. // Model SP.C.SSV.4

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

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

note: sp71\_701\_ss\_c\_lag\_all omitted because of collinearity

note: sp75\_1101\_20\_ss\_c\_lag\_all omitted because of collinearity

note: sp75\_1432\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_1106\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_411\_ss\_c\_lag\_all omitted because of collinearity

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

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

note: sp77\_900\_2\_ss\_c\_lag\_all omitted because of collinearity

Iteration 0: log pseudolikelihood = -11948.338

Iteration 1: log pseudolikelihood = -11240.758

Iteration 2: log pseudolikelihood = -11231.166

Iteration 3: log pseudolikelihood = -11230.814

Iteration 4: log pseudolikelihood = -11230.755

Iteration 5: log pseudolikelihood = -11230.741

Iteration 6: log pseudolikelihood = -11230.738

Iteration 7: log pseudolikelihood = -11230.737

Iteration 8: log pseudolikelihood = -11230.737

Iteration 9: log pseudolikelihood = -11230.737

Generalized linear models No. of obs = 13,797

Optimization : ML Residual df = 13,460

Scale parameter = 1

Deviance = 11215.82338 (1/df) Deviance = .8332707

Pearson = 113567.8975 (1/df) Pearson = 8.437437

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

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

AIC = 1.676848

Log pseudolikelihood = -11230.73722 BIC = -117087.7

(Std. Err. adjusted for 801 clusters in mineid)

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| Robust

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

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

sp47\_41\_ss\_c\_lag\_all | .8069394 .274909 -0.63 0.529 .4138592 1.573364

sp47\_44\_ss\_c\_lag\_all | .4893409 .1248091 -2.80 0.005 .2968301 .8067057

sp48\_11\_ss\_c\_lag\_all | 1.027048 .0550437 0.50 0.619 .924637 1.140801

sp48\_25\_ss\_c\_lag\_all | 1.005235 .0509485 0.10 0.918 .9101773 1.11022

sp48\_26\_ss\_c\_lag\_all | 1.156992 .1444788 1.17 0.243 .9058095 1.477827

sp48\_27\_ss\_c\_lag\_all | 1.143548 .0695572 2.21 0.027 1.015031 1.288337

sp48\_28\_ss\_c\_lag\_all | .835769 .0780703 -1.92 0.055 .695944 1.003687

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

sp48\_5\_ss\_c\_lag\_all | 1.067573 .0705598 0.99 0.323 .937861 1.215225

sp48\_6\_ss\_c\_lag\_all | 1.113242 .0690534 1.73 0.084 .9858038 1.257155

sp48\_7\_ss\_c\_lag\_all | 1.075938 .0547884 1.44 0.151 .9737395 1.188863

sp48\_8\_ss\_c\_lag\_all | 1.001722 .1012471 0.02 0.986 .8217009 1.221183

sp71\_701\_ss\_c\_lag\_all | 1 (omitted)

sp72\_503\_ss\_c\_lag\_all | .6766481 .1102625 -2.40 0.017 .4916502 .9312569

sp72\_610\_ss\_c\_lag\_all | 1.73246 .5296277 1.80 0.072 .9515762 3.154153

sp72\_620\_ss\_c\_lag\_all | 1.105561 .2681833 0.41 0.679 .6872285 1.778543

sp72\_630\_ss\_c\_lag\_all | .9825281 .0066341 -2.61 0.009 .9696112 .9956171

sp75\_100\_ss\_c\_lag\_all | .8680932 .223785 -0.55 0.583 .5237643 1.438788

sp75\_1001\_1\_ss\_c\_lag\_all | 3.466483 1.554176 2.77 0.006 1.439654 8.346797

sp75\_1001\_ss\_c\_lag\_all | .6426288 .220428 -1.29 0.197 .3280874 1.258725

sp75\_1003\_1\_ss\_c\_lag\_all | 1.243795 .2368722 1.15 0.252 .8563343 1.806568

sp75\_1100\_2\_ss\_c\_lag\_all | 1.017869 .0128408 1.40 0.160 .9930104 1.043351

sp75\_1101\_20\_ss\_c\_lag\_all | 1 (omitted)

sp75\_1102\_ss\_c\_lag\_all | .8665299 .0449025 -2.76 0.006 .7828443 .9591616

sp75\_1103\_4\_ss\_c\_lag\_all | .9947115 .0314399 -0.17 0.867 .9349603 1.058281

sp75\_1104\_ss\_c\_lag\_all | 1.041623 .1053053 0.40 0.687 .8543907 1.269886

sp75\_1106\_2\_ss\_c\_lag\_all | 1.058504 .0467627 1.29 0.198 .9707071 1.154243

sp75\_1106\_3\_ss\_c\_lag\_all | 1.022487 .018304 1.24 0.214 .987234 1.058999

sp75\_1106\_4\_ss\_c\_lag\_all | 1.059211 .122427 0.50 0.619 .8444961 1.328516

sp75\_1106\_5\_ss\_c\_lag\_all | .9732956 .0627471 -0.42 0.675 .8577662 1.104385

sp75\_1106\_6\_ss\_c\_lag\_all | 1.15616 .4156986 0.40 0.687 .5714362 2.339206

sp75\_1106\_ss\_c\_lag\_all | .999677 .0819341 -0.00 0.997 .8513237 1.173883

sp75\_1107\_14\_ss\_c\_lag\_all | 2.577462 .9339847 2.61 0.009 1.26691 5.243712

sp75\_1400\_1\_ss\_c\_lag\_all | 1.276289 .2116154 1.47 0.141 .9221797 1.766374

sp75\_1400\_2\_ss\_c\_lag\_all | .7501063 .3503941 -0.62 0.538 .3002649 1.873877

sp75\_1400\_3\_ss\_c\_lag\_all | .9067204 .0780076 -1.14 0.255 .7660237 1.073259

sp75\_1400\_4\_ss\_c\_lag\_all | 1.165053 .2452029 0.73 0.468 .7712538 1.759923

sp75\_1400\_ss\_c\_lag\_all | .9304374 .0366443 -1.83 0.067 .8613179 1.005104

sp75\_1401\_ss\_c\_lag\_all | 1.311754 .2192854 1.62 0.105 .9452728 1.820318

sp75\_1403\_10\_ss\_c\_lag\_all | .9953118 .0139529 -0.34 0.737 .9683369 1.023038

sp75\_1403\_11\_ss\_c\_lag\_all | 1.45317 .5014213 1.08 0.279 .7389351 2.857764

sp75\_1403\_3\_ss\_c\_lag\_all | .3861159 .1208086 -3.04 0.002 .2091185 .7129236

sp75\_1403\_4\_ss\_c\_lag\_all | 1.346289 .3127226 1.28 0.201 .8539199 2.122558

sp75\_1403\_5\_ss\_c\_lag\_all | 1.000062 .0056528 0.01 0.991 .9890438 1.011203

sp75\_1403\_6\_ss\_c\_lag\_all | .9985227 .009055 -0.16 0.870 .980932 1.016429

sp75\_1403\_7\_ss\_c\_lag\_all | 1.008656 .036696 0.24 0.813 .9392378 1.083205

sp75\_1403\_8\_ss\_c\_lag\_all | .9785453 .008686 -2.44 0.015 .9616682 .9957185

sp75\_1403\_9\_ss\_c\_lag\_all | 1.010513 .0761175 0.14 0.890 .8718151 1.171275

sp75\_1404\_1\_ss\_c\_lag\_all | .5261062 .0906172 -3.73 0.000 .3753716 .7373699

sp75\_1404\_ss\_c\_lag\_all | .9977419 .2441855 -0.01 0.993 .6175851 1.611906

sp75\_1405\_1\_ss\_c\_lag\_all | 1.708063 .5301255 1.72 0.085 .9296497 3.138255

sp75\_1405\_ss\_c\_lag\_all | 1.00217 .0162064 0.13 0.893 .970904 1.034443

sp75\_1431\_ss\_c\_lag\_all | .3839886 .1407169 -2.61 0.009 .1872346 .7874999

sp75\_1432\_ss\_c\_lag\_all | 1 (omitted)

sp75\_1433\_ss\_c\_lag\_all | .8575386 .1334158 -0.99 0.323 .6321553 1.163278

sp75\_1434\_ss\_c\_lag\_all | .9126705 .0742454 -1.12 0.261 .7781604 1.070432

sp75\_1435\_ss\_c\_lag\_all | .7277873 .188536 -1.23 0.220 .4380237 1.209237

sp75\_1437\_ss\_c\_lag\_all | 1.787346 .3639939 2.85 0.004 1.199115 2.664135

sp75\_150\_ss\_c\_lag\_all | 2.7718 .698093 4.05 0.000 1.691929 4.540897

sp75\_151\_ss\_c\_lag\_all | .7994136 .2023438 -0.88 0.376 .4867652 1.312876

sp75\_153\_ss\_c\_lag\_all | 2.533887 1.241658 1.90 0.058 .9697966 6.620545

sp75\_155\_ss\_c\_lag\_all | .4241443 .0873132 -4.17 0.000 .2833267 .6349503

sp75\_156\_ss\_c\_lag\_all | .2774532 .078699 -4.52 0.000 .1591286 .4837614

sp75\_1600\_2\_ss\_c\_lag\_all | 1.150877 .1279754 1.26 0.206 .9255006 1.431136

sp75\_1712\_10\_ss\_c\_lag\_all | .9115725 .1030407 -0.82 0.413 .7304233 1.137648

