

Note: This document contains the regression representations for the panel model of manufacturing share, manufacturing incomes, manufacturing employment and manufacturing wages (wage rate), and one represented Vector autorregression performed for this study. These were produced in EVIEWS 7.1. More underlying code is available from the author.

Manufacturing Share Equations

$$D((ALAB_MANUINC/ALAB_PI)) = -0.000273812088708 + 0.00201828359621 + 0.00088045316266*ALAB_RTW + 0.0188736893255*D(LOG(ALAB_MANUINCC(-1)/ALAB_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((ARIZ_MANUINC/ARIZ_PI)) = 0.000510997618011 + 0.00201828359621 + 0.00088045316266*ARIZ_RTW + 0.0188736893255*D(LOG(ARIZ_MANUINCC(-1)/ARIZ_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((ARKA_MANUINC/ARKA_PI)) = 0.0011327678532 + 0.00201828359621 + 0.00088045316266*ARKA_RTW + 0.0188736893255*D(LOG(ARKA_MANUINCC(-1)/ARKA_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((CALI_MANUINC/CALI_PI)) = 0.000646848910331 + 0.00201828359621 + 0.00088045316266*CALI_RTW + 0.0188736893255*D(LOG(CALI_MANUINCC(-1)/CALI_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((COLO_MANUINC/COLO_PI)) = 0.000551631348721 + 0.00201828359621 + 0.00088045316266*COLO_RTW + 0.0188736893255*D(LOG(COLO_MANUINCC(-1)/COLO_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((CONN_MANUINC/CONN_PI)) = -0.00100914593121 + 0.00201828359621 + 0.00088045316266*CONN_RTW + 0.0188736893255*D(LOG(CONN_MANUINCC(-1)/CONN_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((DELA_MANUINC/DELA_PI)) = -0.000302713476624 + 0.00201828359621 + 0.00088045316266*DELA_RTW + 0.0188736893255*D(LOG(DELA_MANUINCC(-1)/DELA_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((DIST_MANUINC/DIST_PI)) = 0.000414885685286 + 0.00201828359621 + 0.00088045316266*DIST_RTW + 0.0188736893255*D(LOG(DIST_MANUINCC(-1)/DIST_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((FLOR_MANUINC/FLOR_PI)) = -0.000382148288409 + 0.00201828359621 + 0.00088045316266*FLOR_RTW + 0.0188736893255*D(LOG(FLOR_MANUINCC(-1)/FLOR_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((GEOR_MANUINC/GEOR_PI)) = -0.000742652104146 + 0.00201828359621 + 0.00088045316266*GEOR_RTW + 0.0188736893255*D(LOG(GEOR_MANUINCC(-1)/GEOR_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((IDAH_MANUINC/IDAH_PI)) = 0.000772059986214 + 0.00201828359621 + 0.00088045316266*IDAH_RTW + 0.0188736893255*D(LOG(IDAH_MANUINCC(-1)/IDAH_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((ILLI_MANUINC/ILLI_PI)) = -0.000217611819848 + 0.00201828359621 + 0.00088045316266*ILLI_RTW + 0.0188736893255*D(LOG(ILLI_MANUINCC(-1)/ILLI_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$D((\text{INDI_MANUINC}/\text{INDI_PI})) = 2.10570368487e-05 + 0.00201828359621 + 0.00088045316266 * \text{INDI_RTW} + 0.0188736893255 * D(\text{LOG}(\text{INDI_MANUINCC}(-1)/\text{INDI_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{IOWA_MANUINC}/\text{IOWA_PI})) = 0.000490998893404 + 0.00201828359621 + 0.00088045316266 * \text{IOWA_RTW} + 0.0188736893255 * D(\text{LOG}(\text{IOWA_MANUINCC}(-1)/\text{IOWA_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{KANS_MANUINC}/\text{KANS_PI})) = 0.000753001439427 + 0.00201828359621 + 0.00088045316266 * \text{KANS_RTW} + 0.0188736893255 * D(\text{LOG}(\text{KANS_MANUINCC}(-1)/\text{KANS_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{KENT_MANUINC}/\text{KENT_PI})) = 0.00135940738065 + 0.00201828359621 + 0.00088045316266 * \text{KENT_RTW} + 0.0188736893255 * D(\text{LOG}(\text{KENT_MANUINCC}(-1)/\text{KENT_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{LOUI_MANUINC}/\text{LOUI_PI})) = 0.000104014387944 + 0.00201828359621 + 0.00088045316266 * \text{LOUI_RTW} + 0.0188736893255 * D(\text{LOG}(\text{LOUI_MANUINCC}(-1)/\text{LOUI_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MAIN_MANUINC}/\text{MAIN_PI})) = -0.000820559209304 + 0.00201828359621 + 0.00088045316266 * \text{MAIN_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MAIN_MANUINCC}(-1)/\text{MAIN_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MARY_MANUINC}/\text{MARY_PI})) = -0.000749653599243 + 0.00201828359621 + 0.00088045316266 * \text{MARY_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MARY_MANUINCC}(-1)/\text{MARY_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MASS_MANUINC}/\text{MASS_PI})) = -0.00102502242046 + 0.00201828359621 + 0.00088045316266 * \text{MASS_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MASS_MANUINCC}(-1)/\text{MASS_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MICH_MANUINC}/\text{MICH_PI})) = 0.000210941628809 + 0.00201828359621 + 0.00088045316266 * \text{MICH_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MICH_MANUINCC}(-1)/\text{MICH_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MINN_MANUINC}/\text{MINN_PI})) = 0.000940717851393 + 0.00201828359621 + 0.00088045316266 * \text{MINN_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MINN_MANUINCC}(-1)/\text{MINN_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MISS_MANUINC}/\text{MISS_PI})) = 0.000741130526113 + 0.00201828359621 + 0.00088045316266 * \text{MISS_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MISS_MANUINCC}(-1)/\text{MISS_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MISO_MANUINC}/\text{MISO_PI})) = 0.000331437392899 + 0.00201828359621 + 0.00088045316266 * \text{MISO_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MISO_MANUINCC}(-1)/\text{MISO_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{MONT_MANUINC}/\text{MONT_PI})) = 0.000449528066587 + 0.00201828359621 + 0.00088045316266 * \text{MONT_RTW} + 0.0188736893255 * D(\text{LOG}(\text{MONT_MANUINCC}(-1)/\text{MONT_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NEBR_MANUINC}/\text{NEBR_PI})) = 0.000181729818754 + 0.00201828359621 + 0.00088045316266 * \text{NEBR_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NEBR_MANUINCC}(-1)/\text{NEBR_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NEVA_MANUINC}/\text{NEVA_PI})) = 0.000170656697451 + 0.00201828359621 + 0.00088045316266 * \text{NEVA_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NEVA_MANUINCC}(-1)/\text{NEVA_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NEWH_MANUINC}/\text{NEWH_PI})) = -0.0014708207849 + 0.00201828359621 + 0.00088045316266 * \text{NEWH_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NEWH_MANUINCC}(-1)/\text{NEWH_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NEWJ_MANUINC}/\text{NEWJ_PI})) = -0.00132427685751 + 0.00201828359621 + 0.00088045316266 * \text{NEWJ_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NEWJ_MANUINCC}(-1)/\text{NEWJ_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NEWM_MANUINC}/\text{NEWM_PI})) = 0.0010842961527 + 0.00201828359621 + 0.00088045316266 * \text{NEWM_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NEWM_MANUINCC}(-1)/\text{NEWM_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NEWY_MANUINC}/\text{NEWY_PI})) = -0.000600211939092 + 0.00201828359621 + 0.00088045316266 * \text{NEWY_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NEWY_MANUINCC}(-1)/\text{NEWY_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NORC_MANUINC}/\text{NORC_PI})) = -0.00122233596889 + 0.00201828359621 + 0.00088045316266 * \text{NORC_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NORC_MANUINCC}(-1)/\text{NORC_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{NORD_MANUINC}/\text{NORD_PI})) = 0.000137257769042 + 0.00201828359621 + 0.00088045316266 * \text{NORD_RTW} + 0.0188736893255 * D(\text{LOG}(\text{NORD_MANUINCC}(-1)/\text{NORD_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{OHIO_MANUINC}/\text{OHIO_PI})) = -0.000262789676475 + 0.00201828359621 + 0.00088045316266 * \text{OHIO_RTW} + 0.0188736893255 * D(\text{LOG}(\text{OHIO_MANUINCC}(-1)/\text{OHIO_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{OKLA_MANUINC}/\text{OKLA_PI})) = 0.00117584763051 + 0.00201828359621 + 0.00088045316266 * \text{OKLA_RTW} + 0.0188736893255 * D(\text{LOG}(\text{OKLA_MANUINCC}(-1)/\text{OKLA_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{OREG_MANUINC}/\text{OREG_PI})) = 0.000596070963848 + 0.00201828359621 + 0.00088045316266 * \text{OREG_RTW} + 0.0188736893255 * D(\text{LOG}(\text{OREG_MANUINCC}(-1)/\text{OREG_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{PENN_MANUINC}/\text{PENN_PI})) = -0.000261373808877 + 0.00201828359621 + 0.00088045316266 * \text{PENN_RTW} + 0.0188736893255 * D(\text{LOG}(\text{PENN_MANUINCC}(-1)/\text{PENN_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{RHOD_MANUINC}/\text{RHOD_PI})) = -0.00211204284814 + 0.00201828359621 + 0.00088045316266 * \text{RHOD_RTW} + 0.0188736893255 * D(\text{LOG}(\text{RHOD_MANUINCC}(-1)/\text{RHOD_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{SOUC_MANUINC}/\text{SOUC_PI})) = -0.00056401252338 + 0.00201828359621 + 0.00088045316266 * \text{SOUC_RTW} + 0.0188736893255 * D(\text{LOG}(\text{SOUC_MANUINCC}(-1)/\text{SOUC_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{SODU_MANUINC}/\text{SODU_PI})) = 0.000513877419922 + 0.00201828359621 + 0.00088045316266 * \text{SODU_RTW} + 0.0188736893255 * D(\text{LOG}(\text{SODU_MANUINCC}(-1)/\text{SODU_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{TENN_MANUINC}/\text{TENN_PI})) = -0.000100590079188 + 0.00201828359621 + 0.00088045316266 * \text{TENN_RTW} + 0.0188736893255 * D(\text{LOG}(\text{TENN_MANUINCC}(-1)/\text{TENN_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$D((\text{TEXA_MANUINC}/\text{TEXA_PI})) = 0.000969493679265 + 0.00201828359621 + 0.00088045316266 * \text{TEXA_RTW} + 0.0188736893255 * D(\text{LOG}(\text{TEXA_MANUINCC}(-1)/\text{TEXA_PIC}(-1))) - 6.75591560014e-05 * @\text{TREND} + [\text{AR}(1)=0.0579977215845]$

