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

note: sp77\_1106\_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\_901\_1\_ss\_c\_lag\_all omitted because of collinearity

Iteration 0: log pseudolikelihood = -9018.9287

Iteration 1: log pseudolikelihood = -8432.3525

Iteration 2: log pseudolikelihood = -8425.864

Iteration 3: log pseudolikelihood = -8424.9768

Iteration 4: log pseudolikelihood = -8424.7243

Iteration 5: log pseudolikelihood = -8424.6792

Iteration 6: log pseudolikelihood = -8424.6717

Iteration 7: log pseudolikelihood = -8424.67

Iteration 8: log pseudolikelihood = -8424.6696

Iteration 9: log pseudolikelihood = -8424.6695

Iteration 10: log pseudolikelihood = -8424.6695

Generalized linear models No. of obs = 6,253

Optimization : ML Residual df = 5,958

Scale parameter = 1

Deviance = 7274.473274 (1/df) Deviance = 1.220959

Pearson = 8123.576669 (1/df) Pearson = 1.363474

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

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

AIC = 2.788956

Log pseudolikelihood = -8424.669484 BIC = -44803.31

(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\_ss\_c\_lag\_all | .8951002 .0861218 -1.15 0.249 .7412651 1.080861

sp47\_44\_ss\_c\_lag\_all | .8023822 .0687018 -2.57 0.010 .6784213 .9489932

sp48\_11\_ss\_c\_lag\_all | .9821798 .0122444 -1.44 0.149 .958472 1.006474

sp48\_25\_ss\_c\_lag\_all | .9873088 .0146217 -0.86 0.388 .9590628 1.016387

sp48\_26\_ss\_c\_lag\_all | 1.024139 .0247845 0.99 0.324 .9766966 1.073887

sp48\_27\_ss\_c\_lag\_all | 1.040916 .0163619 2.55 0.011 1.009336 1.073484

sp48\_28\_ss\_c\_lag\_all | .9509938 .0220405 -2.17 0.030 .9087617 .9951886

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

sp48\_5\_ss\_c\_lag\_all | 1.031145 .016654 1.90 0.058 .9990147 1.064308

sp48\_6\_ss\_c\_lag\_all | 1.030243 .0147174 2.09 0.037 1.001797 1.059496

sp48\_7\_ss\_c\_lag\_all | 1.011544 .0139755 0.83 0.406 .9845196 1.039309

sp48\_8\_ss\_c\_lag\_all | 1.043801 .0303691 1.47 0.141 .9859436 1.105053

sp71\_701\_ss\_c\_lag\_all | 1.111664 .1196034 0.98 0.325 .9003127 1.372632

sp72\_503\_ss\_c\_lag\_all | .9194295 .0327652 -2.36 0.018 .8574023 .9859439

sp72\_610\_ss\_c\_lag\_all | 1.050291 .0977834 0.53 0.598 .8751078 1.260543

sp72\_620\_ss\_c\_lag\_all | .9469674 .0742671 -0.69 0.487 .812042 1.104311

sp72\_630\_ss\_c\_lag\_all | .9956605 .0016443 -2.63 0.008 .9924429 .9988886

sp75\_100\_ss\_c\_lag\_all | .9491004 .064658 -0.77 0.443 .8304694 1.084678

sp75\_1001\_1\_ss\_c\_lag\_all | 1.512081 .1700653 3.68 0.000 1.212941 1.884997

sp75\_1001\_ss\_c\_lag\_all | 1.006071 .0383465 0.16 0.874 .9336519 1.084107

sp75\_1003\_1\_ss\_c\_lag\_all | 1.08122 .0474467 1.78 0.075 .9921132 1.17833

sp75\_1100\_2\_ss\_c\_lag\_all | 1.00401 .0038169 1.05 0.293 .9965566 1.011519

sp75\_1101\_20\_ss\_c\_lag\_all | 1.022375 .0539183 0.42 0.675 .9219756 1.133708

sp75\_1102\_ss\_c\_lag\_all | .9481775 .013295 -3.80 0.000 .9224746 .9745965

sp75\_1103\_4\_ss\_c\_lag\_all | 1.00335 .0074887 0.45 0.654 .9887789 1.018135

sp75\_1104\_ss\_c\_lag\_all | 1.021943 .0264571 0.84 0.402 .9713812 1.075136

sp75\_1106\_2\_ss\_c\_lag\_all | 1.010618 .0122595 0.87 0.384 .9868737 1.034935

sp75\_1106\_3\_ss\_c\_lag\_all | 1.006633 .0052965 1.26 0.209 .9963056 1.017068

sp75\_1106\_4\_ss\_c\_lag\_all | 1.032169 .0385371 0.85 0.396 .9593352 1.110533

sp75\_1106\_5\_ss\_c\_lag\_all | .977824 .012874 -1.70 0.089 .9529141 1.003385

sp75\_1106\_6\_ss\_c\_lag\_all | .9469243 .1052569 -0.49 0.624 .7615503 1.177421

sp75\_1106\_ss\_c\_lag\_all | 1.004781 .0271746 0.18 0.860 .9529067 1.059479

sp75\_1107\_14\_ss\_c\_lag\_all | 1.387347 .2648186 1.72 0.086 .9543478 2.016803

sp75\_1400\_1\_ss\_c\_lag\_all | 1.024495 .0485245 0.51 0.609 .9336698 1.124156

sp75\_1400\_2\_ss\_c\_lag\_all | .7212934 .1561187 -1.51 0.131 .4719278 1.102423

sp75\_1400\_3\_ss\_c\_lag\_all | .9533475 .021457 -2.12 0.034 .9122067 .9963437

sp75\_1400\_4\_ss\_c\_lag\_all | 1.051096 .0927925 0.56 0.572 .8840911 1.249649

sp75\_1400\_ss\_c\_lag\_all | .9899518 .0121376 -0.82 0.410 .9664462 1.014029

sp75\_1401\_ss\_c\_lag\_all | 1.042443 .0427429 1.01 0.311 .9619461 1.129676

sp75\_1403\_10\_ss\_c\_lag\_all | 1.00282 .0042327 0.67 0.505 .9945584 1.01115

sp75\_1403\_11\_ss\_c\_lag\_all | .8552106 .1737718 -0.77 0.441 .5742697 1.273592