sp75\_1712\_6\_ss\_c\_lag\_all | 1.234913 .2904618 0.90 0.370 .7788014 1.95815

sp75\_1720\_ss\_c\_lag\_all | .984827 .0341059 -0.44 0.659 .9201989 1.053994

sp75\_1721\_ss\_c\_lag\_all | .6352533 .088495 -3.26 0.001 .4834693 .8346895

sp75\_1725\_ss\_c\_lag\_all | 1.000288 .001963 0.15 0.883 .9964477 1.004143

sp75\_1726\_ss\_c\_lag\_all | 1.15983 .0740607 2.32 0.020 1.023389 1.31446

sp75\_1727\_ss\_c\_lag\_all | .9465987 .1652549 -0.31 0.753 .6723032 1.332805

sp75\_1728\_ss\_c\_lag\_all | 1.585086 .1393028 5.24 0.000 1.334278 1.883039

sp75\_1729\_ss\_c\_lag\_all | .8425822 .0769836 -1.87 0.061 .7044355 1.007821

sp75\_1730\_ss\_c\_lag\_all | 1.2893 .1818303 1.80 0.072 .9779325 1.699805

sp75\_1731\_ss\_c\_lag\_all | 1.005973 .0023798 2.52 0.012 1.00132 1.010648

sp75\_1903\_ss\_c\_lag\_all | 1.052597 .1359761 0.40 0.692 .8171515 1.355881

sp75\_1909\_ss\_c\_lag\_all | .9989167 .007084 -0.15 0.879 .9851285 1.012898

sp75\_1910\_ss\_c\_lag\_all | 1.014432 .0192261 0.76 0.450 .977441 1.052823

sp75\_1911\_ss\_c\_lag\_all | .9494445 .0276193 -1.78 0.075 .8968259 1.00515

sp75\_1912\_ss\_c\_lag\_all | 1.141021 .2010719 0.75 0.454 .8077814 1.611733

sp75\_1913\_ss\_c\_lag\_all | .9313041 .1686602 -0.39 0.694 .6530373 1.328144

sp75\_1914\_ss\_c\_lag\_all | .9964122 .0059512 -0.60 0.547 .984816 1.008145

sp75\_1915\_ss\_c\_lag\_all | 1.047634 .1521468 0.32 0.749 .7881165 1.392607

sp75\_202\_ss\_c\_lag\_all | .999817 .0010373 -0.18 0.860 .9977859 1.001852

sp75\_208\_ss\_c\_lag\_all | .9987038 .0128236 -0.10 0.920 .9738837 1.024156

sp75\_211\_ss\_c\_lag\_all | .9933225 .0185729 -0.36 0.720 .9575792 1.0304

sp75\_212\_ss\_c\_lag\_all | .9863463 .0261835 -0.52 0.605 .9363398 1.039023

sp75\_214\_ss\_c\_lag\_all | 1.12989 .1150135 1.20 0.230 .9255306 1.379372

sp75\_312\_ss\_c\_lag\_all | 1.011025 .1096587 0.10 0.919 .8174062 1.250505

sp75\_320\_ss\_c\_lag\_all | .8784271 .0381059 -2.99 0.003 .8068279 .9563802

sp75\_324\_ss\_c\_lag\_all | .9972097 .0629709 -0.04 0.965 .8811211 1.128593

sp75\_337\_ss\_c\_lag\_all | .9758047 .0221904 -1.08 0.281 .9332674 1.020281

sp75\_340\_ss\_c\_lag\_all | .9695401 .0111936 -2.68 0.007 .9478474 .9917291

sp75\_342\_ss\_c\_lag\_all | 1.004726 .0055456 0.85 0.393 .9939156 1.015655

sp75\_344\_ss\_c\_lag\_all | 1.01029 .0754683 0.14 0.891 .8726934 1.169582

sp75\_352\_ss\_c\_lag\_all | .8860853 .0563002 -1.90 0.057 .7823333 1.003597

sp75\_382\_ss\_c\_lag\_all | 1.307654 .1068859 3.28 0.001 1.114081 1.53486

sp75\_503\_ss\_c\_lag\_all | .9976861 .0025044 -0.92 0.356 .9927896 1.002607

sp75\_504\_ss\_c\_lag\_all | .7374691 .1470544 -1.53 0.127 .4988969 1.090127

sp75\_505\_ss\_c\_lag\_all | 1.117344 .2833181 0.44 0.662 .6797561 1.836627

sp75\_506\_1\_ss\_c\_lag\_all | 1.456293 .2584852 2.12 0.034 1.028406 2.062211

sp75\_506\_ss\_c\_lag\_all | .9001541 .1286492 -0.74 0.462 .6802428 1.191159

sp75\_507\_ss\_c\_lag\_all | .9860194 .0498003 -0.28 0.780 .8930881 1.088621

sp75\_511\_1\_ss\_c\_lag\_all | .7530386 .2093375 -1.02 0.308 .4367083 1.298503

sp75\_511\_ss\_c\_lag\_all | 1.052072 .0502777 1.06 0.288 .9580039 1.155377

sp75\_512\_1\_ss\_c\_lag\_all | .6499753 .2901801 -0.96 0.335 .2709441 1.559244

sp75\_512\_2\_ss\_c\_lag\_all | 1.09893 .0452523 2.29 0.022 1.013722 1.1913

sp75\_512\_ss\_c\_lag\_all | 1.003817 .0052336 0.73 0.465 .9936114 1.014127

sp75\_513\_1\_ss\_c\_lag\_all | 1.206647 .3209846 0.71 0.480 .7163893 2.032411

sp75\_513\_ss\_c\_lag\_all | 1.04267 .1091535 0.40 0.690 .8492536 1.280136

sp75\_514\_ss\_c\_lag\_all | .9994227 .022138 -0.03 0.979 .9569615 1.043768

sp75\_515\_ss\_c\_lag\_all | .9687011 .0163848 -1.88 0.060 .937114 1.001353

sp75\_516\_1\_ss\_c\_lag\_all | .7736491 .1808988 -1.10 0.272 .4892283 1.223423

sp75\_516\_2\_ss\_c\_lag\_all | .4495881 .1131792 -3.18 0.001 .2744944 .73637

sp75\_516\_ss\_c\_lag\_all | .9953877 .0303209 -0.15 0.879 .937699 1.056626

sp75\_517\_1\_ss\_c\_lag\_all | .6383453 .1208545 -2.37 0.018 .4404556 .9251436

sp75\_517\_ss\_c\_lag\_all | 1.002557 .0018939 1.35 0.176 .998852 1.006276

sp75\_518\_1\_ss\_c\_lag\_all | .97581 .0442863 -0.54 0.590 .8927589 1.066587

sp75\_518\_ss\_c\_lag\_all | 1.040181 .0223459 1.83 0.067 .9972934 1.084914

sp75\_519\_ss\_c\_lag\_all | .9843872 .3365404 -0.05 0.963 .5036848 1.923858

sp75\_520\_ss\_c\_lag\_all | .9360701 .0300505 -2.06 0.040 .8789868 .9968604

sp75\_523\_1\_ss\_c\_lag\_all | .9843277 .0255393 -0.61 0.543 .9355231 1.035678

sp75\_523\_2\_ss\_c\_lag\_all | .9985203 .0197895 -0.07 0.940 .9604773 1.03807

sp75\_523\_ss\_c\_lag\_all | 1.036994 .0222211 1.70 0.090 .9943435 1.081474

sp75\_600\_1\_ss\_c\_lag\_all | .8938497 .2184524 -0.46 0.646 .5536497 1.443092

sp75\_600\_ss\_c\_lag\_all | .8201394 .1906802 -0.85 0.394 .5199788 1.293569

sp75\_601\_1\_ss\_c\_lag\_all | 1.016823 .018074 0.94 0.348 .9820089 1.052872

sp75\_601\_2\_ss\_c\_lag\_all | 1.175576 .1297002 1.47 0.143 .9469753 1.459362

sp75\_601\_3\_ss\_c\_lag\_all | 1.367656 .1694031 2.53 0.011 1.072862 1.743452

sp75\_601\_ss\_c\_lag\_all | 1.004202 .0265954 0.16 0.874 .9534056 1.057704

sp75\_602\_ss\_c\_lag\_all | 1.044089 .0579459 0.78 0.437 .936476 1.164068

sp75\_603\_ss\_c\_lag\_all | .9668685 .0362798 -0.90 0.369 .8983131 1.040656

sp75\_604\_ss\_c\_lag\_all | 1.003514 .0036304 0.97 0.332 .9964236 1.010655

sp75\_605\_ss\_c\_lag\_all | .9870326 .0236371 -0.55 0.586 .9417751 1.034465

sp75\_606\_ss\_c\_lag\_all | .9934329 .0107593 -0.61 0.543 .9725674 1.014746

sp75\_607\_ss\_c\_lag\_all | .9768951 .0487117 -0.47 0.639 .885939 1.077189

sp75\_700\_1\_ss\_c\_lag\_all | .9556985 .1532152 -0.28 0.777 .6980048 1.308529

sp75\_700\_ss\_c\_lag\_all | .946261 .0422036 -1.24 0.216 .8670557 1.032702

sp75\_701\_1\_ss\_c\_lag\_all | 1.01874 .0584392 0.32 0.746 .9104051 1.139965

sp75\_701\_2\_ss\_c\_lag\_all | .9023473 .0965896 -0.96 0.337 .7315751 1.112983

sp75\_701\_3\_ss\_c\_lag\_all | 1.01034 .0505234 0.21 0.837 .9160141 1.114379

sp75\_701\_4\_ss\_c\_lag\_all | .8786646 .2724488 -0.42 0.677 .4785087 1.613453

sp75\_701\_ss\_c\_lag\_all | .9982947 .0165516 -0.10 0.918 .9663755 1.031268

sp75\_703\_2\_ss\_c\_lag\_all | 1.377954 .2182847 2.02 0.043 1.010169 1.879643

sp75\_703\_3\_ss\_c\_lag\_all | 1.213888 .0993127 2.37 0.018 1.034043 1.425013

sp75\_703\_ss\_c\_lag\_all | 1.014113 .0338407 0.42 0.675 .9499085 1.082656

sp75\_704\_ss\_c\_lag\_all | .7251625 .2012365 -1.16 0.247 .4209421 1.249247

sp75\_705\_1\_ss\_c\_lag\_all | .97166 .1350107 -0.21 0.836 .7400161 1.275814

sp75\_705\_8\_ss\_c\_lag\_all | 9.53e-06 9.75e-06 -11.31 0.000 1.29e-06 .0000707

sp75\_705\_ss\_c\_lag\_all | .8784993 .1236972 -0.92 0.358 .6666346 1.157697

sp75\_706\_ss\_c\_lag\_all | .9567693 .0882634 -0.48 0.632 .7985142 1.146389

sp75\_800\_2\_ss\_c\_lag\_all | .5623099 .05193 -6.23 0.000 .4692089 .6738841

sp75\_800\_3\_ss\_c\_lag\_all | 1.127943 .2014347 0.67 0.500 .7948309 1.600663

sp75\_800\_4\_ss\_c\_lag\_all | 1.114646 .268505 0.45 0.652 .6951725 1.787234

sp75\_800\_ss\_c\_lag\_all | .9954931 .0492769 -0.09 0.927 .9034493 1.096914

sp75\_801\_ss\_c\_lag\_all | 1.096133 .2559806 0.39 0.694 .6935566 1.732387

sp75\_802\_ss\_c\_lag\_all | .9107962 .1398141 -0.61 0.543 .6741482 1.230515

sp75\_803\_2\_ss\_c\_lag\_all | .1642654 .0152095 -19.51 0.000 .1370038 .1969516

sp75\_803\_ss\_c\_lag\_all | .9744285 .0590409 -0.43 0.669 .8653174 1.097298

sp75\_812\_ss\_c\_lag\_all | .8498626 .1003771 -1.38 0.168 .6742383 1.071233

sp75\_814\_ss\_c\_lag\_all | .7074017 .0876241 -2.79 0.005 .5549194 .9017835

sp75\_815\_ss\_c\_lag\_all | 1.348837 .4437329 0.91 0.363 .7078414 2.570295

sp75\_816\_ss\_c\_lag\_all | .9175826 .0676373 -1.17 0.243 .7941472 1.060204

sp75\_818\_ss\_c\_lag\_all | 1.550376 .292352 2.33 0.020 1.07134 2.243607

sp75\_819\_ss\_c\_lag\_all | .5882315 .1932572 -1.62 0.106 .3089549 1.119957

sp75\_820\_ss\_c\_lag\_all | 1.088725 .0770894 1.20 0.230 .9476481 1.250804

sp75\_821\_ss\_c\_lag\_all | .7616265 .1102259 -1.88 0.060 .5735251 1.01142

sp75\_825\_ss\_c\_lag\_all | .8464945 .1090831 -1.29 0.196 .6575586 1.089717

sp75\_827\_ss\_c\_lag\_all | 1.079282 .2960527 0.28 0.781 .6304427 1.847668

sp75\_831\_ss\_c\_lag\_all | 1.62872 .3870189 2.05 0.040 1.02231 2.594838

sp75\_900\_2\_ss\_c\_lag\_all | .5928424 .1622932 -1.91 0.056 .3466723 1.013817

sp75\_900\_3\_ss\_c\_lag\_all | 1.121109 .1166878 1.10 0.272 .9142238 1.374811

sp75\_900\_4\_ss\_c\_lag\_all | .9326472 .1003046 -0.65 0.517 .7553915 1.151497

sp75\_900\_ss\_c\_lag\_all | .978896 .0156998 -1.33 0.184 .9486036 1.010156

sp75\_901\_ss\_c\_lag\_all | .9997569 .0911404 -0.00 0.998 .8361741 1.195342

sp75\_902\_1\_ss\_c\_lag\_all | 1.419094 .2337645 2.12 0.034 1.02753 1.959873

sp75\_902\_2\_ss\_c\_lag\_all | 1.02155 .0747403 0.29 0.771 .8850805 1.179062

sp75\_902\_4\_ss\_c\_lag\_all | 1.213468 .0694233 3.38 0.001 1.084752 1.357457

sp75\_902\_ss\_c\_lag\_all | .9913044 .02056 -0.42 0.674 .9518157 1.032431

sp75\_903\_ss\_c\_lag\_all | .9699773 .0304675 -0.97 0.332 .9120631 1.031569

sp75\_904\_ss\_c\_lag\_all | 1.017686 .0061965 2.88 0.004 1.005614 1.029904

sp75\_905\_ss\_c\_lag\_all | .6701929 .1233259 -2.17 0.030 .4672674 .961245

sp75\_907\_ss\_c\_lag\_all | .8037253 .1527698 -1.15 0.250 .55375 1.166545

sp77\_103\_ss\_c\_lag\_all | .8273387 .0612012 -2.56 0.010 .7156768 .9564223

sp77\_1103\_ss\_c\_lag\_all | 1.037481 .043605 0.88 0.381 .9554422 1.126564

sp77\_1104\_ss\_c\_lag\_all | .9903253 .0084759 -1.14 0.256 .9738513 1.007078

sp77\_1106\_ss\_c\_lag\_all | 1 (omitted)

sp77\_1111\_ss\_c\_lag\_all | 1.571863 .3094747 2.30 0.022 1.068628 2.312079

sp77\_1112\_ss\_c\_lag\_all | .9651088 .0599837 -0.57 0.568 .8544215 1.090135

sp77\_1403\_ss\_c\_lag\_all | 1.409321 .2034408 2.38 0.017 1.062028 1.870183

sp77\_1433\_ss\_c\_lag\_all | 1.006295 .2799875 0.02 0.982 .5832977 1.736042

sp77\_1434\_ss\_c\_lag\_all | .858779 .1252898 -1.04 0.297 .6452041 1.143051

sp77\_1437\_ss\_c\_lag\_all | .6435409 .1090474 -2.60 0.009 .4616798 .8970393

sp77\_1438\_ss\_c\_lag\_all | 1.254243 .7477036 0.38 0.704 .3898942 4.034748

sp77\_1605\_ss\_c\_lag\_all | 1.016017 .0134837 1.20 0.231 .9899305 1.042792

sp77\_1606\_ss\_c\_lag\_all | 1.011997 .0121743 0.99 0.322 .9884152 1.036142

sp77\_1710\_ss\_c\_lag\_all | .9660504 .0174032 -1.92 0.055 .9325359 1.000769

sp77\_1802\_ss\_c\_lag\_all | .5981441 .1078358 -2.85 0.004 .4200953 .8516552

sp77\_1906\_ss\_c\_lag\_all | 1.002672 .274145 0.01 0.992 .586716 1.713522

sp77\_1915\_ss\_c\_lag\_all | 1.290723 .31877 1.03 0.301 .7954475 2.094375

sp77\_1916\_ss\_c\_lag\_all | 1.027627 .1247256 0.22 0.822 .8100708 1.30361

sp77\_200\_ss\_c\_lag\_all | .9959251 .0101438 -0.40 0.688 .9762408 1.016006

sp77\_202\_ss\_c\_lag\_all | .9969068 .0156734 -0.20 0.844 .9666559 1.028104

sp77\_203\_ss\_c\_lag\_all | .7979672 .084075 -2.14 0.032 .6490844 .9809998

sp77\_204\_ss\_c\_lag\_all | .9990524 .0191072 -0.05 0.960 .9622961 1.037213

sp77\_205\_ss\_c\_lag\_all | .9947161 .0076858 -0.69 0.493 .9797656 1.009895

sp77\_206\_ss\_c\_lag\_all | 1.032132 .0410314 0.80 0.426 .9547654 1.115768

sp77\_207\_ss\_c\_lag\_all | 1.093362 .0439906 2.22 0.027 1.010454 1.183073

sp77\_208\_ss\_c\_lag\_all | 1.040443 .0205134 2.01 0.044 1.001004 1.081435

sp77\_210\_ss\_c\_lag\_all | 1.007722 .0575746 0.13 0.893 .9009668 1.127127

sp77\_216\_ss\_c\_lag\_all | .9575201 .2928764 -0.14 0.887 .5257643 1.743832

sp77\_315\_ss\_c\_lag\_all | .3645097 .1550421 -2.37 0.018 .1583636 .8390017

sp77\_400\_ss\_c\_lag\_all | .9988036 .0078192 -0.15 0.878 .9835951 1.014247

sp77\_401\_ss\_c\_lag\_all | .9823956 .0569793 -0.31 0.759 .876832 1.100668

sp77\_402\_ss\_c\_lag\_all | .977982 .0400212 -0.54 0.586 .9026052 1.059653

sp77\_403\_1\_ss\_c\_lag\_all | 1.212338 .1540468 1.52 0.130 .9450723 1.555186

sp77\_403\_ss\_c\_lag\_all | .8827241 .2424234 -0.45 0.650 .5152982 1.512137

sp77\_404\_ss\_c\_lag\_all | .9841594 .0075876 -2.07 0.038 .9693998 .9991437

sp77\_405\_ss\_c\_lag\_all | 1.028726 .0503661 0.58 0.563 .9345991 1.132334

sp77\_408\_ss\_c\_lag\_all | .9667601 .1041729 -0.31 0.754 .7827045 1.194097

sp77\_409\_ss\_c\_lag\_all | .2352713 .1018448 -3.34 0.001 .1007161 .5495902

sp77\_410\_ss\_c\_lag\_all | 1.003586 .0139823 0.26 0.797 .9765522 1.031369

sp77\_411\_ss\_c\_lag\_all | 1 (omitted)

