_2\_c\_lag\_all | 1.020795 .019454 1.08 0.280 .9833689 1.059645

sp77\_902\_2\_c\_lag\_all | 1 (omitted)

sp77\_902\_c\_lag\_all | .976295 .0196106 -1.19 0.232 .9386056 1.015498

sp47\_43\_c\_lag\_all | .8608086 .0864604 -1.49 0.136 .7069865 1.048098

sp72\_503\_c\_lag\_all | .9997695 .0100811 -0.02 0.982 .9802048 1.019725

sp75\_1106\_3\_c\_lag\_all | 1.001375 .0019382 0.71 0.478 .9975834 1.005181

sp75\_1400\_3\_c\_lag\_all | .9986653 .0103631 -0.13 0.898 .9785592 1.019184

sp75\_1403\_3\_c\_lag\_all | .8769998 .0495574 -2.32 0.020 .7850547 .9797135

sp75\_1433\_c\_lag\_all | .9788148 .015443 -1.36 0.175 .9490103 1.009555

sp75\_153\_c\_lag\_all | 1.039157 .0932086 0.43 0.668 .8716284 1.238884

sp75\_1903\_c\_lag\_all | 1.005611 .0047285 1.19 0.234 .9963863 1.014922

sp75\_1913\_c\_lag\_all | .9998758 .0064304 -0.02 0.985 .9873516 1.012559

sp75\_503\_c\_lag\_all | .9999718 .000387 -0.07 0.942 .9992136 1.000731

sp75\_513\_c\_lag\_all | .9919648 .0116048 -0.69 0.490 .9694787 1.014972

sp75\_523\_c\_lag\_all | 1.002346 .0038021 0.62 0.537 .9949213 1.009825

sp75\_601\_3\_c\_lag\_all | 1.052695 .039813 1.36 0.175 .9774845 1.133692

sp75\_603\_c\_lag\_all | .996369 .0088174 -0.41 0.681 .9792363 1.013802

sp75\_701\_3\_c\_lag\_all | 1.011843 .011443 1.04 0.298 .9896624 1.034522

sp75\_703\_3\_c\_lag\_all | 1.01575 .009702 1.64 0.102 .9969115 1.034945

sp75\_703\_c\_lag\_all | 1.006251 .0056985 1.10 0.271 .9951435 1.017482

sp75\_705\_3\_c\_lag\_all | 1 (omitted)