$$D((UTAH_MANUINC/UTAH_PI)) = -3.80339080752e-05 + 0.00201828359621 + 0.00088045316266*UTAH_RTW + 0.0188736893255*D(\text{LOG}(UTAH_MANUINCC(-1)/UTAH_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((VERM_MANUINC/VERM_PI)) = -0.000117043778585 + 0.00201828359621 + 0.00088045316266*VERM_RTW + 0.0188736893255*D(\text{LOG}(VERM_MANUINCC(-1)/VERM_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((VIRG_MANUINC/VIRG_PI)) = -0.000892344607547 + 0.00201828359621 + 0.00088045316266*VIRG_RTW + 0.0188736893255*D(\text{LOG}(VIRG_MANUINCC(-1)/VIRG_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((WASH_MANUINC/WASH_PI)) = 0.00025338929607 + 0.00201828359621 + 0.00088045316266*WASH_RTW + 0.0188736893255*D(\text{LOG}(WASH_MANUINCC(-1)/WASH_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((WEST_MANUINC/WEST_PI)) = -0.000240065328077 + 0.00201828359621 + 0.00088045316266*WEST_RTW + 0.0188736893255*D(\text{LOG}(WEST_MANUINCC(-1)/WEST_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((WISC_MANUINC/WISC_PI)) = 0.000282200669833 + 0.00201828359621 + 0.00088045316266*WISC_RTW + 0.0188736893255*D(\text{LOG}(WISC_MANUINCC(-1)/WISC_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

$$D((WYOM_MANUINC/WYOM_PI)) = -6.69850565221e-05 + 0.00201828359621 + 0.00088045316266*WYOM_RTW + 0.0188736893255*D(\text{LOG}(WYOM_MANUINCC(-1)/WYOM_PIC(-1))) - 6.75591560014e-05*@TREND + [AR(1)=0.0579977215845]$$

Manufacturing Incomes Equations

$$D(\text{LOG}(ALAB_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*ALAB_RTW - 0.0698661800269*D(\text{LOG}(ALAB_MANUINCC(-1)/CPI(-1))) - 0.00140233451386*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(ARIZ_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*ARIZ_RTW - 0.0698661800269*D(\text{LOG}(ARIZ_MANUINCC(-1)/CPI(-1))) - 0.000714643212169*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(ARKA_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*ARKA_RTW - 0.0698661800269*D(\text{LOG}(ARKA_MANUINCC(-1)/CPI(-1))) - 0.0011620561266*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(CALI_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*CALI_RTW - 0.0698661800269*D(\text{LOG}(CALI_MANUINCC(-1)/CPI(-1))) - 0.00125180033142*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(COLO_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*COLO_RTW - 0.0698661800269*D(\text{LOG}(COLO_MANUINCC(-1)/CPI(-1))) - 0.00108228286643*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(CONN_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*CONN_RTW - 0.0698661800269*D(\text{LOG}(CONN_MANUINCC(-1)/CPI(-1))) - 0.001632302204*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(DELA_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*DELA_RTW - 0.0698661800269*D(\text{LOG}(DELA_MANUINCC(-1)/CPI(-1))) - 0.00154541730116*@TREND + [AR(1)=0.0929346745902]$$

$$D(\text{LOG}(DIST_MANUINC/CPI)) = 0.0927849583405 - 0.000197198170924*DIST_RTW - 0.0698661800269*D(\text{LOG}(DIST_MANUINCC(-1)/CPI(-1))) - 0.00163629293698*@TREND + [AR(1)=0.0929346745902]$$

$D(\text{LOG}(\text{FLOR_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{FLOR_RTW} - 0.0698661800269 * D(\text{LOG}(\text{FLOR_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00107214886197 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{GEOR_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{GEOR_RTW} - 0.0698661800269 * D(\text{LOG}(\text{GEOR_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00123418952845 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{IDAH_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{IDAH_RTW} - 0.0698661800269 * D(\text{LOG}(\text{IDAH_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00111428936706 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{ILLI_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{ILLI_RTW} - 0.0698661800269 * D(\text{LOG}(\text{ILLI_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00167231827522 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{INDI_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{INDI_RTW} - 0.0698661800269 * D(\text{LOG}(\text{INDI_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00155710159199 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{IOWA_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{IOWA_RTW} - 0.0698661800269 * D(\text{LOG}(\text{IOWA_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00145878599775 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{KANS_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{KANS_RTW} - 0.0698661800269 * D(\text{LOG}(\text{KANS_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00132088147426 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{KENT_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{KENT_RTW} - 0.0698661800269 * D(\text{LOG}(\text{KENT_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00129647386437 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{LOUI_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{LOUI_RTW} - 0.0698661800269 * D(\text{LOG}(\text{LOUI_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00142202679037 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MAIN_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MAIN_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MAIN_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00164459112837 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MARY_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MARY_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MARY_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00163244140957 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MASS_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MASS_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MASS_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00163763494674 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MICH_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MICH_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MICH_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00157737840195 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MINN_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MINN_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MINN_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00127021875571 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MISS_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MISS_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MISS_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00127821689501 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MISO_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MISO_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MISO_MANUINCC}(-1)/\text{CPI}(-1))) - 0.0015643347235 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{MONT_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{MONT_RTW} - 0.0698661800269 * D(\text{LOG}(\text{MONT_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00154846325166 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NEBR_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NEBR_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NEBR_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00132713211408 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NEVA_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NEVA_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NEVA_MANUINCC}(-1)/\text{CPI}(-1))) - 0.000596977021806 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NEWH_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NEWH_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NEWH_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00134157678897 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NEWJ_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NEWJ_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NEWJ_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00170487146606 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NEWM_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NEWM_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NEWM_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00103246145216 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NEWY_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NEWY_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NEWY_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00183146675466 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NORC_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NORC_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NORC_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00130084986442 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{NORD_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{NORD_RTW} - 0.0698661800269 * D(\text{LOG}(\text{NORD_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00106286903008 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{OHIO_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{OHIO_RTW} - 0.0698661800269 * D(\text{LOG}(\text{OHIO_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00168109764091 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{OKLA_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{OKLA_RTW} - 0.0698661800269 * D(\text{LOG}(\text{OKLA_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00122373044352 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{OREG_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{OREG_RTW} - 0.0698661800269 * D(\text{LOG}(\text{OREG_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00134016463783 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{PENN_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{PENN_RTW} - 0.0698661800269 * D(\text{LOG}(\text{PENN_MANUINCC}(-1)/\text{CPI}(-1))) - 0.0017287021793 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{RHOD_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{RHOD_RTW} - 0.0698661800269 * D(\text{LOG}(\text{RHOD_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00183242664434 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{SOU C_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{SOU C_RTW} - 0.0698661800269 * D(\text{LOG}(\text{SOU C_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00135511765809 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{SOU D_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{SOU D_RTW} - 0.0698661800269 * D(\text{LOG}(\text{SOU D_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00104964943175 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{TENN_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{TENN_RTW} - 0.0698661800269 * D(\text{LOG}(\text{TENN_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00131919468213 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{TEXA_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{TEXA_RTW} - 0.0698661800269 * D(\text{LOG}(\text{TEXA_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00110792776663 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{UTAH_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{UTAH_RTW} - 0.0698661800269 * D(\text{LOG}(\text{UTAH_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00105245141167 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{VERM_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{VERM_RTW} - 0.0698661800269 * D(\text{LOG}(\text{VERM_MANUINCC}(-1)/\text{CPI}(-1))) - 0.0014018436896 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{VIRG_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{VIRG_RTW} - 0.0698661800269 * D(\text{LOG}(\text{VIRG_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00134304164082 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{WASH_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{WASH_RTW} - 0.0698661800269 * D(\text{LOG}(\text{WASH_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00132588998031 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{WEST_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{WEST_RTW} - 0.0698661800269 * D(\text{LOG}(\text{WEST_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00183347663033 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{WISC_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{WISC_RTW} - 0.0698661800269 * D(\text{LOG}(\text{WISC_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00148766751714 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

