

APPENDIX C

EQUATION LISTING "VALLEY" 3-county model

V_EQSA:CPIUWEST
 Ordinary Least Squares
 ANNUAL data for 23 periods from 1985 to 2007
 Date: 11 SEP 2008

log(cpiuwest)

$$= \begin{matrix} 1.03000 & * & \log(\text{cpi}) & - & 0.00015 \\ (210.251) & & & & (0.06775) \end{matrix}$$

Sum Sq	0.0004	Std Err	0.0046	LHS Mean	0.4362
R Sq	0.9995	R Bar Sq	0.9995	F 1, 21	44205.3
D.W.(1)	0.4522	D.W.(2)	1.2074		

CPIUWEST=EXP(??)
 V_EQSA:DISC
 Ordinary Least Squares
 ANNUAL data for 47 periods from 1961 to 2007
 Date: 11 SEP 2008

disc

$$= \begin{matrix} 0.17783 & * & \text{disc}[-1] & + & 0.74153 & * & \text{ypd/yp} & + & 0.01234 & * & \text{spike}(75,1) \\ (2.50205) & & & & (10.8491) & & & & (3.51840) & & \end{matrix}$$

$$+ \begin{matrix} 0.07975 \\ (1.57908) \end{matrix}$$

Sum Sq	0.0005	Std Err	0.0034	LHS Mean	0.8900
R Sq	0.8823	R Bar Sq	0.8741	F 3, 43	107.424
D.W.(1)	0.9405	D.W.(2)	1.4648		
H	4.1134				

V_EQSA:PGAS
 Cochrane-Orcutt
 ANNUAL data for 44 periods from 1964 to 2007
 Date: 11 SEP 2008

pgas

$$= \begin{matrix} 0.01477 & * & \text{jpcnegao} & + & 0.02567 \\ (45.8526) & & & & (0.94516) \end{matrix}$$

Sum Sq	0.0688	Std Err	0.0410	LHS Mean	1.0267
R Sq	0.9954	R Bar Sq	0.9951	F 2, 41	4394.22
D.W.(1)	1.7744	D.W.(2)	2.0747		

$$\text{AR}_0 = + \begin{matrix} 0.56530 & * & \text{AR}_1 \\ (4.13989) & & \end{matrix}$$

V_EQSA:V_BIRTHS Births (000s), 3-county, total
 (Identity)

v_births

$$= \text{v_birthsnh} + \text{v_birthsh}$$

V_EQSA:V_BIRTHSH Births (000s), 3-county, to Hispanic mothers
 (Identity)

v_birthsh

$$= v_birthsh\&15+v_birthsh15_19+v_birthsh20_24+v_birthsh25_29+v_birthsh30_34+v_birthsh35_39+v_birthsh40_44+v_birthsh45\&$$

V_EQSA:V_BIRTHSH&15 Births (000s), 3-county, to Hispanic mothers, age less than 15

(Identity)

v_birthsh&15

$$= (v_popfh10_14)*v_brh\&15$$

V_EQSA:V_BIRTHSH15_19 Births (000s), 3-county, to Hispanic mothers, age 15_19

(Identity)

v_birthsh15_19

$$= v_popfh15_19*v_brh15_19$$

V_EQSA:V_BIRTHSH20_24 Births (000s), 3-county, to Hispanic mothers, age 20_24

(Identity)

v_birthsh20_24

$$= v_popfh20_24*v_brh20_24$$

V_EQSA:V_BIRTHSH25_29 Births (000s), 3-county, to Hispanic mothers, age 25_29

(Identity)

v_birthsh25_29

$$= v_popfh25_29*v_brh25_29$$

V_EQSA:V_BIRTHSH30_34 Births (000s), 3-county, to Hispanic mothers, age 30_34

(Identity)

v_birthsh30_34

$$= v_popfh30_34*v_brh30_34$$

V_EQSA:V_BIRTHSH35_39 Births (000s), 3-county, to Hispanic mothers, age 35_39

(Identity)

v_birthsh35_39

$$= v_popfh35_39*v_brh35_39$$

V_EQSA:V_BIRTHSH40_44 Births (000s), 3-county, to Hispanic mothers, age
40_4

(Identity)

v_birthsh40_44

$$= v_popfh40_44*v_brh40_44$$

V_EQSA:V_BIRTHSH45& Births (000s), 3-county, to Hispanic mothers, age 45
and

over

(Identity)

v_birthsh45&

$$= (v_popfh45_49+v_popfh50_54+v_popfh55_59+v_popfh60_64+v_popfh65_69+v_popfh70_74+v_popfh75_79+v_popfh80_84+v_popfh85\&)*v_brh45\&$$