sp75\_800\_3\_c\_lag\_all | .9882878 .0165459 -0.70 0.482 .9563847 1.021255

sp75\_803\_c\_lag\_all | .9911218 .0135544 -0.65 0.514 .9649086 1.018047

sp75\_900\_3\_c\_lag\_all | .9921426 .0090691 -0.86 0.388 .9745258 1.010078

sp75\_903\_c\_lag\_all | 1.003751 .0053831 0.70 0.485 .9932554 1.014357

sp77\_103\_c\_lag\_all | 1.043624 .0608956 0.73 0.464 .9308432 1.17007

sp77\_1103\_c\_lag\_all | 1.001957 .0024688 0.79 0.428 .9971299 1.006807

sp77\_1403\_c\_lag\_all | .9959399 .0218606 -0.19 0.853 .9540025 1.039721

sp77\_1433\_c\_lag\_all | .9795092 .0289708 -0.70 0.484 .9243419 1.037969

sp77\_203\_c\_lag\_all | .9729008 .0192888 -1.39 0.166 .9358206 1.01145

sp77\_403\_c\_lag\_all | .9698216 .0295562 -1.01 0.315 .9135887 1.029516

sp77\_413\_c\_lag\_all | 1.035168 .0275947 1.30 0.195 .9824719 1.09069

sp77\_503\_c\_lag\_all | 1.005379 .0212528 0.25 0.800 .9645758 1.047909

sp77\_513\_c\_lag\_all | 1.004351 .0044191 0.99 0.324 .9957271 1.01305

sp77\_603\_c\_lag\_all | 1.022761 .0380883 0.60 0.546 .9507684 1.100204

sp77\_703\_c\_lag\_all | .7837543 .0622487 -3.07 0.002 .670771 .9157682

sp77\_803\_c\_lag\_all | 1.078665 .0509853 1.60 0.109 .9832247 1.183369

sp77\_807\_3\_c\_lag\_all | 1.081028 .0670094 1.26 0.209 .9573568 1.220675

sp77\_903\_c\_lag\_all | 1.022786 .0436075 0.53 0.597 .9407907 1.111928

sp47\_44\_c\_lag\_all | .9781962 .008805 -2.45 0.014 .9610901 .9956067

sp48\_24\_c\_lag\_all | 1 (omitted)

sp48\_4\_c\_lag\_all | 1 (omitted)

sp75\_1103\_4\_c\_lag\_all | 1.000159 .0015993 0.10 0.921 .9970292 1.003298

sp75\_1104\_c\_lag\_all | .9972465 .0043789 -0.63 0.530 .9887008 1.005866

sp75\_1106\_4\_c\_lag\_all | 1.001934 .015649 0.12 0.902 .971727 1.03308

sp75\_1107\_14\_c\_lag\_all | 1.360676 .115561 3.63 0.000 1.152027 1.607113

sp75\_1400\_4\_c\_lag\_all | .9859114 .0150476 -0.93 0.353 .9568553 1.01585

sp75\_1403\_4\_c\_lag\_all | 1.13797 .0782156 1.88 0.060 .9945474 1.302075

sp75\_1404\_c\_lag\_all | .9991116 .0559721 -0.02 0.987 .8952165 1.115064

sp75\_1434\_c\_lag\_all | 1.001914 .0125294 0.15 0.878 .9776554 1.026775

sp75\_1914\_c\_lag\_all | 1.00015 .0008076 0.19 0.852 .9985688 1.001734

sp75\_214\_c\_lag\_all | .9972984 .005295 -0.51 0.610 .9869742 1.007731

sp75\_324\_c\_lag\_all | .9887898 .0122933 -0.91 0.365 .9649866 1.01318

sp75\_344\_c\_lag\_all | .9935747 .0140809 -0.45 0.649 .9663564 1.02156

sp75\_504\_c\_lag\_all | .9937206 .0132534 -0.47 0.637 .9680809 1.020039

sp75\_514\_c\_lag\_all | 1.001808 .0027404 0.66 0.509 .9964516 1.007194

sp75\_604\_c\_lag\_all | 1.00084 .0006883 1.22 0.222 .9994915 1.00219

sp75\_701\_4\_c\_lag\_all | 1.040447 .044528 0.93 0.354 .9567339 1.131485

sp75\_703\_4\_c\_lag\_all | 1.09669 .0592543 1.71 0.088 .9864912 1.219198

sp75\_704\_c\_lag\_all | .904087 .0382486 -2.38 0.017 .832145 .9822487

sp75\_800\_4\_c\_lag\_all | 1.001851 .0141722 0.13 0.896 .974456 1.030017

sp75\_814\_c\_lag\_all | .9862241 .0177728 -0.77 0.441 .951998 1.021681

sp75\_834\_c\_lag\_all | 1 (omitted)