$D(\text{LOG}(\text{WYOM_MANUINC}/\text{CPI})) = 0.0927849583405 - 0.000197198170924 * \text{WYOM_RTW} - 0.0698661800269 * D(\text{LOG}(\text{WYOM_MANUINCC}(-1)/\text{CPI}(-1))) - 0.00136196516088 * @\text{TREND} + [\text{AR}(1)=0.0929346745902]$

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$D(\text{LOG}(\text{ALAB_MANEMP})) = 0.0312719829799 + 0.991614763678 + 0.015019065426 * \text{ALAB_RTW} - 0.0775036441832 * (\text{LOG}(\text{ALAB_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

$D(\text{LOG}(\text{ARIZ_MANEMP})) = -0.00658959080611 + 0.991614763678 + 0.015019065426 * \text{ARIZ_RTW} - 0.0775036441832 * (\text{LOG}(\text{ARIZ_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

$D(\text{LOG}(\text{ARKA_MANEMP})) = 0.00257242471765 + 0.991614763678 + 0.015019065426 * \text{ARKA_RTW} - 0.0775036441832 * (\text{LOG}(\text{ARKA_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

$D(\text{LOG}(\text{CALI_MANEMP})) = 0.180873730175 + 0.991614763678 + 0.015019065426 * \text{CALI_RTW} - 0.0775036441832 * (\text{LOG}(\text{CALI_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

$D(\text{LOG}(\text{COLO_MANEMP})) = 0.0072562881938 + 0.991614763678 + 0.015019065426 * \text{COLO_RTW} - 0.0775036441832 * (\text{LOG}(\text{COLO_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

D(LOG(CONN_MANEMP)) = 0.0273082654867 + 0.991614763678 + 0.015019065426*CONN_RTW - 0.0775036441832*(LOG(CONN_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(DELA_MANEMP)) = -0.0934639063899 + 0.991614763678 + 0.015019065426*DELA_RTW - 0.0775036441832*(LOG(DELA_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(DIST_MANEMP)) = -0.214800020889 + 0.991614763678 + 0.015019065426*DIST_RTW - 0.0775036441832*(LOG(DIST_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(FLOR_MANEMP)) = 0.0597787900254 + 0.991614763678 + 0.015019065426*FLOR_RTW - 0.0775036441832*(LOG(FLOR_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(GEOR_MANEMP)) = 0.0651542648543 + 0.991614763678 + 0.015019065426*GEOR_RTW - 0.0775036441832*(LOG(GEOR_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(IDAH_MANEMP)) = -0.0820327102421 + 0.991614763678 + 0.015019065426*IDAH_RTW - 0.0775036441832*(LOG(IDAH_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(ILLI_MANEMP)) = 0.115740701787 + 0.991614763678 + 0.015019065426*ILLI_RTW - 0.0775036441832*(LOG(ILLI_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(INDI_MANEMP)) = 0.088021475709 + 0.991614763678 + 0.015019065426*INDI_RTW - 0.0775036441832*(LOG(INDI_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(IOWA_MANEMP)) = 0.000897394373613 + 0.991614763678 + 0.015019065426*IOWA_RTW - 0.0775036441832*(LOG(IOWA_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(KANS_MANEMP)) = -0.0102985242766 + 0.991614763678 + 0.015019065426*KANS_RTW - 0.0775036441832*(LOG(KANS_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(KENT_MANEMP)) = 0.0313857459355 + 0.991614763678 + 0.015019065426*KENT_RTW - 0.0775036441832*(LOG(KENT_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(LOUI_MANEMP)) = -0.0169529681489 + 0.991614763678 + 0.015019065426*LOUI_RTW - 0.0775036441832*(LOG(LOUI_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MAIN_MANEMP)) = -0.0598114065864 + 0.991614763678 + 0.015019065426*MAIN_RTW - 0.0775036441832*(LOG(MAIN_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MARY_MANEMP)) = -0.00863066608382 + 0.991614763678 + 0.015019065426*MARY_RTW - 0.0775036441832*(LOG(MARY_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MASS_MANEMP)) = 0.0651914632956 + 0.991614763678 + 0.015019065426*MASS_RTW - 0.0775036441832*(LOG(MASS_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MICH_MANEMP)) = 0.118140526977 + 0.991614763678 + 0.015019065426*MICH_RTW - 0.0775036441832*(LOG(MICH_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MINN_MANEMP)) = 0.0582563977665 + 0.991614763678 + 0.015019065426*MINN_RTW - 0.0775036441832*(LOG(MINN_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MISS_MANEMP)) = -0.00150886801433 + 0.991614763678 + 0.015019065426*MISS_RTW - 0.0775036441832*(LOG(MISS_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MISO_MANEMP)) = 0.0528370224324 + 0.991614763678 + 0.015019065426*MISO_RTW - 0.0775036441832*(LOG(MISO_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(MONT_MANEMP)) = -0.157139500259 + 0.991614763678 + 0.015019065426*MONT_RTW - 0.0775036441832*(LOG(MONT_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NEBR_MANEMP)) = -0.0615527280576 + 0.991614763678 + 0.015019065426*NEBR_RTW - 0.0775036441832*(LOG(NEBR_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NEVA_MANEMP)) = -0.130265565726 + 0.991614763678 + 0.015019065426*NEVA_RTW - 0.0775036441832*(LOG(NEVA_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NEWH_MANEMP)) = -0.0447745331069 + 0.991614763678 + 0.015019065426*NEWH_RTW - 0.0775036441832*(LOG(NEWH_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NEWJ_MANEMP)) = 0.0692604311691 + 0.991614763678 + 0.015019065426*NEWJ_RTW - 0.0775036441832*(LOG(NEWJ_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NEWM_MANEMP)) = -0.104445298114 + 0.991614763678 + 0.015019065426*NEWM_RTW - 0.0775036441832*(LOG(NEWM_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NEWY_MANEMP)) = 0.116713121672 + 0.991614763678 + 0.015019065426*NEWY_RTW - 0.0775036441832*(LOG(NEWY_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NORC_MANEMP)) = 0.0922374557214 + 0.991614763678 + 0.015019065426*NORC_RTW - 0.0775036441832*(LOG(NORC_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(NORD_MANEMP)) = -0.178221625344 + 0.991614763678 + 0.015019065426*NORD_RTW - 0.0775036441832*(LOG(NORD_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(OHIO_MANEMP)) = 0.125592409303 + 0.991614763678 + 0.015019065426*OHIO_RTW - 0.0775036441832*(LOG(OHIO_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(OKLA_MANEMP)) = -0.00601574169726 + 0.991614763678 + 0.015019065426*OKLA_RTW - 0.0775036441832*(LOG(OKLA_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(OREG_MANEMP)) = 0.0157138728699 + 0.991614763678 + 0.015019065426*OREG_RTW - 0.0775036441832*(LOG(OREG_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(PENN_MANEMP)) = 0.116625359248 + 0.991614763678 + 0.015019065426*PENN_RTW - 0.0775036441832*(LOG(PENN_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(RHOD_MANEMP)) = -0.0665669400193 + 0.991614763678 + 0.015019065426*RHOD_RTW - 0.0775036441832*(LOG(RHOD_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(SOUC_MANEMP)) = 0.0293914724207 + 0.991614763678 + 0.015019065426*SOUC_RTW - 0.0775036441832*(LOG(SOUC_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(SOUD_MANEMP)) = -0.127855240874 + 0.991614763678 + 0.015019065426*SOUD_RTW - 0.0775036441832*(LOG(SOUD_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(TENN_MANEMP)) = 0.0559979086608 + 0.991614763678 + 0.015019065426*TENN_RTW - 0.0775036441832*(LOG(TENN_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(TEXA_MANEMP)) = 0.12825559011 + 0.991614763678 + 0.015019065426*TEXA_RTW - 0.0775036441832*(LOG(TEXA_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(UTAH_MANEMP)) = -0.0477476374071 + 0.991614763678 + 0.015019065426*UTAH_RTW - 0.0775036441832*(LOG(UTAH_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(VERM_MANEMP)) = -0.103462616439 + 0.991614763678 + 0.015019065426*VERM_RTW - 0.0775036441832*(LOG(VERM_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(VIRG_MANEMP)) = 0.0398075976323 + 0.991614763678 + 0.015019065426*VIRG_RTW - 0.0775036441832*(LOG(VIRG_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