sp75\_1403\_3\_ss\_c\_lag\_all | .7545324 .0885226 -2.40 0.016 .5995342 .9496024

sp75\_1403\_4\_ss\_c\_lag\_all | 1.289406 .1371217 2.39 0.017 1.046812 1.588219

sp75\_1403\_5\_ss\_c\_lag\_all | .9993307 .0015367 -0.44 0.663 .9963234 1.002347

sp75\_1403\_6\_ss\_c\_lag\_all | .9981206 .0018739 -1.00 0.316 .9944545 1.0018

sp75\_1403\_7\_ss\_c\_lag\_all | .9968105 .0084623 -0.38 0.707 .9803619 1.013535

sp75\_1403\_8\_ss\_c\_lag\_all | .9937488 .0029462 -2.12 0.034 .9879911 .9995401

sp75\_1403\_9\_ss\_c\_lag\_all | 1.047838 .0278685 1.76 0.079 .9946157 1.103908

sp75\_1404\_1\_ss\_c\_lag\_all | .8727085 .0431004 -2.76 0.006 .7921929 .9614075

sp75\_1404\_ss\_c\_lag\_all | 1.02097 .0686807 0.31 0.758 .8948549 1.164859

sp75\_1405\_1\_ss\_c\_lag\_all | 1.108443 .0912569 1.25 0.211 .9432677 1.302542

sp75\_1405\_ss\_c\_lag\_all | 1.003462 .0045519 0.76 0.446 .9945801 1.012423

sp75\_1431\_ss\_c\_lag\_all | .9305941 .1019637 -0.66 0.512 .7507503 1.15352

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

sp75\_1433\_ss\_c\_lag\_all | .947367 .049645 -1.03 0.302 .8548947 1.049842

sp75\_1434\_ss\_c\_lag\_all | .982557 .0205947 -0.84 0.401 .94301 1.023762

sp75\_1435\_ss\_c\_lag\_all | .6850511 .0915359 -2.83 0.005 .527213 .890143

sp75\_1437\_ss\_c\_lag\_all | 1.007082 .0492947 0.14 0.885 .9149561 1.108484

sp75\_150\_ss\_c\_lag\_all | 1.179303 .0781124 2.49 0.013 1.035727 1.342783

sp75\_151\_ss\_c\_lag\_all | .9543547 .074523 -0.60 0.550 .8189205 1.112187

sp75\_153\_ss\_c\_lag\_all | 1.199529 .2913397 0.75 0.454 .745199 1.930853

sp75\_155\_ss\_c\_lag\_all | .8003877 .0735222 -2.42 0.015 .6685141 .9582752

sp75\_156\_ss\_c\_lag\_all | .7011923 .0556818 -4.47 0.000 .6001269 .8192778

sp75\_1600\_2\_ss\_c\_lag\_all | 1.019652 .0307832 0.64 0.519 .9610688 1.081807

sp75\_1712\_10\_ss\_c\_lag\_all | 1.005953 .0369327 0.16 0.872 .9361095 1.081008

sp75\_1712\_6\_ss\_c\_lag\_all | 1.034316 .2071947 0.17 0.866 .6984578 1.531674

sp75\_1720\_ss\_c\_lag\_all | .9991985 .0084145 -0.10 0.924 .9828418 1.015827

sp75\_1721\_ss\_c\_lag\_all | .8756908 .0261815 -4.44 0.000 .8258506 .9285388

sp75\_1725\_ss\_c\_lag\_all | 1.000425 .0005408 0.79 0.431 .9993661 1.001486

sp75\_1726\_ss\_c\_lag\_all | 1.032755 .0201185 1.65 0.098 .994067 1.072949

sp75\_1727\_ss\_c\_lag\_all | 1.069723 .0495307 1.46 0.145 .9769192 1.171343

sp75\_1728\_ss\_c\_lag\_all | 1.101422 .0503292 2.11 0.035 1.007066 1.204617

sp75\_1729\_ss\_c\_lag\_all | .9548578 .0231096 -1.91 0.056 .9106212 1.001243

sp75\_1730\_ss\_c\_lag\_all | .9651565 .0341991 -1.00 0.317 .9004021 1.034568

sp75\_1731\_ss\_c\_lag\_all | 1.00179 .0006369 2.81 0.005 1.000543 1.003039

sp75\_1903\_ss\_c\_lag\_all | .9774926 .0291347 -0.76 0.445 .9220256 1.036296

sp75\_1909\_ss\_c\_lag\_all | .9974073 .0019771 -1.31 0.190 .9935398 1.00129

sp75\_1910\_ss\_c\_lag\_all | 1.005045 .0051023 0.99 0.322 .9950948 1.015096

sp75\_1911\_ss\_c\_lag\_all | .9948672 .0081699 -0.63 0.531 .9789826 1.011009

sp75\_1912\_ss\_c\_lag\_all | .9890546 .0377245 -0.29 0.773 .917812 1.065827

sp75\_1913\_ss\_c\_lag\_all | 1.009627 .0191688 0.50 0.614 .9727475 1.047905

sp75\_1914\_ss\_c\_lag\_all | 1.000667 .0016769 0.40 0.691 .9973858 1.003959

sp75\_1915\_ss\_c\_lag\_all | .979426 .0403884 -0.50 0.614 .9033807 1.061873

sp75\_202\_ss\_c\_lag\_all | 1.000207 .0002886 0.72 0.474 .9996412 1.000773

sp75\_208\_ss\_c\_lag\_all | 1.001896 .0034576 0.55 0.583 .9951424 1.008696

sp75\_211\_ss\_c\_lag\_all | .998401 .0048238 -0.33 0.740 .9889911 1.0079

sp75\_212\_ss\_c\_lag\_all | 1.010621 .0073787 1.45 0.148 .9962626 1.025187

sp75\_214\_ss\_c\_lag\_all | 1.019776 .0314082 0.64 0.525 .9600386 1.083231

sp75\_312\_ss\_c\_lag\_all | .9936938 .028073 -0.22 0.823 .9401674 1.050268

sp75\_320\_ss\_c\_lag\_all | .9689486 .0096266 -3.17 0.001 .9502633 .9880013

sp75\_324\_ss\_c\_lag\_all | .9885061 .0125617 -0.91 0.363 .9641896 1.013436

sp75\_337\_ss\_c\_lag\_all | .9939268 .0066041 -0.92 0.359 .9810669 1.006955

sp75\_340\_ss\_c\_lag\_all | .9912303 .0028835 -3.03 0.002 .9855948 .996898

sp75\_342\_ss\_c\_lag\_all | 1.001074 .001424 0.75 0.451 .9982867 1.003869

sp75\_344\_ss\_c\_lag\_all | .9930581 .017127 -0.40 0.686 .9600507 1.0272

sp75\_352\_ss\_c\_lag\_all | .9883326 .0157227 -0.74 0.461 .9579922 1.019634

sp75\_382\_ss\_c\_lag\_all | 1.054683 .0238973 2.35 0.019 1.00887 1.102576

sp75\_503\_ss\_c\_lag\_all | .9990382 .0005838 -1.65 0.100 .9978945 1.000183

sp75\_504\_ss\_c\_lag\_all | .955401 .0499628 -0.87 0.383 .8623271 1.058521

sp75\_505\_ss\_c\_lag\_all | .9945702 .0669447 -0.08 0.936 .8716477 1.134828

sp75\_506\_1\_ss\_c\_lag\_all | 1.080519 .0533098 1.57 0.116 .9809267 1.190223

sp75\_506\_ss\_c\_lag\_all | 1.053063 .0370776 1.47 0.142 .9828431 1.1283

sp75\_507\_ss\_c\_lag\_all | 1.001262 .0127906 0.10 0.921 .9765041 1.026647

sp75\_511\_1\_ss\_c\_lag\_all | .9901459 .0609496 -0.16 0.872 .8776119 1.11711

sp75\_511\_ss\_c\_lag\_all | 1.00074 .0112092 0.07 0.947 .97901 1.022953

sp75\_512\_1\_ss\_c\_lag\_all | .8199395 .1052138 -1.55 0.122 .6376121 1.054404

sp75\_512\_2\_ss\_c\_lag\_all | 1.015092 .0101451 1.50 0.134 .9954015 1.035172

sp75\_512\_ss\_c\_lag\_all | 1.000526 .001466 0.36 0.720 .9976566 1.003403

sp75\_513\_1\_ss\_c\_lag\_all | 1.051688 .0696812 0.76 0.447 .9236116 1.197525

sp75\_513\_ss\_c\_lag\_all | .9854075 .0310626 -0.47 0.641 .9263685 1.048209

sp75\_514\_ss\_c\_lag\_all | 1.007214 .0059654 1.21 0.225 .9955899 1.018974

sp75\_515\_ss\_c\_lag\_all | .9922564 .0044198 -1.75 0.081 .9836314 1.000957

sp75\_516\_1\_ss\_c\_lag\_all | .9268825 .0683302 -1.03 0.303 .8021835 1.070966

sp75\_516\_2\_ss\_c\_lag\_all | .9377491 .1410656 -0.43 0.669 .6982975 1.259311

sp75\_516\_ss\_c\_lag\_all | 1.000112 .0084265 0.01 0.989 .9837321 1.016765

sp75\_517\_1\_ss\_c\_lag\_all | .9457643 .0455881 -1.16 0.247 .8605041 1.039472

sp75\_517\_ss\_c\_lag\_all | 1.000144 .0004587 0.31 0.754 .9992452 1.001043

sp75\_518\_1\_ss\_c\_lag\_all | .9906431 .0098059 -0.95 0.342 .971609 1.01005

sp75\_518\_ss\_c\_lag\_all | 1.012045 .0050115 2.42 0.016 1.00227 1.021916

sp75\_519\_ss\_c\_lag\_all | 1.095572 .1529143 0.65 0.513 .8333636 1.440281

sp75\_520\_ss\_c\_lag\_all | .9859672 .010103 -1.38 0.168 .9663632 1.005969

sp75\_523\_1\_ss\_c\_lag\_all | 1.001572 .0066807 0.24 0.814 .9885634 1.014752

sp75\_523\_2\_ss\_c\_lag\_all | .9957922 .0051788 -0.81 0.417 .9856935 1.005994

sp75\_523\_ss\_c\_lag\_all | 1.002043 .0046286 0.44 0.659 .9930121 1.011156

sp75\_600\_1\_ss\_c\_lag\_all | .9660745 .0526453 -0.63 0.526 .8682108 1.074969

sp75\_600\_ss\_c\_lag\_all | .8438233 .0545265 -2.63 0.009 .743444 .9577557

sp75\_601\_1\_ss\_c\_lag\_all | 1.000735 .0042203 0.17 0.862 .9924977 1.009041

sp75\_601\_2\_ss\_c\_lag\_all | 1.058861 .0305249 1.98 0.047 1.000692 1.120411

sp75\_601\_3\_ss\_c\_lag\_all | 1.079465 .0640754 1.29 0.198 .9609093 1.212647

sp75\_601\_ss\_c\_lag\_all | 1.008632 .0068575 1.26 0.206 .9952808 1.022162

sp75\_602\_ss\_c\_lag\_all | 1.010163 .0207104 0.49 0.622 .9703766 1.051582

sp75\_603\_ss\_c\_lag\_all | .9947591 .0116224 -0.45 0.653 .9722384 1.017801

sp75\_604\_ss\_c\_lag\_all | 1.001654 .0008071 2.05 0.040 1.000074 1.003238

sp75\_605\_ss\_c\_lag\_all | 1.000747 .0062491 0.12 0.905 .9885734 1.01307

sp75\_606\_ss\_c\_lag\_all | .9971657 .002526 -1.12 0.263 .9922271 1.002129

sp75\_607\_ss\_c\_lag\_all | .9932178 .0132511 -0.51 0.610 .9675828 1.019532

sp75\_700\_1\_ss\_c\_lag\_all | 1.010182 .0414081 0.25 0.805 .9321984 1.09469

sp75\_700\_ss\_c\_lag\_all | .9928606 .0111305 -0.64 0.523 .9712833 1.014917

sp75\_701\_1\_ss\_c\_lag\_all | .9992073 .0150581 -0.05 0.958 .9701256 1.029161

sp75\_701\_2\_ss\_c\_lag\_all | .9939011 .0275014 -0.22 0.825 .941435 1.049291

sp75\_701\_3\_ss\_c\_lag\_all | .9880326 .0157902 -0.75 0.451 .957564 1.019471

sp75\_701\_4\_ss\_c\_lag\_all | .986395 .103939 -0.13 0.897 .8023383 1.212674

sp75\_701\_ss\_c\_lag\_all | .9994353 .0038983 -0.14 0.885 .991824 1.007105

sp75\_703\_2\_ss\_c\_lag\_all | 1.057874 .0395316 1.51 0.132 .9831631 1.138263

sp75\_703\_3\_ss\_c\_lag\_all | 1.042421 .0215795 2.01 0.045 1.000972 1.085586

sp75\_703\_ss\_c\_lag\_all | .9975096 .0093696 -0.27 0.791 .9793136 1.016044

sp75\_704\_ss\_c\_lag\_all | .9097105 .076256 -1.13 0.259 .7718835 1.072148

sp75\_705\_1\_ss\_c\_lag\_all | 1.041657 .0426902 1.00 0.319 .9612585 1.128781

sp75\_705\_8\_ss\_c\_lag\_all | 7.71e-07 7.83e-07 -13.87 0.000 1.05e-07 5.64e-06

sp75\_705\_ss\_c\_lag\_all | .9482699 .040294 -1.25 0.211 .8724943 1.030626

sp75\_706\_ss\_c\_lag\_all | .9427791 .027147 -2.05 0.041 .8910455 .9975162

sp75\_800\_2\_ss\_c\_lag\_all | .9046722 .0131586 -6.89 0.000 .8792461 .9308337

sp75\_800\_3\_ss\_c\_lag\_all | 1.043476 .0483504 0.92 0.358 .9528868 1.142678

sp75\_800\_4\_ss\_c\_lag\_all | 1.196334 .1263555 1.70 0.090 .9726343 1.471484

sp75\_800\_ss\_c\_lag\_all | .9961866 .0164741 -0.23 0.817 .9644156 1.029004

sp75\_801\_ss\_c\_lag\_all | .9318121 .0675167 -0.97 0.330 .8084487 1.074

sp75\_802\_ss\_c\_lag\_all | .9777294 .0321168 -0.69 0.493 .9167651 1.042748

sp75\_803\_2\_ss\_c\_lag\_all | .9155158 .082401 -0.98 0.327 .767456 1.09214

sp75\_803\_ss\_c\_lag\_all | 1.034027 .0160828 2.15 0.031 1.002981 1.066034

sp75\_812\_ss\_c\_lag\_all | 1.078832 .070551 1.16 0.246 .9490494 1.226362

sp75\_814\_ss\_c\_lag\_all | .9120377 .0329195 -2.55 0.011 .8497461 .9788958

sp75\_815\_ss\_c\_lag\_all | 1.012573 .0408594 0.31 0.757 .9355755 1.095908

sp75\_816\_ss\_c\_lag\_all | .9790262 .0173631 -1.20 0.232 .9455797 1.013656

sp75\_818\_ss\_c\_lag\_all | 1.174266 .0754239 2.50 0.012 1.035365 1.331803

sp75\_819\_ss\_c\_lag\_all | .8204304 .0876665 -1.85 0.064 .6654068 1.011571

sp75\_820\_ss\_c\_lag\_all | 1.057355 .0227302 2.59 0.009 1.01373 1.102857

sp75\_821\_ss\_c\_lag\_all | .9381066 .0300624 -1.99 0.046 .8809976 .9989175

sp75\_825\_ss\_c\_lag\_all | .9112451 .0500875 -1.69 0.091 .8181785 1.014898

sp75\_827\_ss\_c\_lag\_all | .9900894 .0719615 -0.14 0.891 .8586329 1.141672

sp75\_831\_ss\_c\_lag\_all | 1.1098 .0665752 1.74 0.082 .9866939 1.248266

sp75\_900\_2\_ss\_c\_lag\_all | .9051503 .0456127 -1.98 0.048 .8200241 .9991135

sp75\_900\_3\_ss\_c\_lag\_all | 1.00887 .0268765 0.33 0.740 .9575446 1.062946

sp75\_900\_4\_ss\_c\_lag\_all | 1.02409 .0185893 1.31 0.190 .9882966 1.061181

sp75\_900\_ss\_c\_lag\_all | .9971084 .0042445 -0.68 0.496 .9888239 1.005462

sp75\_901\_ss\_c\_lag\_all | .9858295 .0250321 -0.56 0.574 .9379684 1.036133

sp75\_902\_1\_ss\_c\_lag\_all | 1.111213 .0618083 1.90 0.058 .9964407 1.239205

sp75\_902\_2\_ss\_c\_lag\_all | 1.006919 .0159027 0.44 0.662 .9762276 1.038575

sp75\_902\_4\_ss\_c\_lag\_all | 1.051476 .0193323 2.73 0.006 1.01426 1.090058

sp75\_902\_ss\_c\_lag\_all | 1.00039 .0058794 0.07 0.947 .9889325 1.01198

sp75\_903\_ss\_c\_lag\_all | .9913275 .0082983 -1.04 0.298 .9751959 1.007726

sp75\_904\_ss\_c\_lag\_all | 1.005257 .0016115 3.27 0.001 1.002103 1.00842

sp75\_905\_ss\_c\_lag\_all | .9220437 .0472762 -1.58 0.113 .8338879 1.019519

sp75\_907\_ss\_c\_lag\_all | .9505193 .04616 -1.04 0.296 .8642197 1.045437

sp77\_103\_ss\_c\_lag\_all | .9804247 .0229293 -0.85 0.398 .9364986 1.026411

sp77\_1103\_ss\_c\_lag\_all | 1.009828 .0127792 0.77 0.440 .9850898 1.035188

sp77\_1104\_ss\_c\_lag\_all | .998929 .0023173 -0.46 0.644 .9943976 1.003481

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

sp77\_1111\_ss\_c\_lag\_all | 1.186549 .0549868 3.69 0.000 1.083526 1.299367

sp77\_1112\_ss\_c\_lag\_all | .9733731 .0183504 -1.43 0.152 .9380635 1.010012