sp75\_900\_4\_c\_lag\_all | .9972731 .0036963 -0.74 0.461 .9900548 1.004544

sp75\_902\_4\_c\_lag\_all | 1.013731 .0075016 1.84 0.065 .9991341 1.028541

sp75\_904\_c\_lag\_all | 1.002018 .0010786 1.87 0.061 .9999062 1.004134

sp77\_104\_c\_lag\_all | .9249772 .0822294 -0.88 0.380 .7770701 1.101037

sp77\_1104\_c\_lag\_all | 1.000045 .0011484 0.04 0.969 .997797 1.002299

sp77\_1434\_c\_lag\_all | 1.011683 .0340117 0.35 0.730 .9471699 1.08059

sp77\_204\_c\_lag\_all | .9949065 .0056246 -0.90 0.366 .9839434 1.005992

sp77\_314\_c\_lag\_all | 1.18212 .1436554 1.38 0.169 .9315808 1.500039

sp77\_404\_c\_lag\_all | .9988538 .0011558 -0.99 0.322 .9965911 1.001122

sp77\_504\_c\_lag\_all | .9911494 .0066971 -1.32 0.188 .9781099 1.004363

sp77\_514\_c\_lag\_all | .9741164 .0216069 -1.18 0.237 .9326749 1.017399

sp77\_604\_c\_lag\_all | .9662716 .0222289 -1.49 0.136 .9236715 1.010837

sp75\_804\_c\_lag\_all | .9766837 .007644 -3.01 0.003 .9618161 .9917811

sp77\_704\_c\_lag\_all | 1.052795 .0753547 0.72 0.472 .9149943 1.211349

sp77\_804\_c\_lag\_all | .9595057 .0428066 -0.93 0.354 .8791698 1.047183

sp77\_904\_c\_lag\_all | .9932747 .0049031 -1.37 0.172 .9837112 1.002931

sp48\_25\_c\_lag\_all | 1.011542 .0151303 0.77 0.443 .9823181 1.041636

sp48\_5\_c\_lag\_all | 1.042655 .0172618 2.52 0.012 1.009365 1.077042

sp75\_1106\_5\_c\_lag\_all | .9912482 .0065921 -1.32 0.186 .9784117 1.004253

sp75\_1403\_5\_c\_lag\_all | .997936 .0008047 -2.56 0.010 .9963601 .9995144

sp75\_1405\_c\_lag\_all | .9949716 .0026956 -1.86 0.063 .9897024 1.000269

sp75\_1435\_c\_lag\_all | 1.004827 .0371039 0.13 0.896 .9346735 1.080245

sp75\_155\_c\_lag\_all | .9406122 .0651201 -0.88 0.377 .8212597 1.07731

sp75\_1725\_c\_lag\_all | 1.000647 .0005304 1.22 0.222 .9996081 1.001687

sp75\_1915\_c\_lag\_all | .9944938 .0159388 -0.34 0.730 .96374 1.026229

sp75\_505\_c\_lag\_all | 1.038837 .0249745 1.58 0.113 .9910228 1.088957

sp75\_515\_c\_lag\_all | .9967288 .0015415 -2.12 0.034 .993712 .9997548

sp75\_605\_c\_lag\_all | 1.003231 .0028901 1.12 0.263 .997582 1.008911

sp75\_705\_c\_lag\_all | 1.040407 .046625 0.88 0.377 .9529215 1.135923

sp75\_815\_c\_lag\_all | .9856696 .0134421 -1.06 0.290 .9596726 1.012371

sp75\_825\_c\_lag\_all | .9739038 .0212624 -1.21 0.226 .9331093 1.016482

sp75\_905\_c\_lag\_all | .9208676 .0272211 -2.79 0.005 .8690315 .9757957

sp77\_1605\_c\_lag\_all | .9999151 .0013524 -0.06 0.950 .997268 1.002569