D(LOG(WASH_MANEMP)) = 0.04629677972 + 0.991614763678 + 0.015019065426*WASH_RTW - 0.0775036441832*(LOG(WASH_MANEMP(-1))) - 0.000751679054278*@TREND + [AR(1)=0.273311357078]

$D(\text{LOG}(\text{WEST_MANEMP})) = -0.0702252448688 + 0.991614763678 + 0.015019065426 * \text{WEST_RTW} - 0.0775036441832 * (\text{LOG}(\text{WEST_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

$D(\text{LOG}(\text{WISC_MANEMP})) = 0.0821643134212 + 0.991614763678 + 0.015019065426 * \text{WISC_RTW} - 0.0775036441832 * (\text{LOG}(\text{WISC_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

$D(\text{LOG}(\text{WYOM_MANEMP})) = -0.230381453307 + 0.991614763678 + 0.015019065426 * \text{WYOM_RTW} - 0.0775036441832 * (\text{LOG}(\text{WYOM_MANEMP}(-1))) - 0.000751679054278 * @\text{TREND} + [\text{AR}(1)=0.273311357078]$

Manufacturing Wages

$D(\text{LOG}((\text{ALAB_MANUINC}/\text{CPI})/\text{ALAB_MANEMP})) = -0.00455943375388 + 0.0300882564997 + 0.00780778612247 * \text{ALAB_RTW} + 2571.60807544 * D(\text{LOG}(\text{ALAB_MANUINCC}(-1)/\text{CPI}(-1))/\text{ALAB_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{ARIZ_MANUINC}/\text{CPI})/\text{ARIZ_MANEMP})) = -0.00235415101613 + 0.0300882564997 + 0.00780778612247 * \text{ARIZ_RTW} + 2571.60807544 * D(\text{LOG}(\text{ARIZ_MANUINCC}(-1)/\text{CPI}(-1))/\text{ARIZ_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{ARKA_MANUINC}/\text{CPI})/\text{ARKA_MANEMP})) = -0.00524008526482 + 0.0300882564997 + 0.00780778612247 * \text{ARKA_RTW} + 2571.60807544 * D(\text{LOG}(\text{ARKA_MANUINCC}(-1)/\text{CPI}(-1))/\text{ARKA_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{CALI_MANUINC}/\text{CPI})/\text{CALI_MANEMP})) = 0.000902434322533 + 0.0300882564997 + 0.00780778612247 * \text{CALI_RTW} + 2571.60807544 * D(\text{LOG}(\text{CALI_MANUINCC}(-1)/\text{CPI}(-1))/\text{CALI_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{COLO_MANUINC}/\text{CPI})/\text{COLO_MANEMP})) = 0.00170620051955 + 0.0300882564997 + 0.00780778612247 * \text{COLO_RTW} + 2571.60807544 * D(\text{LOG}(\text{COLO_MANUINCC}(-1)/\text{CPI}(-1))/\text{COLO_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{CONN_MANUINC}/\text{CPI})/\text{CONN_MANEMP})) = 0.00856581893943 + 0.0300882564997 + 0.00780778612247 * \text{CONN_RTW} + 2571.60807544 * D(\text{LOG}(\text{CONN_MANUINCC}(-1)/\text{CPI}(-1))/\text{CONN_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{DELA_MANUINC}/\text{CPI})/\text{DELA_MANEMP})) = 0.00121442517093 + 0.0300882564997 + 0.00780778612247 * \text{DELA_RTW} + 2571.60807544 * D(\text{LOG}(\text{DELA_MANUINCC}(-1)/\text{CPI}(-1))/\text{DELA_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{DIST_MANUINC}/\text{CPI})/\text{DIST_MANEMP})) = 0.00241187504883 + 0.0300882564997 + 0.00780778612247 * \text{DIST_RTW} + 2571.60807544 * D(\text{LOG}(\text{DIST_MANUINCC}(-1)/\text{CPI}(-1))/\text{DIST_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{FLOR_MANUINC}/\text{CPI})/\text{FLOR_MANEMP})) = -0.00386478365841 + 0.0300882564997 + 0.00780778612247 * \text{FLOR_RTW} + 2571.60807544 * D(\text{LOG}(\text{FLOR_MANUINCC}(-1)/\text{CPI}(-1))/\text{FLOR_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{GEOR_MANUINC}/\text{CPI})/\text{GEOR_MANEMP})) = -0.000412601019951 + 0.0300882564997 + 0.00780778612247 * \text{GEOR_RTW} + 2571.60807544 * D(\text{LOG}(\text{GEOR_MANUINCC}(-1)/\text{CPI}(-1))/\text{GEOR_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{IDAH_MANUINC}/\text{CPI})/\text{IDAH_MANEMP})) = -0.00127231969421 + 0.0300882564997 + 0.00780778612247 * \text{IDAH_RTW} + 2571.60807544 * D(\text{LOG}(\text{IDAH_MANUINCC}(-1)/\text{CPI}(-1))/\text{IDAH_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{ILLI_MANUINC}/\text{CPI})/\text{ILLI_MANEMP})) = 9.53735191855e-05 + 0.0300882564997 + 0.00780778612247 * \text{ILLI_RTW} + 2571.60807544 * D(\text{LOG}(\text{ILLI_MANUINCC}(-1)/\text{CPI}(-1))/\text{ILLI_MANEMP}(-1)) - 0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{INDI_MANUINC}/\text{CPI})/\text{INDI_MANEMP})) = -0.00273044976887 + 0.0300882564997 +$
 $0.00780778612247 * \text{INDI_RTW} + 2571.60807544 * D(\text{LOG}(\text{INDI_MANUINCC}(-1)/\text{CPI}(-1))/\text{INDI_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{IOWA_MANUINC}/\text{CPI})/\text{IOWA_MANEMP})) = -0.0106093579347 + 0.0300882564997 +$
 $0.00780778612247 * \text{IOWA_RTW} + 2571.60807544 * D(\text{LOG}(\text{IOWA_MANUINCC}(-1)/\text{CPI}(-1))/\text{IOWA_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{KANS_MANUINC}/\text{CPI})/\text{KANS_MANEMP})) = -0.0062429916945 + 0.0300882564997 +$
 $0.00780778612247 * \text{KANS_RTW} + 2571.60807544 * D(\text{LOG}(\text{KANS_MANUINCC}(-1)/\text{CPI}(-1))/\text{KANS_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{KENT_MANUINC}/\text{CPI})/\text{KENT_MANEMP})) = 0.000172340922059 + 0.0300882564997 +$
 $0.00780778612247 * \text{KENT_RTW} + 2571.60807544 * D(\text{LOG}(\text{KENT_MANUINCC}(-1)/\text{CPI}(-1))/\text{KENT_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{LOUI_MANUINC}/\text{CPI})/\text{LOUI_MANEMP})) = -0.00401673076718 + 0.0300882564997 +$
 $0.00780778612247 * \text{LOUI_RTW} + 2571.60807544 * D(\text{LOG}(\text{LOUI_MANUINCC}(-1)/\text{CPI}(-1))/\text{LOUI_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MAIN_MANUINC}/\text{CPI})/\text{MAIN_MANEMP})) = 0.00137533666241 + 0.0300882564997 +$
 $0.00780778612247 * \text{MAIN_RTW} + 2571.60807544 * D(\text{LOG}(\text{MAIN_MANUINCC}(-1)/\text{CPI}(-1))/\text{MAIN_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MARY_MANUINC}/\text{CPI})/\text{MARY_MANEMP})) = 0.00295081884035 + 0.0300882564997 +$
 $0.00780778612247 * \text{MARY_RTW} + 2571.60807544 * D(\text{LOG}(\text{MARY_MANUINCC}(-1)/\text{CPI}(-1))/\text{MARY_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MASS_MANUINC}/\text{CPI})/\text{MASS_MANEMP})) = 0.00822143832123 + 0.0300882564997 +$
 $0.00780778612247 * \text{MASS_RTW} + 2571.60807544 * D(\text{LOG}(\text{MASS_MANUINCC}(-1)/\text{CPI}(-1))/\text{MASS_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MICH_MANUINC}/\text{CPI})/\text{MICH_MANEMP})) = -0.000335986336128 + 0.0300882564997 +$
 $0.00780778612247 * \text{MICH_RTW} + 2571.60807544 * D(\text{LOG}(\text{MICH_MANUINCC}(-1)/\text{CPI}(-1))/\text{MICH_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MINN_MANUINC}/\text{CPI})/\text{MINN_MANEMP})) = 0.000174788597178 + 0.0300882564997 +$
 $0.00780778612247 * \text{MINN_RTW} + 2571.60807544 * D(\text{LOG}(\text{MINN_MANUINCC}(-1)/\text{CPI}(-1))/\text{MINN_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MISS_MANUINC}/\text{CPI})/\text{MISS_MANEMP})) = -0.00473920828041 + 0.0300882564997 +$