sp77\_412\_ss\_c\_lag\_all | .8603606 .0707004 -1.83 0.067 .7323737 1.010714

sp77\_413\_ss\_c\_lag\_all | 1.582749 .2221964 3.27 0.001 1.202029 2.084055

sp77\_500\_ss\_c\_lag\_all | 1.092473 .1051287 0.92 0.358 .9046894 1.319234

sp77\_501\_ss\_c\_lag\_all | .9688629 .0655324 -0.47 0.640 .8485715 1.106207

sp77\_502\_1\_ss\_c\_lag\_all | 1.301629 .3898678 0.88 0.379 .7236567 2.341217

sp77\_502\_2\_ss\_c\_lag\_all | 1.218723 .1056838 2.28 0.023 1.028233 1.444503

sp77\_502\_ss\_c\_lag\_all | 1.036358 .013931 2.66 0.008 1.009411 1.064025

sp77\_503\_1\_ss\_c\_lag\_all | 1.896946 .4585151 2.65 0.008 1.181161 3.046498

sp77\_503\_ss\_c\_lag\_all | 1.112976 .2287798 0.52 0.603 .7439012 1.66516

sp77\_504\_ss\_c\_lag\_all | 1.013107 .0463795 0.28 0.776 .9261634 1.108212

sp77\_505\_ss\_c\_lag\_all | .9372591 .0380192 -1.60 0.110 .8656281 1.014818

sp77\_506\_1\_ss\_c\_lag\_all | 1.507179 .1303787 4.74 0.000 1.27213 1.785657

sp77\_506\_ss\_c\_lag\_all | .9579979 .0684601 -0.60 0.548 .8327915 1.102029

sp77\_507\_ss\_c\_lag\_all | 1.203451 .1219716 1.83 0.068 .9866378 1.467909

sp77\_508\_1\_ss\_c\_lag\_all | .8842705 .4192861 -0.26 0.795 .3491235 2.239707

sp77\_508\_ss\_c\_lag\_all | .8573651 .1333629 -0.99 0.322 .6320648 1.162974

sp77\_509\_ss\_c\_lag\_all | .8382778 .0304975 -4.85 0.000 .7805851 .9002346

sp77\_510\_ss\_c\_lag\_all | .7956587 .1150228 -1.58 0.114 .5993419 1.05628

sp77\_511\_ss\_c\_lag\_all | 1.083807 .3393803 0.26 0.797 .5866904 2.002142

sp77\_512\_ss\_c\_lag\_all | 1.032725 .0215544 1.54 0.123 .9913319 1.075847

sp77\_513\_ss\_c\_lag\_all | 1.086704 .0476057 1.90 0.058 .9972921 1.184132

sp77\_514\_ss\_c\_lag\_all | .4506624 .153877 -2.33 0.020 .2307872 .8800168

sp77\_515\_ss\_c\_lag\_all | 3.99e-06 4.01e-06 -12.36 0.000 5.55e-07 .0000286

sp77\_516\_ss\_c\_lag\_all | .967328 .030521 -1.05 0.292 .90932 1.029036

sp77\_600\_ss\_c\_lag\_all | 1.210473 .1827868 1.26 0.206 .9003681 1.627385

sp77\_601\_ss\_c\_lag\_all | .8795472 .1202117 -0.94 0.348 .6728551 1.149732

sp77\_602\_ss\_c\_lag\_all | .9675926 .1471989 -0.22 0.829 .7181251 1.303722

sp77\_603\_ss\_c\_lag\_all | 1.214812 .5267397 0.45 0.654 .5193139 2.841765

sp77\_604\_ss\_c\_lag\_all | 1.08583 .1330146 0.67 0.501 .8540618 1.380493

sp77\_605\_ss\_c\_lag\_all | 1.34e-06 1.24e-06 -14.59 0.000 2.18e-07 8.24e-06

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

sp77\_700\_1\_ss\_c\_lag\_all | 1.34e-06 1.34e-06 -13.49 0.000 1.87e-07 9.54e-06

sp77\_700\_ss\_c\_lag\_all | 1.039184 .235157 0.17 0.865 .6669205 1.619239

sp77\_701\_1\_ss\_c\_lag\_all | 1.450898 .2455406 2.20 0.028 1.041322 2.02157

sp77\_701\_2\_ss\_c\_lag\_all | .4753607 .1518323 -2.33 0.020 .2541825 .8889981

sp77\_701\_ss\_c\_lag\_all | 1.030875 .0404862 0.77 0.439 .9545001 1.11336

sp75\_804\_ss\_c\_lag\_all | .9788714 .0371486 -0.56 0.574 .9087034 1.054458

sp75\_805\_ss\_c\_lag\_all | 1.104318 .2248256 0.49 0.626 .7409686 1.645843

sp75\_806\_ss\_c\_lag\_all | 1.544076 .6912815 0.97 0.332 .6420756 3.713222

sp75\_807\_ss\_c\_lag\_all | 1.043274 .0160935 2.75 0.006 1.012204 1.075298

sp75\_808\_ss\_c\_lag\_all | .8804712 .1229486 -0.91 0.362 .6696591 1.157648

sp75\_809\_ss\_c\_lag\_all | .9739177 .0475068 -0.54 0.588 .8851184 1.071626

sp75\_810\_ss\_c\_lag\_all | 1.086729 .0840243 1.08 0.282 .9339153 1.264547

sp75\_811\_ss\_c\_lag\_all | 1.035331 .1233387 0.29 0.771 .819739 1.307623

sp77\_704\_1\_ss\_c\_lag\_all | 1.212297 .2438065 0.96 0.338 .8173779 1.798023

sp77\_704\_8\_ss\_c\_lag\_all | 1.615429 .7472877 1.04 0.300 .65242 3.999895

sp77\_704\_9\_ss\_c\_lag\_all | 1.194914 .2121559 1.00 0.316 .8437359 1.692258

sp77\_704\_ss\_c\_lag\_all | .6213943 .1399336 -2.11 0.035 .3996527 .9661662

sp77\_705\_ss\_c\_lag\_all | .8940509 .0788441 -1.27 0.204 .752137 1.062741

sp77\_800\_1\_ss\_c\_lag\_all | 1.017923 .3921684 0.05 0.963 .4783859 2.165966

sp77\_800\_2\_ss\_c\_lag\_all | .9433482 .2878783 -0.19 0.848 .5186971 1.715656

sp77\_800\_ss\_c\_lag\_all | 1.049789 .474479 0.11 0.914 .4328925 2.5458

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

sp77\_802\_ss\_c\_lag\_all | 1.212547 .2238187 1.04 0.296 .8444597 1.741077

sp77\_803\_ss\_c\_lag\_all | 1.579063 .4105604 1.76 0.079 .9486034 2.628536

sp77\_804\_ss\_c\_lag\_all | .6560946 .2140353 -1.29 0.196 .3461642 1.243514

sp77\_805\_ss\_c\_lag\_all | 1.33616 .3547228 1.09 0.275 .7941123 2.248199

sp77\_807\_1\_ss\_c\_lag\_all | 1.038699 .2192875 0.18 0.857 .6867307 1.571062

sp77\_807\_2\_ss\_c\_lag\_all | 1.147597 .1795984 0.88 0.379 .8444556 1.55956

sp77\_807\_3\_ss\_c\_lag\_all | 1.058154 .1517449 0.39 0.693 .798881 1.401573

sp77\_807\_ss\_c\_lag\_all | .7923682 .147766 -1.25 0.212 .5497805 1.141996

sp77\_808\_ss\_c\_lag\_all | 1.23061 .3769548 0.68 0.498 .6751252 2.243141

sp77\_809\_ss\_c\_lag\_all | .8046141 .0812503 -2.15 0.031 .6601352 .9807141

sp77\_810\_ss\_c\_lag\_all | 1.284766 .3465868 0.93 0.353 .7571783 2.179966

sp77\_900\_1\_ss\_c\_lag\_all | .7384869 .1557051 -1.44 0.150 .488509 1.116383

sp77\_900\_2\_ss\_c\_lag\_all | 1 (omitted)

sp77\_900\_ss\_c\_lag\_all | 1.160871 .179371 0.97 0.334 .8575539 1.571472

sp77\_901\_1\_ss\_c\_lag\_all | 1.297676 2.254079 0.15 0.881 .0431141 39.05831

sp77\_901\_ss\_c\_lag\_all | 1.102515 .1483856 0.73 0.468 .8468815 1.435312

sp77\_902\_ss\_c\_lag\_all | .8615567 .142866 -0.90 0.369 .6224937 1.19243

sp77\_903\_ss\_c\_lag\_all | 1.446349 .1618395 3.30 0.001 1.161522 1.801019

sp77\_904\_ss\_c\_lag\_all | .9520865 .0276706 -1.69 0.091 .8993689 1.007894

mine\_time | .9958965 .0034447 -1.19 0.235 .9891679 1.002671

onsite\_insp\_hours | .9999857 .0001005 -0.14 0.887 .9997887 1.000183

|

state |

AL | .8915917 .2488287 -0.41 0.681 .5159523 1.540716

CO | .6271256 .140335 -2.09 0.037 .4044613 .9723714

IL | 1.183657 .120683 1.65 0.098 .9692578 1.445481

IN | .91128 .159868 -0.53 0.596 .6461354 1.285228

MD | 1.005148 .3221987 0.02 0.987 .5362643 1.884003

NM | .9280398 .4225145 -0.16 0.870 .3802198 2.265158

OH | .8521868 .1954011 -0.70 0.485 .5437003 1.335703

OK | 1.534107 .3984024 1.65 0.099 .9221499 2.552171

PA | 1.126 .1439572 0.93 0.353 .8764224 1.446648

TN | 1.069885 .2403245 0.30 0.764 .6888657 1.66165

UT | .8797823 .1674621 -0.67 0.501 .6058335 1.277607

VA | .8230182 .0788433 -2.03 0.042 .6821287 .9930077

WV | 1.002191 .0801234 0.03 0.978 .8568371 1.172202

WY | 1.805194 .4359601 2.45 0.014 1.124491 2.897956

|

time |

2000.25 | 1.093813 .1171181 0.84 0.402 .8867524 1.349224

2000.5 | 1.22871 .1275927 1.98 0.047 1.00244 1.506054

2000.75 | .9313335 .1080946 -0.61 0.540 .7418415 1.169228

2001 | 1.019424 .1049633 0.19 0.852 .8331291 1.247376

2001.25 | .9454849 .116442 -0.46 0.649 .7427183 1.203608

2001.5 | 1.165217 .1329523 1.34 0.180 .9317166 1.457235

2001.75 | .932382 .1161723 -0.56 0.574 .7303591 1.190286

2002 | 1.008784 .1261233 0.07 0.944 .7895445 1.288901

2002.25 | .941686 .1257393 -0.45 0.653 .7248512 1.223386

2002.5 | 1.069742 .1278558 0.56 0.573 .846337 1.352119

2002.75 | .9467776 .1165332 -0.44 0.657 .7438386 1.205084

2003 | .7572907 .0947157 -2.22 0.026 .5926541 .9676626

2003.25 | .8643761 .113201 -1.11 0.266 .6686935 1.117322

2003.5 | 1.031529 .141783 0.23 0.821 .7879238 1.35045

2003.75 | .7668488 .0978532 -2.08 0.037 .5971629 .9847516

2004 | .9113173 .1218308 -0.69 0.487 .7012541 1.184306

2004.25 | .9035893 .1079508 -0.85 0.396 .7149554 1.141992

2004.5 | .8734194 .1150053 -1.03 0.304 .6747501 1.130584

2004.75 | .8253565 .1114648 -1.42 0.155 .6334121 1.075466

2005 | .702848 .0898468 -2.76 0.006 .5470793 .9029684

2005.25 | .8417996 .1130703 -1.28 0.200 .6469571 1.095322

2005.5 | .8715053 .1080196 -1.11 0.267 .6835447 1.111151

2005.75 | .6661292 .0884604 -3.06 0.002 .5134769 .8641638

2006 | .7530993 .0998354 -2.14 0.032 .5807803 .9765458

2006.25 | .7727436 .1083586 -1.84 0.066 .5870498 1.017175

2006.5 | .8717372 .1182354 -1.01 0.312 .6682446 1.137197

2006.75 | .6912877 .0949815 -2.69 0.007 .528087 .9049243

2007 | .8239944 .1076712 -1.48 0.138 .6378197 1.064512

2007.25 | .6799921 .0944495 -2.78 0.005 .5179332 .8927585

2007.5 | .7902479 .1002555 -1.86 0.064 .6162755 1.013332

2007.75 | .7520317 .0963313 -2.22 0.026 .5850618 .9666529

2008 | .6230412 .0860898 -3.42 0.001 .4752264 .8168324

2008.25 | .6204857 .0909997 -3.25 0.001 .4654741 .8271189

2008.5 | .6974648 .1022776 -2.46 0.014 .5232393 .9297029

2008.75 | .7125082 .0967685 -2.50 0.013 .5459902 .9298113

2009 | .6669329 .1001543 -2.70 0.007 .4968851 .8951758

2009.25 | .6052322 .0864441 -3.52 0.000 .4574532 .800751

2009.5 | .7161837 .0999311 -2.39 0.017 .544821 .9414451

2009.75 | .5209138 .0775135 -4.38 0.000 .3891389 .6973119

2010 | .609236 .0841594 -3.59 0.000 .4647306 .7986745

2010.25 | .6279231 .0881317 -3.32 0.001 .4769103 .8267539

2010.5 | .6531042 .0928814 -3.00 0.003 .4942295 .8630507

2010.75 | .5733802 .0814114 -3.92 0.000 .4340951 .7573568

2011 | .6217435 .0907423 -3.26 0.001 .4670678 .827642

2011.25 | .5996375 .0809713 -3.79 0.000 .4602013 .7813214

2011.5 | .6750326 .1002013 -2.65 0.008 .50463 .9029765

2011.75 | .5379979 .0842719 -3.96 0.000 .3957751 .7313288

2012 | .6314103 .0917973 -3.16 0.002 .4748541 .8395821

2012.25 | .5448352 .0720464 -4.59 0.000 .4204422 .7060314

2012.5 | .5720006 .0804816 -3.97 0.000 .4341409 .753637

2012.75 | .5491585 .0835141 -3.94 0.000 .4076148 .739853

2013 | .5371351 .0861017 -3.88 0.000 .3923174 .73541

2013.25 | .4382906 .0689448 -5.24 0.000 .3220066 .5965674

2013.5 | .6542477 .0959939 -2.89 0.004 .4907388 .872236

2013.75 | .5160496 .0799501 -4.27 0.000 .3809055 .6991424

2014 | .4920343 .0818968 -4.26 0.000 .3550725 .6818264

2014.25 | .5292123 .084437 -3.99 0.000 .3870962 .7235041

2014.5 | .5401611 .0869505 -3.83 0.000 .3940072 .7405297

2014.75 | .5473209 .0850081 -3.88 0.000 .403679 .7420752

2015 | .5064823 .0881226 -3.91 0.000 .3601341 .7123024

2015.25 | .5238756 .0900701 -3.76 0.000 .3740079 .7337963

2015.5 | .624677 .1051969 -2.79 0.005 .4490673 .8689597

2015.75 | .4361092 .0806126 -4.49 0.000 .3035673 .6265209

2016 | .5261771 .1032434 -3.27 0.001 .3581906 .7729469

|

\_cons | .0000156 1.44e-06 -120.14 0.000 .000013 .0000187

ln(hours) | 1 (exposure)

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**. estat gof**

Deviance goodness-of-fit = 11215.82

Prob > chi2(13466) = 1.0000

Pearson goodness-of-fit = 113566.5

Prob > chi2(13466) = 0.0000

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

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

note: sp71\_701\_ss\_c\_lag\_all omitted because of collinearity

note: sp75\_1101\_20\_ss\_c\_lag\_all omitted because of collinearity

note: sp75\_1432\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_1106\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_411\_ss\_c\_lag\_all omitted because of collinearity

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

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

note: sp77\_900\_2\_ss\_c\_lag\_all omitted because of collinearity

Iteration 0: log pseudolikelihood = -12045.322

Iteration 1: log pseudolikelihood = -11844.176

Iteration 2: log pseudolikelihood = -11842.038

Iteration 3: log pseudolikelihood = -11841.712

Iteration 4: log pseudolikelihood = -11841.659

Iteration 5: log pseudolikelihood = -11841.653

Iteration 6: log pseudolikelihood = -11841.652

Iteration 7: log pseudolikelihood = -11841.652

Iteration 8: log pseudolikelihood = -11841.652

Iteration 9: log pseudolikelihood = -11841.652

Generalized linear models No. of obs = 13,797

Optimization : ML Residual df = 13,460

Scale parameter = 1

Deviance = 7410.524202 (1/df) Deviance = .550559

Pearson = 99220.69604 (1/df) Pearson = 7.371523

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

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

AIC = 1.765406

Log pseudolikelihood = -11841.65153 BIC = -120893

(Std. Err. adjusted for 801 clusters in mineid)

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| Robust

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

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

sp47\_41\_ss\_c\_lag\_all | .7906301 .2861907 -0.65 0.516 .3889171 1.607273

sp47\_44\_ss\_c\_lag\_all | .463001 .160874 -2.22 0.027 .2343279 .9148287

sp48\_11\_ss\_c\_lag\_all | 1.040672 .0671541 0.62 0.537 .9170355 1.180977

sp48\_25\_ss\_c\_lag\_all | .9452595 .0540034 -0.99 0.324 .8451256 1.057258

sp48\_26\_ss\_c\_lag\_all | 1.255016 .1475751 1.93 0.053 .9966854 1.580304

sp48\_27\_ss\_c\_lag\_all | 1.128158 .0797526 1.71 0.088 .9821918 1.295818

sp48\_28\_ss\_c\_lag\_all | .8388948 .0786235 -1.87 0.061 .6981209 1.008055

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

sp48\_5\_ss\_c\_lag\_all | 1.0719 .0732511 1.02 0.310 .9375305 1.225529

sp48\_6\_ss\_c\_lag\_all | 1.108854 .0778645 1.47 0.141 .9662792 1.272467

sp48\_7\_ss\_c\_lag\_all | 1.064308 .0646206 1.03 0.305 .9448993 1.198806

sp48\_8\_ss\_c\_lag\_all | .9590532 .1186291 -0.34 0.735 .7525826 1.222169

sp71\_701\_ss\_c\_lag\_all | 1 (omitted)

sp72\_503\_ss\_c\_lag\_all | .7042343 .1161775 -2.13 0.034 .5096763 .9730606

sp72\_610\_ss\_c\_lag\_all | 1.360189 .4937431 0.85 0.397 .6677545 2.770652

sp72\_620\_ss\_c\_lag\_all | 1.128096 .3317837 0.41 0.682 .6338694 2.007671

sp72\_630\_ss\_c\_lag\_all | .9818348 .0074044 -2.43 0.015 .9674292 .9964549

sp75\_100\_ss\_c\_lag\_all | .7408913 .2055209 -1.08 0.280 .4301638 1.276072

sp75\_1001\_1\_ss\_c\_lag\_all | 3.222364 1.699418 2.22 0.027 1.146215 9.059063

sp75\_1001\_ss\_c\_lag\_all | .5983825 .2356755 -1.30 0.192 .2765219 1.294876

sp75\_1003\_1\_ss\_c\_lag\_all | 1.246971 .2725384 1.01 0.313 .8124889 1.913794

sp75\_1100\_2\_ss\_c\_lag\_all | 1.016472 .0134939 1.23 0.218 .9903657 1.043267

sp75\_1101\_20\_ss\_c\_lag\_all | 1 (omitted)

sp75\_1102\_ss\_c\_lag\_all | .8710905 .0484041 -2.48 0.013 .7812038 .9713197

sp75\_1103\_4\_ss\_c\_lag\_all | .9887369 .029455 -0.38 0.704 .9326593 1.048186

sp75\_1104\_ss\_c\_lag\_all | 1.045062 .1033839 0.45 0.656 .8608671 1.268668

sp75\_1106\_2\_ss\_c\_lag\_all | 1.070842 .0527969 1.39 0.165 .9722042 1.179487

sp75\_1106\_3\_ss\_c\_lag\_all | 1.026903 .0190844 1.43 0.153 .9901708 1.064997

sp75\_1106\_4\_ss\_c\_lag\_all | 1.026555 .118897 0.23 0.821 .8180786 1.288159

sp75\_1106\_5\_ss\_c\_lag\_all | .9748603 .0713904 -0.35 0.728 .8445156 1.125323

sp75\_1106\_6\_ss\_c\_lag\_all | 1.085953 .412342 0.22 0.828 .5159475 2.285687

sp75\_1106\_ss\_c\_lag\_all | 1.032257 .1147176 0.29 0.775 .8302168 1.283466

sp75\_1107\_14\_ss\_c\_lag\_all | 3.706756 1.639097 2.96 0.003 1.558116 8.818369

sp75\_1400\_1\_ss\_c\_lag\_all | 1.140856 .2478894 0.61 0.544 .74521 1.746558

sp75\_1400\_2\_ss\_c\_lag\_all | .6011874 .3720529 -0.82 0.411 .1787444 2.022029

sp75\_1400\_3\_ss\_c\_lag\_all | .8920034 .0831119 -1.23 0.220 .7431155 1.070722

sp75\_1400\_4\_ss\_c\_lag\_all | 1.091092 .3188902 0.30 0.765 .6152948 1.934815

sp75\_1400\_ss\_c\_lag\_all | .9271136 .0408086 -1.72 0.086 .8504832 1.010649

sp75\_1401\_ss\_c\_lag\_all | 1.429777 .3203996 1.60 0.111 .9215568 2.218271

sp75\_1403\_10\_ss\_c\_lag\_all | 1.012137 .0166903 0.73 0.464 .9799471 1.045383

sp75\_1403\_11\_ss\_c\_lag\_all | .6781654 .4166602 -0.63 0.527 .2034057 2.261039