sp77\_1915\_c\_lag\_all | .954935 .0219716 -2.00 0.045 .912828 .9989844

sp77\_205\_c\_lag\_all | .9987794 .0012866 -0.95 0.343 .996261 1.001304

sp77\_305\_c\_lag\_all | .6502687 .0675804 -4.14 0.000 .5304325 .7971785

sp77\_315\_c\_lag\_all | 1.041966 .1897017 0.23 0.821 .7292609 1.488759

sp77\_405\_c\_lag\_all | .9689618 .0144443 -2.12 0.034 .941061 .9976899

sp77\_505\_c\_lag\_all | 1.000475 .0035664 0.13 0.894 .9935099 1.00749

sp77\_515\_c\_lag\_all | 1.013996 .0603537 0.23 0.815 .9023437 1.139463

sp77\_605\_c\_lag\_all | .8492362 .0523311 -2.65 0.008 .7526209 .9582541

sp75\_805\_c\_lag\_all | 1.021648 .021599 1.01 0.311 .9801796 1.06487

sp77\_705\_c\_lag\_all | .9882119 .0120752 -0.97 0.332 .964826 1.012165

sp77\_805\_c\_lag\_all | .8503763 .0608233 -2.27 0.023 .7391436 .9783482

sp48\_26\_c\_lag\_all | 1.015358 .0111274 1.39 0.164 .9937818 1.037404

sp48\_6\_c\_lag\_all | 1.007524 .0092305 0.82 0.413 .9895935 1.025778

sp75\_1106\_6\_c\_lag\_all | 1.066788 .1152721 0.60 0.550 .8631798 1.318423

sp75\_1106\_c\_lag\_all | 1.037463 .0188162 2.03 0.043 1.001232 1.075005

sp75\_1403\_6\_c\_lag\_all | .999437 .0010945 -0.51 0.607 .9972941 1.001584

sp75\_1436\_c\_lag\_all | 1.085264 .1045049 0.85 0.395 .8986065 1.310694

sp75\_156\_c\_lag\_all | .8571227 .0643665 -2.05 0.040 .7398116 .9930357

sp75\_1712\_6\_c\_lag\_all | .9941029 .0067225 -0.87 0.382 .981014 1.007367

sp75\_1726\_c\_lag\_all | 1.043093 .0174419 2.52 0.012 1.009462 1.077845

sp75\_506\_c\_lag\_all | .9925981 .009209 -0.80 0.423 .9747118 1.010813

sp75\_516\_c\_lag\_all | .9963443 .0022169 -1.65 0.100 .9920087 1.000699

sp75\_606\_c\_lag\_all | 1.000518 .0009757 0.53 0.595 .9986073 1.002432

sp75\_706\_c\_lag\_all | .9743328 .0120878 -2.10 0.036 .9509269 .9983148

sp75\_816\_c\_lag\_all | .9927992 .0040089 -1.79 0.073 .9849729 1.000688

sp77\_1106\_c\_lag\_all | 1.078929 .0693647 1.18 0.237 .9511933 1.223818

sp77\_1606\_c\_lag\_all | 1.000391 .001728 0.23 0.821 .9970098 1.003784

sp77\_1906\_c\_lag\_all | 1.083806 .038777 2.25 0.024 1.010408 1.162536

sp77\_1916\_c\_lag\_all | 1.020797 .0271895 0.77 0.440 .9688738 1.075503

sp77\_206\_c\_lag\_all | 1.00702 .0083459 0.84 0.399 .9907948 1.023512

sp77\_216\_c\_lag\_all | 1.0014 .0056892 0.25 0.806 .9903107 1.012613

sp77\_506\_c\_lag\_all | .9925256 .0051648 -1.44 0.149 .9824542 1.0027

sp77\_516\_c\_lag\_all | 1.001005 .001965 0.51 0.609 .9971611 1.004864

sp77\_606\_c\_lag\_all | 1 (omitted)