V_EQSA:V_BIRTHSNH Births (000s), 3-county, to non-Hispanic mothers
(Identity)

v_birthsnh

$$= v_birthsnh\&15+v_birthsnh15_19+v_birthsnh20_24+v_birthsnh25_29+v_birthsnh30_34+v_birthsnh35_39+v_birthsnh40_44+v_birthsnh45\&$$

V_EQSA:V_BIRTHSNH&15 Births (000s), 3-county, to non-Hispanic mothers, age
1

less than 15

(Identity)

v_birthsnh&15

$$= (v_popfnh10_14)*v_brnh\&15$$

V_EQSA:V_BIRTHSNH15_19 Births (000s), 3-county, to non-Hispanic mothers,
age

15_19

(Identity)

v_birthsnh15_19

$$= v_popfnh15_19*v_brnh15_19$$

V_EQSA:V_BIRTHSNH20_24 Births (000s), 3-county, to non-Hispanic mothers,
age

20_24

(Identity)

v_birthsnh20_24

$$= v_popfnh20_24*v_brnh20_24$$

V_EQSA:V_BIRTHSNH25_29 Births (000s), 3-county, to non-Hispanic mothers,
age

25_29

(Identity)

v_birthsnh25_29

$$= v_popfnh25_29*v_brnh25_29$$

V_EQSA:V_BIRTHSNH30_34 Births (000s), 3-county, to non-Hispanic mothers,
age

30_34

(Identity)

v_birthsnh30_34

$$= v_popfnh30_34*v_brnh30_34$$

V_EQSA:V_BIRTHSNH35_39 Births (000s), 3-county, to non-Hispanic mothers,
age

35_39

(Identity)

v_birthsnh35_39

$$= v_popfnh35_39*v_brnh35_39$$

V_EQSA:V_BIRTHSNH40_44 Births (000s), 3-county, to non-Hispanic mothers,
age

40_44

(Identity)

v_birthsnh40_44

$$= v_popfnh40_44*v_brnh40_44$$

V_EQSA:V_BIRTHSNH45& Births (000s), 3-county, to non-Hispanic mothers, age
4

5 and over

(Identity)

v_birthsnh45&

$$= (v_popfnh45_49+v_popfnh50_54+v_popfnh55_59+v_popfnh60_64+v_popfnh65_69+v_popfnh70_74+v_popfnh75_79+v_popfnh80_84+v_popfnh85\&)*v_brnh45\&$$

V_EQSA:V_DEATHFH Deaths (000s), 3-county, females, hispanic

(Identity)

v_deathfh

$$= v_deathfh0_4+v_deathfh5_9+v_deathfh10_14+v_deathfh15_19+v_deathfh40_44+$$

$$v_deathfh45_49+v_deathfh50_54+v_deathfh55_59+v_deathfh60_64+v_deathfh65_6$$

v_deathfh45_49+v_deathfh50_54+v_deathfh55_59+v_deathfh60_64+v_deathfh65_69
+v_deathfh70_74+v_deathfh75_79+v_deathfh80_84+v_deathfh85&

V_EQSA:V_DEATHFH0_4 Deaths (000s), 3-county, females, Hispanic, age 0_4
(Identity)

v_deathfh0_4

= (1-v_survrfh0_4)*v_popfh0_4[-1]

V_EQSA:V_DEATHFH10_14 Deaths (000s), 3-county, females, Hispanic, age 10_14
(Identity)

v_deathfh10_14

= (1-v_survrfh10_14)*v_popfh10_14[-1]