sp75\_1403\_3\_ss\_c\_lag\_all | .4217807 .1786744 -2.04 0.042 .183866 .9675469

sp75\_1403\_4\_ss\_c\_lag\_all | 2.278555 .8635741 2.17 0.030 1.08406 4.789228

sp75\_1403\_5\_ss\_c\_lag\_all | .9988618 .0066061 -0.17 0.863 .9859977 1.011894

sp75\_1403\_6\_ss\_c\_lag\_all | .9985501 .0094298 -0.15 0.878 .980238 1.017204

sp75\_1403\_7\_ss\_c\_lag\_all | 1.013853 .0377232 0.37 0.712 .9425486 1.090552

sp75\_1403\_8\_ss\_c\_lag\_all | .9751302 .0129053 -1.90 0.057 .9501614 1.000755

sp75\_1403\_9\_ss\_c\_lag\_all | 1.020066 .0978544 0.21 0.836 .8452263 1.231073

sp75\_1404\_1\_ss\_c\_lag\_all | .5374888 .1095222 -3.05 0.002 .3605148 .801338

sp75\_1404\_ss\_c\_lag\_all | .9336462 .2432853 -0.26 0.792 .5602477 1.555911

sp75\_1405\_1\_ss\_c\_lag\_all | 2.078167 .7566437 2.01 0.045 1.01804 4.242248

sp75\_1405\_ss\_c\_lag\_all | .9998679 .0180175 -0.01 0.994 .9651706 1.035813

sp75\_1431\_ss\_c\_lag\_all | .5432726 .2227438 -1.49 0.137 .2432327 1.213427

sp75\_1432\_ss\_c\_lag\_all | 1 (omitted)

sp75\_1433\_ss\_c\_lag\_all | .8273445 .1394463 -1.12 0.261 .594592 1.151208

sp75\_1434\_ss\_c\_lag\_all | .9349576 .0883473 -0.71 0.477 .776889 1.125187

sp75\_1435\_ss\_c\_lag\_all | .4582675 .1786973 -2.00 0.045 .2134031 .9840959

sp75\_1437\_ss\_c\_lag\_all | 1.569829 .3725589 1.90 0.057 .985919 2.499559

sp75\_150\_ss\_c\_lag\_all | 3.26242 .833104 4.63 0.000 1.977761 5.381532

sp75\_151\_ss\_c\_lag\_all | .9048256 .2380134 -0.38 0.704 .5403277 1.515209

sp75\_153\_ss\_c\_lag\_all | 2.04299 1.311589 1.11 0.266 .580496 7.190072

sp75\_155\_ss\_c\_lag\_all | .4316364 .1257154 -2.88 0.004 .2438951 .7638938

sp75\_156\_ss\_c\_lag\_all | .2688693 .0822958 -4.29 0.000 .1475722 .4898668

sp75\_1600\_2\_ss\_c\_lag\_all | 1.119191 .1204725 1.05 0.296 .9063138 1.382068

sp75\_1712\_10\_ss\_c\_lag\_all | .8351949 .1002055 -1.50 0.133 .6601793 1.056608

sp75\_1712\_6\_ss\_c\_lag\_all | 1.293024 .3374251 0.98 0.325 .7753161 2.156426

sp75\_1720\_ss\_c\_lag\_all | 1.010535 .0359709 0.29 0.768 .9424365 1.083554

sp75\_1721\_ss\_c\_lag\_all | .6651078 .0963688 -2.81 0.005 .5006795 .8835361

sp75\_1725\_ss\_c\_lag\_all | 1.000187 .0022546 0.08 0.934 .9957775 1.004616

sp75\_1726\_ss\_c\_lag\_all | 1.188803 .0789099 2.61 0.009 1.04378 1.353975

sp75\_1727\_ss\_c\_lag\_all | 1.073747 .2015044 0.38 0.705 .7432954 1.551109

sp75\_1728\_ss\_c\_lag\_all | 1.611885 .1762095 4.37 0.000 1.301013 1.997039

sp75\_1729\_ss\_c\_lag\_all | .8262032 .0765234 -2.06 0.039 .6890459 .9906622

sp75\_1730\_ss\_c\_lag\_all | 1.247233 .1931317 1.43 0.154 .9207482 1.689486

sp75\_1731\_ss\_c\_lag\_all | 1.003513 .0025333 1.39 0.165 .9985601 1.00849

sp75\_1903\_ss\_c\_lag\_all | 1.102173 .2052762 0.52 0.601 .7650964 1.587754

sp75\_1909\_ss\_c\_lag\_all | .9968619 .007941 -0.39 0.693 .9814187 1.012548

sp75\_1910\_ss\_c\_lag\_all | 1.015302 .0201117 0.77 0.443 .9766388 1.055495

sp75\_1911\_ss\_c\_lag\_all | .9296737 .034032 -1.99 0.046 .8653088 .9988264

sp75\_1912\_ss\_c\_lag\_all | 1.123287 .19115 0.68 0.494 .8047142 1.567978

sp75\_1913\_ss\_c\_lag\_all | .9761819 .1665297 -0.14 0.888 .6987501 1.363765

sp75\_1914\_ss\_c\_lag\_all | .9963144 .0070453 -0.52 0.602 .9826011 1.010219

sp75\_1915\_ss\_c\_lag\_all | .9952236 .149027 -0.03 0.974 .7420955 1.334693

sp75\_202\_ss\_c\_lag\_all | .9999622 .0012691 -0.03 0.976 .9974779 1.002453

sp75\_208\_ss\_c\_lag\_all | .9941506 .0133369 -0.44 0.662 .9683513 1.020637

sp75\_211\_ss\_c\_lag\_all | .994841 .0179388 -0.29 0.774 .9602957 1.030629

sp75\_212\_ss\_c\_lag\_all | .9919378 .0269221 -0.30 0.766 .9405504 1.046133

sp75\_214\_ss\_c\_lag\_all | 1.07749 .128175 0.63 0.530 .8534084 1.360409

sp75\_312\_ss\_c\_lag\_all | 1.056695 .1179706 0.49 0.621 .8490255 1.315161

sp75\_320\_ss\_c\_lag\_all | .862394 .0419732 -3.04 0.002 .7839299 .9487115

sp75\_324\_ss\_c\_lag\_all | .9523496 .0565258 -0.82 0.411 .8477625 1.06984

sp75\_337\_ss\_c\_lag\_all | .9860186 .0305326 -0.45 0.649 .9279556 1.047715

sp75\_340\_ss\_c\_lag\_all | .9663129 .0122241 -2.71 0.007 .9426487 .9905712

sp75\_342\_ss\_c\_lag\_all | 1.003808 .0059401 0.64 0.521 .9922329 1.015518

sp75\_344\_ss\_c\_lag\_all | .9965668 .0807371 -0.04 0.966 .850249 1.168064

sp75\_352\_ss\_c\_lag\_all | .8923015 .0574124 -1.77 0.077 .7865813 1.012231

sp75\_382\_ss\_c\_lag\_all | 1.352166 .1286378 3.17 0.002 1.122151 1.629329

sp75\_503\_ss\_c\_lag\_all | .9987772 .0026738 -0.46 0.648 .9935504 1.004031

sp75\_504\_ss\_c\_lag\_all | .7396439 .1389032 -1.61 0.108 .5118813 1.06875

sp75\_505\_ss\_c\_lag\_all | 1.288542 .3300015 0.99 0.322 .7800128 2.128605

sp75\_506\_1\_ss\_c\_lag\_all | 1.245697 .2297375 1.19 0.234 .8678198 1.788113

sp75\_506\_ss\_c\_lag\_all | .9638157 .1766011 -0.20 0.841 .6730189 1.380259

sp75\_507\_ss\_c\_lag\_all | .9463294 .0519778 -1.00 0.315 .8497467 1.05389

sp75\_511\_1\_ss\_c\_lag\_all | .7949279 .1833789 -0.99 0.320 .5057866 1.249362

sp75\_511\_ss\_c\_lag\_all | 1.073645 .0516835 1.48 0.140 .9769796 1.179876

sp75\_512\_1\_ss\_c\_lag\_all | .456534 .2059557 -1.74 0.082 .1885695 1.105286

sp75\_512\_2\_ss\_c\_lag\_all | 1.093508 .0529693 1.85 0.065 .9944656 1.202413

sp75\_512\_ss\_c\_lag\_all | 1.000464 .0060144 0.08 0.938 .9887456 1.012322

sp75\_513\_1\_ss\_c\_lag\_all | 1.191748 .4094095 0.51 0.610 .6078067 2.336704

sp75\_513\_ss\_c\_lag\_all | .9849999 .1069918 -0.14 0.889 .7961185 1.218694

sp75\_514\_ss\_c\_lag\_all | 1.010783 .0227973 0.48 0.634 .9670743 1.056467

sp75\_515\_ss\_c\_lag\_all | .9694138 .0181648 -1.66 0.097 .9344572 1.005678

sp75\_516\_1\_ss\_c\_lag\_all | .8603854 .1878637 -0.69 0.491 .5608344 1.319932

sp75\_516\_2\_ss\_c\_lag\_all | .3998273 .1353759 -2.71 0.007 .2059053 .7763855

sp75\_516\_ss\_c\_lag\_all | 1.00359 .0316351 0.11 0.909 .9434628 1.067549

sp75\_517\_1\_ss\_c\_lag\_all | .7116151 .1545813 -1.57 0.117 .4648813 1.089302

sp75\_517\_ss\_c\_lag\_all | 1.00285 .0019826 1.44 0.150 .9989714 1.006743

sp75\_518\_1\_ss\_c\_lag\_all | .9460176 .0449362 -1.17 0.243 .8619197 1.038321

sp75\_518\_ss\_c\_lag\_all | 1.048308 .0230005 2.15 0.032 1.004183 1.094372

sp75\_519\_ss\_c\_lag\_all | 1.195356 .4867258 0.44 0.661 .5381517 2.655156

sp75\_520\_ss\_c\_lag\_all | .9415937 .0304201 -1.86 0.062 .8838197 1.003144

sp75\_523\_1\_ss\_c\_lag\_all | .9906975 .0285153 -0.32 0.745 .9363558 1.048193

sp75\_523\_2\_ss\_c\_lag\_all | .9977828 .0199588 -0.11 0.912 .9594212 1.037678

sp75\_523\_ss\_c\_lag\_all | 1.014981 .0218034 0.69 0.489 .9731341 1.058627

sp75\_600\_1\_ss\_c\_lag\_all | .8734662 .2171466 -0.54 0.586 .5365801 1.421863

sp75\_600\_ss\_c\_lag\_all | .858637 .2062379 -0.63 0.526 .5362381 1.37487

sp75\_601\_1\_ss\_c\_lag\_all | 1.024081 .0177625 1.37 0.170 .9898525 1.059494

sp75\_601\_2\_ss\_c\_lag\_all | 1.100596 .1208085 0.87 0.383 .8875532 1.364775

sp75\_601\_3\_ss\_c\_lag\_all | 1.377866 .2042665 2.16 0.031 1.030428 1.842452

sp75\_601\_ss\_c\_lag\_all | 1.00022 .0255106 0.01 0.993 .951449 1.05149

sp75\_602\_ss\_c\_lag\_all | 1.067549 .0647537 1.08 0.281 .9478883 1.202316

sp75\_603\_ss\_c\_lag\_all | .9674244 .037549 -0.85 0.394 .8965593 1.043891

sp75\_604\_ss\_c\_lag\_all | 1.002909 .0040078 0.73 0.467 .9950848 1.010795

sp75\_605\_ss\_c\_lag\_all | 1.007881 .0272306 0.29 0.771 .9558988 1.062691

sp75\_606\_ss\_c\_lag\_all | .9934326 .0114647 -0.57 0.568 .9712143 1.016159

sp75\_607\_ss\_c\_lag\_all | .9602851 .0496656 -0.78 0.433 .8677135 1.062733

sp75\_700\_1\_ss\_c\_lag\_all | .9765052 .1774228 -0.13 0.896 .6839406 1.394218

sp75\_700\_ss\_c\_lag\_all | .9704337 .0464406 -0.63 0.531 .8835501 1.065861

sp75\_701\_1\_ss\_c\_lag\_all | 1.008316 .0632914 0.13 0.895 .8915941 1.140318

sp75\_701\_2\_ss\_c\_lag\_all | .9306165 .1248449 -0.54 0.592 .7154505 1.210492

sp75\_701\_3\_ss\_c\_lag\_all | 1.004994 .0551021 0.09 0.928 .9025966 1.119009

sp75\_701\_4\_ss\_c\_lag\_all | 1.002236 .3312726 0.01 0.995 .5243475 1.91567

sp75\_701\_ss\_c\_lag\_all | 1.011897 .0183877 0.65 0.515 .9764915 1.048585

sp75\_703\_2\_ss\_c\_lag\_all | 1.347646 .2248579 1.79 0.074 .9717417 1.868964

sp75\_703\_3\_ss\_c\_lag\_all | 1.21242 .1117249 2.09 0.037 1.012079 1.452418

sp75\_703\_ss\_c\_lag\_all | 1.006249 .0383861 0.16 0.870 .9337577 1.084369

sp75\_704\_ss\_c\_lag\_all | .800986 .2513398 -0.71 0.479 .4330401 1.481569

sp75\_705\_1\_ss\_c\_lag\_all | 1.063664 .1470096 0.45 0.655 .8112593 1.3946

sp75\_705\_8\_ss\_c\_lag\_all | 7.07e-06 7.24e-06 -11.58 0.000 9.49e-07 .0000526

sp75\_705\_ss\_c\_lag\_all | .8115988 .1110125 -1.53 0.127 .6207431 1.061136

sp75\_706\_ss\_c\_lag\_all | .8455923 .103405 -1.37 0.170 .6653806 1.074613

sp75\_800\_2\_ss\_c\_lag\_all | .5433681 .0495123 -6.69 0.000 .4544977 .6496159

sp75\_800\_3\_ss\_c\_lag\_all | 1.138081 .1745713 0.84 0.399 .8425708 1.537233

sp75\_800\_4\_ss\_c\_lag\_all | 1.129281 .3041037 0.45 0.652 .6661659 1.914352

sp75\_800\_ss\_c\_lag\_all | .9884374 .0607498 -0.19 0.850 .8762619 1.114973

sp75\_801\_ss\_c\_lag\_all | 1.002178 .3423799 0.01 0.995 .5130317 1.957699

sp75\_802\_ss\_c\_lag\_all | .8634789 .1487007 -0.85 0.394 .6161201 1.210147

sp75\_803\_2\_ss\_c\_lag\_all | .1577059 .0161163 -18.07 0.000 .1290808 .1926788

sp75\_803\_ss\_c\_lag\_all | .9839806 .0626045 -0.25 0.800 .8686202 1.114662

sp75\_812\_ss\_c\_lag\_all | .863666 .129622 -0.98 0.329 .6435682 1.159036

sp75\_814\_ss\_c\_lag\_all | .68284 .1023875 -2.54 0.011 .5089636 .9161175

sp75\_815\_ss\_c\_lag\_all | 1.386698 .4847508 0.94 0.350 .6989174 2.751302

sp75\_816\_ss\_c\_lag\_all | .8709819 .0657417 -1.83 0.067 .7512084 1.009852

sp75\_818\_ss\_c\_lag\_all | 1.823209 .5937689 1.84 0.065 .9629944 3.45183

sp75\_819\_ss\_c\_lag\_all | .4893062 .1902842 -1.84 0.066 .2283288 1.048578

sp75\_820\_ss\_c\_lag\_all | 1.070559 .073638 0.99 0.322 .9355368 1.225068

sp75\_821\_ss\_c\_lag\_all | .7140071 .1025367 -2.35 0.019 .5388448 .9461095

sp75\_825\_ss\_c\_lag\_all | .8954376 .1927319 -0.51 0.608 .5872522 1.365356

sp75\_827\_ss\_c\_lag\_all | .7142873 .3547711 -0.68 0.498 .2698358 1.890803

sp75\_831\_ss\_c\_lag\_all | 1.909479 .48932 2.52 0.012 1.155546 3.155313

sp75\_900\_2\_ss\_c\_lag\_all | .6060563 .1585378 -1.91 0.056 .3629508 1.011995

sp75\_900\_3\_ss\_c\_lag\_all | 1.138086 .1230944 1.20 0.232 .9206819 1.406825

sp75\_900\_4\_ss\_c\_lag\_all | .9748127 .0976408 -0.25 0.799 .8010539 1.186262

sp75\_900\_ss\_c\_lag\_all | .9780209 .0171064 -1.27 0.204 .9450611 1.01213

sp75\_901\_ss\_c\_lag\_all | .9359052 .0972865 -0.64 0.524 .7633967 1.147396

sp75\_902\_1\_ss\_c\_lag\_all | 1.33421 .264937 1.45 0.146 .9040645 1.969016

sp75\_902\_2\_ss\_c\_lag\_all | 1.067015 .0786749 0.88 0.379 .923439 1.232914

sp75\_902\_4\_ss\_c\_lag\_all | 1.19595 .0727108 2.94 0.003 1.061603 1.347299

sp75\_902\_ss\_c\_lag\_all | .9900441 .0218619 -0.45 0.650 .9481096 1.033833

sp75\_903\_ss\_c\_lag\_all | .9802097 .0278141 -0.70 0.481 .9271833 1.036269

sp75\_904\_ss\_c\_lag\_all | 1.020627 .0068231 3.05 0.002 1.007341 1.034088

sp75\_905\_ss\_c\_lag\_all | .6225835 .1682699 -1.75 0.080 .3665537 1.057445

sp75\_907\_ss\_c\_lag\_all | .9007136 .1356295 -0.69 0.487 .6705216 1.209931

sp77\_103\_ss\_c\_lag\_all | .8520945 .0678999 -2.01 0.045 .7288849 .9961312

sp77\_1103\_ss\_c\_lag\_all | 1.015168 .0518812 0.29 0.768 .9184099 1.122121

sp77\_1104\_ss\_c\_lag\_all | .9951008 .0085467 -0.57 0.567 .9784899 1.011994

sp77\_1106\_ss\_c\_lag\_all | 1 (omitted)