sp75\_806\_c\_lag\_all | 1.102704 .0309532 3.48 0.000 1.043676 1.165071

sp77\_906\_c\_lag\_all | .5566176 .1437011 -2.27 0.023 .3355858 .923231

sp48\_27\_c\_lag\_all | .9920892 .0139714 -0.56 0.573 .9650802 1.019854

sp48\_7\_c\_lag\_all | 1.013939 .0114764 1.22 0.221 .9916934 1.036684

sp75\_1403\_7\_c\_lag\_all | .9867773 .0061869 -2.12 0.034 .9747254 .9989783

sp75\_1437\_c\_lag\_all | 1.008433 .0502438 0.17 0.866 .9146126 1.111878

sp75\_1727\_c\_lag\_all | 1.052589 .0340721 1.58 0.113 .9878833 1.121533

sp75\_337\_c\_lag\_all | 1.006398 .0051851 1.24 0.216 .9962861 1.016612

sp75\_507\_c\_lag\_all | 1.002622 .0083398 0.31 0.753 .9864088 1.019102

sp75\_517\_c\_lag\_all | .9996836 .000483 -0.66 0.512 .9987374 1.000631

sp75\_607\_c\_lag\_all | .9867966 .0067057 -1.96 0.050 .9737408 1.000027

sp75\_827\_c\_lag\_all | .9814977 .0259405 -0.71 0.480 .9319496 1.03368

sp75\_907\_c\_lag\_all | .9864684 .0077872 -1.73 0.084 .9713232 1.00185

sp77\_1437\_c\_lag\_all | .9298519 .0300997 -2.25 0.025 .8726899 .9907579

sp77\_207\_c\_lag\_all | 1.006274 .0052061 1.21 0.227 .996122 1.01653

sp77\_507\_c\_lag\_all | .9884088 .0169948 -0.68 0.498 .9556546 1.022286

sp75\_807\_c\_lag\_all | 1.00035 .0013368 0.26 0.794 .9977331 1.002973

sp77\_807\_c\_lag\_all | .9737602 .0241675 -1.07 0.284 .9275264 1.022299

sp48\_28\_c\_lag\_all | .9746995 .0140137 -1.78 0.075 .9476166 1.002556

sp48\_8\_c\_lag\_all | 1.027818 .0133589 2.11 0.035 1.001966 1.054338

sp75\_1403\_8\_c\_lag\_all | 1.000504 .0009353 0.54 0.590 .998673 1.002339

sp75\_1438\_c\_lag\_all | 1 (omitted)