 $0.00780778612247 * \text{MISS_RTW} + 2571.60807544 * D(\text{LOG}(\text{MISS_MANUINCC}(-1)/\text{CPI}(-1))/\text{MISS_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MISO_MANUINC}/\text{CPI})/\text{MISO_MANEMP})) = -0.00159697327396 + 0.0300882564997 +$
 $0.00780778612247 * \text{MISO_RTW} + 2571.60807544 * D(\text{LOG}(\text{MISO_MANUINCC}(-1)/\text{CPI}(-1))/\text{MISO_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{MONT_MANUINC}/\text{CPI})/\text{MONT_MANEMP})) = -0.00814130597915 + 0.0300882564997 +$
 $0.00780778612247 * \text{MONT_RTW} + 2571.60807544 * D(\text{LOG}(\text{MONT_MANUINCC}(-1)/\text{CPI}(-1))/\text{MONT_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NEBR_MANUINC}/\text{CPI})/\text{NEBR_MANEMP})) = -0.00824166939845 + 0.0300882564997 +$
 $0.00780778612247 * \text{NEBR_RTW} + 2571.60807544 * D(\text{LOG}(\text{NEBR_MANUINCC}(-1)/\text{CPI}(-1))/\text{NEBR_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NEVA_MANUINC}/\text{CPI})/\text{NEVA_MANEMP})) = 0.0107793317738 + 0.0300882564997 +$
 $0.00780778612247 * \text{NEVA_RTW} + 2571.60807544 * D(\text{LOG}(\text{NEVA_MANUINCC}(-1)/\text{CPI}(-1))/\text{NEVA_MANEMP}(-1)) -$
 $0.000336470262159 * @\text{TREND} + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NEWH_MANUINC}/\text{CPI})/\text{NEWH_MANEMP})) = 0.00828025343452 + 0.0300882564997 +$
 $0.00780778612247*\text{NEWH_RTW} + 2571.60807544*D(\text{LOG}(\text{NEWH_MANUINCC}(-1)/\text{CPI}(-1)))/\text{NEWH_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NEWJ_MANUINC}/\text{CPI})/\text{NEWJ_MANEMP})) = 0.00641204834349 + 0.0300882564997 +$
 $0.00780778612247*\text{NEWJ_RTW} + 2571.60807544*D(\text{LOG}(\text{NEWJ_MANUINCC}(-1)/\text{CPI}(-1)))/\text{NEWJ_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NEWM_MANUINC}/\text{CPI})/\text{NEWM_MANEMP})) = 0.00924482039693 + 0.0300882564997 +$
 $0.00780778612247*\text{NEWM_RTW} + 2571.60807544*D(\text{LOG}(\text{NEWM_MANUINCC}(-1)/\text{CPI}(-1)))/\text{NEWM_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NEWY_MANUINC}/\text{CPI})/\text{NEWY_MANEMP})) = 0.00407177896459 + 0.0300882564997 +$
 $0.00780778612247*\text{NEWY_RTW} + 2571.60807544*D(\text{LOG}(\text{NEWY_MANUINCC}(-1)/\text{CPI}(-1)))/\text{NEWY_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NORC_MANUINC}/\text{CPI})/\text{NORC_MANEMP})) = 0.00133719729859 + 0.0300882564997 +$
 $0.00780778612247*\text{NORC_RTW} + 2571.60807544*D(\text{LOG}(\text{NORC_MANUINCC}(-1)/\text{CPI}(-1)))/\text{NORC_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{NORD_MANUINC}/\text{CPI})/\text{NORD_MANEMP})) = 0.00216979163554 + 0.0300882564997 +$
 $0.00780778612247*\text{NORD_RTW} + 2571.60807544*D(\text{LOG}(\text{NORD_MANUINCC}(-1)/\text{CPI}(-1)))/\text{NORD_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{OHIO_MANUINC}/\text{CPI})/\text{OHIO_MANEMP})) = -0.00271871979213 + 0.0300882564997 +$
 $0.00780778612247*\text{OHIO_RTW} + 2571.60807544*D(\text{LOG}(\text{OHIO_MANUINCC}(-1)/\text{CPI}(-1)))/\text{OHIO_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{OKLA_MANUINC}/\text{CPI})/\text{OKLA_MANEMP})) = 0.00361952529038 + 0.0300882564997 +$
 $0.00780778612247*\text{OKLA_RTW} + 2571.60807544*D(\text{LOG}(\text{OKLA_MANUINCC}(-1)/\text{CPI}(-1)))/\text{OKLA_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{OREG_MANUINC}/\text{CPI})/\text{OREG_MANEMP})) = -0.000873366948123 + 0.0300882564997 +$
 $0.00780778612247*\text{OREG_RTW} + 2571.60807544*D(\text{LOG}(\text{OREG_MANUINCC}(-1)/\text{CPI}(-1)))/\text{OREG_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{PENN_MANUINC}/\text{CPI})/\text{PENN_MANEMP})) = 0.00331036325951 + 0.0300882564997 +$
 $0.00780778612247*\text{PENN_RTW} + 2571.60807544*D(\text{LOG}(\text{PENN_MANUINCC}(-1)/\text{CPI}(-1)))/\text{PENN_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{RHOD_MANUINC}/\text{CPI})/\text{RHOD_MANEMP})) = 0.00038557182672 + 0.0300882564997 +$
 $0.00780778612247*\text{RHOD_RTW} + 2571.60807544*D(\text{LOG}(\text{RHOD_MANUINCC}(-1)/\text{CPI}(-1)))/\text{RHOD_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{SOUC_MANUINC}/\text{CPI})/\text{SOUC_MANEMP})) = 0.000422277079717 + 0.0300882564997 +$
 $0.00780778612247*\text{SOUC_RTW} + 2571.60807544*D(\text{LOG}(\text{SOUC_MANUINCC}(-1)/\text{CPI}(-1)))/\text{SOUC_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{SODU_MANUINC}/\text{CPI})/\text{SODU_MANEMP})) = -0.000672733551147 + 0.0300882564997 +$
 $0.00780778612247*\text{SODU_RTW} + 2571.60807544*D(\text{LOG}(\text{SODU_MANUINCC}(-1)/\text{CPI}(-1)))/\text{SODU_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{TENN_MANUINC}/\text{CPI})/\text{TENN_MANEMP})) = -0.00124587943004 + 0.0300882564997 +$
 $0.00780778612247*\text{TENN_RTW} + 2571.60807544*D(\text{LOG}(\text{TENN_MANUINCC}(-1)/\text{CPI}(-1)))/\text{TENN_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{TEXA_MANUINC}/\text{CPI})/\text{TEXA_MANEMP})) = 0.00428519673856 + 0.0300882564997 +$
 $0.00780778612247*\text{TEXA_RTW} + 2571.60807544*D(\text{LOG}(\text{TEXA_MANUINCC}(-1)/\text{CPI}(-1)))/\text{TEXA_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{UTAH_MANUINC}/\text{CPI})/\text{UTAH_MANEMP})) = -0.00493846928619 + 0.0300882564997 +$
 $0.00780778612247*\text{UTAH_RTW} + 2571.60807544*D(\text{LOG}(\text{UTAH_MANUINCC}(-1)/\text{CPI}(-1))/\text{UTAH_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{VERM_MANUINC}/\text{CPI})/\text{VERM_MANEMP})) = 0.00132243565877 + 0.0300882564997 +$
 $0.00780778612247*\text{VERM_RTW} + 2571.60807544*D(\text{LOG}(\text{VERM_MANUINCC}(-1)/\text{CPI}(-1))/\text{VERM_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{VIRG_MANUINC}/\text{CPI})/\text{VIRG_MANEMP})) = 2.66010251678e-05 + 0.0300882564997 +$
 $0.00780778612247*\text{VIRG_RTW} + 2571.60807544*D(\text{LOG}(\text{VIRG_MANUINCC}(-1)/\text{CPI}(-1))/\text{VIRG_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{WASH_MANUINC}/\text{CPI})/\text{WASH_MANEMP})) = -0.000929131830181 + 0.0300882564997 +$
 $0.00780778612247*\text{WASH_RTW} + 2571.60807544*D(\text{LOG}(\text{WASH_MANUINCC}(-1)/\text{CPI}(-1))/\text{WASH_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{WEST_MANUINC}/\text{CPI})/\text{WEST_MANEMP})) = -0.00464175215609 + 0.0300882564997 +$
 $0.00780778612247*\text{WEST_RTW} + 2571.60807544*D(\text{LOG}(\text{WEST_MANUINCC}(-1)/\text{CPI}(-1))/\text{WEST_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{WISC_MANUINC}/\text{CPI})/\text{WISC_MANEMP})) = -0.00437505057761 + 0.0300882564997 +$
 $0.00780778612247*\text{WISC_RTW} + 2571.60807544*D(\text{LOG}(\text{WISC_MANUINCC}(-1)/\text{CPI}(-1))/\text{WISC_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