sp77\_1111\_ss\_c\_lag\_all | 1.413386 .3200565 1.53 0.127 .9067948 2.20299

sp77\_1112\_ss\_c\_lag\_all | .9862162 .0768781 -0.18 0.859 .8464841 1.149014

sp77\_1403\_ss\_c\_lag\_all | 1.465962 .2613842 2.15 0.032 1.033598 2.079188

sp77\_1433\_ss\_c\_lag\_all | .9058939 .2697171 -0.33 0.740 .5054103 1.623718

sp77\_1434\_ss\_c\_lag\_all | .9476434 .1442682 -0.35 0.724 .7031678 1.277118

sp77\_1437\_ss\_c\_lag\_all | .6915619 .1826848 -1.40 0.163 .4120742 1.160611

sp77\_1438\_ss\_c\_lag\_all | 1.647668 1.069341 0.77 0.442 .4617822 5.87898

sp77\_1605\_ss\_c\_lag\_all | 1.021903 .0132814 1.67 0.095 .9962009 1.048269

sp77\_1606\_ss\_c\_lag\_all | 1.004269 .0142476 0.30 0.764 .9767286 1.032586

sp77\_1710\_ss\_c\_lag\_all | .9655625 .0195175 -1.73 0.083 .9280568 1.004584

sp77\_1802\_ss\_c\_lag\_all | .5619748 .1462539 -2.21 0.027 .3374363 .9359268

sp77\_1906\_ss\_c\_lag\_all | 1.011568 .4317736 0.03 0.979 .4381995 2.33517

sp77\_1915\_ss\_c\_lag\_all | 1.308163 .2897347 1.21 0.225 .8474924 2.019239

sp77\_1916\_ss\_c\_lag\_all | .9880863 .1124754 -0.11 0.916 .7904989 1.235061

sp77\_200\_ss\_c\_lag\_all | .9943308 .0123245 -0.46 0.646 .9704662 1.018782

sp77\_202\_ss\_c\_lag\_all | .9902404 .0187017 -0.52 0.604 .9542559 1.027582

sp77\_203\_ss\_c\_lag\_all | .7659555 .0913901 -2.23 0.025 .6062367 .9677537

sp77\_204\_ss\_c\_lag\_all | 1.009851 .0236955 0.42 0.676 .9644607 1.057378

sp77\_205\_ss\_c\_lag\_all | .9918451 .0083305 -0.97 0.330 .9756512 1.008308

sp77\_206\_ss\_c\_lag\_all | 1.024887 .0458323 0.55 0.583 .9388817 1.118771

sp77\_207\_ss\_c\_lag\_all | 1.098743 .0503827 2.05 0.040 1.004302 1.202065

sp77\_208\_ss\_c\_lag\_all | 1.043299 .0224846 1.97 0.049 1.000148 1.088312

sp77\_210\_ss\_c\_lag\_all | 1.022782 .0645251 0.36 0.721 .9038212 1.1574

sp77\_216\_ss\_c\_lag\_all | .9447847 .2734704 -0.20 0.844 .5357354 1.666155

sp77\_315\_ss\_c\_lag\_all | .382663 .1808513 -2.03 0.042 .1515403 .9662841

sp77\_400\_ss\_c\_lag\_all | 1.00385 .0092045 0.42 0.675 .9859705 1.022053

sp77\_401\_ss\_c\_lag\_all | .9815627 .0585104 -0.31 0.755 .87333 1.103209

sp77\_402\_ss\_c\_lag\_all | .951963 .0416783 -1.12 0.261 .8736817 1.037258

sp77\_403\_1\_ss\_c\_lag\_all | 1.279088 .2494048 1.26 0.207 .872826 1.874447

sp77\_403\_ss\_c\_lag\_all | .920371 .2857709 -0.27 0.789 .5008051 1.691442

sp77\_404\_ss\_c\_lag\_all | .9869193 .0070708 -1.84 0.066 .9731576 1.000876

sp77\_405\_ss\_c\_lag\_all | 1.005505 .0523517 0.11 0.916 .9079588 1.11353

sp77\_408\_ss\_c\_lag\_all | .9669952 .1472222 -0.22 0.826 .7175156 1.303219

sp77\_409\_ss\_c\_lag\_all | .2320546 .1166885 -2.91 0.004 .0866091 .6217509

sp77\_410\_ss\_c\_lag\_all | .998816 .0153756 -0.08 0.939 .9691304 1.029411

sp77\_411\_ss\_c\_lag\_all | 1 (omitted)

sp77\_412\_ss\_c\_lag\_all | .8429022 .0799455 -1.80 0.072 .6999139 1.015102

sp77\_413\_ss\_c\_lag\_all | 1.578132 .2782025 2.59 0.010 1.117091 2.229452

sp77\_500\_ss\_c\_lag\_all | 1.028045 .1269444 0.22 0.823 .8070575 1.309542

sp77\_501\_ss\_c\_lag\_all | .9991662 .0939777 -0.01 0.993 .830954 1.20143

sp77\_502\_1\_ss\_c\_lag\_all | 1.214254 .4265437 0.55 0.581 .6099568 2.417241

sp77\_502\_2\_ss\_c\_lag\_all | 1.231433 .1176553 2.18 0.029 1.021138 1.485038

sp77\_502\_ss\_c\_lag\_all | 1.03982 .0143906 2.82 0.005 1.011994 1.068411

sp77\_503\_1\_ss\_c\_lag\_all | 1.670757 .5119134 1.68 0.094 .9164494 3.045917

sp77\_503\_ss\_c\_lag\_all | 1.049887 .2573412 0.20 0.843 .6493847 1.697397

sp77\_504\_ss\_c\_lag\_all | .9851393 .0514896 -0.29 0.775 .8892185 1.091407

sp77\_505\_ss\_c\_lag\_all | .9211176 .038835 -1.95 0.051 .8480623 1.000466

sp77\_506\_1\_ss\_c\_lag\_all | 1.414346 .1267708 3.87 0.000 1.186481 1.685973

sp77\_506\_ss\_c\_lag\_all | .9463361 .0712332 -0.73 0.464 .8165321 1.096775

sp77\_507\_ss\_c\_lag\_all | 1.23018 .1349562 1.89 0.059 .9921745 1.525279

sp77\_508\_1\_ss\_c\_lag\_all | .7657125 .4053291 -0.50 0.614 .2713208 2.160968

sp77\_508\_ss\_c\_lag\_all | .8373801 .1514661 -0.98 0.327 .5874305 1.193682

sp77\_509\_ss\_c\_lag\_all | .8477456 .032467 -4.31 0.000 .7864411 .913829

sp77\_510\_ss\_c\_lag\_all | .8446071 .156623 -0.91 0.362 .5872309 1.214788

sp77\_511\_ss\_c\_lag\_all | 1.309836 .5219729 0.68 0.498 .5998059 2.860374

sp77\_512\_ss\_c\_lag\_all | 1.014971 .0239298 0.63 0.529 .9691362 1.062973

sp77\_513\_ss\_c\_lag\_all | 1.098036 .0543592 1.89 0.059 .9964999 1.209918

sp77\_514\_ss\_c\_lag\_all | .3594784 .1288721 -2.85 0.004 .1780406 .7258159

sp77\_515\_ss\_c\_lag\_all | 2.57e-06 2.59e-06 -12.81 0.000 3.59e-07 .0000184

sp77\_516\_ss\_c\_lag\_all | .9545563 .0302746 -1.47 0.143 .8970258 1.015777

sp77\_600\_ss\_c\_lag\_all | 1.231003 .2149797 1.19 0.234 .8741927 1.733449

sp77\_601\_ss\_c\_lag\_all | .9057336 .1543622 -0.58 0.561 .648533 1.264937

sp77\_602\_ss\_c\_lag\_all | 1.06102 .1809567 0.35 0.728 .7595413 1.482162

sp77\_603\_ss\_c\_lag\_all | 1.591775 .5838057 1.27 0.205 .7756962 3.266418

sp77\_604\_ss\_c\_lag\_all | 1.062355 .1523538 0.42 0.673 .802043 1.407154

sp77\_605\_ss\_c\_lag\_all | 9.98e-07 9.51e-07 -14.50 0.000 1.54e-07 6.46e-06

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

sp77\_700\_1\_ss\_c\_lag\_all | 1.03e-06 1.05e-06 -13.51 0.000 1.40e-07 7.64e-06

sp77\_700\_ss\_c\_lag\_all | 1.005356 .3183108 0.02 0.987 .540526 1.86992

sp77\_701\_1\_ss\_c\_lag\_all | 1.431873 .2963436 1.73 0.083 .9544168 2.148182

sp77\_701\_2\_ss\_c\_lag\_all | .4857667 .1468177 -2.39 0.017 .2686342 .8784038

sp77\_701\_ss\_c\_lag\_all | 1.031257 .0431845 0.74 0.462 .9499977 1.119468

sp75\_804\_ss\_c\_lag\_all | .9486614 .0380214 -1.31 0.189 .8769925 1.026187

sp75\_805\_ss\_c\_lag\_all | .9321335 .1857528 -0.35 0.724 .630744 1.377536

sp75\_806\_ss\_c\_lag\_all | 1.385522 .6033779 0.75 0.454 .5901003 3.253129

sp75\_807\_ss\_c\_lag\_all | 1.041037 .0177562 2.36 0.018 1.006811 1.076427

sp75\_808\_ss\_c\_lag\_all | .955237 .1258168 -0.35 0.728 .7378994 1.236588

sp75\_809\_ss\_c\_lag\_all | .964526 .0445748 -0.78 0.434 .8810009 1.05597

sp75\_810\_ss\_c\_lag\_all | 1.062979 .0750751 0.86 0.387 .9255649 1.220795

sp75\_811\_ss\_c\_lag\_all | 1.055728 .1298461 0.44 0.659 .8295857 1.343517

sp77\_704\_1\_ss\_c\_lag\_all | 1.218237 .2615138 0.92 0.358 .7998492 1.855478

sp77\_704\_8\_ss\_c\_lag\_all | 1.550826 .6828464 1.00 0.319 .6542886 3.675842

sp77\_704\_9\_ss\_c\_lag\_all | 1.26131 .2250517 1.30 0.193 .8890879 1.789366

sp77\_704\_ss\_c\_lag\_all | .6308255 .1632413 -1.78 0.075 .3798746 1.047558

sp77\_705\_ss\_c\_lag\_all | .8495691 .0943501 -1.47 0.142 .683388 1.056161

sp77\_800\_1\_ss\_c\_lag\_all | 1.162231 .4706399 0.37 0.710 .5255359 2.570292

sp77\_800\_2\_ss\_c\_lag\_all | .8614598 .277628 -0.46 0.644 .4580501 1.620157

sp77\_800\_ss\_c\_lag\_all | 1.102807 .5272101 0.20 0.838 .4320879 2.814664

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

sp77\_802\_ss\_c\_lag\_all | 1.33587 .2832458 1.37 0.172 .8816236 2.024162

sp77\_803\_ss\_c\_lag\_all | 1.585269 .4087742 1.79 0.074 .9563437 2.627799

sp77\_804\_ss\_c\_lag\_all | .7022804 .1937116 -1.28 0.200 .4089984 1.205867

sp77\_805\_ss\_c\_lag\_all | 1.582147 .456127 1.59 0.112 .8991842 2.783845

sp77\_807\_1\_ss\_c\_lag\_all | 1.118768 .2407769 0.52 0.602 .7337496 1.705817

sp77\_807\_2\_ss\_c\_lag\_all | 1.178394 .1646858 1.17 0.240 .8960484 1.549708

sp77\_807\_3\_ss\_c\_lag\_all | 1.098982 .171243 0.61 0.545 .8097606 1.491504

sp77\_807\_ss\_c\_lag\_all | .7508943 .1559192 -1.38 0.168 .4998403 1.128045

sp77\_808\_ss\_c\_lag\_all | 1.128906 .3348912 0.41 0.683 .6311723 2.019146

sp77\_809\_ss\_c\_lag\_all | .7895142 .0785657 -2.37 0.018 .6496143 .9595426

sp77\_810\_ss\_c\_lag\_all | 1.204537 .365878 0.61 0.540 .6641521 2.184603

sp77\_900\_1\_ss\_c\_lag\_all | .7617555 .1874467 -1.11 0.269 .4702825 1.233879

sp77\_900\_2\_ss\_c\_lag\_all | 1 (omitted)