sp75\_1728\_c\_lag\_all | 1.051866 .0527832 1.01 0.314 .9533379 1.160578

sp75\_208\_c\_lag\_all | .9971568 .0024831 -1.14 0.253 .9923018 1.002035

sp75\_518\_c\_lag\_all | .9996032 .0025771 -0.15 0.878 .994565 1.004667

sp75\_705\_8\_c\_lag\_all | .8879789 .0612869 -1.72 0.085 .7756289 1.016603

sp75\_818\_c\_lag\_all | 1.039486 .030137 1.34 0.182 .9820652 1.100264

sp77\_1438\_c\_lag\_all | .9595268 .1321622 -0.30 0.764 .7325129 1.256895

sp77\_208\_c\_lag\_all | 1.004658 .0024295 1.92 0.055 .999908 1.009431

sp77\_408\_c\_lag\_all | 1.031979 .0223159 1.46 0.145 .9891543 1.076657

sp77\_508\_c\_lag\_all | .9901679 .0154326 -0.63 0.526 .960378 1.020882

sp75\_808\_c\_lag\_all | 1.000845 .0143298 0.06 0.953 .9731499 1.029329

sp77\_704\_8\_c\_lag\_all | 1.029224 .0277425 1.07 0.285 .976261 1.08506

sp77\_808\_c\_lag\_all | 1.023218 .050674 0.46 0.643 .9285663 1.127517

sp75\_1403\_9\_c\_lag\_all | .9996008 .0061991 -0.06 0.949 .9875244 1.011825

sp75\_1729\_c\_lag\_all | .9022928 .026087 -3.56 0.000 .8525848 .9548989

sp75\_1909\_c\_lag\_all | 1.000454 .0007889 0.58 0.565 .9989091 1.002002

sp75\_519\_c\_lag\_all | .9603336 .0639915 -0.61 0.544 .8427575 1.094313

sp75\_819\_c\_lag\_all | .8877266 .0799986 -1.32 0.186 .7439987 1.05922

sp77\_309\_c\_lag\_all | .752035 .0708227 -3.03 0.002 .6252826 .9044816

sp77\_409\_c\_lag\_all | .9974539 .0313675 -0.08 0.935 .9378311 1.060867

sp77\_509\_c\_lag\_all | .9948521 .0085502 -0.60 0.548 .9782343 1.011752

sp75\_809\_c\_lag\_all | .9919378 .006117 -1.31 0.189 .9800208 1.004

sp77\_704\_9\_c\_lag\_all | .8207254 .0721902 -2.25 0.025 .6907598 .9751439

sp77\_809\_c\_lag\_all | .9939031 .0121427 -0.50 0.617 .9703865 1.01799

sp72\_610\_c\_lag\_all | .9485353 .0667305 -0.75 0.453 .8263623 1.088771

sp72\_620\_c\_lag\_all | .9976803 .0429731 -0.05 0.957 .9169118 1.085563

sp72\_630\_c\_lag\_all | .9990671 .0014039 -0.66 0.507 .9963193 1.001822

sp75\_100\_c\_lag\_all | 1.041231 .0300797 1.40 0.162 .9839134 1.101887

sp75\_1101\_20\_c\_lag\_all | .9813409 .0248305 -0.74 0.457 .9338611 1.031235

sp75\_1400\_c\_lag\_all | .995682 .0089022 -0.48 0.628 .9783861 1.013284

sp75\_1403\_10\_c\_lag\_all | 1.004443 .0020063 2.22 0.026 1.000518 1.008383

sp75\_150\_c\_lag\_all | 1.036072 .0339277 1.08 0.279 .9716636 1.104749

sp75\_160\_c\_lag\_all | .9316237 .0602529 -1.10 0.273 .8207085 1.057529

sp75\_1712\_10\_c\_lag\_all | .9806855 .0109983 -1.74 0.082 .9593645 1.00248

sp75\_1720\_c\_lag\_all | 1.003419 .007897 0.43 0.665 .98806 1.019017

sp75\_1730\_c\_lag\_all | .9874988 .0095011 -1.31 0.191 .9690516 1.006297

sp75\_1910\_c\_lag\_all | 1.000815 .0012141 0.67 0.502 .9984379 1.003197

sp75\_320\_c\_lag\_all | .9926094 .0031295 -2.35 0.019 .9864946 .9987621

sp75\_340\_c\_lag\_all | 1.001565 .0012801 1.22 0.221 .9990594 1.004077

sp75\_520\_c\_lag\_all | 1.003694 .0044672 0.83 0.407 .9949765 1.012488

sp75\_600\_c\_lag\_all | .9438282 .0412941 -1.32 0.186 .8662663 1.028335

sp75\_700\_c\_lag\_all | 1.002822 .0055323 0.51 0.610 .9920371 1.013724

sp75\_800\_c\_lag\_all | 1.015299 .0167852 0.92 0.358 .9829277 1.048736

sp75\_820\_c\_lag\_all | 1.068483 .0252563 2.80 0.005 1.020111 1.119149

sp75\_900\_c\_lag\_all | 1.001987 .0032855 0.61 0.545 .9955686 1.008448

sp77\_1710\_c\_lag\_all | .9963636 .0040354 -0.90 0.368 .9884856 1.004304

sp77\_200\_c\_lag\_all | 1.005656 .0018601 3.05 0.002 1.002017 1.009309

sp77\_210\_c\_lag\_all | 1.01707 .0111171 1.55 0.121 .9955132 1.039095

sp77\_400\_c\_lag\_all | 1.001766 .0015723 1.12 0.261 .9986893 1.004853

sp77\_410\_c\_lag\_all | 1.00163 .0020865 0.78 0.434 .9975486 1.005728