sp77\_1403\_ss\_c\_lag\_all | 1.094132 .0642885 1.53 0.126 .9751135 1.227677

sp77\_1433\_ss\_c\_lag\_all | 1.005782 .117883 0.05 0.961 .7993528 1.26552

sp77\_1434\_ss\_c\_lag\_all | .9304848 .0355691 -1.88 0.059 .8633182 1.002877

sp77\_1437\_ss\_c\_lag\_all | .8708409 .0545184 -2.21 0.027 .7702823 .9845272

sp77\_1438\_ss\_c\_lag\_all | 1.221741 .1990163 1.23 0.219 .8878142 1.681265

sp77\_1605\_ss\_c\_lag\_all | 1.003816 .0030653 1.25 0.212 .9978258 1.009841

sp77\_1606\_ss\_c\_lag\_all | 1.002732 .002742 1.00 0.318 .9973718 1.00812

sp77\_1710\_ss\_c\_lag\_all | .9872968 .0050218 -2.51 0.012 .9775031 .9971887

sp77\_1802\_ss\_c\_lag\_all | .9565453 .0711858 -0.60 0.551 .8267217 1.106755

sp77\_1906\_ss\_c\_lag\_all | .9756198 .1174476 -0.21 0.838 .7705677 1.235237

sp77\_1915\_ss\_c\_lag\_all | .906923 .0756022 -1.17 0.241 .7702172 1.067893

sp77\_1916\_ss\_c\_lag\_all | .9389936 .0271553 -2.18 0.030 .8872504 .9937544

sp77\_200\_ss\_c\_lag\_all | .9962408 .0026891 -1.40 0.163 .9909842 1.001525

sp77\_202\_ss\_c\_lag\_all | .9980532 .0041172 -0.47 0.637 .9900163 1.006155

sp77\_203\_ss\_c\_lag\_all | .9591992 .0311921 -1.28 0.200 .8999714 1.022325

sp77\_204\_ss\_c\_lag\_all | 1.004402 .0058152 0.76 0.448 .9930686 1.015864

sp77\_205\_ss\_c\_lag\_all | .9978804 .0018113 -1.17 0.242 .9943367 1.001437

sp77\_206\_ss\_c\_lag\_all | 1.003205 .0126381 0.25 0.800 .9787377 1.028283

sp77\_207\_ss\_c\_lag\_all | 1.019336 .0106537 1.83 0.067 .9986671 1.040432

sp77\_208\_ss\_c\_lag\_all | 1.011485 .0051325 2.25 0.024 1.001475 1.021595

sp77\_210\_ss\_c\_lag\_all | 1.002405 .0178887 0.13 0.893 .9679503 1.038087

sp77\_216\_ss\_c\_lag\_all | .9292077 .0850235 -0.80 0.422 .7766528 1.111728

sp77\_315\_ss\_c\_lag\_all | .8480315 .1061493 -1.32 0.188 .6635381 1.083822

sp77\_400\_ss\_c\_lag\_all | 1.000682 .0022575 0.30 0.762 .9962675 1.005117

sp77\_401\_ss\_c\_lag\_all | 1.002004 .0149469 0.13 0.893 .9731325 1.031732

sp77\_402\_ss\_c\_lag\_all | .9859733 .0117323 -1.19 0.235 .9632445 1.009238

sp77\_403\_1\_ss\_c\_lag\_all | 1.06875 .0318485 2.23 0.026 1.008116 1.133031

sp77\_403\_ss\_c\_lag\_all | .9328046 .0890984 -0.73 0.466 .7735471 1.12485

sp77\_404\_ss\_c\_lag\_all | .9966406 .0016611 -2.02 0.043 .9933901 .9999017

sp77\_405\_ss\_c\_lag\_all | .9912672 .013456 -0.65 0.518 .9652417 1.017994

sp77\_408\_ss\_c\_lag\_all | 1.006334 .0290918 0.22 0.827 .9509006 1.064999

sp77\_409\_ss\_c\_lag\_all | .6294028 .0725141 -4.02 0.000 .5021818 .7888536

sp77\_410\_ss\_c\_lag\_all | .9999852 .0036171 -0.00 0.997 .9929209 1.0071

sp77\_411\_ss\_c\_lag\_all | .7942045 .0416996 -4.39 0.000 .7165395 .8802874

sp77\_412\_ss\_c\_lag\_all | .9356414 .0203883 -3.05 0.002 .8965225 .9764673

sp77\_413\_ss\_c\_lag\_all | 1.12183 .0513399 2.51 0.012 1.025586 1.227105

sp77\_500\_ss\_c\_lag\_all | 1.011095 .0235113 0.47 0.635 .9660481 1.058242

sp77\_501\_ss\_c\_lag\_all | 1.007053 .0248107 0.29 0.775 .9595799 1.056874

sp77\_502\_1\_ss\_c\_lag\_all | 1.19256 .1644943 1.28 0.202 .9100616 1.56275

sp77\_502\_2\_ss\_c\_lag\_all | 1.056851 .0233113 2.51 0.012 1.012135 1.103542

sp77\_502\_ss\_c\_lag\_all | 1.007298 .0035504 2.06 0.039 1.000363 1.014281

sp77\_503\_1\_ss\_c\_lag\_all | 1.160716 .0750949 2.30 0.021 1.022482 1.317639

sp77\_503\_ss\_c\_lag\_all | 1.000906 .0457224 0.02 0.984 .9151865 1.094654

sp77\_504\_ss\_c\_lag\_all | 1.008597 .0125318 0.69 0.491 .984332 1.033461

sp77\_505\_ss\_c\_lag\_all | .976487 .0096451 -2.41 0.016 .9577649 .9955751

sp77\_506\_1\_ss\_c\_lag\_all | 1.122512 .0405904 3.20 0.001 1.04571 1.204955

sp77\_506\_ss\_c\_lag\_all | .9957631 .0202376 -0.21 0.835 .9568777 1.036229

sp77\_507\_ss\_c\_lag\_all | 1.023001 .0300248 0.77 0.438 .9658143 1.083574

sp77\_508\_1\_ss\_c\_lag\_all | 1.166546 .0970059 1.85 0.064 .9911032 1.373045

sp77\_508\_ss\_c\_lag\_all | .929599 .0336943 -2.01 0.044 .8658506 .9980408

sp77\_509\_ss\_c\_lag\_all | .9592578 .0110435 -3.61 0.000 .9378552 .9811488

sp77\_510\_ss\_c\_lag\_all | .9928307 .0530944 -0.13 0.893 .8940356 1.102543

sp77\_511\_ss\_c\_lag\_all | 1.032703 .0480053 0.69 0.489 .9427731 1.131211

sp77\_512\_ss\_c\_lag\_all | 1.007584 .0060679 1.25 0.210 .9957615 1.019548

sp77\_513\_ss\_c\_lag\_all | 1.014487 .0112176 1.30 0.193 .9927379 1.036713

sp77\_514\_ss\_c\_lag\_all | .7213073 .0746022 -3.16 0.002 .5889571 .8833992

sp77\_515\_ss\_c\_lag\_all | 1.216858 .1248633 1.91 0.056 .9951695 1.487931

sp77\_516\_ss\_c\_lag\_all | .993545 .0076186 -0.84 0.398 .9787245 1.00859

sp77\_600\_ss\_c\_lag\_all | 1.028654 .0293244 0.99 0.322 .9727552 1.087765

sp77\_601\_ss\_c\_lag\_all | 1.017991 .036174 0.50 0.616 .9495041 1.091418

sp77\_602\_ss\_c\_lag\_all | 1.062133 .052291 1.22 0.221 .9644336 1.169729

sp77\_603\_ss\_c\_lag\_all | 1.044469 .0865347 0.53 0.599 .8879185 1.228621

sp77\_604\_ss\_c\_lag\_all | 1.031543 .033808 0.95 0.343 .9673641 1.09998

sp77\_605\_ss\_c\_lag\_all | 1.97e-06 1.74e-06 -14.91 0.000 3.51e-07 .0000111

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

sp77\_700\_1\_ss\_c\_lag\_all | .0197326 .004962 -15.61 0.000 .0120542 .032302

sp77\_700\_ss\_c\_lag\_all | .9644043 .0632375 -0.55 0.580 .848095 1.096664

sp77\_701\_1\_ss\_c\_lag\_all | 1.114115 .0435788 2.76 0.006 1.031894 1.202887

sp77\_701\_2\_ss\_c\_lag\_all | .8971174 .0484735 -2.01 0.045 .8069689 .9973367

sp77\_701\_ss\_c\_lag\_all | 1.01079 .010201 1.06 0.288 .990993 1.030983

sp75\_804\_ss\_c\_lag\_all | .9892385 .0105509 -1.01 0.310 .9687737 1.010136

sp75\_805\_ss\_c\_lag\_all | 1.005239 .0338003 0.16 0.876 .9411277 1.073718

sp75\_806\_ss\_c\_lag\_all | 1.299008 .2045359 1.66 0.097 .9540814 1.768635

sp75\_807\_ss\_c\_lag\_all | 1.004405 .0041173 1.07 0.284 .996368 1.012508

sp75\_808\_ss\_c\_lag\_all | .9455752 .0279373 -1.89 0.058 .8923744 1.001948

sp75\_809\_ss\_c\_lag\_all | .9897024 .011831 -0.87 0.387 .9667837 1.013165

sp75\_810\_ss\_c\_lag\_all | 1.000635 .0201772 0.03 0.975 .9618596 1.040973

sp75\_811\_ss\_c\_lag\_all | 1.031946 .0357138 0.91 0.364 .9642699 1.104373

sp77\_704\_1\_ss\_c\_lag\_all | .9633334 .040059 -0.90 0.369 .8879336 1.045136

sp77\_704\_8\_ss\_c\_lag\_all | 1.189991 .1465412 1.41 0.158 .9348083 1.514833

sp77\_704\_9\_ss\_c\_lag\_all | 1.030179 .0405002 0.76 0.449 .953781 1.112696

sp77\_704\_ss\_c\_lag\_all | .8743534 .0567447 -2.07 0.039 .7699187 .992954

sp77\_705\_ss\_c\_lag\_all | .9579358 .0247359 -1.66 0.096 .9106608 1.007665

sp77\_800\_1\_ss\_c\_lag\_all | 1.010519 .0856537 0.12 0.902 .8558449 1.193148

sp77\_800\_2\_ss\_c\_lag\_all | 1.015229 .0740287 0.21 0.836 .880027 1.171203

sp77\_800\_ss\_c\_lag\_all | .9486771 .1514945 -0.33 0.741 .6937289 1.29732

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

sp77\_802\_ss\_c\_lag\_all | 1.115959 .0660378 1.85 0.064 .9937517 1.253196

sp77\_803\_ss\_c\_lag\_all | 1.192506 .0897738 2.34 0.019 1.028918 1.382103

sp77\_804\_ss\_c\_lag\_all | .93093 .0283603 -2.35 0.019 .8769717 .9882082

sp77\_805\_ss\_c\_lag\_all | .906781 .0783394 -1.13 0.257 .7655344 1.074089

sp77\_807\_1\_ss\_c\_lag\_all | 1.045241 .0557454 0.83 0.407 .9414982 1.160414

sp77\_807\_2\_ss\_c\_lag\_all | 1.025344 .0333921 0.77 0.442 .9619418 1.092925

sp77\_807\_3\_ss\_c\_lag\_all | .9682259 .0442827 -0.71 0.480 .8852098 1.059027

sp77\_807\_ss\_c\_lag\_all | .9253948 .0415712 -1.73 0.084 .8474007 1.010567

sp77\_808\_ss\_c\_lag\_all | 1.024083 .0695623 0.35 0.726 .8964293 1.169915

sp77\_809\_ss\_c\_lag\_all | .9753917 .0236804 -1.03 0.305 .9300659 1.022926

sp77\_810\_ss\_c\_lag\_all | 1.037959 .0572012 0.68 0.499 .931689 1.15635

sp77\_900\_1\_ss\_c\_lag\_all | 1.004982 .0555674 0.09 0.928 .9017654 1.120012

sp77\_900\_2\_ss\_c\_lag\_all | .8795024 .0174501 -6.47 0.000 .8459573 .9143777

sp77\_900\_ss\_c\_lag\_all | 1.010227 .0353558 0.29 0.771 .9432542 1.081955

sp77\_901\_1\_ss\_c\_lag\_all | 1 (omitted)

sp77\_901\_ss\_c\_lag\_all | 1.060868 .0391543 1.60 0.109 .9868369 1.140453

sp77\_902\_ss\_c\_lag\_all | .9451277 .0498132 -1.07 0.284 .852369 1.047981

sp77\_903\_ss\_c\_lag\_all | 1.088538 .0292817 3.15 0.002 1.032634 1.147469

sp77\_904\_ss\_c\_lag\_all | .9888427 .007244 -1.53 0.126 .9747462 1.003143

mine\_time | .9881049 .0093021 -1.27 0.204 .9700402 1.006506

onsite\_insp\_hours | .9999893 .0000364 -0.29 0.768 .9999179 1.000061

|

state |

1 | 1.146597 .2500283 0.63 0.530 .7478195 1.758024

2 | 2.164586 .1421585 11.76 0.000 1.903147 2.461938

3 | .8811626 .2074074 -0.54 0.591 .5555215 1.397691

4 | 1.059139 .0962314 0.63 0.527 .8863686 1.265586

5 | .7947935 .1192076 -1.53 0.126 .5923609 1.066405

6 | .917701 .0524433 -1.50 0.133 .8204612 1.026465

7 | .9918714 .2623361 -0.03 0.975 .5906422 1.66566

8 | .9401488 .0755482 -0.77 0.442 .8031488 1.100518

9 | 1.723184 .8967932 1.05 0.296 .6213587 4.778821

10 | .7183973 .1329418 -1.79 0.074 .4998584 1.032482

11 | 1.525215 .4226424 1.52 0.128 .8860536 2.625439

12 | 1.094341 .1052924 0.94 0.349 .9062624 1.321452

13 | 1.295001 .1942754 1.72 0.085 .9651018 1.737668

14 | .6817936 .0985475 -2.65 0.008 .5135928 .9050797

15 | .7450301 .0531954 -4.12 0.000 .6477356 .8569388

17 | 1.29665 .4655936 0.72 0.469 .6414725 2.621002

|

time |

2000 | 1.075287 .0667839 1.17 0.243 .9520463 1.214481

2002 | .9868228 .0521518 -0.25 0.802 .8897228 1.09452

2003 | .8703668 .054039 -2.24 0.025 .770643 .9829951

2004 | .9216805 .0611427 -1.23 0.219 .8093068 1.049658

2005 | .8222399 .0556402 -2.89 0.004 .7201095 .938855

2006 | .8013929 .0558953 -3.17 0.002 .6989983 .9187871

2007 | .7638538 .0557367 -3.69 0.000 .662064 .8812934

2008 | .6974054 .0519078 -4.84 0.000 .6027407 .8069378

2009 | .6285572 .0475792 -6.13 0.000 .5418914 .7290836

2010 | .6073211 .0500567 -6.05 0.000 .5167262 .7137996

2011 | .6135596 .0479066 -6.26 0.000 .526496 .7150204

2012 | .5918239 .0498508 -6.23 0.000 .5017572 .6980577

2013 | .5233531 .0480407 -7.05 0.000 .4371793 .6265129

2014 | .4944863 .0486799 -7.15 0.000 .4077156 .5997237

2015 | .4812104 .0517814 -6.80 0.000 .3897087 .5941963

|

\_cons | .0000162 1.03e-06 -173.11 0.000 .0000143 .0000184

ln(hours) | 1 (exposure)

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**. estat gof**

Deviance goodness-of-fit = 7274.473

Prob > chi2(5966) = 0.0000

Pearson goodness-of-fit = 8123.5

Prob > chi2(5966) = 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: sp75\_1432\_ss\_c\_lag\_all omitted because of collinearity

note: sp77\_1106\_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\_901\_1\_ss\_c\_lag\_all omitted because of collinearity

Iteration 0: log pseudolikelihood = -9147.8792

Iteration 1: log pseudolikelihood = -8977.9055

Iteration 2: log pseudolikelihood = -8975.7886

Iteration 3: log pseudolikelihood = -8975.1181

Iteration 4: log pseudolikelihood = -8974.9654

Iteration 5: log pseudolikelihood = -8974.9359

Iteration 6: log pseudolikelihood = -8974.929

Iteration 7: log pseudolikelihood = -8974.9275

Iteration 8: log pseudolikelihood = -8974.9272

Iteration 9: log pseudolikelihood = -8974.9271

Iteration 10: log pseudolikelihood = -8974.9271

Generalized linear models No. of obs = 6,253

Optimization : ML Residual df = 5,956

Scale parameter = 1

Deviance = 3636.0919 (1/df) Deviance = .6104923

Pearson = 3940.266388 (1/df) Pearson = .6615625

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

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

AIC = 2.965593

Log pseudolikelihood = -8974.927125 BIC = -48424.21

(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\_ss\_c\_lag\_all | .8869364 .1031688 -1.03 0.302 .706123 1.11405