sp77\_900\_ss\_c\_lag\_all | 1.12036 .2082914 0.61 0.541 .7782274 1.612903

sp77\_901\_1\_ss\_c\_lag\_all | .6412182 1.066709 -0.27 0.789 .0246023 16.7123

sp77\_901\_ss\_c\_lag\_all | 1.000437 .1386027 0.00 0.997 .7625396 1.312554

sp77\_902\_ss\_c\_lag\_all | .917844 .1717472 -0.46 0.647 .6360509 1.324481

sp77\_903\_ss\_c\_lag\_all | 1.423082 .1784084 2.81 0.005 1.113056 1.819462

sp77\_904\_ss\_c\_lag\_all | .9567749 .0272468 -1.55 0.121 .9048351 1.011696

mine\_time | .9967318 .003472 -0.94 0.347 .98995 1.00356

onsite\_insp\_hours | 1.000022 .0001147 0.19 0.849 .9997971 1.000247

|

state |

AL | .9708745 .2966396 -0.10 0.923 .5334433 1.767006

CO | .6674747 .1518836 -1.78 0.076 .4273112 1.042618

IL | 1.181933 .1227546 1.61 0.108 .9642461 1.448765

IN | .9002371 .1769189 -0.53 0.593 .6124557 1.323241

MD | 1.016826 .3264249 0.05 0.959 .5419901 1.907666

NM | 1.316169 .6260273 0.58 0.564 .5181353 3.343337

OH | .8289956 .2153707 -0.72 0.470 .4982101 1.379405

OK | 1.562488 .4500409 1.55 0.121 .8884776 2.747811

PA | 1.11067 .1509886 0.77 0.440 .8508823 1.449775

TN | 1.130064 .2840137 0.49 0.627 .6905174 1.849403

UT | .8828864 .1451587 -0.76 0.449 .6396694 1.21858

VA | .8244179 .0806628 -1.97 0.048 .6805563 .9986902

WV | 1.095568 .0883077 1.13 0.257 .9354671 1.283068

WY | 2.158162 .4824081 3.44 0.001 1.392571 3.344651

|

time |

2000.25 | 1.037395 .1247924 0.31 0.760 .8195012 1.313223

2000.5 | 1.245761 .1545933 1.77 0.077 .976797 1.588784

2000.75 | .8764578 .1170117 -0.99 0.323 .6746697 1.138599

2001 | .9487075 .1152247 -0.43 0.665 .7477391 1.20369

2001.25 | .9731668 .1366541 -0.19 0.846 .7390261 1.281489

2001.5 | 1.015661 .1246714 0.13 0.899 .7984815 1.291913

2001.75 | .8954774 .1209017 -0.82 0.414 .6872753 1.166752

2002 | .9491865 .1340633 -0.37 0.712 .7196605 1.251917

2002.25 | .8442678 .1240029 -1.15 0.249 .6330805 1.125904

2002.5 | .9589881 .1245434 -0.32 0.747 .7434779 1.236968

2002.75 | .9198514 .1200835 -0.64 0.522 .7121905 1.188062

2003 | .7884742 .1126094 -1.66 0.096 .5959632 1.043171

2003.25 | .8124288 .11454 -1.47 0.141 .6162812 1.071005

2003.5 | .9896069 .1420507 -0.07 0.942 .7469286 1.311132

2003.75 | .7032018 .0998844 -2.48 0.013 .5323207 .9289377

2004 | .8751262 .1259329 -0.93 0.354 .6600558 1.160274

2004.25 | .8122827 .1060104 -1.59 0.111 .6289521 1.049052

2004.5 | .8224524 .120881 -1.33 0.184 .6166012 1.097027

2004.75 | .7450974 .1097036 -2.00 0.046 .5583253 .9943489

2005 | .680427 .098065 -2.67 0.008 .5129843 .9025246

2005.25 | .7567728 .1090478 -1.93 0.053 .5705725 1.003737

2005.5 | .7917229 .1120699 -1.65 0.099 .5999071 1.044871

2005.75 | .6179133 .0910498 -3.27 0.001 .4629164 .8248071

2006 | .7482424 .1059452 -2.05 0.041 .5669162 .9875651

2006.25 | .7352875 .1057332 -2.14 0.032 .5546969 .9746723

2006.5 | .8434963 .1222369 -1.17 0.240 .6349355 1.120564

2006.75 | .6367937 .0953563 -3.01 0.003 .4748277 .8540071

2007 | .7374886 .1039914 -2.16 0.031 .5594091 .972257

2007.25 | .6251007 .093362 -3.15 0.002 .4664646 .8376862

2007.5 | .7385553 .1082423 -2.07 0.039 .5541551 .9843163

2007.75 | .7078876 .0988466 -2.47 0.013 .5384011 .9307278

2008 | .6050909 .0894501 -3.40 0.001 .4528852 .8084498

2008.25 | .5858618 .0930091 -3.37 0.001 .429202 .7997027

2008.5 | .6452968 .1042098 -2.71 0.007 .4702164 .8855665

2008.75 | .6698464 .0983143 -2.73 0.006 .5023926 .8931148

2009 | .6018897 .0962763 -3.17 0.002 .4399077 .8235164

2009.25 | .5498998 .0829374 -3.97 0.000 .4091692 .7390335

2009.5 | .6270213 .1012728 -2.89 0.004 .4568789 .8605249

2009.75 | .461042 .0719764 -4.96 0.000 .3395108 .6260766

2010 | .5288367 .0781076 -4.31 0.000 .3959147 .7063852

2010.25 | .5867607 .0895032 -3.50 0.000 .4351316 .7912275

2010.5 | .6663769 .10736 -2.52 0.012 .4859402 .9138125

2010.75 | .5336495 .0831787 -4.03 0.000 .3931708 .7243207

2011 | .6085685 .0931745 -3.24 0.001 .450803 .8215466

2011.25 | .5521075 .0830705 -3.95 0.000 .4111035 .7414743

2011.5 | .6551943 .1028515 -2.69 0.007 .48167 .8912317

2011.75 | .5075424 .0837586 -4.11 0.000 .3672827 .7013652

2012 | .5726871 .0881851 -3.62 0.000 .4234921 .774443

2012.25 | .4916134 .0737904 -4.73 0.000 .3663192 .6597625

2012.5 | .5958258 .0893632 -3.45 0.001 .444073 .7994369

2012.75 | .5313773 .0883081 -3.80 0.000 .3836579 .735973

2013 | .4835225 .0803616 -4.37 0.000 .3490974 .6697098

2013.25 | .3812423 .0640765 -5.74 0.000 .2742441 .5299867

2013.5 | .5788863 .0916393 -3.45 0.001 .4244688 .7894794

2013.75 | .5104535 .0871475 -3.94 0.000 .365287 .7133098

2014 | .4597314 .0827272 -4.32 0.000 .3230971 .6541467

2014.25 | .4861536 .0808382 -4.34 0.000 .3509415 .6734607

2014.5 | .5447243 .0959429 -3.45 0.001 .3857035 .7693073

2014.75 | .5568863 .097589 -3.34 0.001 .3950041 .7851117

2015 | .5463603 .100547 -3.28 0.001 .3809186 .7836574

2015.25 | .5211261 .1019698 -3.33 0.001 .3551293 .7647142

2015.5 | .6094817 .10844 -2.78 0.005 .4300445 .8637895

2015.75 | .4566628 .0917959 -3.90 0.000 .3079582 .6771729

2016 | .5662335 .1121086 -2.87 0.004 .3841192 .8346897

|

\_cons | .0000157 1.61e-06 -108.04 0.000 .0000129 .0000192

ln(hours) | 1 (exposure)

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

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

note: sp71\_701\_ss\_c\_lag\_all omitted because of collinearity

note: sp75\_1101\_20\_ss\_c\_lag\_all omitted because of collinearity

note: sp75\_1432\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_1106\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_411\_ss\_c\_lag\_all omitted because of collinearity

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

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

note: sp77\_900\_2\_ss\_c\_lag\_all omitted because of collinearity

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -40765.919

Iteration 1: log pseudolikelihood = -22105.373

Iteration 2: log pseudolikelihood = -15703.661

Iteration 3: log pseudolikelihood = -11678.119

Iteration 4: log pseudolikelihood = -11276.05

Iteration 5: log pseudolikelihood = -11231.455

Iteration 6: log pseudolikelihood = -11230.739

Iteration 7: log pseudolikelihood = -11230.737

Iteration 8: log pseudolikelihood = -11230.737

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -12283.308

Iteration 1: log pseudolikelihood = -12028.723

Iteration 2: log pseudolikelihood = -12020.986

Iteration 3: log pseudolikelihood = -12020.98

Iteration 4: log pseudolikelihood = -12020.98

Fitting full model:

Iteration 0: log pseudolikelihood = -11364.648

Iteration 1: log pseudolikelihood = -11252.23

Iteration 2: log pseudolikelihood = -11230.895

Iteration 3: log pseudolikelihood = -11227.362

Iteration 4: log pseudolikelihood = -11227.122

Iteration 5: log pseudolikelihood = -11227.119

Iteration 6: log pseudolikelihood = -11227.119

Negative binomial regression Number of obs = 13,797

Wald chi2(329) = .

Dispersion = mean Prob > chi2 = .

Log pseudolikelihood = -11227.119 Pseudo R2 = 0.0660

(Std. Err. adjusted for 801 clusters in mineid)

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| Robust

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

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

sp47\_41\_ss\_c\_lag\_all | .8101202 .2741744 -0.62 0.534 .4173223 1.572633

sp47\_44\_ss\_c\_lag\_all | .4887004 .126056 -2.78 0.006 .2947696 .8102195

sp48\_11\_ss\_c\_lag\_all | 1.027555 .0551516 0.51 0.613 .9249509 1.14154

sp48\_25\_ss\_c\_lag\_all | .9994526 .0508084 -0.01 0.991 .9046703 1.104165

sp48\_26\_ss\_c\_lag\_all | 1.164972 .1449756 1.23 0.220 .9128245 1.48677

sp48\_27\_ss\_c\_lag\_all | 1.142803 .0698573 2.18 0.029 1.01377 1.288261

sp48\_28\_ss\_c\_lag\_all | .8370824 .0779652 -1.91 0.056 .6974098 1.004728

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

sp48\_5\_ss\_c\_lag\_all | 1.068783 .0704773 1.01 0.313 .9392036 1.216239

sp48\_6\_ss\_c\_lag\_all | 1.113494 .0694806 1.72 0.085 .985313 1.258351

sp48\_7\_ss\_c\_lag\_all | 1.074384 .0554299 1.39 0.164 .9710557 1.188707

sp48\_8\_ss\_c\_lag\_all | 1.00096 .1023012 0.01 0.993 .8192594 1.22296

sp71\_701\_ss\_c\_lag\_all | 1 (omitted)

sp72\_503\_ss\_c\_lag\_all | .6817566 .1109326 -2.35 0.019 .4955933 .9378498

sp72\_610\_ss\_c\_lag\_all | 1.699069 .5251203 1.72 0.086 .9271189 3.113769

sp72\_620\_ss\_c\_lag\_all | 1.094219 .2661356 0.37 0.711 .6793211 1.762516

sp72\_630\_ss\_c\_lag\_all | .982345 .0066553 -2.63 0.009 .969387 .9954762

sp75\_100\_ss\_c\_lag\_all | .8582474 .2214098 -0.59 0.553 .5176312 1.422999

sp75\_1001\_1\_ss\_c\_lag\_all | 3.452319 1.563322 2.74 0.006 1.421213 8.386147

sp75\_1001\_ss\_c\_lag\_all | .639251 .2210935 -1.29 0.196 .3245428 1.259131

sp75\_1003\_1\_ss\_c\_lag\_all | 1.240695 .2359096 1.13 0.257 .854702 1.801005

sp75\_1100\_2\_ss\_c\_lag\_all | 1.017634 .0128347 1.39 0.166 .9927866 1.043103

sp75\_1101\_20\_ss\_c\_lag\_all | 1 (omitted)

sp75\_1102\_ss\_c\_lag\_all | .8666329 .0450628 -2.75 0.006 .7826629 .9596118

sp75\_1103\_4\_ss\_c\_lag\_all | .9949232 .0312621 -0.16 0.871 .9354992 1.058122

sp75\_1104\_ss\_c\_lag\_all | 1.043326 .1048355 0.42 0.673 .8568203 1.27043

sp75\_1106\_2\_ss\_c\_lag\_all | 1.060488 .0469137 1.33 0.184 .9724123 1.156541

sp75\_1106\_3\_ss\_c\_lag\_all | 1.022424 .0183088 1.24 0.216 .9871623 1.058946

sp75\_1106\_4\_ss\_c\_lag\_all | 1.056979 .1207567 0.49 0.628 .8449271 1.32225

sp75\_1106\_5\_ss\_c\_lag\_all | .9724353 .0628928 -0.43 0.666 .8566605 1.103857

sp75\_1106\_6\_ss\_c\_lag\_all | 1.149824 .4133884 0.39 0.698 .568335 2.326259

sp75\_1106\_ss\_c\_lag\_all | 1.002243 .0838985 0.03 0.979 .8505859 1.180939

sp75\_1107\_14\_ss\_c\_lag\_all | 2.643272 .9542746 2.69 0.007 1.30269 5.363432

sp75\_1400\_1\_ss\_c\_lag\_all | 1.264995 .2142882 1.39 0.165 .9076042 1.763116

sp75\_1400\_2\_ss\_c\_lag\_all | .7400443 .3498291 -0.64 0.524 .2930105 1.869099

sp75\_1400\_3\_ss\_c\_lag\_all | .9057634 .0782742 -1.15 0.252 .7646377 1.072936

sp75\_1400\_4\_ss\_c\_lag\_all | 1.16292 .248498 0.71 0.480 .765 1.767822

sp75\_1400\_ss\_c\_lag\_all | .9300358 .0367866 -1.83 0.067 .8606593 1.005005

sp75\_1401\_ss\_c\_lag\_all | 1.31869 .2256124 1.62 0.106 .9430011 1.844053

sp75\_1403\_10\_ss\_c\_lag\_all | .9963765 .0142127 -0.25 0.799 .9689058 1.024626

sp75\_1403\_11\_ss\_c\_lag\_all | 1.373551 .5165675 0.84 0.399 .6572395 2.870557

sp75\_1403\_3\_ss\_c\_lag\_all | .3921949 .1251434 -2.93 0.003 .209844 .7330059

sp75\_1403\_4\_ss\_c\_lag\_all | 1.396665 .3498407 1.33 0.182 .8548323 2.281937

sp75\_1403\_5\_ss\_c\_lag\_all | 1.000077 .0056739 0.01 0.989 .9890183 1.01126

sp75\_1403\_6\_ss\_c\_lag\_all | .9984264 .0089767 -0.18 0.861 .9809865 1.016176

sp75\_1403\_7\_ss\_c\_lag\_all | 1.009726 .0365452 0.27 0.789 .9405806 1.083955

sp75\_1403\_8\_ss\_c\_lag\_all | .9780654 .008826 -2.46 0.014 .9609189 .9955178

sp75\_1403\_9\_ss\_c\_lag\_all | 1.012073 .0770828 0.16 0.875 .8717288 1.175011

sp75\_1404\_1\_ss\_c\_lag\_all | .5280581 .0919283 -3.67 0.000 .3754033 .7427887

sp75\_1404\_ss\_c\_lag\_all | .997555 .2434961 -0.01 0.992 .6182506 1.609567

sp75\_1405\_1\_ss\_c\_lag\_all | 1.753879 .5429967 1.81 0.070 .9560259 3.217581

sp75\_1405\_ss\_c\_lag\_all | 1.002271 .0162716 0.14 0.889 .9708814 1.034676

sp75\_1431\_ss\_c\_lag\_all | .3897552 .1428699 -2.57 0.010 .1900084 .7994865

sp75\_1432\_ss\_c\_lag\_all | 1 (omitted)

sp75\_1433\_ss\_c\_lag\_all | .8541294 .1328019 -1.01 0.311 .6297627 1.158432

sp75\_1434\_ss\_c\_lag\_all | .9145271 .0746835 -1.09 0.274 .7792638 1.073269

sp75\_1435\_ss\_c\_lag\_all | .6989342 .1923301 -1.30 0.193 .4075735 1.198579

sp75\_1437\_ss\_c\_lag\_all | 1.785681 .3703461 2.80 0.005 1.189232 2.681273

sp75\_150\_ss\_c\_lag\_all | 2.79467 .6996248 4.11 0.000 1.710955 4.564808

sp75\_151\_ss\_c\_lag\_all | .8099217 .2054734 -0.83 0.406 .4926031 1.331646

sp75\_153\_ss\_c\_lag\_all | 2.510297 1.248738 1.85 0.064 .9468863 6.655065

sp75\_155\_ss\_c\_lag\_all | .426944 .0896724 -4.05 0.000 .2828723 .6443939

sp75\_156\_ss\_c\_lag\_all | .2763525 .0784125 -4.53 0.000 .1584685 .48193

sp75\_1600\_2\_ss\_c\_lag\_all | 1.151047 .1270426 1.27 0.202 .9271392 1.42903

sp75\_1712\_10\_ss\_c\_lag\_all | .9035681 .1031028 -0.89 0.374 .7224927 1.130026