$D(\text{LOG}((\text{WYOM_MANUINC}/\text{CPI})/\text{WYOM_MANEMP})) = 0.00129510782203 + 0.0300882564997 +$
 $0.00780778612247*\text{WYOM_RTW} + 2571.60807544*D(\text{LOG}(\text{WYOM_MANUINCC}(-1)/\text{CPI}(-1))/\text{WYOM_MANEMP}(-1)) -$
 $0.000336470262159*@TREND + [\text{AR}(1)=0.354476895014]$

First Stage Test (endogeneity correction)

$D((\text{ALAB_MANUINC}/\text{ALAB_PI})) = -8.57787055312e-05 + 0.00896252071977 +$
 $0.00034683271925*\text{ALAB_RTWCONFEDENDOG} - 0.000310602061089*(\text{ALAB_PERUNION}) +$
 $0.064084492566*D((\text{ALAB_MANUINCC}(-1)/\text{ALAB_PIC}(-1))) - 0.000125737633855*@TREND +$
 $[\text{AR}(1)=0.0775414611762]$

$D((\text{ARIZ_MANUINC}/\text{ARIZ_PI})) = -0.00243813779726 + 0.00896252071977 +$
 $0.00034683271925*\text{ARIZ_RTWCONFEDENDOG} - 0.000310602061089*(\text{ARIZ_PERUNION}) +$
 $0.064084492566*D((\text{ARIZ_MANUINCC}(-1)/\text{ARIZ_PIC}(-1))) - 8.54907760901e-05*@TREND +$
 $[\text{AR}(1)=0.0775414611762]$

$D((\text{ARKA_MANUINC}/\text{ARKA_PI})) = -0.000630212850566 + 0.00896252071977 +$
 $0.00034683271925*\text{ARKA_RTWCONFEDENDOG} - 0.000310602061089*(\text{ARKA_PERUNION}) +$
 $0.064084492566*D((\text{ARKA_MANUINCC}(-1)/\text{ARKA_PIC}(-1))) - 0.00012045898783*@TREND +$
 $[\text{AR}(1)=0.0775414611762]$

$D((\text{CALI_MANUINC}/\text{CALI_PI})) = -0.00137672984539 + 0.00896252071977 +$
 $0.00034683271925*\text{CALI_RTWCONFEDENDOG} - 0.000310602061089*(\text{CALI_PERUNION}) +$
 $0.064084492566*D((\text{CALI_MANUINCC}(-1)/\text{CALI_PIC}(-1))) - 5.41561499426e-05*@TREND +$
 $[\text{AR}(1)=0.0775414611762]$

$D((\text{COLO_MANUINC}/\text{COLO_PI})) = 0.00386141737835 + 0.00896252071977 +$
 $0.00034683271925*\text{COLO_RTWCONFEDENDOG} - 0.000310602061089*(\text{COLO_PERUNION}) +$
 $0.064084492566*D((\text{COLO_MANUINCC}(-1)/\text{COLO_PIC}(-1))) - 0.000180609113478*@TREND +$
 $[\text{AR}(1)=0.0775414611762]$

$D((\text{CONN_MANUINC}/\text{CONN_PI})) = -0.00522148215065 + 0.00896252071977 +$
 $0.00034683271925*\text{CONN_RTWCONFEDENDOG} - 0.000310602061089*(\text{CONN_PERUNION}) +$

0.064084492566*D((CONN_MANUINCC(-1)/CONN_PIC(-1))) - 3.71629277936e-05*@TREND + [AR(1)=0.0775414611762]

D((DELA_MANUINC/DELA_PI)) = 0.0161939373963 + 0.00896252071977 + 0.00034683271925*DELA_RTWCONFEDENDOG - 0.000310602061089*(DELA_PERUNION) + 0.064084492566*D((DELA_MANUINCC(-1)/DELA_PIC(-1))) - 0.000426022895351*@TREND + [AR(1)=0.0775414611762]

D((DIST_MANUINC/DIST_PI)) = -0.000238218958881 + 0.00896252071977 + 0.00034683271925*DIST_RTWCONFEDENDOG - 0.000310602061089*(DIST_PERUNION) + 0.064084492566*D((DIST_MANUINCC(-1)/DIST_PIC(-1))) - 6.76993237786e-05*@TREND + [AR(1)=0.0775414611762]

D((FLOR_MANUINC/FLOR_PI)) = -0.00546369927856 + 0.00896252071977 + 0.00034683271925*FLOR_RTWCONFEDENDOG - 0.000310602061089*(FLOR_PERUNION) + 0.064084492566*D((FLOR_MANUINCC(-1)/FLOR_PIC(-1))) - 3.74565501344e-05*@TREND + [AR(1)=0.0775414611762]

D((GEOR_MANUINC/GEOR_PI)) = -0.00943334427943 + 0.00896252071977 + 0.00034683271925*GEOR_RTWCONFEDENDOG - 0.000310602061089*(GEOR_PERUNION) + 0.064084492566*D((GEOR_MANUINCC(-1)/GEOR_PIC(-1))) - 1.11256470236e-06*@TREND + [AR(1)=0.0775414611762]

D((IDAH_MANUINC/IDAH_PI)) = 0.00878666551213 + 0.00896252071977 + 0.00034683271925*IDAH_RTWCONFEDENDOG - 0.000310602061089*(IDAH_PERUNION) + 0.064084492566*D((IDAH_MANUINCC(-1)/IDAH_PIC(-1))) - 0.000245429501246*@TREND + [AR(1)=0.0775414611762]