sp47\_44\_ss\_c\_lag\_all | .872627 .1129303 -1.05 0.292 .6771285 1.124569

sp48\_11\_ss\_c\_lag\_all | .9921495 .0153054 -0.51 0.609 .9626004 1.022606

sp48\_25\_ss\_c\_lag\_all | .9615916 .0161793 -2.33 0.020 .9303979 .9938311

sp48\_26\_ss\_c\_lag\_all | 1.041684 .0197711 2.15 0.031 1.003645 1.081164

sp48\_27\_ss\_c\_lag\_all | 1.037259 .0188778 2.01 0.044 1.000912 1.074927

sp48\_28\_ss\_c\_lag\_all | .9447619 .0224427 -2.39 0.017 .9017833 .9897889

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

sp48\_5\_ss\_c\_lag\_all | 1.025912 .0212701 1.23 0.217 .9850589 1.068459

sp48\_6\_ss\_c\_lag\_all | 1.037375 .0188435 2.02 0.043 1.001092 1.074973

sp48\_7\_ss\_c\_lag\_all | 1.013154 .0175202 0.76 0.450 .9793902 1.048081

sp48\_8\_ss\_c\_lag\_all | 1.040556 .0412725 1.00 0.316 .9627281 1.124677

sp71\_701\_ss\_c\_lag\_all | .960615 .0834928 -0.46 0.644 .8101517 1.139023

sp72\_503\_ss\_c\_lag\_all | .9141138 .0309682 -2.65 0.008 .8553885 .9768708

sp72\_610\_ss\_c\_lag\_all | .8914644 .1032198 -0.99 0.321 .7104706 1.118567

sp72\_620\_ss\_c\_lag\_all | .8607048 .0473917 -2.72 0.006 .7726553 .9587881

sp72\_630\_ss\_c\_lag\_all | .9964327 .0020725 -1.72 0.086 .992379 1.000503

sp75\_100\_ss\_c\_lag\_all | .8911803 .0656166 -1.56 0.118 .771423 1.029529

sp75\_1001\_1\_ss\_c\_lag\_all | 1.730862 .2690867 3.53 0.000 1.276237 2.347436

sp75\_1001\_ss\_c\_lag\_all | 1.028438 .046765 0.62 0.537 .9407455 1.124304

sp75\_1003\_1\_ss\_c\_lag\_all | 1.065591 .070825 0.96 0.339 .9354376 1.213852

sp75\_1100\_2\_ss\_c\_lag\_all | 1.002081 .0045663 0.46 0.648 .9931711 1.011071

sp75\_1101\_20\_ss\_c\_lag\_all | 1.080836 .0634779 1.32 0.186 .9633153 1.212694

sp75\_1102\_ss\_c\_lag\_all | .9558389 .01598 -2.70 0.007 .9250263 .9876779

sp75\_1103\_4\_ss\_c\_lag\_all | 1.000887 .0075586 0.12 0.907 .9861812 1.015811

sp75\_1104\_ss\_c\_lag\_all | 1.021344 .0285349 0.76 0.450 .96692 1.078831

sp75\_1106\_2\_ss\_c\_lag\_all | 1.006171 .0140352 0.44 0.659 .9790355 1.034059

sp75\_1106\_3\_ss\_c\_lag\_all | 1.006888 .0058562 1.18 0.238 .9954754 1.018432

sp75\_1106\_4\_ss\_c\_lag\_all | 1.045781 .0398006 1.18 0.240 .9706117 1.126772

sp75\_1106\_5\_ss\_c\_lag\_all | .9801343 .0145029 -1.36 0.175 .9521174 1.008976

sp75\_1106\_6\_ss\_c\_lag\_all | .8638594 .1326964 -0.95 0.341 .6392799 1.167334

sp75\_1106\_ss\_c\_lag\_all | 1.051771 .0605623 0.88 0.381 .9395241 1.177428

sp75\_1107\_14\_ss\_c\_lag\_all | 1.553077 .2473281 2.76 0.006 1.136682 2.122009

sp75\_1400\_1\_ss\_c\_lag\_all | .9892714 .0622704 -0.17 0.864 .8744519 1.119167

sp75\_1400\_2\_ss\_c\_lag\_all | .5910911 .1334065 -2.33 0.020 .3797888 .9199553

sp75\_1400\_3\_ss\_c\_lag\_all | .9351195 .0273032 -2.30 0.022 .8831086 .9901937

sp75\_1400\_4\_ss\_c\_lag\_all | .9884686 .1811862 -0.06 0.950 .6901408 1.415755

sp75\_1400\_ss\_c\_lag\_all | .984455 .0135391 -1.14 0.255 .9582733 1.011352

sp75\_1401\_ss\_c\_lag\_all | 1.083136 .0867561 1.00 0.319 .9257724 1.267249

sp75\_1403\_10\_ss\_c\_lag\_all | 1.014639 .0054536 2.70 0.007 1.004006 1.025384

sp75\_1403\_11\_ss\_c\_lag\_all | .4954886 .1605474 -2.17 0.030 .2625601 .935058

sp75\_1403\_3\_ss\_c\_lag\_all | .7579701 .1441438 -1.46 0.145 .5221297 1.100337

sp75\_1403\_4\_ss\_c\_lag\_all | 1.628524 .2594754 3.06 0.002 1.19171 2.225448

sp75\_1403\_5\_ss\_c\_lag\_all | .997647 .002004 -1.17 0.241 .9937269 1.001582

sp75\_1403\_6\_ss\_c\_lag\_all | .9962124 .0025151 -1.50 0.133 .991295 1.001154

sp75\_1403\_7\_ss\_c\_lag\_all | .9905859 .0110877 -0.85 0.398 .9690911 1.012558

sp75\_1403\_8\_ss\_c\_lag\_all | .9933151 .0034762 -1.92 0.055 .9865251 1.000152

sp75\_1403\_9\_ss\_c\_lag\_all | 1.068857 .0362318 1.96 0.049 1.000152 1.142282

sp75\_1404\_1\_ss\_c\_lag\_all | .9103892 .0650676 -1.31 0.189 .7913886 1.047284

sp75\_1404\_ss\_c\_lag\_all | 1.056406 .107765 0.54 0.591 .8649664 1.290217

sp75\_1405\_1\_ss\_c\_lag\_all | 1.027261 .0585519 0.47 0.637 .9186795 1.148676

sp75\_1405\_ss\_c\_lag\_all | 1.005715 .0052209 1.10 0.272 .9955342 1.016

sp75\_1431\_ss\_c\_lag\_all | 1.080145 .1537997 0.54 0.588 .817111 1.427851

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

sp75\_1433\_ss\_c\_lag\_all | .9389826 .049233 -1.20 0.230 .8472803 1.04061

sp75\_1434\_ss\_c\_lag\_all | 1.000095 .0336996 0.00 0.998 .9361794 1.068375

sp75\_1435\_ss\_c\_lag\_all | .6249821 .0869084 -3.38 0.001 .4758847 .8207927

sp75\_1437\_ss\_c\_lag\_all | 1.011394 .0704712 0.16 0.871 .8822892 1.159391

sp75\_150\_ss\_c\_lag\_all | 1.301701 .0976058 3.52 0.000 1.123791 1.507777

sp75\_151\_ss\_c\_lag\_all | 1.000629 .088725 0.01 0.994 .841003 1.190552

sp75\_153\_ss\_c\_lag\_all | 1.282867 .3385137 0.94 0.345 .7648433 2.151743

sp75\_155\_ss\_c\_lag\_all | .7752886 .1013482 -1.95 0.052 .6000558 1.001694

sp75\_156\_ss\_c\_lag\_all | .6609415 .0571007 -4.79 0.000 .5579884 .7828903

sp75\_1600\_2\_ss\_c\_lag\_all | 1.020885 .0296281 0.71 0.476 .9644359 1.080639

sp75\_1712\_10\_ss\_c\_lag\_all | .9614697 .0363851 -1.04 0.299 .8927367 1.035495