V_EQSA:V_DEATHFH15_19 Deaths (000s), 3-county, females, Hispanic, age 15_19
(Identity)

v_deathfh15_19

= (1-v_survrfh15_19)*v_popfh15_19[-1]

V_EQSA:V_DEATHFH20_24 Deaths (000s), 3-county, females, Hispanic, age 20_24
(Identity)

v_deathfh20_24

= (1-v_survrfh20_24)*v_popfh20_24[-1]

V_EQSA:V_DEATHFH25_29 Deaths (000s), 3-county, females, Hispanic, age 25_29
(Identity)

v_deathfh25_29

= (1-v_survrfh25_29)*v_popfh25_29[-1]

V_EQSA:V_DEATHFH30_34 Deaths (000s), 3-county, females, Hispanic, age 30_34
(Identity)

v_deathfh30_34

= (1-v_survrfh30_34)*v_popfh30_34[-1]

V_EQSA:V_DEATHFH35_39 Deaths (000s), 3-county, females, Hispanic, age 35_39
(Identity)

v_deathfh35_39

= (1-v_survrfh35_39)*v_popfh35_39[-1]

V_EQSA:V_DEATHFH40_44 Deaths (000s), 3-county, females, Hispanic, age 40_44
(Identity)

v_deathfh40_44

$$= (1-v_{\text{survrfh40_44}})*v_{\text{popfh40_44}}[-1]$$

V_EQSA:V_DEATHFH45_49 Deaths (000s), 3-county, females, Hispanic, age 45_49
(Identity)

v_deathfh45_49

$$= (1-v_{\text{survrfh45_49}})*v_{\text{popfh45_49}}[-1]$$

V_EQSA:V_DEATHFH50_54 Deaths (000s), 3-county, females, Hispanic, age 50_54
(Identity)

v_deathfh50_54

$$= (1-v_{\text{survrfh50_54}})*v_{\text{popfh50_54}}[-1]$$

V_EQSA:V_DEATHFH55_59 Deaths (000s), 3-county, females, Hispanic, age 55_59
(Identity)

v_deathfh55_59

$$= (1-v_{\text{survrfh55_59}})*v_{\text{popfh55_59}}[-1]$$

V_EQSA:V_DEATHFH5_9 Deaths (000s), 3-county, females, Hispanic, age 5_9
(Identity)

v_deathfh5_9

$$= (1-v_{\text{survrfh5_9}})*v_{\text{popfh5_9}}[-1]$$

V_EQSA:V_DEATHFH60_64 Deaths (000s), 3-county, females, Hispanic, age 60_64
(Identity)

v_deathfh60_64

$$= (1-v_{\text{survrfh60_64}})*v_{\text{popfh60_64}}[-1]$$

V_EQSA:V_DEATHFH65_69 Deaths (000s), 3-county, females, Hispanic, age 65_69
(Identity)

v_deathfh65_69

$$= (1-v_{\text{survrfh65_69}})*v_{\text{popfh65_69}}[-1]$$

V_EQSA:V_DEATHFH70_74 Deaths (000s), 3-county, females, Hispanic, age 70_74
(Identity)

v_deathfh70_74

$$= (1-v_{\text{survrfh70_74}})*v_{\text{popfh70_74}}[-1]$$

V_EQSA:V_DEATHFH75_79 Deaths (000s), 3-county, females, Hispanic, age 75_79
(Identity)

v_deathfh75_79

$$= (1-v_{\text{survrfh75_79}})*v_{\text{popfh75_79}}[-1]$$

V_EQSA:V_DEATHFH80_84 Deaths (000s), 3-county, females, Hispanic, age 80_84
(Identity)

v_deathfh80_84

$$= (1-v_{\text{survrfh80_84}})*v_{\text{popfh80_84}}[-1]$$

V_EQSA:V_DEATHFH85& Deaths (000s), 3-county, females, Hispanic, age 85&
(Identity)