D((ILLI_MANUINC/ILLI_PI)) = -0.00456762255683 + 0.00896252071977 + 0.00034683271925*ILLI_RTWCONFEDENDOG - 0.000310602061089*(ILLI_PERUNION) + 0.064084492566*D((ILLI_MANUINCC(-1)/ILLI_PIC(-1))) - 1.44213199469e-05*@TREND + [AR(1)=0.0775414611762]

D((INDI_MANUINC/INDI_PI)) = 0.00330849529599 + 0.00896252071977 + 0.00034683271925*INDI_RTWCONFEDENDOG - 0.000310602061089*(INDI_PERUNION) + 0.064084492566*D((INDI_MANUINCC(-1)/INDI_PIC(-1))) - 0.000158495219226*@TREND + [AR(1)=0.0775414611762]

D((IOWA_MANUINC/IOWA_PI)) = 0.00619172166609 + 0.00896252071977 + 0.00034683271925*IOWA_RTWCONFEDENDOG - 0.000310602061089*(IOWA_PERUNION) + 0.064084492566*D((IOWA_MANUINCC(-1)/IOWA_PIC(-1))) - 0.000188785246123*@TREND + [AR(1)=0.0775414611762]

D((KANS_MANUINC/KANS_PI)) = -0.000525577955557 + 0.00896252071977 + 0.00034683271925*KANS_RTWCONFEDENDOG - 0.000310602061089*(KANS_PERUNION) + 0.064084492566*D((KANS_MANUINCC(-1)/KANS_PIC(-1))) - 9.26849305288e-05*@TREND + [AR(1)=0.0775414611762]

D((KENT_MANUINC/KENT_PI)) = 0.00400715705455 + 0.00896252071977 + 0.00034683271925*KENT_RTWCONFEDENDOG - 0.000310602061089*(KENT_PERUNION) + 0.064084492566*D((KENT_MANUINCC(-1)/KENT_PIC(-1))) - 0.000152357136146*@TREND + [AR(1)=0.0775414611762]

D((LOUI_MANUINC/LOUI_PI)) = -0.000716999277305 + 0.00896252071977 + 0.00034683271925*LOUI_RTWCONFEDENDOG - 0.000310602061089*(LOUI_PERUNION) + 0.064084492566*D((LOUI_MANUINCC(-1)/LOUI_PIC(-1))) - 0.000115117172719*@TREND + [AR(1)=0.0775414611762]

D((MAIN_MANUINC/MAIN_PI)) = -0.0043359718708 + 0.00896252071977 + 0.00034683271925*MAIN_RTWCONFEDENDOG - 0.000310602061089*(MAIN_PERUNION) + 0.064084492566*D((MAIN_MANUINCC(-1)/MAIN_PIC(-1))) - 5.423700379e-05*@TREND + [AR(1)=0.0775414611762]

D((MARY_MANUINC/MARY_PI)) = -0.00737141421406 + 0.00896252071977 +
0.00034683271925*MARY_RTWCONFEDENDOG - 0.000310602061089*(MARY_PERUNION) +
0.064084492566*D((MARY_MANUINCC(-1)/MARY_PIC(-1))) + 3.13735728923e-05*@TREND +
[AR(1)=0.0775414611762]

D((MASS_MANUINC/MASS_PI)) = 0.00255231437076 + 0.00896252071977 +
0.00034683271925*MASS_RTWCONFEDENDOG - 0.000310602061089*(MASS_PERUNION) +
0.064084492566*D((MASS_MANUINCC(-1)/MASS_PIC(-1))) - 0.000152265968789*@TREND +
[AR(1)=0.0775414611762]

D((MICH_MANUINC/MICH_PI)) = 0.00579039648014 + 0.00896252071977 +
0.00034683271925*MICH_RTWCONFEDENDOG - 0.000310602061089*(MICH_PERUNION) +
0.064084492566*D((MICH_MANUINCC(-1)/MICH_PIC(-1))) - 0.000166569509326*@TREND +
[AR(1)=0.0775414611762]

D((MINN_MANUINC/MINN_PI)) = 0.00344985463016 + 0.00896252071977 +
0.00034683271925*MINN_RTWCONFEDENDOG - 0.000310602061089*(MINN_PERUNION) +
0.064084492566*D((MINN_MANUINCC(-1)/MINN_PIC(-1))) - 0.000119086744727*@TREND +
[AR(1)=0.0775414611762]

D((MISS_MANUINC/MISS_PI)) = 0.00529002508949 + 0.00896252071977 +
0.00034683271925*MISS_RTWCONFEDENDOG - 0.000310602061089*(MISS_PERUNION) +
0.064084492566*D((MISS_MANUINCC(-1)/MISS_PIC(-1))) - 0.000241830177676*@TREND +
[AR(1)=0.0775414611762]

D((MISO_MANUINC/MISO_PI)) = -0.00231854350638 + 0.00896252071977 +
0.00034683271925*MISO_RTWCONFEDENDOG - 0.000310602061089*(MISO_PERUNION) +
0.064084492566*D((MISO_MANUINCC(-1)/MISO_PIC(-1))) - 6.90961296205e-05*@TREND +
[AR(1)=0.0775414611762]

D((MONT_MANUINC/MONT_PI)) = 0.00350959897751 + 0.00896252071977 +
0.00034683271925*MONT_RTWCONFEDENDOG - 0.000310602061089*(MONT_PERUNION) +
0.064084492566*D((MONT_MANUINCC(-1)/MONT_PIC(-1))) - 0.000124211843603*@TREND +
[AR(1)=0.0775414611762]

D((NEBR_MANUINC/NEBR_PI)) = -0.00120193631873 + 0.00896252071977 +
0.00034683271925*NEBR_RTWCONFEDENDOG - 0.000310602061089*(NEBR_PERUNION) +
0.064084492566*D((NEBR_MANUINCC(-1)/NEBR_PIC(-1))) - 7.50996636401e-05*@TREND +
[AR(1)=0.0775414611762]

D((NEVA_MANUINC/NEVA_PI)) = 0.00703789159761 + 0.00896252071977 +
0.00034683271925*NEVA_RTWCONFEDENDOG - 0.000310602061089*(NEVA_PERUNION) +
0.064084492566*D((NEVA_MANUINCC(-1)/NEVA_PIC(-1))) - 0.000157914402368*@TREND +
[AR(1)=0.0775414611762]

D((NEWH_MANUINC/NEWH_PI)) = -0.00468997757991 + 0.00896252071977 +
0.00034683271925*NEWH_RTWCONFEDENDOG - 0.000310602061089*(NEWH_PERUNION) +
0.064084492566*D((NEWH_MANUINCC(-1)/NEWH_PIC(-1))) - 5.5991836909e-05*@TREND +
[AR(1)=0.0775414611762]

D((NEWJ_MANUINC/NEWJ_PI)) = -0.00328765272917 + 0.00896252071977 +
0.00034683271925*NEWJ_RTWCONFEDENDOG - 0.000310602061089*(NEWJ_PERUNION) +
0.064084492566*D((NEWJ_MANUINCC(-1)/NEWJ_PIC(-1))) - 3.66051216542e-05*@TREND +
[AR(1)=0.0775414611762]

D((NEWM_MANUINC/NEWM_PI)) = 0.00104876569239 + 0.00896252071977 +
0.00034683271925*NEWM_RTWCONFEDENDOG - 0.000310602061089*(NEWM_PERUNION) +
0.064084492566*D((NEWM_MANUINCC(-1)/NEWM_PIC(-1))) - 0.000110605774113*@TREND +
[AR(1)=0.0775414611762]

$D((NEWY_MANUINC/NEWY_PI)) = -0.00356817261142 + 0.00896252071977 + 0.00034683271925*NEWY_RTWCONFEDENDOG - 0.000310602061089*(NEWY_PERUNION) + 0.064084492566*D((NEWY_MANUINCC(-1)/NEWY_PIC(-1))) + 9.90512527032e-06*@TREND + [AR(1)=0.0775414611762]$

$D((NORC_MANUINC/NORC_PI)) = -0.00365592384688 + 0.00896252071977 + 0.00034683271925*NORC_RTWCONFEDENDOG - 0.000310602061089*(NORC_PERUNION) + 0.064084492566*D((NORC_MANUINCC(-1)/NORC_PIC(-1))) - 0.000133489293185*@TREND + [AR(1)=0.0775414611762]$