sp75\_1712\_6\_ss\_c\_lag\_all | 1.118198 .142274 0.88 0.380 .8713971 1.4349

sp75\_1720\_ss\_c\_lag\_all | 1.005168 .009279 0.56 0.577 .9871449 1.02352

sp75\_1721\_ss\_c\_lag\_all | .8818772 .0301639 -3.68 0.000 .8246952 .9430242

sp75\_1725\_ss\_c\_lag\_all | 1.000424 .0006742 0.63 0.529 .9991039 1.001747

sp75\_1726\_ss\_c\_lag\_all | 1.04369 .0198001 2.25 0.024 1.005595 1.083228

sp75\_1727\_ss\_c\_lag\_all | 1.159115 .0615672 2.78 0.005 1.044514 1.286289

sp75\_1728\_ss\_c\_lag\_all | 1.132905 .046202 3.06 0.002 1.045876 1.227177

sp75\_1729\_ss\_c\_lag\_all | .9193721 .0233774 -3.31 0.001 .8746761 .966352

sp75\_1730\_ss\_c\_lag\_all | .9265552 .0377785 -1.87 0.061 .8553921 1.003639

sp75\_1731\_ss\_c\_lag\_all | 1.000387 .0007406 0.52 0.602 .9989362 1.001839

sp75\_1903\_ss\_c\_lag\_all | .951863 .0396806 -1.18 0.237 .877183 1.032901

sp75\_1909\_ss\_c\_lag\_all | .9966752 .0027197 -1.22 0.222 .9913588 1.00202

sp75\_1910\_ss\_c\_lag\_all | 1.00584 .0058078 1.01 0.313 .9945215 1.017288

sp75\_1911\_ss\_c\_lag\_all | .9875506 .0110356 -1.12 0.262 .9661564 1.009419

sp75\_1912\_ss\_c\_lag\_all | .9984624 .040741 -0.04 0.970 .9217211 1.081593

sp75\_1913\_ss\_c\_lag\_all | 1.020539 .0146731 1.41 0.157 .9921816 1.049707

sp75\_1914\_ss\_c\_lag\_all | .9998187 .0021671 -0.08 0.933 .9955803 1.004075

sp75\_1915\_ss\_c\_lag\_all | .9839665 .0424731 -0.37 0.708 .9041448 1.070835

sp75\_202\_ss\_c\_lag\_all | 1.000361 .0003688 0.98 0.328 .999638 1.001084

sp75\_208\_ss\_c\_lag\_all | 1.002638 .0040828 0.65 0.518 .9946681 1.010672

sp75\_211\_ss\_c\_lag\_all | .9997806 .0050453 -0.04 0.965 .9899408 1.009718

sp75\_212\_ss\_c\_lag\_all | 1.019037 .0081174 2.37 0.018 1.003251 1.035072

sp75\_214\_ss\_c\_lag\_all | 1.023522 .0360516 0.66 0.509 .9552456 1.096678

sp75\_312\_ss\_c\_lag\_all | .9938485 .0277013 -0.22 0.825 .9410114 1.049652

sp75\_320\_ss\_c\_lag\_all | .9728703 .0148005 -1.81 0.071 .9442901 1.002316

sp75\_324\_ss\_c\_lag\_all | .972971 .0150117 -1.78 0.076 .9439891 1.002843

sp75\_337\_ss\_c\_lag\_all | .9980196 .0096992 -0.20 0.838 .9791894 1.017212

sp75\_340\_ss\_c\_lag\_all | .9896785 .0038232 -2.69 0.007 .9822135 .9972003

sp75\_342\_ss\_c\_lag\_all | 1.000253 .0016933 0.15 0.881 .9969394 1.003577

sp75\_344\_ss\_c\_lag\_all | .9829748 .0206341 -0.82 0.413 .9433534 1.02426

sp75\_352\_ss\_c\_lag\_all | .9985595 .0180135 -0.08 0.936 .9638705 1.034497

sp75\_382\_ss\_c\_lag\_all | 1.058362 .0410866 1.46 0.144 .9808213 1.142033

sp75\_503\_ss\_c\_lag\_all | .9992088 .0006818 -1.16 0.246 .9978734 1.000546

sp75\_504\_ss\_c\_lag\_all | .9580787 .0461736 -0.89 0.374 .8717229 1.052989

sp75\_505\_ss\_c\_lag\_all | .9914798 .0542897 -0.16 0.876 .8905848 1.103805

sp75\_506\_1\_ss\_c\_lag\_all | 1.023527 .0470589 0.51 0.613 .9353267 1.120044

sp75\_506\_ss\_c\_lag\_all | 1.087262 .044728 2.03 0.042 1.003038 1.178559

sp75\_507\_ss\_c\_lag\_all | .9881087 .0149642 -0.79 0.430 .9592104 1.017878

sp75\_511\_1\_ss\_c\_lag\_all | .915876 .0574553 -1.40 0.161 .8099134 1.035702

sp75\_511\_ss\_c\_lag\_all | .9980841 .0116894 -0.16 0.870 .9754342 1.02126

sp75\_512\_1\_ss\_c\_lag\_all | .6814381 .0977168 -2.67 0.007 .514477 .9025825

sp75\_512\_2\_ss\_c\_lag\_all | 1.001665 .0127636 0.13 0.896 .9769583 1.026996

sp75\_512\_ss\_c\_lag\_all | 1.000182 .0017556 0.10 0.917 .9967474 1.003629

sp75\_513\_1\_ss\_c\_lag\_all | 1.041824 .0930441 0.46 0.646 .8745301 1.241122

sp75\_513\_ss\_c\_lag\_all | .9566969 .0313606 -1.35 0.177 .8971642 1.02018

sp75\_514\_ss\_c\_lag\_all | 1.008435 .0071856 1.18 0.238 .9944494 1.022618

sp75\_515\_ss\_c\_lag\_all | .9944385 .0052596 -1.05 0.292 .9841832 1.004801

sp75\_516\_1\_ss\_c\_lag\_all | 1.001568 .0641327 0.02 0.980 .883438 1.135494

sp75\_516\_2\_ss\_c\_lag\_all | 1.057524 .1395165 0.42 0.672 .8165694 1.369579

sp75\_516\_ss\_c\_lag\_all | 1.006787 .0112425 0.61 0.545 .984992 1.029065

sp75\_517\_1\_ss\_c\_lag\_all | 1.008269 .0643163 0.13 0.897 .8897733 1.142546

sp75\_517\_ss\_c\_lag\_all | 1.000272 .0005192 0.52 0.600 .9992552 1.001291

sp75\_518\_1\_ss\_c\_lag\_all | .9787358 .0110439 -1.90 0.057 .9573278 1.000622

sp75\_518\_ss\_c\_lag\_all | 1.010768 .006289 1.72 0.085 .9985171 1.02317

sp75\_519\_ss\_c\_lag\_all | 1.054832 .1829697 0.31 0.758 .7508189 1.481943

sp75\_520\_ss\_c\_lag\_all | 1.001198 .0103326 0.12 0.908 .9811499 1.021656

sp75\_523\_1\_ss\_c\_lag\_all | 1.003217 .0073163 0.44 0.660 .9889794 1.01766

sp75\_523\_2\_ss\_c\_lag\_all | .9953271 .0055544 -0.84 0.401 .9845 1.006273

sp75\_523\_ss\_c\_lag\_all | .9963139 .0048628 -0.76 0.449 .9868284 1.005891

sp75\_600\_1\_ss\_c\_lag\_all | .9324565 .0430409 -1.52 0.130 .8518013 1.020749

sp75\_600\_ss\_c\_lag\_all | .8328794 .0592981 -2.57 0.010 .7244019 .9576013

sp75\_601\_1\_ss\_c\_lag\_all | 1.005536 .0044279 1.25 0.210 .9968943 1.014252

sp75\_601\_2\_ss\_c\_lag\_all | 1.046437 .0347115 1.37 0.171 .9805686 1.116731

sp75\_601\_3\_ss\_c\_lag\_all | 1.099879 .0807204 1.30 0.195 .9525216 1.270032

sp75\_601\_ss\_c\_lag\_all | 1.003715 .0067252 0.55 0.580 .9906201 1.016983

sp75\_602\_ss\_c\_lag\_all | 1.046185 .0219256 2.15 0.031 1.004082 1.090053

sp75\_603\_ss\_c\_lag\_all | .9961554 .013827 -0.28 0.781 .9694202 1.023628

sp75\_604\_ss\_c\_lag\_all | 1.000867 .0009849 0.88 0.378 .9989389 1.0028

sp75\_605\_ss\_c\_lag\_all | 1.009498 .00768 1.24 0.214 .9945574 1.024664

sp75\_606\_ss\_c\_lag\_all | .9971645 .0029627 -0.96 0.339 .9913745 1.002988

sp75\_607\_ss\_c\_lag\_all | .9821342 .0133739 -1.32 0.186 .9562685 1.008699

sp75\_700\_1\_ss\_c\_lag\_all | 1.008518 .044733 0.19 0.848 .924546 1.100117

sp75\_700\_ss\_c\_lag\_all | 1.000552 .0141721 0.04 0.969 .9731572 1.028718

sp75\_701\_1\_ss\_c\_lag\_all | .9993776 .016787 -0.04 0.970 .9670115 1.032827

sp75\_701\_2\_ss\_c\_lag\_all | 1.000753 .0422667 0.02 0.986 .9212479 1.08712

sp75\_701\_3\_ss\_c\_lag\_all | .9741228 .0200781 -1.27 0.203 .9355547 1.014281

sp75\_701\_4\_ss\_c\_lag\_all | 1.077442 .1362049 0.59 0.555 .8409867 1.38038

sp75\_701\_ss\_c\_lag\_all | 1.000627 .0045524 0.14 0.890 .9917441 1.009589

sp75\_703\_2\_ss\_c\_lag\_all | 1.05157 .0443295 1.19 0.233 .9681787 1.142145

sp75\_703\_3\_ss\_c\_lag\_all | 1.059829 .0323976 1.90 0.057 .9981958 1.125268

sp75\_703\_ss\_c\_lag\_all | .9850379 .0119927 -1.24 0.216 .9618108 1.008826

sp75\_704\_ss\_c\_lag\_all | .9525409 .1019691 -0.45 0.650 .7722587 1.174909

sp75\_705\_1\_ss\_c\_lag\_all | 1.112203 .0376401 3.14 0.002 1.040824 1.188478

sp75\_705\_8\_ss\_c\_lag\_all | 5.55e-07 5.59e-07 -14.32 0.000 7.73e-08 3.99e-06

sp75\_705\_ss\_c\_lag\_all | .9554978 .041854 -1.04 0.299 .8768883 1.041154

sp75\_706\_ss\_c\_lag\_all | .887972 .0332654 -3.17 0.002 .8251091 .9556243

sp75\_800\_2\_ss\_c\_lag\_all | .8941555 .014216 -7.04 0.000 .8667223 .9224571

sp75\_800\_3\_ss\_c\_lag\_all | 1.02201 .0657643 0.34 0.735 .900911 1.159386

sp75\_800\_4\_ss\_c\_lag\_all | 1.258436 .168839 1.71 0.087 .9674511 1.636942

sp75\_800\_ss\_c\_lag\_all | .9846877 .0203158 -0.75 0.455 .9456639 1.025322

sp75\_801\_ss\_c\_lag\_all | .9514018 .0811935 -0.58 0.559 .8048624 1.124621

sp75\_802\_ss\_c\_lag\_all | .9668377 .038876 -0.84 0.402 .8935673 1.046116

sp75\_803\_2\_ss\_c\_lag\_all | .9038751 .1051633 -0.87 0.385 .7195708 1.135385

sp75\_803\_ss\_c\_lag\_all | 1.041692 .018972 2.24 0.025 1.005163 1.079548

sp75\_812\_ss\_c\_lag\_all | 1.136538 .0732698 1.99 0.047 1.001634 1.289612

sp75\_814\_ss\_c\_lag\_all | .9559233 .0515403 -0.84 0.403 .8600606 1.062471

sp75\_815\_ss\_c\_lag\_all | 1.010991 .0433376 0.26 0.799 .9295214 1.099601

sp75\_816\_ss\_c\_lag\_all | .9646196 .018793 -1.85 0.064 .9284804 1.002166

sp75\_818\_ss\_c\_lag\_all | 1.295344 .1222744 2.74 0.006 1.076554 1.5586

sp75\_819\_ss\_c\_lag\_all | .770853 .0937264 -2.14 0.032 .6074014 .9782893

sp75\_820\_ss\_c\_lag\_all | 1.051357 .0308726 1.71 0.088 .9925563 1.113642

sp75\_821\_ss\_c\_lag\_all | .9388031 .0433619 -1.37 0.172 .8575488 1.027756

sp75\_825\_ss\_c\_lag\_all | .8942095 .062933 -1.59 0.112 .7789922 1.026468

sp75\_827\_ss\_c\_lag\_all | .9523137 .0624005 -0.75 0.456 .8375387 1.082817

sp75\_831\_ss\_c\_lag\_all | 1.163947 .0780284 2.26 0.024 1.020635 1.327382

sp75\_900\_2\_ss\_c\_lag\_all | .8766866 .0547821 -2.11 0.035 .7756303 .9909095

sp75\_900\_3\_ss\_c\_lag\_all | 1.016675 .0295321 0.57 0.569 .9604103 1.076236

sp75\_900\_4\_ss\_c\_lag\_all | 1.045912 .0246469 1.90 0.057 .9987039 1.095352

sp75\_900\_ss\_c\_lag\_all | .9964792 .005112 -0.69 0.492 .9865101 1.006549

sp75\_901\_ss\_c\_lag\_all | .9684967 .0249305 -1.24 0.214 .920846 1.018613

sp75\_902\_1\_ss\_c\_lag\_all | 1.045346 .065598 0.71 0.480 .9243683 1.182156

sp75\_902\_2\_ss\_c\_lag\_all | 1.007991 .0160054 0.50 0.616 .9771043 1.039855

sp75\_902\_4\_ss\_c\_lag\_all | 1.053733 .022946 2.40 0.016 1.009705 1.09968

sp75\_902\_ss\_c\_lag\_all | 1.003385 .0068112 0.50 0.619 .9901239 1.016824

sp75\_903\_ss\_c\_lag\_all | .9964491 .0075247 -0.47 0.638 .9818096 1.011307

sp75\_904\_ss\_c\_lag\_all | 1.005029 .00203 2.48 0.013 1.001058 1.009015

sp75\_905\_ss\_c\_lag\_all | .8650322 .0710745 -1.76 0.078 .7363667 1.01618

sp75\_907\_ss\_c\_lag\_all | .9869425 .0322234 -0.40 0.687 .9257641 1.052164

sp77\_103\_ss\_c\_lag\_all | .9789918 .025708 -0.81 0.419 .9298798 1.030698

sp77\_1103\_ss\_c\_lag\_all | 1.001784 .0148143 0.12 0.904 .9731655 1.031245

sp77\_1104\_ss\_c\_lag\_all | 1.000182 .0024462 0.07 0.941 .9953987 1.004987

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

sp77\_1111\_ss\_c\_lag\_all | 1.07834 .0834777 0.97 0.330 .9265339 1.255017

sp77\_1112\_ss\_c\_lag\_all | .975379 .0199178 -1.22 0.222 .9371117 1.015209

sp77\_1403\_ss\_c\_lag\_all | 1.064487 .0761287 0.87 0.382 .9252632 1.22466

sp77\_1433\_ss\_c\_lag\_all | 1.133519 .1472698 0.96 0.335 .8786951 1.462241

sp77\_1434\_ss\_c\_lag\_all | .9275905 .0440571 -1.58 0.114 .8451375 1.018088

sp77\_1437\_ss\_c\_lag\_all | .8809937 .0885421 -1.26 0.207 .7234772 1.072805

sp77\_1438\_ss\_c\_lag\_all | 1.275366 .2362847 1.31 0.189 .8870214 1.83373

sp77\_1605\_ss\_c\_lag\_all | 1.003865 .003184 1.22 0.224 .9976435 1.010125

sp77\_1606\_ss\_c\_lag\_all | 1.00016 .0033962 0.05 0.963 .9935252 1.006838

sp77\_1710\_ss\_c\_lag\_all | .989764 .0060717 -1.68 0.094 .9779349 1.001736

sp77\_1802\_ss\_c\_lag\_all | .9867888 .1077086 -0.12 0.903 .7967372 1.222175

sp77\_1906\_ss\_c\_lag\_all | 1.098871 .176441 0.59 0.557 .8021816 1.505291

sp77\_1915\_ss\_c\_lag\_all | .9374269 .072345 -0.84 0.402 .8058363 1.090506

sp77\_1916\_ss\_c\_lag\_all | .925153 .036833 -1.95 0.051 .8557064 1.000236

sp77\_200\_ss\_c\_lag\_all | .9932508 .0031013 -2.17 0.030 .9871908 .9993479

sp77\_202\_ss\_c\_lag\_all | .9908142 .0058415 -1.57 0.118 .979431 1.00233

sp77\_203\_ss\_c\_lag\_all | .9554931 .040175 -1.08 0.279 .8799087 1.03757

sp77\_204\_ss\_c\_lag\_all | 1.008614 .0074418 1.16 0.245 .9941334 1.023306

sp77\_205\_ss\_c\_lag\_all | .9985481 .0023021 -0.63 0.529 .9940463 1.00307

sp77\_206\_ss\_c\_lag\_all | 1.012586 .0135736 0.93 0.351 .9863285 1.039542

sp77\_207\_ss\_c\_lag\_all | 1.028081 .0132756 2.14 0.032 1.002388 1.054433

sp77\_208\_ss\_c\_lag\_all | 1.011997 .0060816 1.98 0.047 1.000148 1.023988

sp77\_210\_ss\_c\_lag\_all | 1.007539 .0208751 0.36 0.717 .967444 1.049295

sp77\_216\_ss\_c\_lag\_all | .8893104 .0794795 -1.31 0.189 .7464139 1.059564

sp77\_315\_ss\_c\_lag\_all | .9313416 .1348248 -0.49 0.623 .7012706 1.236894

sp77\_400\_ss\_c\_lag\_all | 1.002223 .0027161 0.82 0.413 .9969132 1.00756

sp77\_401\_ss\_c\_lag\_all | 1.00115 .016619 0.07 0.945 .9691015 1.034258

sp77\_402\_ss\_c\_lag\_all | .9721694 .0150975 -1.82 0.069 .9430246 1.002215

sp77\_403\_1\_ss\_c\_lag\_all | 1.069638 .0366283 1.97 0.049 1.000204 1.143892

sp77\_403\_ss\_c\_lag\_all | .951995 .0850634 -0.55 0.582 .7990563 1.134206

sp77\_404\_ss\_c\_lag\_all | .9979815 .0017456 -1.16 0.248 .994566 1.001409

sp77\_405\_ss\_c\_lag\_all | .9795159 .0153342 -1.32 0.186 .9499178 1.010036

sp77\_408\_ss\_c\_lag\_all | 1.036992 .0357258 1.05 0.292 .9692825 1.109432

sp77\_409\_ss\_c\_lag\_all | .7074256 .1844353 -1.33 0.184 .4243862 1.179235

sp77\_410\_ss\_c\_lag\_all | 1.002131 .0042511 0.50 0.616 .9938338 1.010498

sp77\_411\_ss\_c\_lag\_all | .783634 .0479436 -3.99 0.000 .6950815 .8834679

sp77\_412\_ss\_c\_lag\_all | .9332695 .0299299 -2.15 0.031 .8764137 .9938138

sp77\_413\_ss\_c\_lag\_all | 1.13362 .0727378 1.95 0.051 .9996564 1.285535

sp77\_500\_ss\_c\_lag\_all | .9596323 .0367195 -1.08 0.282 .8902958 1.034369

sp77\_501\_ss\_c\_lag\_all | 1.006152 .0283044 0.22 0.827 .9521778 1.063185

sp77\_502\_1\_ss\_c\_lag\_all | 1.193178 .1833789 1.15 0.250 .8828455 1.612598

sp77\_502\_2\_ss\_c\_lag\_all | 1.035621 .0300586 1.21 0.228 .9783513 1.096242

sp77\_502\_ss\_c\_lag\_all | 1.003726 .0040355 0.92 0.355 .9958475 1.011667

sp77\_503\_1\_ss\_c\_lag\_all | 1.068172 .1104576 0.64 0.524 .8722082 1.308165

sp77\_503\_ss\_c\_lag\_all | .9861412 .0542828 -0.25 0.800 .8852871 1.098485

sp77\_504\_ss\_c\_lag\_all | .9959544 .0148266 -0.27 0.785 .9673147 1.025442

sp77\_505\_ss\_c\_lag\_all | .977268 .0112497 -2.00 0.046 .955466 .9995676

sp77\_506\_1\_ss\_c\_lag\_all | 1.101368 .0439889 2.42 0.016 1.018439 1.191049

sp77\_506\_ss\_c\_lag\_all | 1.01194 .0236764 0.51 0.612 .9665827 1.059425

sp77\_507\_ss\_c\_lag\_all | 1.046655 .0347987 1.37 0.170 .9806252 1.11713

sp77\_508\_1\_ss\_c\_lag\_all | 1.20214 .0856442 2.58 0.010 1.045473 1.382284

sp77\_508\_ss\_c\_lag\_all | .9369422 .0452463 -1.35 0.177 .8523286 1.029956

sp77\_509\_ss\_c\_lag\_all | .9654576 .012826 -2.65 0.008 .9406436 .9909263

sp77\_510\_ss\_c\_lag\_all | 1.045859 .0681684 0.69 0.492 .920433 1.188376

sp77\_511\_ss\_c\_lag\_all | 1.016758 .0569998 0.30 0.767 .9109589 1.134844

sp77\_512\_ss\_c\_lag\_all | 1.006911 .0071409 0.97 0.332 .9930114 1.021004

sp77\_513\_ss\_c\_lag\_all | 1.014641 .0139879 1.05 0.292 .9875926 1.042431

sp77\_514\_ss\_c\_lag\_all | .6563918 .0858092 -3.22 0.001 .5080269 .8480854

sp77\_515\_ss\_c\_lag\_all | 1.078869 .1228105 0.67 0.505 .8631263 1.348538

sp77\_516\_ss\_c\_lag\_all | .9856703 .0090266 -1.58 0.115 .9681363 1.003522

sp77\_600\_ss\_c\_lag\_all | 1.039804 .0327801 1.24 0.216 .9775007 1.106078

sp77\_601\_ss\_c\_lag\_all | 1.032051 .0541776 0.60 0.548 .9311453 1.143893

sp77\_602\_ss\_c\_lag\_all | 1.109012 .0744 1.54 0.123 .9723707 1.264854

sp77\_603\_ss\_c\_lag\_all | 1.094508 .0795144 1.24 0.214 .9492493 1.261994

sp77\_604\_ss\_c\_lag\_all | 1.024031 .0381272 0.64 0.524 .9519643 1.101553

sp77\_605\_ss\_c\_lag\_all | 1.42e-06 1.21e-06 -15.84 0.000 2.68e-07 7.50e-06

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

sp77\_700\_1\_ss\_c\_lag\_all | .0177378 .0044357 -16.12 0.000 .0108653 .0289573

sp77\_700\_ss\_c\_lag\_all | 1.024505 .101377 0.24 0.807 .8438903 1.243777

sp77\_701\_1\_ss\_c\_lag\_all | 1.10383 .0550798 1.98 0.048 1.000986 1.217239

sp77\_701\_2\_ss\_c\_lag\_all | .9123051 .0512528 -1.63 0.102 .8171844 1.018498

sp77\_701\_ss\_c\_lag\_all | 1.009031 .0119114 0.76 0.446 .9859535 1.032649

sp75\_804\_ss\_c\_lag\_all | .9813659 .0128187 -1.44 0.150 .9565605 1.006815

sp75\_805\_ss\_c\_lag\_all | .9753081 .0301261 -0.81 0.418 .9180139 1.036178

sp75\_806\_ss\_c\_lag\_all | 1.381015 .210343 2.12 0.034 1.024593 1.861424

sp75\_807\_ss\_c\_lag\_all | 1.001516 .0051789 0.29 0.770 .9914171 1.011719

sp75\_808\_ss\_c\_lag\_all | .9872825 .0287071 -0.44 0.660 .9325909 1.045182

sp75\_809\_ss\_c\_lag\_all | .9803618 .0126528 -1.54 0.124 .9558738 1.005477

sp75\_810\_ss\_c\_lag\_all | .9946205 .01857 -0.29 0.773 .9588818 1.031691

sp75\_811\_ss\_c\_lag\_all | 1.037309 .0392945 0.97 0.334 .9630827 1.117256

sp77\_704\_1\_ss\_c\_lag\_all | 1.007994 .0571466 0.14 0.888 .9019868 1.126459

sp77\_704\_8\_ss\_c\_lag\_all | 1.162058 .1610484 1.08 0.278 .8856475 1.524737

sp77\_704\_9\_ss\_c\_lag\_all | 1.045635 .0429996 1.09 0.278 .9646645 1.133402

sp77\_704\_ss\_c\_lag\_all | .9496752 .0709605 -0.69 0.490 .8202998 1.099455

sp77\_705\_ss\_c\_lag\_all | .9347748 .0286866 -2.20 0.028 .8802075 .9927248

sp77\_800\_1\_ss\_c\_lag\_all | 1.056641 .0748062 0.78 0.436 .9197416 1.213918

sp77\_800\_2\_ss\_c\_lag\_all | 1.013709 .0666727 0.21 0.836 .8911055 1.153182

sp77\_800\_ss\_c\_lag\_all | .9610283 .1650335 -0.23 0.817 .686377 1.34558

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

sp77\_802\_ss\_c\_lag\_all | 1.142038 .0825584 1.84 0.066 .9911674 1.315874

sp77\_803\_ss\_c\_lag\_all | 1.186596 .1037146 1.96 0.050 .9997775 1.408323

sp77\_804\_ss\_c\_lag\_all | .9072746 .0322438 -2.74 0.006 .8462287 .9727244

sp77\_805\_ss\_c\_lag\_all | .8243164 .0714794 -2.23 0.026 .6954777 .9770226

sp77\_807\_1\_ss\_c\_lag\_all | 1.032076 .0539625 0.60 0.546 .9315497 1.143449

sp77\_807\_2\_ss\_c\_lag\_all | 1.064675 .0362588 1.84 0.066 .9959292 1.138167

sp77\_807\_3\_ss\_c\_lag\_all | .9433717 .0497877 -1.10 0.269 .8506669 1.046179

sp77\_807\_ss\_c\_lag\_all | .9315944 .0515333 -1.28 0.200 .8358738 1.038277

sp77\_808\_ss\_c\_lag\_all | 1.039564 .0834978 0.48 0.629 .8881424 1.216801

sp77\_809\_ss\_c\_lag\_all | .9743181 .029935 -0.85 0.397 .9173783 1.034792

sp77\_810\_ss\_c\_lag\_all | 1.01872 .0751366 0.25 0.801 .8816044 1.177161

sp77\_900\_1\_ss\_c\_lag\_all | .9648938 .0704026 -0.49 0.624 .8363198 1.113234

sp77\_900\_2\_ss\_c\_lag\_all | .8711292 .0163224 -7.36 0.000 .8397182 .9037152

sp77\_900\_ss\_c\_lag\_all | 1.016666 .045164 0.37 0.710 .9318904 1.109154

sp77\_901\_1\_ss\_c\_lag\_all | 1 (omitted)