sp77\_500\_c\_lag\_all | .9333718 .0286479 -2.25 0.025 .8788785 .9912439

sp77\_510\_c\_lag\_all | 1.020767 .0458899 0.46 0.648 .9346735 1.114791

sp77\_600\_c\_lag\_all | .9733096 .0246218 -1.07 0.285 .9262285 1.022784

sp77\_700\_c\_lag\_all | 1.039189 .0181612 2.20 0.028 1.004196 1.075401

sp75\_810\_c\_lag\_all | 1.013409 .0064188 2.10 0.035 1.000907 1.026068

sp77\_800\_c\_lag\_all | .9664056 .0336881 -0.98 0.327 .9025833 1.034741

sp77\_810\_c\_lag\_all | .9785659 .0218069 -0.97 0.331 .9367452 1.022254

sp77\_900\_c\_lag\_all | .9945847 .0219426 -0.25 0.806 .9524945 1.038535

mine\_time | .9931518 .0103004 -0.66 0.508 .9731672 1.013547

onsite\_insp\_hours | 1.000004 .0000402 0.10 0.923 .9999251 1.000083

|

state |

1 | 1.218681 .3280673 0.73 0.463 .7190311 2.065534

2 | 1.996321 .1708246 8.08 0.000 1.688081 2.360845

3 | .824782 .1592168 -1.00 0.318 .564966 1.204082

4 | 1.056633 .1196575 0.49 0.627 .8463126 1.319222

5 | .6928194 .1136913 -2.24 0.025 .5022712 .9556564

6 | .8683232 .0535148 -2.29 0.022 .7695235 .9798079

7 | .9607004 .264851 -0.15 0.884 .5596599 1.649118

8 | .7578889 .1347435 -1.56 0.119 .5348996 1.073838

9 | .4625569 .2094351 -1.70 0.089 .1904411 1.123491

10 | .70293 .1269918 -1.95 0.051 .4933254 1.001592

11 | 1.053405 .4490643 0.12 0.903 .456804 2.429186

12 | 1.104476 .1046861 1.05 0.294 .9172265 1.329953

13 | 1.296931 .2074164 1.63 0.104 .9479501 1.774387

14 | .7187486 .0971933 -2.44 0.015 .5514075 .9368743

15 | .7622029 .0565503 -3.66 0.000 .6590482 .8815033

17 | .5756638 .2520208 -1.26 0.207 .2440732 1.357744

|

time |

2000 | 1.082 .0631413 1.35 0.177 .9650607 1.21311

2002 | .9736078 .0551071 -0.47 0.637 .8713753 1.087834

2003 | .8818593 .0592991 -1.87 0.062 .7729683 1.00609

2004 | .9149321 .0628275 -1.29 0.195 .7997195 1.046743

2005 | .817734 .0570415 -2.88 0.004 .7132404 .9375364

2006 | .817164 .0591767 -2.79 0.005 .7090349 .941783

2007 | .7274441 .0536888 -4.31 0.000 .6294729 .8406637

2008 | .6515632 .049133 -5.68 0.000 .5620426 .7553424

2009 | .5811296 .0457677 -6.89 0.000 .4980069 .6781264

2010 | .5785107 .0468966 -6.75 0.000 .4935252 .6781307

2011 | .5894811 .0482254 -6.46 0.000 .5021497 .6920008

2012 | .5797456 .0508859 -6.21 0.000 .4881183 .6885728

2013 | .4997465 .0474066 -7.31 0.000 .4149576 .6018604

2014 | .4599712 .0472178 -7.57 0.000 .3761417 .5624834

2015 | .4623877 .0515599 -6.92 0.000 .3716127 .5753366

|

\_cons | .0000162 1.05e-06 -170.03 0.000 .0000142 .0000184

ln(hours) | 1 (exposure)

-----------------------+----------------------------------------------------------------

/lnalpha | -2.659087 .2735554 -3.195246 -2.122928

-----------------------+----------------------------------------------------------------

alpha | .0700121 .0191522 .0409565 .1196807

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(est1 stored)

**. lrtest pois nbin, stats force**

Likelihood-ratio test LR chi2(1) = 66.39

(Assumption: pois nested in nbin) Prob > chi2 = 0.0000

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------

Model | Obs ll(null) ll(model) df AIC BIC

-------------+---------------------------------------------------------------

pois | 6,253 -9569.622 -8351.468 329 17360.94 19578.66

nbin | 6,253 -8961.932 -8318.271 330 17296.54 19521.01

-----------------------------------------------------------------------------

Note: N=Obs used in calculating BIC; see [R] BIC note.

**. summ MR spcv4\_yhat**

Variable | Obs Mean Std. Dev. Min Max

-------------+---------------------------------------------------------

MR | 6,253 1.881017 3.268911 0 37

spcv4\_yhat | 6,253 1.887031 2.929576 .0005777 40.15062