v_deathfh85&

$$= (1-v_{\text{survrfh85\&}})*v_{\text{popfh85\&}}[-1]$$

V_EQSA:V_DEATHFNH Deaths (000s), 3-county, females, non-hispanic
(Identity)

v_deathfnh

$$= v_{\text{deathfnh0_4}}+v_{\text{deathfnh5_9}}+v_{\text{deathfnh10_14}}+v_{\text{deathfnh15_19}}+ \\ v_{\text{deathfnh40_44}}+v_{\text{deathfnh45_49}}+v_{\text{deathfnh50_54}}+v_{\text{deathfnh55_59}}+ \\ v_{\text{deathfnh60_64}}+v_{\text{deathfnh65_69}}+v_{\text{deathfnh70_74}}+v_{\text{deathfnh75_79}}+ \\ v_{\text{deathfnh80_84}}+v_{\text{deathfnh85\&}}$$

V_EQSA:V_DEATHFNH0_4 Deaths (000s), 3-county, females, non-Hispanic, age
0_4
(Identity)

v_deathfnh0_4

$$= (1-v_{\text{survrfnh0_4}})*v_{\text{popfnh0_4}}[-1]$$

V_EQSA:V_DEATHFNH10_14 Deaths (000s), 3-county, females, non-Hispanic, age
1
0_14
(Identity)

v_deathfnh10_14

v_deathfnh10_14

$$= (1-v_{\text{survrfnh10_14}})*v_{\text{popfnh10_14}}[-1]$$

V_EQSA:V_DEATHFNH15_19 Deaths (000s), 3-county, females, non-Hispanic, age
1
5_19
(Identity)

v_deathfnh15_19
= (1-v_survrfnh15_19)*v_popfnh15_19[-1]

V_EQSA:V_DEATHFNH20_24 Deaths (000s), 3-county, females, non-Hispanic, age
2
0_24
(Identity)

v_deathfnh20_24
= (1-v_survrfnh20_24)*v_popfnh20_24[-1]

V_EQSA:V_DEATHFNH25_29 Deaths (000s), 3-county, females, non-Hispanic, age
2
5_29
(Identity)

v_deathfnh25_29
= (1-v_survrfnh25_29)*v_popfnh25_29[-1]

V_EQSA:V_DEATHFNH30_34 Deaths (000s), 3-county, females, non-Hispanic, age
3
0_34
(Identity)

v_deathfnh30_34
= (1-v_survrfnh30_34)*v_popfnh30_34[-1]

V_EQSA:V_DEATHFNH35_39 Deaths (000s), 3-county, females, non-Hispanic, age
3
5_39
(Identity)

v_deathfnh35_39
= (1-v_survrfnh35_39)*v_popfnh35_39[-1]

V_EQSA:V_DEATHFNH40_44 Deaths (000s), 3-county, females, non-Hispanic, age
4
0_44
(Identity)

v_deathfnh40_44
= (1-v_survrfnh40_44)*v_popfnh40_44[-1]

V_EQSA:V_DEATHFNH45_49 Deaths (000s), 3-county, females, non-Hispanic, age

4

(Identity) 5_49

v_deathfnh45_49

$$= (1-v_survrfnh45_49)*v_popfnh45_49[-1]$$

V_EQSA:V_DEATHFNH50_54 Deaths (000s), 3-county, females, non-Hispanic, age
5

(Identity) 0_54

v_deathfnh50_54

$$= (1-v_survrfnh50_54)*v_popfnh50_54[-1]$$

V_EQSA:V_DEATHFNH55_59 Deaths (000s), 3-county, females, non-Hispanic, age
5

(Identity) 5_59

v_deathfnh55_59

$$= (1-v_survrfnh55_59)*v_popfnh55_59[-1]$$

V_EQSA:V_DEATHFNH5_9 Deaths (000s), 3-county, females, non-Hispanic, age
5_9

(Identity)