sp77\_901\_ss\_c\_lag\_all | 1.014648 .0517642 0.29 0.776 .9180999 1.12135

sp77\_902\_ss\_c\_lag\_all | .9801857 .0849712 -0.23 0.817 .827025 1.161711

sp77\_903\_ss\_c\_lag\_all | 1.08522 .0355877 2.49 0.013 1.017663 1.157261

sp77\_904\_ss\_c\_lag\_all | .9937248 .0078797 -0.79 0.427 .9784003 1.009289

mine\_time | .998808 .0093969 -0.13 0.899 .9805592 1.017396

onsite\_insp\_hours | 1.000011 .0000492 0.22 0.826 .9999144 1.000107

|

state |

1 | 1.311632 .3367946 1.06 0.291 .7929479 2.169599

2 | 1.695438 .1115911 8.02 0.000 1.490243 1.928887

3 | .7940482 .1529895 -1.20 0.231 .5443092 1.158372

4 | 1.029406 .1150357 0.26 0.795 .8269233 1.281469

5 | .7387449 .128319 -1.74 0.081 .5255837 1.038358

6 | .8512536 .0523652 -2.62 0.009 .7545656 .9603309

7 | .9314669 .2406081 -0.27 0.783 .5614264 1.545404

8 | 1.113358 .0862129 1.39 0.166 .9565813 1.295829

9 | 3.418531 2.096797 2.00 0.045 1.027413 11.37455

10 | .636936 .1552503 -1.85 0.064 .3950201 1.027005

11 | 1.810684 .5474927 1.96 0.050 1.001075 3.275056

12 | .9928407 .1009797 -0.07 0.944 .8134029 1.211863

13 | 1.383808 .2492543 1.80 0.071 .9721998 1.969681

14 | .7160348 .1077974 -2.22 0.027 .5330743 .9617906

15 | .6895336 .051859 -4.94 0.000 .5950282 .7990489

17 | 1.89556 .6805444 1.78 0.075 .9378616 3.831211

|

time |

2000 | 1.04579 .0709038 0.66 0.509 .9156583 1.194415

2002 | .9063393 .06096 -1.46 0.144 .7944001 1.034052

2003 | .8536561 .0681006 -1.98 0.047 .7300931 .9981314

2004 | .8110853 .0612902 -2.77 0.006 .699431 .9405636

2005 | .7234056 .0547587 -4.28 0.000 .6236625 .8391008

2006 | .7415174 .0588655 -3.77 0.000 .6346708 .8663516

2007 | .6815762 .0541231 -4.83 0.000 .5833398 .796356

2008 | .6246869 .051124 -5.75 0.000 .5321089 .7333718

2009 | .5072411 .0438391 -7.85 0.000 .4282014 .6008704

2010 | .5526825 .0482145 -6.80 0.000 .4658212 .6557407

2011 | .5741014 .0496659 -6.41 0.000 .4845635 .6801843

2012 | .5639783 .0517052 -6.25 0.000 .471221 .6749943

2013 | .4525352 .0449976 -7.97 0.000 .3724034 .5499094

2014 | .4362188 .0473397 -7.64 0.000 .3526384 .5396089

2015 | .4672313 .0541056 -6.57 0.000 .3723595 .586275

|

\_cons | .0000173 1.21e-06 -156.33 0.000 .0000151 .0000198

ln(hours) | 1 (exposure)

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

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

note: sp77\_1106\_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\_901\_1\_ss\_c\_lag\_all omitted because of collinearity

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -83354.162

Iteration 1: log pseudolikelihood = -39518.699 (backed up)

Iteration 2: log pseudolikelihood = -29636.482

Iteration 3: log pseudolikelihood = -18156.697

Iteration 4: log pseudolikelihood = -9218.3841

Iteration 5: log pseudolikelihood = -8505.2057

Iteration 6: log pseudolikelihood = -8426.186

Iteration 7: log pseudolikelihood = -8424.6754

Iteration 8: log pseudolikelihood = -8424.6696

Iteration 9: log pseudolikelihood = -8424.6695

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 = -8516.1945

Iteration 1: log pseudolikelihood = -8386.2165

Iteration 2: log pseudolikelihood = -8367.0824

Iteration 3: log pseudolikelihood = -8366.4719

Iteration 4: log pseudolikelihood = -8366.4712

Negative binomial regression Number of obs = 6,253

Wald chi2(285) = .

Dispersion = mean Prob > chi2 = .

Log pseudolikelihood = -8366.4712 Pseudo R2 = 0.0664

(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\_ss\_c\_lag\_all | .8940012 .0869932 -1.15 0.250 .7387707 1.081849

sp47\_44\_ss\_c\_lag\_all | .8168754 .0754695 -2.19 0.029 .681577 .9790314

sp48\_11\_ss\_c\_lag\_all | .9832472 .0129649 -1.28 0.200 .9581621 1.008989

sp48\_25\_ss\_c\_lag\_all | .9753637 .0139869 -1.74 0.082 .9483316 1.003166

sp48\_26\_ss\_c\_lag\_all | 1.03411 .021646 1.60 0.109 .9925434 1.077418

sp48\_27\_ss\_c\_lag\_all | 1.041334 .0167407 2.52 0.012 1.009035 1.074668

sp48\_28\_ss\_c\_lag\_all | .9511926 .021918 -2.17 0.030 .9091897 .995136

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

sp48\_5\_ss\_c\_lag\_all | 1.031084 .0170354 1.85 0.064 .9982295 1.065019

sp48\_6\_ss\_c\_lag\_all | 1.031006 .0151936 2.07 0.038 1.001653 1.061219

sp48\_7\_ss\_c\_lag\_all | 1.012765 .0146659 0.88 0.381 .9844248 1.041922

sp48\_8\_ss\_c\_lag\_all | 1.045146 .0327185 1.41 0.158 .9829463 1.111281

sp71\_701\_ss\_c\_lag\_all | 1.055396 .1078386 0.53 0.598 .8638559 1.289407

sp72\_503\_ss\_c\_lag\_all | .9197197 .0313225 -2.46 0.014 .8603328 .983206

sp72\_610\_ss\_c\_lag\_all | .9998119 .0996645 -0.00 0.998 .8223709 1.215539

sp72\_620\_ss\_c\_lag\_all | .8991204 .0679788 -1.41 0.160 .7752861 1.042734

sp72\_630\_ss\_c\_lag\_all | .9957177 .0017372 -2.46 0.014 .9923188 .9991283

sp75\_100\_ss\_c\_lag\_all | .9225127 .0629502 -1.18 0.237 .8070274 1.054524

sp75\_1001\_1\_ss\_c\_lag\_all | 1.603765 .1969635 3.85 0.000 1.260672 2.040232

sp75\_1001\_ss\_c\_lag\_all | 1.008821 .0381727 0.23 0.816 .9367112 1.086483

sp75\_1003\_1\_ss\_c\_lag\_all | 1.070797 .053035 1.38 0.167 .9717359 1.179956

sp75\_1100\_2\_ss\_c\_lag\_all | 1.00281 .0039903 0.71 0.481 .9950197 1.010662

sp75\_1101\_20\_ss\_c\_lag\_all | 1.041172 .0558309 0.75 0.452 .9372997 1.156556

sp75\_1102\_ss\_c\_lag\_all | .9485533 .013478 -3.72 0.000 .9225013 .9753409

sp75\_1103\_4\_ss\_c\_lag\_all | 1.002707 .0072899 0.37 0.710 .9885202 1.017097

sp75\_1104\_ss\_c\_lag\_all | 1.022803 .0267342 0.86 0.388 .9717247 1.076567

sp75\_1106\_2\_ss\_c\_lag\_all | 1.010232 .0125438 0.82 0.412 .9859438 1.035119

sp75\_1106\_3\_ss\_c\_lag\_all | 1.00668 .0051907 1.29 0.197 .9965579 1.016905

sp75\_1106\_4\_ss\_c\_lag\_all | 1.037989 .0387541 1.00 0.318 .9647452 1.116794

sp75\_1106\_5\_ss\_c\_lag\_all | .9783371 .0131599 -1.63 0.103 .9528813 1.004473

sp75\_1106\_6\_ss\_c\_lag\_all | .9389266 .1103149 -0.54 0.592 .7458021 1.18206

sp75\_1106\_ss\_c\_lag\_all | 1.018 .0363061 0.50 0.617 .9492712 1.091705

sp75\_1107\_14\_ss\_c\_lag\_all | 1.426147 .2379264 2.13 0.033 1.028388 1.977751

sp75\_1400\_1\_ss\_c\_lag\_all | 1.012118 .0525719 0.23 0.817 .9141502 1.120584

sp75\_1400\_2\_ss\_c\_lag\_all | .6700816 .142523 -1.88 0.060 .4416532 1.016656

sp75\_1400\_3\_ss\_c\_lag\_all | .9501973 .0228663 -2.12 0.034 .9064207 .9960881

sp75\_1400\_4\_ss\_c\_lag\_all | 1.042173 .114239 0.38 0.706 .8406876 1.291949

sp75\_1400\_ss\_c\_lag\_all | .9877877 .0122836 -0.99 0.323 .9640034 1.012159

sp75\_1401\_ss\_c\_lag\_all | 1.056848 .0593564 0.98 0.325 .9466856 1.179829

sp75\_1403\_10\_ss\_c\_lag\_all | 1.006678 .0047357 1.41 0.157 .9974393 1.016003

sp75\_1403\_11\_ss\_c\_lag\_all | .7404966 .1766737 -1.26 0.208 .4639129 1.181979