$D((NORD_MANUINC/NORD_PI)) = 0.000563917124625 + 0.00896252071977 + 0.00034683271925*NORD_RTWCONFEDENDOG - 0.000310602061089*(NORD_PERUNION) + 0.064084492566*D((NORD_MANUINCC(-1)/NORD_PIC(-1))) - 8.31544760922e-05*@TREND + [AR(1)=0.0775414611762]$

$D((OHIO_MANUINC/OHIO_PI)) = 0.00116535663705 + 0.00896252071977 + 0.00034683271925*OHIO_RTWCONFEDENDOG - 0.000310602061089*(OHIO_PERUNION) + 0.064084492566*D((OHIO_MANUINCC(-1)/OHIO_PIC(-1))) - 0.000125197995187*@TREND + [AR(1)=0.0775414611762]$

$D((OKLA_MANUINC/OKLA_PI)) = 0.00263796058352 + 0.00896252071977 + 0.00034683271925*OKLA_RTWCONFEDENDOG - 0.000310602061089*(OKLA_PERUNION) + 0.064084492566*D((OKLA_MANUINCC(-1)/OKLA_PIC(-1))) - 0.000149197896397*@TREND + [AR(1)=0.0775414611762]$

$D((OREG_MANUINC/OREG_PI)) = 0.000548208471372 + 0.00896252071977 + 0.00034683271925*OREG_RTWCONFEDENDOG - 0.000310602061089*(OREG_PERUNION) + 0.064084492566*D((OREG_MANUINCC(-1)/OREG_PIC(-1))) - 8.03675046019e-05*@TREND + [AR(1)=0.0775414611762]$

$D((PENN_MANUINC/PENN_PI)) = -0.00436945890829 + 0.00896252071977 + 0.00034683271925*PENN_RTWCONFEDENDOG - 0.000310602061089*(PENN_PERUNION) + 0.064084492566*D((PENN_MANUINCC(-1)/PENN_PIC(-1))) - 1.91325279237e-05*@TREND + [AR(1)=0.0775414611762]$

$D((RHOD_MANUINC/RHOD_PI)) = 0.00386344928299 + 0.00896252071977 + 0.00034683271925*RHOD_RTWCONFEDENDOG - 0.000310602061089*(RHOD_PERUNION) + 0.064084492566*D((RHOD_MANUINCC(-1)/RHOD_PIC(-1))) - 0.000185383382619*@TREND + [AR(1)=0.0775414611762]$

$D((SOUC_MANUINC/SOUC_PI)) = -0.00852468759715 + 0.00896252071977 + 0.00034683271925*SOUC_RTWCONFEDENDOG - 0.000310602061089*(SOUC_PERUNION) + 0.064084492566*D((SOUC_MANUINCC(-1)/SOUC_PIC(-1))) - 5.86617437778e-05*@TREND + [AR(1)=0.0775414611762]$

$D((Soud_MANUINC/Soud_PI)) = 0.0014625369219 + 0.00896252071977 + 0.00034683271925*Soud_RTWCONFEDENDOG - 0.000310602061089*(Soud_PERUNION) + 0.064084492566*D((Soud_MANUINCC(-1)/Soud_PIC(-1))) - 0.000106659947901*@TREND + [AR(1)=0.0775414611762]$

$D((TENN_MANUINC/TENN_PI)) = -0.00254575888475 + 0.00896252071977 + 0.00034683271925*TENN_RTWCONFEDENDOG - 0.000310602061089*(TENN_PERUNION) + 0.064084492566*D((TENN_MANUINCC(-1)/TENN_PIC(-1))) - 0.000102564016464*@TREND + [AR(1)=0.0775414611762]$

$D((TEXA_MANUINC/TEXA_PI)) = -0.00701666788131 + 0.00896252071977 + 0.00034683271925*TEXA_RTWCONFEDENDOG - 0.000310602061089*(TEXA_PERUNION) + 0.064084492566*D((TEXA_MANUINCC(-1)/TEXA_PIC(-1))) - 1.908417437e-05*@TREND + [AR(1)=0.0775414611762]$

$D((UTAH_MANUINC/UTAH_PI)) = 0.00765958276055 + 0.00896252071977 + 0.00034683271925*UTAH_RTWCONFEDENDOG - 0.000310602061089*(UTAH_PERUNION) +$

$0.064084492566 * D((UTAH_MANUINCC(-1)/UTAH_PIC(-1))) - 0.000234735014022 * @TREND + [AR(1)=0.0775414611762]$

$D((VERM_MANUINC/VERM_PI)) = -0.00631564226952 + 0.00896252071977 + 0.00034683271925 * VERM_RTWCONFEDENDOG - 0.000310602061089 * (VERM_PERUNION) + 0.064084492566 * D((VERM_MANUINCC(-1)/VERM_PIC(-1))) - 1.715477667e-05 * @TREND + [AR(1)=0.0775414611762]$

$D((VIRG_MANUINC/VIRG_PI)) = -0.00167880827877 + 0.00896252071977 + 0.00034683271925 * VIRG_RTWCONFEDENDOG - 0.000310602061089 * (VIRG_PERUNION) + 0.064084492566 * D((VIRG_MANUINCC(-1)/VIRG_PIC(-1))) - 0.000110858108828 * @TREND + [AR(1)=0.0775414611762]$

$D((WASH_MANUINC/WASH_PI)) = 0.00383652585731 + 0.00896252071977 + 0.00034683271925 * WASH_RTWCONFEDENDOG - 0.000310602061089 * (WASH_PERUNION) + 0.064084492566 * D((WASH_MANUINCC(-1)/WASH_PIC(-1))) - 0.000126468956059 * @TREND + [AR(1)=0.0775414611762]$

$D((WEST_MANUINC/WEST_PI)) = -0.00197533205186 + 0.00896252071977 + 0.00034683271925 * WEST_RTWCONFEDENDOG - 0.000310602061089 * (WEST_PERUNION) + 0.064084492566 * D((WEST_MANUINCC(-1)/WEST_PIC(-1))) - 6.09419252801e-05 * @TREND + [AR(1)=0.0775414611762]$

$D((WISC_MANUINC/WISC_PI)) = 0.00279283098924 + 0.00896252071977 + 0.00034683271925 * WISC_RTWCONFEDENDOG - 0.000310602061089 * (WISC_PERUNION) + 0.064084492566 * D((WISC_MANUINCC(-1)/WISC_PIC(-1))) - 0.000126037414673 * @TREND + [AR(1)=0.0775414611762]$

$D((WYOM_MANUINC/WYOM_PI)) = -0.00200485756505 + 0.00896252071977 + 0.00034683271925 * WYOM_RTWCONFEDENDOG - 0.000310602061089 * (WYOM_PERUNION) + 0.064084492566 * D((WYOM_MANUINCC(-1)/WYOM_PIC(-1))) - 5.30041764353e-05 * @TREND + [AR(1)=0.0775414611762]$

Error Correction Model -- Idaho

$D(\text{LOG}(\text{IDAH_MANUINC}/\text{CPI})) = -0.0526821730773 * (\text{LOG}(\text{IDAH_MANUINC}(-1)/\text{CPI}(-1)) - 1.76613146088 * \text{IDAH_RTWF}(-1) - 8.95744355141) + 0.164019923823 * D(\text{LOG}(\text{IDAH_MANUINC}(-1)/\text{CPI}(-1))) - 0.236701760791 * D(\text{LOG}(\text{IDAH_MANUINC}(-2)/\text{CPI}(-2))) - 0.159288949209 * D(\text{IDAH_RTWF}(-1)) - 0.0142444769065 * D(\text{IDAH_RTWF}(-2)) + 0.0557655120421$

$D(\text{IDAH_RTWF}) = 5.4923635237e-05 * (\text{LOG}(\text{IDAH_MANUINC}(-1)/\text{CPI}(-1)) - 1.76613146088 * \text{IDAH_RTWF}(-1) - 8.95744355141) + 0.0101301343514 * D(\text{LOG}(\text{IDAH_MANUINC}(-1)/\text{CPI}(-1))) + 0.00673689831656 * D(\text{LOG}(\text{IDAH_MANUINC}(-2)/\text{CPI}(-2))) - 0.0466047360325 * D(\text{IDAH_RTWF}(-1)) - 0.0453449096657 * D(\text{IDAH_RTWF}(-2)) + 0.00719624597467$