sp75\_1712\_6\_ss\_c\_lag\_all | 1.240356 .2913258 0.92 0.359 .782749 1.965488

sp75\_1720\_ss\_c\_lag\_all | .9870104 .034322 -0.38 0.707 .9219818 1.056626

sp75\_1721\_ss\_c\_lag\_all | .6372448 .0887898 -3.23 0.001 .484959 .837351

sp75\_1725\_ss\_c\_lag\_all | 1.000232 .001964 0.12 0.906 .9963898 1.004089

sp75\_1726\_ss\_c\_lag\_all | 1.162077 .074147 2.35 0.019 1.025472 1.31688

sp75\_1727\_ss\_c\_lag\_all | .9556293 .1674603 -0.26 0.796 .6778422 1.347257

sp75\_1728\_ss\_c\_lag\_all | 1.585072 .1409814 5.18 0.000 1.331498 1.886938

sp75\_1729\_ss\_c\_lag\_all | .8431318 .076871 -1.87 0.061 .7051617 1.008097

sp75\_1730\_ss\_c\_lag\_all | 1.284321 .1821355 1.76 0.078 .9726593 1.695846

sp75\_1731\_ss\_c\_lag\_all | 1.005769 .0023732 2.44 0.015 1.001128 1.010431

sp75\_1903\_ss\_c\_lag\_all | 1.059377 .1413806 0.43 0.666 .8155532 1.376096

sp75\_1909\_ss\_c\_lag\_all | .9988737 .0071037 -0.16 0.874 .9850473 1.012894

sp75\_1910\_ss\_c\_lag\_all | 1.014674 .0191051 0.77 0.439 .9779108 1.052819

sp75\_1911\_ss\_c\_lag\_all | .9463095 .0281519 -1.86 0.064 .8927107 1.003127

sp75\_1912\_ss\_c\_lag\_all | 1.133448 .1971814 0.72 0.471 .8059752 1.593976

sp75\_1913\_ss\_c\_lag\_all | .9351183 .1681113 -0.37 0.709 .6574177 1.330123

sp75\_1914\_ss\_c\_lag\_all | .9964317 .0060386 -0.59 0.555 .9846663 1.008338

sp75\_1915\_ss\_c\_lag\_all | 1.042393 .1519955 0.28 0.776 .7832752 1.38723

sp75\_202\_ss\_c\_lag\_all | .9998404 .0010474 -0.15 0.879 .9977895 1.001895

sp75\_208\_ss\_c\_lag\_all | .9982811 .0128542 -0.13 0.894 .9734025 1.023795

sp75\_211\_ss\_c\_lag\_all | .9930547 .0183364 -0.38 0.706 .9577584 1.029652

sp75\_212\_ss\_c\_lag\_all | .9869397 .0261349 -0.50 0.620 .9370229 1.039516

sp75\_214\_ss\_c\_lag\_all | 1.127029 .1155945 1.17 0.244 .9217881 1.377968

sp75\_312\_ss\_c\_lag\_all | 1.014724 .1096627 0.14 0.892 .8210273 1.254119

sp75\_320\_ss\_c\_lag\_all | .8767019 .0381117 -3.03 0.002 .8050981 .954674

sp75\_324\_ss\_c\_lag\_all | .9924443 .0629688 -0.12 0.905 .8763932 1.123863

sp75\_337\_ss\_c\_lag\_all | .9765115 .0224848 -1.03 0.302 .9334217 1.02159

sp75\_340\_ss\_c\_lag\_all | .9691462 .0112826 -2.69 0.007 .9472832 .9915138

sp75\_342\_ss\_c\_lag\_all | 1.004654 .0055583 0.84 0.401 .9938193 1.015608

sp75\_344\_ss\_c\_lag\_all | 1.007476 .075687 0.10 0.921 .8695363 1.167297

sp75\_352\_ss\_c\_lag\_all | .8861458 .0562508 -1.90 0.057 .7824788 1.003547

sp75\_382\_ss\_c\_lag\_all | 1.313628 .1095384 3.27 0.001 1.115563 1.54686

sp75\_503\_ss\_c\_lag\_all | .9977794 .0025183 -0.88 0.378 .9928559 1.002727

sp75\_504\_ss\_c\_lag\_all | .7373935 .14611 -1.54 0.124 .5000794 1.087326

sp75\_505\_ss\_c\_lag\_all | 1.125618 .2850931 0.47 0.640 .6851751 1.849187

sp75\_506\_1\_ss\_c\_lag\_all | 1.436396 .2584445 2.01 0.044 1.009535 2.043748

sp75\_506\_ss\_c\_lag\_all | .9027849 .1303873 -0.71 0.479 .6802164 1.198178

sp75\_507\_ss\_c\_lag\_all | .9836733 .0497876 -0.33 0.745 .8907754 1.086259

sp75\_511\_1\_ss\_c\_lag\_all | .7535048 .2077488 -1.03 0.305 .438936 1.293513

sp75\_511\_ss\_c\_lag\_all | 1.055334 .0504404 1.13 0.260 .9609616 1.158974

sp75\_512\_1\_ss\_c\_lag\_all | .6338549 .2803766 -1.03 0.303 .2663625 1.508366

sp75\_512\_2\_ss\_c\_lag\_all | 1.099435 .0456645 2.28 0.022 1.013481 1.19268

sp75\_512\_ss\_c\_lag\_all | 1.00346 .0052991 0.65 0.513 .993128 1.0139

sp75\_513\_1\_ss\_c\_lag\_all | 1.207729 .3278268 0.70 0.487 .7094449 2.055986

sp75\_513\_ss\_c\_lag\_all | 1.036106 .1090008 0.34 0.736 .8430551 1.273364

sp75\_514\_ss\_c\_lag\_all | 1.000428 .0221026 0.02 0.985 .9580319 1.044699

sp75\_515\_ss\_c\_lag\_all | .9688794 .0164421 -1.86 0.062 .9371836 1.001647

sp75\_516\_1\_ss\_c\_lag\_all | .7801782 .1800919 -1.08 0.282 .4962577 1.226536

sp75\_516\_2\_ss\_c\_lag\_all | .4465639 .1138587 -3.16 0.002 .2709294 .7360565

sp75\_516\_ss\_c\_lag\_all | .9976797 .0302613 -0.08 0.939 .9400971 1.058789

sp75\_517\_1\_ss\_c\_lag\_all | .6454782 .1228191 -2.30 0.021 .4445476 .9372273

sp75\_517\_ss\_c\_lag\_all | 1.002577 .0018936 1.36 0.173 .9988729 1.006296

sp75\_518\_1\_ss\_c\_lag\_all | .9743274 .0440075 -0.58 0.565 .8917818 1.064514

sp75\_518\_ss\_c\_lag\_all | 1.041123 .0222835 1.88 0.060 .998352 1.085727

sp75\_519\_ss\_c\_lag\_all | 1.001175 .3414291 0.00 0.997 .5131288 1.953413

sp75\_520\_ss\_c\_lag\_all | .9366717 .0300787 -2.04 0.042 .8795353 .9975197

sp75\_523\_1\_ss\_c\_lag\_all | .9846406 .0256712 -0.59 0.553 .9355899 1.036263

sp75\_523\_2\_ss\_c\_lag\_all | .9986409 .0197718 -0.07 0.945 .9606311 1.038155

sp75\_523\_ss\_c\_lag\_all | 1.035811 .0222421 1.64 0.101 .9931215 1.080335

sp75\_600\_1\_ss\_c\_lag\_all | .8938135 .2175201 -0.46 0.645 .5547496 1.440114

sp75\_600\_ss\_c\_lag\_all | .8251177 .1921514 -0.83 0.409 .5227453 1.302392

sp75\_601\_1\_ss\_c\_lag\_all | 1.017089 .0180273 0.96 0.339 .982363 1.053043

sp75\_601\_2\_ss\_c\_lag\_all | 1.170633 .1289861 1.43 0.153 .9432593 1.452815

sp75\_601\_3\_ss\_c\_lag\_all | 1.364585 .1728079 2.45 0.014 1.064649 1.74902

sp75\_601\_ss\_c\_lag\_all | 1.00401 .026327 0.15 0.879 .9537135 1.056959

sp75\_602\_ss\_c\_lag\_all | 1.045422 .0577961 0.80 0.422 .9380655 1.165066

sp75\_603\_ss\_c\_lag\_all | .9679127 .0361063 -0.87 0.382 .8996707 1.041331

sp75\_604\_ss\_c\_lag\_all | 1.003511 .0036464 0.96 0.335 .9963895 1.010683

sp75\_605\_ss\_c\_lag\_all | .9880812 .0238879 -0.50 0.620 .9423538 1.036028

sp75\_606\_ss\_c\_lag\_all | .9935729 .0108053 -0.59 0.553 .972619 1.014978

sp75\_607\_ss\_c\_lag\_all | .9753873 .0487233 -0.50 0.618 .8844173 1.075715

sp75\_700\_1\_ss\_c\_lag\_all | .9549771 .1539516 -0.29 0.775 .6962592 1.30983

sp75\_700\_ss\_c\_lag\_all | .947169 .0423689 -1.21 0.225 .8676636 1.03396

sp75\_701\_1\_ss\_c\_lag\_all | 1.017819 .058426 0.31 0.758 .9095132 1.139023

sp75\_701\_2\_ss\_c\_lag\_all | .9046916 .0979445 -0.93 0.355 .7317236 1.118547

sp75\_701\_3\_ss\_c\_lag\_all | 1.00946 .0499596 0.19 0.849 .91614 1.112285

sp75\_701\_4\_ss\_c\_lag\_all | .8847548 .2749253 -0.39 0.694 .481198 1.626755

sp75\_701\_ss\_c\_lag\_all | .9991438 .0166007 -0.05 0.959 .967131 1.032216

sp75\_703\_2\_ss\_c\_lag\_all | 1.378595 .2185344 2.03 0.043 1.010426 1.880914

sp75\_703\_3\_ss\_c\_lag\_all | 1.213553 .0991435 2.37 0.018 1.033995 1.424293

sp75\_703\_ss\_c\_lag\_all | 1.012597 .0340609 0.37 0.710 .9479921 1.081605

sp75\_704\_ss\_c\_lag\_all | .7299537 .2028499 -1.13 0.257 .4234004 1.25846

sp75\_705\_1\_ss\_c\_lag\_all | .9777716 .1367689 -0.16 0.872 .743315 1.286181

sp75\_705\_8\_ss\_c\_lag\_all | 3.11e-11 3.18e-11 -23.66 0.000 4.19e-12 2.31e-10

sp75\_705\_ss\_c\_lag\_all | .8696592 .1230937 -0.99 0.324 .6589734 1.147705

sp75\_706\_ss\_c\_lag\_all | .9475527 .0904258 -0.56 0.572 .7859092 1.142442

sp75\_800\_2\_ss\_c\_lag\_all | .5608606 .0518866 -6.25 0.000 .4678516 .6723597

sp75\_800\_3\_ss\_c\_lag\_all | 1.126809 .197507 0.68 0.496 .7991929 1.588725

sp75\_800\_4\_ss\_c\_lag\_all | 1.111214 .2688739 0.44 0.663 .6915722 1.785492

sp75\_800\_ss\_c\_lag\_all | .9955028 .0500766 -0.09 0.929 .9020376 1.098653

sp75\_801\_ss\_c\_lag\_all | 1.076813 .2587423 0.31 0.758 .6723712 1.724533

sp75\_802\_ss\_c\_lag\_all | .9096612 .1402889 -0.61 0.539 .6723672 1.230702

sp75\_803\_2\_ss\_c\_lag\_all | .1638776 .0151697 -19.54 0.000 .1366867 .1964776

sp75\_803\_ss\_c\_lag\_all | .9767299 .0594651 -0.39 0.699 .8668657 1.100518

sp75\_812\_ss\_c\_lag\_all | .8505203 .102547 -1.34 0.179 .6715147 1.077243

sp75\_814\_ss\_c\_lag\_all | .7052819 .0887407 -2.77 0.006 .5511402 .9025338

sp75\_815\_ss\_c\_lag\_all | 1.352252 .4457395 0.92 0.360 .7087256 2.580103

sp75\_816\_ss\_c\_lag\_all | .9140692 .0674589 -1.22 0.223 .7909697 1.056327

sp75\_818\_ss\_c\_lag\_all | 1.569685 .3141191 2.25 0.024 1.060409 2.323548

sp75\_819\_ss\_c\_lag\_all | .5780314 .1922443 -1.65 0.099 .3012 1.109297

sp75\_820\_ss\_c\_lag\_all | 1.087345 .075648 1.20 0.229 .9487419 1.246197

sp75\_821\_ss\_c\_lag\_all | .7594978 .1068796 -1.95 0.051 .5764239 1.000716

sp75\_825\_ss\_c\_lag\_all | .8497402 .1134887 -1.22 0.223 .6540369 1.104003

sp75\_827\_ss\_c\_lag\_all | 1.049334 .3004164 0.17 0.866 .5987168 1.839105

sp75\_831\_ss\_c\_lag\_all | 1.651288 .3953059 2.10 0.036 1.032884 2.63994

sp75\_900\_2\_ss\_c\_lag\_all | .593587 .1610173 -1.92 0.055 .3488079 1.010142

sp75\_900\_3\_ss\_c\_lag\_all | 1.119937 .1162342 1.09 0.275 .913799 1.372578

sp75\_900\_4\_ss\_c\_lag\_all | .9342276 .100147 -0.63 0.526 .7571919 1.152655

sp75\_900\_ss\_c\_lag\_all | .9790497 .0157453 -1.32 0.188 .9486709 1.010401

sp75\_901\_ss\_c\_lag\_all | .9960033 .0914622 -0.04 0.965 .8319469 1.192411

sp75\_902\_1\_ss\_c\_lag\_all | 1.410072 .2362423 2.05 0.040 1.015387 1.958172

sp75\_902\_2\_ss\_c\_lag\_all | 1.0246 .0754609 0.33 0.741 .8868785 1.183708

sp75\_902\_4\_ss\_c\_lag\_all | 1.21276 .0693367 3.37 0.001 1.0842 1.356565

sp75\_902\_ss\_c\_lag\_all | .9913854 .0205265 -0.42 0.676 .9519595 1.032444

sp75\_903\_ss\_c\_lag\_all | .9709271 .0301327 -0.95 0.342 .9136285 1.031819

sp75\_904\_ss\_c\_lag\_all | 1.01777 .0062002 2.89 0.004 1.00569 1.029995

sp75\_905\_ss\_c\_lag\_all | .6742927 .1284999 -2.07 0.039 .4641251 .9796295

sp75\_907\_ss\_c\_lag\_all | .8120519 .1516725 -1.11 0.265 .5631175 1.171032

sp77\_103\_ss\_c\_lag\_all | .8304344 .0617682 -2.50 0.012 .7177818 .9607673

sp77\_1103\_ss\_c\_lag\_all | 1.035874 .0440076 0.83 0.407 .9531139 1.12582

sp77\_1104\_ss\_c\_lag\_all | .9908163 .0084307 -1.08 0.278 .9744295 1.007479

sp77\_1106\_ss\_c\_lag\_all | 1 (omitted)

sp77\_1111\_ss\_c\_lag\_all | 1.554769 .3099102 2.21 0.027 1.051954 2.297919

sp77\_1112\_ss\_c\_lag\_all | .9675269 .0604217 -0.53 0.597 .8560631 1.093504

sp77\_1403\_ss\_c\_lag\_all | 1.421988 .2081972 2.40 0.016 1.067258 1.894623

sp77\_1433\_ss\_c\_lag\_all | 1.003688 .2766947 0.01 0.989 .5847109 1.722885

sp77\_1434\_ss\_c\_lag\_all | .8649852 .1261707 -0.99 0.320 .649903 1.151248

sp77\_1437\_ss\_c\_lag\_all | .6458605 .1122084 -2.52 0.012 .4594682 .9078666

sp77\_1438\_ss\_c\_lag\_all | 1.259981 .7418701 0.39 0.695 .3973573 3.995277

sp77\_1605\_ss\_c\_lag\_all | 1.01666 .0134705 1.25 0.212 .9905977 1.043407

sp77\_1606\_ss\_c\_lag\_all | 1.011492 .0123163 0.94 0.348 .987638 1.035922

sp77\_1710\_ss\_c\_lag\_all | .9655015 .01751 -1.94 0.053 .9317853 1.000438

sp77\_1802\_ss\_c\_lag\_all | .5933871 .1093732 -2.83 0.005 .4134705 .8515923

sp77\_1906\_ss\_c\_lag\_all | .9895979 .2814636 -0.04 0.971 .5667065 1.728062

sp77\_1915\_ss\_c\_lag\_all | 1.290797 .316692 1.04 0.298 .7980296 2.087839

sp77\_1916\_ss\_c\_lag\_all | 1.024651 .1220758 0.20 0.838 .8112692 1.294158

sp77\_200\_ss\_c\_lag\_all | .9957706 .01024 -0.41 0.680 .9759014 1.016044

sp77\_202\_ss\_c\_lag\_all | .9967559 .0157799 -0.21 0.837 .9663026 1.028169

sp77\_203\_ss\_c\_lag\_all | .7963175 .0844988 -2.15 0.032 .6467905 .9804127

sp77\_204\_ss\_c\_lag\_all | 1.000251 .0193514 0.01 0.990 .9630333 1.038907

sp77\_205\_ss\_c\_lag\_all | .9942517 .0076868 -0.75 0.456 .9792995 1.009432

sp77\_206\_ss\_c\_lag\_all | 1.030886 .0410259 0.76 0.445 .9535329 1.114515

sp77\_207\_ss\_c\_lag\_all | 1.092858 .0443418 2.19 0.029 1.009316 1.183316

sp77\_208\_ss\_c\_lag\_all | 1.041144 .0205878 2.04 0.041 1.001564 1.082287

sp77\_210\_ss\_c\_lag\_all | 1.008772 .0578897 0.15 0.879 .9014582 1.12886

sp77\_216\_ss\_c\_lag\_all | .9502934 .2859111 -0.17 0.865 .5269386 1.713781

sp77\_315\_ss\_c\_lag\_all | .3659486 .1556987 -2.36 0.018 .1589508 .8425145

sp77\_400\_ss\_c\_lag\_all | .9991423 .007795 -0.11 0.912 .9839806 1.014538

sp77\_401\_ss\_c\_lag\_all | .9820753 .0568258 -0.31 0.755 .8767822 1.100013

sp77\_402\_ss\_c\_lag\_all | .9751226 .0398018 -0.62 0.537 .9001513 1.056338

sp77\_403\_1\_ss\_c\_lag\_all | 1.212901 .1563917 1.50 0.134 .9420437 1.561634

sp77\_403\_ss\_c\_lag\_all | .8820823 .2433341 -0.45 0.649 .5136815 1.514692

sp77\_404\_ss\_c\_lag\_all | .9844248 .0075143 -2.06 0.040 .9698066 .9992634

sp77\_405\_ss\_c\_lag\_all | 1.026828 .0502177 0.54 0.588 .9329729 1.130124

sp77\_408\_ss\_c\_lag\_all | .9652975 .1068537 -0.32 0.750 .7770293 1.199182

sp77\_409\_ss\_c\_lag\_all | .2367091 .1022588 -3.34 0.001 .1015066 .5519958

sp77\_410\_ss\_c\_lag\_all | 1.003011 .0140821 0.21 0.830 .9757866 1.030994

sp77\_411\_ss\_c\_lag\_all | 1 (omitted)