sp75\_1403\_3\_ss\_c\_lag\_all | .7410035 .1049709 -2.12 0.034 .5613564 .9781418

sp75\_1403\_4\_ss\_c\_lag\_all | 1.369132 .1643376 2.62 0.009 1.082119 1.732269

sp75\_1403\_5\_ss\_c\_lag\_all | .9989422 .0016292 -0.65 0.516 .995754 1.002141

sp75\_1403\_6\_ss\_c\_lag\_all | .9978673 .0019564 -1.09 0.276 .9940402 1.001709

sp75\_1403\_7\_ss\_c\_lag\_all | .9951922 .0093865 -0.51 0.609 .9769639 1.013761

sp75\_1403\_8\_ss\_c\_lag\_all | .9936662 .0029859 -2.11 0.034 .9878312 .9995356

sp75\_1403\_9\_ss\_c\_lag\_all | 1.056381 .0292285 1.98 0.047 1.00062 1.11525

sp75\_1404\_1\_ss\_c\_lag\_all | .8839368 .0466551 -2.34 0.019 .7970654 .9802763

sp75\_1404\_ss\_c\_lag\_all | 1.031111 .076317 0.41 0.679 .8918754 1.192083

sp75\_1405\_1\_ss\_c\_lag\_all | 1.072159 .0828868 0.90 0.367 .9214129 1.247568

sp75\_1405\_ss\_c\_lag\_all | 1.003908 .0045539 0.86 0.390 .9950216 1.012873

sp75\_1431\_ss\_c\_lag\_all | .9802712 .1161019 -0.17 0.866 .777197 1.236407

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

sp75\_1433\_ss\_c\_lag\_all | .9472911 .049136 -1.04 0.297 .85572 1.048661

sp75\_1434\_ss\_c\_lag\_all | .9861997 .0233585 -0.59 0.557 .9414642 1.033061

sp75\_1435\_ss\_c\_lag\_all | .6860115 .0916484 -2.82 0.005 .527976 .8913506

sp75\_1437\_ss\_c\_lag\_all | 1.018897 .0577447 0.33 0.741 .9117785 1.138599

sp75\_150\_ss\_c\_lag\_all | 1.210993 .079195 2.93 0.003 1.065309 1.376599

sp75\_151\_ss\_c\_lag\_all | .9730252 .0770729 -0.35 0.730 .8331071 1.136442

sp75\_153\_ss\_c\_lag\_all | 1.237567 .2957586 0.89 0.372 .7747212 1.976934

sp75\_155\_ss\_c\_lag\_all | .7934951 .0798912 -2.30 0.022 .6513928 .9665972

sp75\_156\_ss\_c\_lag\_all | .6871426 .0537318 -4.80 0.000 .5895033 .8009538

sp75\_1600\_2\_ss\_c\_lag\_all | 1.02508 .0298772 0.85 0.395 .9681629 1.085343

sp75\_1712\_10\_ss\_c\_lag\_all | .994889 .0370784 -0.14 0.891 .9248073 1.070281

sp75\_1712\_6\_ss\_c\_lag\_all | 1.076108 .1934133 0.41 0.683 .7565988 1.530543

sp75\_1720\_ss\_c\_lag\_all | 1.002087 .0085349 0.24 0.807 .985498 1.018956

sp75\_1721\_ss\_c\_lag\_all | .8785957 .0268764 -4.23 0.000 .827467 .9328837

sp75\_1725\_ss\_c\_lag\_all | 1.000436 .0005511 0.79 0.429 .9993564 1.001517

sp75\_1726\_ss\_c\_lag\_all | 1.034076 .0194762 1.78 0.075 .996599 1.072962

sp75\_1727\_ss\_c\_lag\_all | 1.093537 .0518039 1.89 0.059 .9965743 1.199934

sp75\_1728\_ss\_c\_lag\_all | 1.108686 .0480712 2.38 0.017 1.01836 1.207023

sp75\_1729\_ss\_c\_lag\_all | .9451443 .0229208 -2.33 0.020 .9012714 .9911529

sp75\_1730\_ss\_c\_lag\_all | .9507217 .0342413 -1.40 0.161 .885924 1.020259

sp75\_1731\_ss\_c\_lag\_all | 1.001285 .0006358 2.02 0.043 1.00004 1.002532

sp75\_1903\_ss\_c\_lag\_all | .9755077 .0343212 -0.70 0.481 .9105064 1.04515

sp75\_1909\_ss\_c\_lag\_all | .99743 .0021017 -1.22 0.222 .9933192 1.001558

sp75\_1910\_ss\_c\_lag\_all | 1.004859 .0050923 0.96 0.339 .9949272 1.014889

sp75\_1911\_ss\_c\_lag\_all | .9923677 .00869 -0.87 0.382 .9754809 1.009547

sp75\_1912\_ss\_c\_lag\_all | .9870576 .036618 -0.35 0.725 .9178348 1.061501

sp75\_1913\_ss\_c\_lag\_all | 1.013736 .016991 0.81 0.416 .9809753 1.047591

sp75\_1914\_ss\_c\_lag\_all | 1.000343 .0017945 0.19 0.848 .9968322 1.003866

sp75\_1915\_ss\_c\_lag\_all | .9727391 .0421066 -0.64 0.523 .8936155 1.058869

sp75\_202\_ss\_c\_lag\_all | 1.000237 .0003051 0.78 0.437 .9996395 1.000835

sp75\_208\_ss\_c\_lag\_all | 1.00224 .0035352 0.63 0.526 .9953351 1.009193

sp75\_211\_ss\_c\_lag\_all | .9988238 .0047437 -0.25 0.804 .9895694 1.008165

sp75\_212\_ss\_c\_lag\_all | 1.013274 .00737 1.81 0.070 .9989313 1.027822

sp75\_214\_ss\_c\_lag\_all | 1.018322 .0314659 0.59 0.557 .95848 1.081899

sp75\_312\_ss\_c\_lag\_all | .9959951 .0260926 -0.15 0.878 .9461452 1.048471

sp75\_320\_ss\_c\_lag\_all | .9694016 .0104046 -2.90 0.004 .949222 .9900103

sp75\_324\_ss\_c\_lag\_all | .982196 .0129052 -1.37 0.172 .9572251 1.007818

sp75\_337\_ss\_c\_lag\_all | .9950147 .0073547 -0.68 0.499 .9807036 1.009535

sp75\_340\_ss\_c\_lag\_all | .9903566 .0030195 -3.18 0.001 .9844561 .9962924

sp75\_342\_ss\_c\_lag\_all | 1.00108 .001479 0.73 0.465 .9981852 1.003983

sp75\_344\_ss\_c\_lag\_all | .9873535 .0181007 -0.69 0.488 .9525065 1.023475

sp75\_352\_ss\_c\_lag\_all | .9915163 .0158413 -0.53 0.594 .9609491 1.023056

sp75\_382\_ss\_c\_lag\_all | 1.054527 .0286358 1.96 0.051 .9998694 1.112173

sp75\_503\_ss\_c\_lag\_all | .9990392 .0005991 -1.60 0.109 .9978658 1.000214

sp75\_504\_ss\_c\_lag\_all | .952233 .0478833 -0.97 0.330 .86286 1.050863

sp75\_505\_ss\_c\_lag\_all | .9979815 .0625417 -0.03 0.974 .8826311 1.128407

sp75\_506\_1\_ss\_c\_lag\_all | 1.057107 .0484013 1.21 0.225 .9663748 1.156359

sp75\_506\_ss\_c\_lag\_all | 1.06343 .0383584 1.70 0.088 .9908447 1.141332

sp75\_507\_ss\_c\_lag\_all | .9950223 .0132631 -0.37 0.708 .9693636 1.02136

sp75\_511\_1\_ss\_c\_lag\_all | .9709638 .0576892 -0.50 0.620 .8642302 1.090879

sp75\_511\_ss\_c\_lag\_all | 1.001539 .0111055 0.14 0.890 .9800072 1.023544

sp75\_512\_1\_ss\_c\_lag\_all | .7781743 .1022425 -1.91 0.056 .6015054 1.006733

sp75\_512\_2\_ss\_c\_lag\_all | 1.011252 .010552 1.07 0.284 .9907803 1.032146

sp75\_512\_ss\_c\_lag\_all | 1.00034 .0015209 0.22 0.823 .997363 1.003325

sp75\_513\_1\_ss\_c\_lag\_all | 1.056371 .0752064 0.77 0.441 .918791 1.214552

sp75\_513\_ss\_c\_lag\_all | .9745552 .028916 -0.87 0.385 .9194973 1.03291

sp75\_514\_ss\_c\_lag\_all | 1.007812 .0061369 1.28 0.201 .9958551 1.019912

sp75\_515\_ss\_c\_lag\_all | .9929463 .0045497 -1.54 0.122 .984069 1.001904

sp75\_516\_1\_ss\_c\_lag\_all | .9516173 .0630508 -0.75 0.454 .8357275 1.083577

sp75\_516\_2\_ss\_c\_lag\_all | .9811915 .1592093 -0.12 0.907 .713899 1.348561

sp75\_516\_ss\_c\_lag\_all | 1.002616 .008734 0.30 0.764 .9856427 1.019881

sp75\_517\_1\_ss\_c\_lag\_all | .966146 .0496834 -0.67 0.503 .8735149 1.0686

sp75\_517\_ss\_c\_lag\_all | 1.000266 .0004616 0.58 0.564 .9993622 1.001171

sp75\_518\_1\_ss\_c\_lag\_all | .9879277 .0098888 -1.21 0.225 .9687348 1.007501

sp75\_518\_ss\_c\_lag\_all | 1.01252 .0051828 2.43 0.015 1.002413 1.022729

sp75\_519\_ss\_c\_lag\_all | 1.098449 .1561778 0.66 0.509 .8312959 1.451456

sp75\_520\_ss\_c\_lag\_all | .9905901 .0101271 -0.92 0.355 .9709389 1.010639

sp75\_523\_1\_ss\_c\_lag\_all | 1.001245 .0069886 0.18 0.859 .9876407 1.015036

sp75\_523\_2\_ss\_c\_lag\_all | .9952548 .0053036 -0.89 0.372 .984914 1.005704

sp75\_523\_ss\_c\_lag\_all | 1.000998 .0046553 0.21 0.830 .9919156 1.010164

sp75\_600\_1\_ss\_c\_lag\_all | .9601196 .0483586 -0.81 0.419 .8698665 1.059737

sp75\_600\_ss\_c\_lag\_all | .8417371 .0548638 -2.64 0.008 .7407912 .9564387

sp75\_601\_1\_ss\_c\_lag\_all | 1.002255 .0042652 0.53 0.597 .9939306 1.01065

sp75\_601\_2\_ss\_c\_lag\_all | 1.058934 .0307022 1.98 0.048 1.000436 1.120851

sp75\_601\_3\_ss\_c\_lag\_all | 1.090403 .0697979 1.35 0.176 .9618351 1.236156

sp75\_601\_ss\_c\_lag\_all | 1.007673 .0065144 1.18 0.237 .9949853 1.020522

sp75\_602\_ss\_c\_lag\_all | 1.020444 .021371 0.97 0.334 .9794054 1.063202

sp75\_603\_ss\_c\_lag\_all | .9958109 .0118743 -0.35 0.725 .9728076 1.019358

sp75\_604\_ss\_c\_lag\_all | 1.0014 .0008453 1.66 0.097 .9997444 1.003058

sp75\_605\_ss\_c\_lag\_all | 1.003041 .0066036 0.46 0.645 .9901813 1.016068

sp75\_606\_ss\_c\_lag\_all | .9972024 .0026171 -1.07 0.286 .9920862 1.002345

sp75\_607\_ss\_c\_lag\_all | .9898129 .0129173 -0.78 0.433 .9648165 1.015457

sp75\_700\_1\_ss\_c\_lag\_all | 1.00396 .0419081 0.09 0.925 .9250916 1.089552

sp75\_700\_ss\_c\_lag\_all | .9945522 .0115344 -0.47 0.638 .9722002 1.017418

sp75\_701\_1\_ss\_c\_lag\_all | .9987927 .0149821 -0.08 0.936 .9698558 1.028593

sp75\_701\_2\_ss\_c\_lag\_all | .996848 .0314353 -0.10 0.920 .9371014 1.060404

sp75\_701\_3\_ss\_c\_lag\_all | .9829846 .0165621 -1.02 0.308 .9510535 1.015988

sp75\_701\_4\_ss\_c\_lag\_all | 1.015971 .1080818 0.15 0.882 .8247608 1.25151

sp75\_701\_ss\_c\_lag\_all | .9993806 .0039684 -0.16 0.876 .9916328 1.007189

sp75\_703\_2\_ss\_c\_lag\_all | 1.052743 .040291 1.34 0.179 .9766636 1.13475

sp75\_703\_3\_ss\_c\_lag\_all | 1.047268 .0232728 2.08 0.038 1.002633 1.09389

sp75\_703\_ss\_c\_lag\_all | .9936075 .0099408 -0.64 0.522 .9743136 1.013283

sp75\_704\_ss\_c\_lag\_all | .9216725 .0794823 -0.95 0.344 .7783439 1.091394

sp75\_705\_1\_ss\_c\_lag\_all | 1.06443 .0400301 1.66 0.097 .9887942 1.145851

sp75\_705\_8\_ss\_c\_lag\_all | 4.72e-10 4.79e-10 -21.17 0.000 6.46e-11 3.45e-09

sp75\_705\_ss\_c\_lag\_all | .9433432 .0399998 -1.38 0.169 .8681143 1.025091

sp75\_706\_ss\_c\_lag\_all | .927134 .0285326 -2.46 0.014 .8728643 .9847778

sp75\_800\_2\_ss\_c\_lag\_all | .9014642 .0129577 -7.22 0.000 .8764221 .9272219

sp75\_800\_3\_ss\_c\_lag\_all | 1.03434 .049586 0.70 0.481 .9415792 1.136239

sp75\_800\_4\_ss\_c\_lag\_all | 1.209732 .1319632 1.75 0.081 .9768689 1.498105

sp75\_800\_ss\_c\_lag\_all | .994487 .0175852 -0.31 0.755 .9606111 1.029558

sp75\_801\_ss\_c\_lag\_all | .9230404 .0719546 -1.03 0.304 .7922571 1.075413

sp75\_802\_ss\_c\_lag\_all | .9738373 .033086 -0.78 0.435 .9111019 1.040892

sp75\_803\_2\_ss\_c\_lag\_all | .9067337 .084207 -1.05 0.292 .7558401 1.087751

sp75\_803\_ss\_c\_lag\_all | 1.035073 .0169853 2.10 0.036 1.002312 1.068905

sp75\_812\_ss\_c\_lag\_all | 1.103731 .0721922 1.51 0.131 .9709308 1.254695

sp75\_814\_ss\_c\_lag\_all | .9186744 .0344537 -2.26 0.024 .8535686 .9887461

sp75\_815\_ss\_c\_lag\_all | 1.008899 .0415308 0.22 0.830 .9306968 1.093671

sp75\_816\_ss\_c\_lag\_all | .9711749 .0176954 -1.61 0.108 .9371045 1.006484

sp75\_818\_ss\_c\_lag\_all | 1.212451 .0957883 2.44 0.015 1.038523 1.415508

sp75\_819\_ss\_c\_lag\_all | .7926302 .0890144 -2.07 0.039 .6360312 .9877857

sp75\_820\_ss\_c\_lag\_all | 1.05657 .0253857 2.29 0.022 1.007969 1.107515

sp75\_821\_ss\_c\_lag\_all | .9493424 .0333834 -1.48 0.139 .8861161 1.01708

sp75\_825\_ss\_c\_lag\_all | .9097739 .0533234 -1.61 0.107 .8110415 1.020526

sp75\_827\_ss\_c\_lag\_all | .9654084 .0649164 -0.52 0.601 .8462024 1.101407

sp75\_831\_ss\_c\_lag\_all | 1.14528 .0716532 2.17 0.030 1.013112 1.294691

sp75\_900\_2\_ss\_c\_lag\_all | .9052992 .0460263 -1.96 0.050 .8194381 1.000157

sp75\_900\_3\_ss\_c\_lag\_all | 1.010752 .0260516 0.41 0.678 .9609602 1.063124

sp75\_900\_4\_ss\_c\_lag\_all | 1.028949 .0173393 1.69 0.090 .9955199 1.063501

sp75\_900\_ss\_c\_lag\_all | .9971553 .0043478 -0.65 0.514 .9886701 1.005713

sp75\_901\_ss\_c\_lag\_all | .9795945 .0229629 -0.88 0.379 .9356062 1.025651

sp75\_902\_1\_ss\_c\_lag\_all | 1.092042 .061347 1.57 0.117 .9781867 1.219149

sp75\_902\_2\_ss\_c\_lag\_all | 1.008837 .0163187 0.54 0.586 .9773549 1.041334

sp75\_902\_4\_ss\_c\_lag\_all | 1.053001 .0197632 2.75 0.006 1.014969 1.092457

sp75\_902\_ss\_c\_lag\_all | 1.000529 .0058481 0.09 0.928 .9891318 1.012057

sp75\_903\_ss\_c\_lag\_all | .993847 .0074772 -0.82 0.412 .9792995 1.008611

sp75\_904\_ss\_c\_lag\_all | 1.005207 .0016392 3.18 0.001 1.001999 1.008425

sp75\_905\_ss\_c\_lag\_all | .9035953 .0586692 -1.56 0.118 .7956216 1.026222

sp75\_907\_ss\_c\_lag\_all | .9631572 .0416374 -0.87 0.385 .8849112 1.048322

sp77\_103\_ss\_c\_lag\_all | .9805422 .0229613 -0.84 0.401 .936556 1.026594

sp77\_1103\_ss\_c\_lag\_all | 1.00902 .013637 0.66 0.506 .9826426 1.036105

sp77\_1104\_ss\_c\_lag\_all | .9999955 .0022441 -0.00 0.998 .9956068 1.004404

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

sp77\_1111\_ss\_c\_lag\_all | 1.156952 .0618103 2.73 0.006 1.041933 1.284668

sp77\_1112\_ss\_c\_lag\_all | .9761895 .0180947 -1.30 0.194 .9413611 1.012307

sp77\_1403\_ss\_c\_lag\_all | 1.087701 .0688004 1.33 0.184 .9608784 1.231262

sp77\_1433\_ss\_c\_lag\_all | 1.054984 .1241519 0.45 0.649 .8376745 1.328668

sp77\_1434\_ss\_c\_lag\_all | .9311953 .0379589 -1.75 0.080 .8596916 1.008646

sp77\_1437\_ss\_c\_lag\_all | .8678812 .0652499 -1.88 0.059 .74897 1.005672

sp77\_1438\_ss\_c\_lag\_all | 1.204614 .1949118 1.15 0.250 .877243 1.654154

sp77\_1605\_ss\_c\_lag\_all | 1.004061 .0029899 1.36 0.173 .9982183 1.009938

sp77\_1606\_ss\_c\_lag\_all | 1.001831 .0029326 0.62 0.532 .9960995 1.007595

sp77\_1710\_ss\_c\_lag\_all | .9876204 .0052334 -2.35 0.019 .9774161 .9979312

sp77\_1802\_ss\_c\_lag\_all | .9685179 .0798129 -0.39 0.698 .824067 1.13829

sp77\_1906\_ss\_c\_lag\_all | 1.026834 .1359304 0.20 0.841 .7921722 1.331008

sp77\_1915\_ss\_c\_lag\_all | .9171972 .077202 -1.03 0.304 .7777065 1.081707

sp77\_1916\_ss\_c\_lag\_all | .9302744 .0291214 -2.31 0.021 .8749131 .9891387

sp77\_200\_ss\_c\_lag\_all | .9949125 .0027267 -1.86 0.063 .9895826 1.000271

sp77\_202\_ss\_c\_lag\_all | .9959284 .0047657 -0.85 0.394 .9866315 1.005313

sp77\_203\_ss\_c\_lag\_all | .9600625 .033696 -1.16 0.246 .8962398 1.02843

sp77\_204\_ss\_c\_lag\_all | 1.006327 .0060127 1.06 0.291 .9946109 1.018181

sp77\_205\_ss\_c\_lag\_all | .997658 .001861 -1.26 0.209 .9940172 1.001312

sp77\_206\_ss\_c\_lag\_all | 1.007251 .0128117 0.57 0.570 .9824504 1.032677

sp77\_207\_ss\_c\_lag\_all | 1.02138 .0112853 1.91 0.056 .9994991 1.04374

sp77\_208\_ss\_c\_lag\_all | 1.011716 .0052515 2.24 0.025 1.001475 1.022061

sp77\_210\_ss\_c\_lag\_all | 1.001148 .0179415 0.06 0.949 .966594 1.036938

sp77\_216\_ss\_c\_lag\_all | .906403 .0803016 -1.11 0.267 .7619215 1.078282

sp77\_315\_ss\_c\_lag\_all | .8710423 .1122639 -1.07 0.284 .6766008 1.121362

sp77\_400\_ss\_c\_lag\_all | 1.001063 .0022684 0.47 0.639 .9966269 1.005519

sp77\_401\_ss\_c\_lag\_all | 1.002227 .0149098 0.15 0.881 .9734258 1.031879

sp77\_402\_ss\_c\_lag\_all | .9818144 .012128 -1.49 0.137 .9583293 1.005875

sp77\_403\_1\_ss\_c\_lag\_all | 1.066437 .0308236 2.23 0.026 1.007704 1.128594

sp77\_403\_ss\_c\_lag\_all | .9384327 .082324 -0.72 0.469 .7901899 1.114487

sp77\_404\_ss\_c\_lag\_all | .9970875 .0016311 -1.78 0.075 .9938958 1.000289

sp77\_405\_ss\_c\_lag\_all | .9886034 .0135406 -0.84 0.403 .9624173 1.015502

sp77\_408\_ss\_c\_lag\_all | 1.010749 .0319943 0.34 0.736 .9499471 1.075443

sp77\_409\_ss\_c\_lag\_all | .6406428 .0853996 -3.34 0.001 .4933422 .831924

sp77\_410\_ss\_c\_lag\_all | 1.00013 .003705 0.04 0.972 .992895 1.007419

sp77\_411\_ss\_c\_lag\_all | .7992992 .0422556 -4.24 0.000 .7206261 .8865614

sp77\_412\_ss\_c\_lag\_all | .9309686 .0224453 -2.97 0.003 .8879998 .9760165

sp77\_413\_ss\_c\_lag\_all | 1.123536 .0562851 2.33 0.020 1.018462 1.239451

sp77\_500\_ss\_c\_lag\_all | .9984032 .0255004 -0.06 0.950 .9496537 1.049655

sp77\_501\_ss\_c\_lag\_all | 1.007341 .0256508 0.29 0.774 .9583008 1.058892

sp77\_502\_1\_ss\_c\_lag\_all | 1.206575 .1624126 1.40 0.163 .9267816 1.570838

sp77\_502\_2\_ss\_c\_lag\_all | 1.05065 .0251478 2.06 0.039 1.0025 1.101114

sp77\_502\_ss\_c\_lag\_all | 1.006604 .0036517 1.81 0.070 .9994723 1.013787

sp77\_503\_1\_ss\_c\_lag\_all | 1.140526 .0809083 1.85 0.064 .9924791 1.310657

sp77\_503\_ss\_c\_lag\_all | .9963201 .0464514 -0.08 0.937 .9093129 1.091653

sp77\_504\_ss\_c\_lag\_all | 1.002765 .012886 0.21 0.830 .9778242 1.028342

sp77\_505\_ss\_c\_lag\_all | .9761808 .0099592 -2.36 0.018 .9568549 .995897

sp77\_506\_1\_ss\_c\_lag\_all | 1.118118 .0409795 3.05 0.002 1.040616 1.201391

sp77\_506\_ss\_c\_lag\_all | .9981133 .0208069 -0.09 0.928 .9581543 1.039739

sp77\_507\_ss\_c\_lag\_all | 1.032254 .0310202 1.06 0.291 .9732117 1.094879

sp77\_508\_1\_ss\_c\_lag\_all | 1.185718 .0907336 2.23 0.026 1.020577 1.377581

sp77\_508\_ss\_c\_lag\_all | .9269687 .0349313 -2.01 0.044 .8609717 .9980245

sp77\_509\_ss\_c\_lag\_all | .9608094 .0112652 -3.41 0.001 .9389817 .9831445

sp77\_510\_ss\_c\_lag\_all | 1.015793 .0617408 0.26 0.797 .9017131 1.144306

sp77\_511\_ss\_c\_lag\_all | 1.021186 .0485292 0.44 0.659 .9303655 1.120872

sp77\_512\_ss\_c\_lag\_all | 1.007017 .0062015 1.14 0.256 .9949351 1.019245

sp77\_513\_ss\_c\_lag\_all | 1.015565 .0117887 1.33 0.183 .9927205 1.038935

sp77\_514\_ss\_c\_lag\_all | .7056627 .0746858 -3.29 0.001 .5734662 .8683334

sp77\_515\_ss\_c\_lag\_all | 1.180381 .1236445 1.58 0.113 .9613004 1.44939

sp77\_516\_ss\_c\_lag\_all | .991647 .0075885 -1.10 0.273 .9768849 1.006632

sp77\_600\_ss\_c\_lag\_all | 1.03573 .029572 1.23 0.219 .9793621 1.095343

sp77\_601\_ss\_c\_lag\_all | 1.026227 .0386605 0.69 0.492 .9531842 1.104868

sp77\_602\_ss\_c\_lag\_all | 1.080742 .0565046 1.49 0.138 .9754802 1.197362

sp77\_603\_ss\_c\_lag\_all | 1.070902 .0806807 0.91 0.363 .9238912 1.241304

sp77\_604\_ss\_c\_lag\_all | 1.028191 .0337383 0.85 0.397 .9641466 1.09649

sp77\_605\_ss\_c\_lag\_all | 6.58e-09 6.60e-09 -18.76 0.000 9.19e-10 4.71e-08

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

sp77\_700\_1\_ss\_c\_lag\_all | .0030906 .000777 -22.99 0.000 .0018881 .0050588

sp77\_700\_ss\_c\_lag\_all | .9781323 .0721335 -0.30 0.764 .8464957 1.13024

sp77\_701\_1\_ss\_c\_lag\_all | 1.110394 .0458595 2.54 0.011 1.024053 1.204015

sp77\_701\_2\_ss\_c\_lag\_all | .900195 .0495938 -1.91 0.056 .808057 1.002839

sp77\_701\_ss\_c\_lag\_all | 1.008339 .0106192 0.79 0.430 .9877386 1.029368

sp75\_804\_ss\_c\_lag\_all | .9873828 .0108531 -1.16 0.248 .9663386 1.008885

sp75\_805\_ss\_c\_lag\_all | .991584 .0323611 -0.26 0.796 .9301434 1.057083

sp75\_806\_ss\_c\_lag\_all | 1.343379 .1910519 2.08 0.038 1.016583 1.775228

sp75\_807\_ss\_c\_lag\_all | 1.003565 .0043235 0.83 0.409 .9951268 1.012075

sp75\_808\_ss\_c\_lag\_all | .9571389 .0272995 -1.54 0.125 .905101 1.012169

sp75\_809\_ss\_c\_lag\_all | .98825 .0114281 -1.02 0.307 .9661033 1.010904

sp75\_810\_ss\_c\_lag\_all | .9998208 .0190545 -0.01 0.992 .9631636 1.037873

sp75\_811\_ss\_c\_lag\_all | 1.038198 .037439 1.04 0.299 .9673517 1.114232

sp77\_704\_1\_ss\_c\_lag\_all | .9700321 .040809 -0.72 0.470 .8932567 1.053406

sp77\_704\_8\_ss\_c\_lag\_all | 1.183871 .1355722 1.47 0.140 .9458629 1.48177

sp77\_704\_9\_ss\_c\_lag\_all | 1.034461 .0409061 0.86 0.392 .9573151 1.117825

sp77\_704\_ss\_c\_lag\_all | .8886613 .0584358 -1.80 0.073 .7812026 1.010902

sp77\_705\_ss\_c\_lag\_all | .9527343 .0252225 -1.83 0.067 .9045598 1.003474

sp77\_800\_1\_ss\_c\_lag\_all | 1.028262 .0785711 0.36 0.715 .8852425 1.194388

sp77\_800\_2\_ss\_c\_lag\_all | 1.013284 .0688384 0.19 0.846 .8869598 1.1576

sp77\_800\_ss\_c\_lag\_all | .9660478 .1572599 -0.21 0.832 .7021569 1.329117

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

sp77\_802\_ss\_c\_lag\_all | 1.143688 .0728174 2.11 0.035 1.009514 1.295695

sp77\_803\_ss\_c\_lag\_all | 1.18954 .0872024 2.37 0.018 1.030337 1.373341

sp77\_804\_ss\_c\_lag\_all | .9256946 .0290463 -2.46 0.014 .8704801 .9844113

sp77\_805\_ss\_c\_lag\_all | .8922815 .0777523 -1.31 0.191 .7521929 1.05846

sp77\_807\_1\_ss\_c\_lag\_all | 1.052836 .0539614 1.00 0.315 .9522122 1.164093

sp77\_807\_2\_ss\_c\_lag\_all | 1.035183 .0319931 1.12 0.263 .9743391 1.099826

sp77\_807\_3\_ss\_c\_lag\_all | .9624797 .045763 -0.80 0.421 .8768383 1.056486

sp77\_807\_ss\_c\_lag\_all | .9255858 .0426774 -1.68 0.094 .845608 1.013128

sp77\_808\_ss\_c\_lag\_all | 1.02966 .0676081 0.45 0.656 .9053223 1.171073

sp77\_809\_ss\_c\_lag\_all | .9749847 .0245358 -1.01 0.314 .9280622 1.02428

sp77\_810\_ss\_c\_lag\_all | 1.023189 .0563448 0.42 0.677 .9185062 1.139803

sp77\_900\_1\_ss\_c\_lag\_all | .9890168 .0574359 -0.19 0.849 .8826148 1.108246

sp77\_900\_2\_ss\_c\_lag\_all | .8713223 .0169965 -7.06 0.000 .8386386 .9052797

sp77\_900\_ss\_c\_lag\_all | 1.003211 .0368253 0.09 0.930 .9335698 1.078047

sp77\_901\_1\_ss\_c\_lag\_all | 1 (omitted)

sp77\_901\_ss\_c\_lag\_all | 1.048435 .0412701 1.20 0.230 .9705881 1.132525

sp77\_902\_ss\_c\_lag\_all | .9544017 .0553602 -0.80 0.421 .8518382 1.069314

sp77\_903\_ss\_c\_lag\_all | 1.08927 .0294733 3.16 0.002 1.033009 1.148596

sp77\_904\_ss\_c\_lag\_all | .990179 .0070655 -1.38 0.167 .9764273 1.004124

mine\_time | .9915695 .0093242 -0.90 0.368 .9734618 1.010014

onsite\_insp\_hours | .9999878 .0000396 -0.31 0.758 .9999103 1.000065

|

state |

1 | 1.201072 .2941527 0.75 0.454 .7431947 1.941045

2 | 2.018822 .1344846 10.55 0.000 1.77172 2.300389

3 | .8538948 .1868684 -0.72 0.470 .5560647 1.311244

4 | 1.039836 .0964721 0.42 0.674 .8669485 1.2472

5 | .762744 .1178692 -1.75 0.080 .5634301 1.032565

6 | .8907021 .0513895 -2.01 0.045 .7954666 .9973394

7 | .9649505 .2554777 -0.13 0.893 .5743059 1.621313

8 | .9363929 .0758599 -0.81 0.417 .7989136 1.09753

9 | 2.084841 1.110273 1.38 0.168 .7341235 5.92075

10 | .6958493 .1380415 -1.83 0.068 .4716884 1.026538

11 | 1.615813 .4410843 1.76 0.079 .9463029 2.759001

12 | 1.059998 .1033677 0.60 0.550 .875585 1.283251

13 | 1.300491 .2046197 1.67 0.095 .9553867 1.770255

14 | .6841267 .1016932 -2.55 0.011 .5112205 .9155137

15 | .7275854 .0517732 -4.47 0.000 .63287 .8364759

17 | 1.438659 .4981363 1.05 0.294 .7298425 2.835873

|

time |

2000 | 1.076188 .0656415 1.20 0.229 .9549256 1.212849

2002 | .9698095 .053932 -0.55 0.581 .8696617 1.08149

2003 | .8694574 .0560693 -2.17 0.030 .7662249 .9865983

2004 | .9046971 .0607077 -1.49 0.136 .7932046 1.031861

2005 | .8013626 .0551779 -3.22 0.001 .7001957 .9171464

2006 | .7951914 .0560684 -3.25 0.001 .6925546 .913039

2007 | .7466501 .0544772 -4.00 0.000 .64716 .8614352

2008 | .6841524 .0508914 -5.10 0.000 .5913374 .7915354

2009 | .6001112 .0469245 -6.53 0.000 .5148417 .6995033

2010 | .5958259 .0479161 -6.44 0.000 .5089393 .6975458

2011 | .6087335 .0479237 -6.31 0.000 .5216927 .7102965

2012 | .589646 .0491051 -6.34 0.000 .500846 .6941901

2013 | .504417 .0464081 -7.44 0.000 .4211882 .6040921

2014 | .4846764 .0480467 -7.31 0.000 .3990901 .5886169

2015 | .4849194 .0526281 -6.67 0.000 .3920026 .5998604

|

\_cons | .0000165 1.08e-06 -167.85 0.000 .0000145 .0000188

ln(hours) | 1 (exposure)

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

/lnalpha | -2.411739 .1994935 -2.802739 -2.020739

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

alpha | .0896592 .0178864 .0606437 .1325574

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

(est1 stored)

**. lrtest pois nbin, stats force**

Likelihood-ratio test LR chi2(0) = -116.40

(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 | 6,253 -8961.932 -8366.471 287 17306.94 19241.56

pois | 6,253 -9569.622 -8424.669 287 17423.34 19357.95

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

Note: N=Obs used in calculating BIC; see [R] BIC note.

**. summ MR spcssv4\_yhat**

Variable | Obs Mean Std. Dev. Min Max

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

MR | 6,253 1.881017 3.268911 0 37

spcssv4\_yhat | 6,253 1.893527 2.96107 6.58e-34 44.7704