sp77\_412\_ss\_c\_lag\_all | .8609885 .0705896 -1.83 0.068 .7331792 1.011078

sp77\_413\_ss\_c\_lag\_all | 1.576222 .2236304 3.21 0.001 1.193578 2.081535

sp77\_500\_ss\_c\_lag\_all | 1.089228 .1050869 0.89 0.376 .9015637 1.315956

sp77\_501\_ss\_c\_lag\_all | .9724734 .0682164 -0.40 0.691 .8475557 1.115802

sp77\_502\_1\_ss\_c\_lag\_all | 1.306197 .3925789 0.89 0.374 .7247351 2.354172

sp77\_502\_2\_ss\_c\_lag\_all | 1.218459 .1063419 2.26 0.024 1.026885 1.445774

sp77\_502\_ss\_c\_lag\_all | 1.036756 .013937 2.69 0.007 1.009797 1.064436

sp77\_503\_1\_ss\_c\_lag\_all | 1.879568 .457482 2.59 0.010 1.166482 3.028575

sp77\_503\_ss\_c\_lag\_all | 1.109406 .2309427 0.50 0.618 .7377302 1.668335

sp77\_504\_ss\_c\_lag\_all | 1.010846 .0468317 0.23 0.816 .9231015 1.106931

sp77\_505\_ss\_c\_lag\_all | .9361084 .0379395 -1.63 0.103 .864625 1.013502

sp77\_506\_1\_ss\_c\_lag\_all | 1.502789 .1292541 4.74 0.000 1.269657 1.778727

sp77\_506\_ss\_c\_lag\_all | .957066 .0682136 -0.62 0.538 .832288 1.100551

sp77\_507\_ss\_c\_lag\_all | 1.206013 .122592 1.84 0.065 .9881587 1.471896

sp77\_508\_1\_ss\_c\_lag\_all | .8733592 .4153481 -0.28 0.776 .3438606 2.218214

sp77\_508\_ss\_c\_lag\_all | .8545165 .1334654 -1.01 0.314 .6291769 1.160561

sp77\_509\_ss\_c\_lag\_all | .8390904 .0303915 -4.84 0.000 .7815892 .900822

sp77\_510\_ss\_c\_lag\_all | .7988047 .1170631 -1.53 0.125 .5993753 1.06459

sp77\_511\_ss\_c\_lag\_all | 1.112938 .3628634 0.33 0.743 .5874138 2.108616

sp77\_512\_ss\_c\_lag\_all | 1.031312 .0217499 1.46 0.144 .9895518 1.074834

sp77\_513\_ss\_c\_lag\_all | 1.087988 .0476895 1.92 0.054 .9984211 1.185591

sp77\_514\_ss\_c\_lag\_all | .4462858 .1510791 -2.38 0.017 .2298581 .8664957

sp77\_515\_ss\_c\_lag\_all | 1.29e-11 1.30e-11 -24.93 0.000 1.80e-12 9.28e-11

sp77\_516\_ss\_c\_lag\_all | .9661822 .0301286 -1.10 0.270 .9088996 1.027075

sp77\_600\_ss\_c\_lag\_all | 1.212166 .1829538 1.27 0.202 .9017565 1.629428

sp77\_601\_ss\_c\_lag\_all | .879502 .1204401 -0.94 0.348 .672469 1.150274

sp77\_602\_ss\_c\_lag\_all | .974631 .1485804 -0.17 0.866 .7228969 1.314026

sp77\_603\_ss\_c\_lag\_all | 1.257325 .5336897 0.54 0.590 .547196 2.889032

sp77\_604\_ss\_c\_lag\_all | 1.084939 .1338975 0.66 0.509 .8518331 1.381835

sp77\_605\_ss\_c\_lag\_all | 4.61e-12 4.28e-12 -28.12 0.000 7.47e-13 2.84e-11

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

sp77\_700\_1\_ss\_c\_lag\_all | 4.59e-12 4.61e-12 -26.01 0.000 6.42e-13 3.28e-11

sp77\_700\_ss\_c\_lag\_all | 1.042055 .2444587 0.18 0.861 .6579676 1.650351

sp77\_701\_1\_ss\_c\_lag\_all | 1.454834 .25 2.18 0.029 1.038825 2.03744

sp77\_701\_2\_ss\_c\_lag\_all | .4764839 .1512996 -2.33 0.020 .2557191 .8878369

sp77\_701\_ss\_c\_lag\_all | 1.030592 .0406313 0.76 0.445 .9539547 1.113385

sp75\_804\_ss\_c\_lag\_all | .9763154 .0370979 -0.63 0.528 .9062464 1.051802

sp75\_805\_ss\_c\_lag\_all | 1.082057 .2233859 0.38 0.702 .7219773 1.621724

sp75\_806\_ss\_c\_lag\_all | 1.535876 .6771419 0.97 0.330 .6472555 3.644489

sp75\_807\_ss\_c\_lag\_all | 1.043123 .0161768 2.72 0.006 1.011894 1.075316

sp75\_808\_ss\_c\_lag\_all | .8866971 .1221688 -0.87 0.383 .6768573 1.161592

sp75\_809\_ss\_c\_lag\_all | .9733744 .0471055 -0.56 0.577 .8852926 1.07022

sp75\_810\_ss\_c\_lag\_all | 1.084786 .08304 1.06 0.288 .9336514 1.260385

sp75\_811\_ss\_c\_lag\_all | 1.036615 .1236358 0.30 0.763 .8205326 1.309602

sp77\_704\_1\_ss\_c\_lag\_all | 1.214311 .2443792 0.96 0.335 .818514 1.801497

sp77\_704\_8\_ss\_c\_lag\_all | 1.576271 .7278597 0.99 0.324 .6376463 3.896567

sp77\_704\_9\_ss\_c\_lag\_all | 1.199301 .2134265 1.02 0.307 .8461534 1.699837

sp77\_704\_ss\_c\_lag\_all | .620276 .1410627 -2.10 0.036 .3971964 .9686449

sp77\_705\_ss\_c\_lag\_all | .8900722 .0795714 -1.30 0.193 .7470142 1.060527

sp77\_800\_1\_ss\_c\_lag\_all | 1.028991 .3949982 0.07 0.941 .4849099 2.183543

sp77\_800\_2\_ss\_c\_lag\_all | .937505 .2860476 -0.21 0.832 .5155355 1.70486

sp77\_800\_ss\_c\_lag\_all | 1.051377 .474347 0.11 0.912 .4342344 2.545616

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

sp77\_802\_ss\_c\_lag\_all | 1.228627 .2294899 1.10 0.270 .8519773 1.771791

sp77\_803\_ss\_c\_lag\_all | 1.577402 .4058178 1.77 0.076 .9526949 2.611745

sp77\_804\_ss\_c\_lag\_all | .6585974 .2126517 -1.29 0.196 .3497673 1.240112

sp77\_805\_ss\_c\_lag\_all | 1.361375 .3607342 1.16 0.244 .8098942 2.288376

sp77\_807\_1\_ss\_c\_lag\_all | 1.045357 .2210822 0.21 0.834 .6906283 1.582286

sp77\_807\_2\_ss\_c\_lag\_all | 1.151146 .1779969 0.91 0.363 .8501838 1.558649

sp77\_807\_3\_ss\_c\_lag\_all | 1.059355 .1524346 0.40 0.689 .7990221 1.404508

sp77\_807\_ss\_c\_lag\_all | .7879657 .1471639 -1.28 0.202 .5464283 1.13627

sp77\_808\_ss\_c\_lag\_all | 1.213453 .3703412 0.63 0.526 .6671744 2.207021

sp77\_809\_ss\_c\_lag\_all | .8036795 .0810183 -2.17 0.030 .6595898 .979246

sp77\_810\_ss\_c\_lag\_all | 1.276789 .3444851 0.91 0.365 .7524192 2.166597

sp77\_900\_1\_ss\_c\_lag\_all | .7402928 .1559646 -1.43 0.153 .4898608 1.118753

sp77\_900\_2\_ss\_c\_lag\_all | 1 (omitted)

sp77\_900\_ss\_c\_lag\_all | 1.156502 .1795551 0.94 0.349 .8530828 1.567839

sp77\_901\_1\_ss\_c\_lag\_all | 1.1544 2.001458 0.08 0.934 .0385987 34.52549

sp77\_901\_ss\_c\_lag\_all | 1.100432 .146226 0.72 0.471 .8481154 1.427813

sp77\_902\_ss\_c\_lag\_all | .8591944 .1436012 -0.91 0.364 .6191931 1.192221

sp77\_903\_ss\_c\_lag\_all | 1.447105 .1613662 3.31 0.001 1.163008 1.8006

sp77\_904\_ss\_c\_lag\_all | .9528154 .0274548 -1.68 0.093 .9004963 1.008174

mine\_time | .9960252 .0034498 -1.15 0.250 .9892866 1.00281

onsite\_insp\_hours | .9999908 .0001009 -0.09 0.928 .9997931 1.000189

|

state |

AL | .8988371 .2523852 -0.38 0.704 .5184077 1.558442

CO | .6310712 .1405902 -2.07 0.039 .4078003 .9765832

IL | 1.183005 .1200907 1.66 0.098 .969568 1.443427

IN | .9099091 .1607121 -0.53 0.593 .6436578 1.286296

MD | 1.006459 .3223668 0.02 0.984 .5372274 1.885534

NM | .9376936 .4266875 -0.14 0.888 .3843534 2.287658

OH | .8549531 .1977795 -0.68 0.498 .5432887 1.345408

OK | 1.541044 .4016991 1.66 0.097 .9245596 2.568592

PA | 1.124902 .1442938 0.92 0.359 .8748413 1.44644

TN | 1.073673 .2426061 0.31 0.753 .6895021 1.671894

UT | .8791077 .1649689 -0.69 0.492 .6085691 1.269914

VA | .8237121 .0788298 -2.03 0.043 .6828336 .9936558

WV | 1.010218 .0814184 0.13 0.900 .8626064 1.183089

WY | 1.829627 .4384943 2.52 0.012 1.143829 2.926607

|

time |

2000.25 | 1.09139 .1165101 0.82 0.413 .8853417 1.345392

2000.5 | 1.228922 .1283 1.97 0.048 1.001518 1.507961

2000.75 | .9279321 .108382 -0.64 0.522 .7380678 1.166638

2001 | 1.014941 .105395 0.14 0.886 .8280354 1.244035

2001.25 | .947299 .1162465 -0.44 0.659 .7447887 1.204872

2001.5 | 1.144658 .1299907 1.19 0.234 .9162437 1.430015

2001.75 | .9263576 .1134557 -0.62 0.532 .7286646 1.177686

2002 | 1.003182 .1241237 0.03 0.980 .7871558 1.278495

2002.25 | .9324611 .1241275 -0.53 0.599 .7183239 1.210434

2002.5 | 1.05886 .1262731 0.48 0.632 .8381647 1.337665

2002.75 | .9449361 .1146738 -0.47 0.641 .7449102 1.198674

2003 | .758835 .094894 -2.21 0.027 .5938855 .9695987

2003.25 | .8563243 .1107629 -1.20 0.230 .6645658 1.103414

2003.5 | 1.032347 .141568 0.23 0.816 .7890389 1.350681

2003.75 | .7620342 .0978945 -2.12 0.034 .5924138 .9802205

2004 | .9123094 .1208846 -0.69 0.489 .7036466 1.18285

2004.25 | .9000312 .1071023 -0.89 0.376 .712797 1.136447

2004.5 | .8661312 .1145129 -1.09 0.277 .6684128 1.122335

2004.75 | .8191456 .1110097 -1.47 0.141 .6280688 1.068354

2005 | .7007184 .0895439 -2.78 0.005 .5454685 .9001553

2005.25 | .8336045 .112365 -1.35 0.177 .6400636 1.085668

2005.5 | .8652445 .1086413 -1.15 0.249 .676489 1.106667

2005.75 | .662302 .0883468 -3.09 0.002 .5099309 .8602029

2006 | .75288 .0996288 -2.15 0.032 .5808794 .9758105

2006.25 | .7689989 .1071576 -1.88 0.059 .5852122 1.010504

2006.5 | .8706421 .1177709 -1.02 0.306 .6678801 1.134961

2006.75 | .6854718 .094634 -2.74 0.006 .5229684 .8984702

2007 | .8161383 .1070473 -1.55 0.121 .631128 1.055383

2007.25 | .6749459 .093948 -2.82 0.005 .5137921 .8866466

2007.5 | .7842618 .1002766 -1.90 0.057 .6104154 1.00762

2007.75 | .7489206 .0959411 -2.26 0.024 .5826287 .962675

2008 | .621491 .0857256 -3.45 0.001 .4742681 .8144149

2008.25 | .6160558 .0902521 -3.31 0.001 .4622949 .820958

2008.5 | .6942492 .1020485 -2.48 0.013 .5204707 .9260503

2008.75 | .7090437 .0964118 -2.53 0.011 .5431644 .9255815

2009 | .6613256 .0993925 -2.75 0.006 .4925903 .8878608

2009.25 | .601574 .0857005 -3.57 0.000 .4550158 .7953377

2009.5 | .7087432 .0999413 -2.44 0.015 .5376001 .9343692

2009.75 | .5160613 .0772368 -4.42 0.000 .3848624 .6919858

2010 | .6020787 .083743 -3.65 0.000 .458416 .7907636

2010.25 | .624208 .0880566 -3.34 0.001 .4734246 .8230151

2010.5 | .6527045 .0933602 -2.98 0.003 .4931332 .863911

2010.75 | .5695243 .0808227 -3.97 0.000 .431237 .7521571

2011 | .6211774 .0904564 -3.27 0.001 .466942 .8263582

2011.25 | .5952092 .0810548 -3.81 0.000 .4557787 .7772937

2011.5 | .6731527 .099773 -2.67 0.008 .5034433 .9000705

2011.75 | .5350593 .0837204 -4.00 0.000 .3937449 .7270912

2012 | .6271102 .0910535 -3.21 0.001 .471795 .8335552

2012.25 | .5386602 .0721125 -4.62 0.000 .4143442 .7002748

2012.5 | .5742014 .0809404 -3.94 0.000 .4355896 .7569217

2012.75 | .5475848 .083656 -3.94 0.000 .4058925 .7387403

2013 | .5335993 .0851865 -3.93 0.000 .390234 .7296345

2013.25 | .4334392 .0681131 -5.32 0.000 .3185412 .589781

2013.5 | .6475041 .0956641 -2.94 0.003 .4847118 .8649707

2013.75 | .5160381 .0803185 -4.25 0.000 .3803618 .7001106

2014 | .4900473 .0820393 -4.26 0.000 .3529698 .6803596

2014.25 | .5253388 .0834386 -4.05 0.000 .3848086 .71719

2014.5 | .5419473 .0873466 -3.80 0.000 .395155 .7432701

2014.75 | .5476621 .0856131 -3.85 0.000 .4031335 .7440061

2015 | .5096738 .088909 -3.86 0.000 .3620814 .7174282

2015.25 | .5223182 .0901446 -3.76 0.000 .3724175 .7325549

2015.5 | .6217781 .1050216 -2.81 0.005 .4465428 .8657805

2015.75 | .4370577 .0812589 -4.45 0.000 .3035856 .6292111

2016 | .532304 .1035999 -3.24 0.001 .3634915 .7795163

|

\_cons | .0000156 1.44e-06 -120.27 0.000 .000013 .0000187

ln(hours) | 1 (exposure)

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

/lnalpha | -3.422345 .5199772 -4.441482 -2.403209

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

alpha | .0326358 .0169699 .0117785 .0904273

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(est1 stored)

**. lrtest pois nbin, stats force**

Likelihood-ratio test LR chi2(0) = -7.24

(Assumption: nbin nested in pois) Prob > chi2 = .

Akaike's information criterion and Bayesian information criterion

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

Model | Obs ll(null) ll(model) df AIC BIC

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

nbin | 13,797 -12020.98 -11227.12 331 23116.24 25609.4

pois | 13,797 -12244.95 -11230.74 331 23123.47 25616.63

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

Note: N=Obs used in calculating BIC; see [R] BIC note.

**. summ MR spcssv4\_yhat**

Variable | Obs Mean Std. Dev. Min Max

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

MR | 30,289 .4096207 .9550592 0 14

spcssv4\_yhat | 13,797 .644804 .928971 6.96e-14 11.04261