v_deathfnh5_9

$$= (1-v_survrfnh5_9)*v_popfnh5_9[-1]$$

V_EQSA:V_DEATHFNH60_64 Deaths (000s), 3-county, females, non-Hispanic, age
6

(Identity) 0_64

v_deathfnh60_64

$$= (1-v_survrfnh60_64)*v_popfnh60_64[-1]$$

V_EQSA:V_DEATHFNH65_69 Deaths (000s), 3-county, females, non-Hispanic, age
6

(Identity) 5_69

v_deathfnh65_69

$$= (1-v_survrfnh65_69)*v_popfnh65_69[-1]$$

V_EQSA:V_DEATHFNH70_74 Deaths (000s), 3-county, females, non-Hispanic, age
7

0_74

(Identity)

v_deathfnh70_74

$$= (1-v_{\text{survrfnh70_74}})*v_{\text{popfnh70_74}}[-1]$$

V_EQSA:V_DEATHFNH75_79 Deaths (000s), 3-county, females, non-Hispanic, age
7
5_79

(Identity)

v_deathfnh75_79

$$= (1-v_{\text{survrfnh75_79}})*v_{\text{popfnh75_79}}[-1]$$

V_EQSA:V_DEATHFNH80_84 Deaths (000s), 3-county, females, non-Hispanic, age
8
0_84

(Identity)

v_deathfnh80_84

$$= (1-v_{\text{survrfnh80_84}})*v_{\text{popfnh80_84}}[-1]$$

V_EQSA:V_DEATHFNH85& Deaths (000s), 3-county, females, non-Hispanic, age
85&

(Identity)

v_deathfnh85&

$$= (1-v_{\text{survrfnh85\&}})*v_{\text{popfnh85\&}}[-1]$$

V_EQSA:V_DEATHMH Deaths (000s)+ 3-county, males, hispanic
(Identity)

v_deathmh

$$= v_{\text{deathmh0_4}}+v_{\text{deathmh5_9}}+v_{\text{deathmh10_14}}+v_{\text{deathmh15_19}}+v_{\text{deathmh40_44}}+ \\ v_{\text{deathmh45_49}}+v_{\text{deathmh50_54}}+v_{\text{deathmh55_59}}+v_{\text{deathmh60_64}}+v_{\text{deathmh65_6}} \\ 9 \\ +v_{\text{deathmh70_74}}+v_{\text{deathmh75_79}}+v_{\text{deathmh80_84}}+v_{\text{deathmh85\&}}$$

V_EQSA:V_DEATHMH0_4 Deaths (000s), 3-county, males, Hispanic, age 0_4
(Identity)

v_deathmh0_4

$$= (1-v_{\text{survrmh0_4}})*v_{\text{popmh0_4}}[-1]$$

V_EQSA:V_DEATHMH10_14 Deaths (000s), 3-county, males, Hispanic, age 10_14
(Identity)

v_deathmh10_14

$$= (1-v_survrhm10_14)*v_popmh10_14[-1]$$

V_EQSA:V_DEATHMH15_19 Deaths (000s), 3-county, males, Hispanic, age 15_19
(Identity)

v_deathmh15_19

$$= (1-v_survrhm15_19)*v_popmh15_19[-1]$$

V_EQSA:V_DEATHMH20_24 Deaths (000s), 3-county, males, Hispanic, age 20_24
(Identity)

v_deathmh20_24

$$= (1-v_survrhm20_24)*v_popmh20_24[-1]$$

V_EQSA:V_DEATHMH25_29 Deaths (000s), 3-county, males, Hispanic, age 25_29
(Identity)

v_deathmh25_29

$$= (1-v_survrhm25_29)*v_popmh25_29[-1]$$

V_EQSA:V_DEATHMH30_34 Deaths (000s), 3-county, males, Hispanic, age 30_34
(Identity)

v_deathmh30_34

$$= (1-v_survrhm30_34)*v_popmh30_34[-1]$$

V_EQSA:V_DEATHMH35_39 Deaths (000s), 3-county, males, Hispanic, age 35_39
(Identity)

v_deathmh35_39

$$= (1-v_survrhm35_39)*v_popmh35_39[-1]$$

V_EQSA:V_DEATHMH40_44 Deaths (000s), 3-county, males, Hispanic, age 40_44
(Identity)

v_deathmh40_44

$$= (1-v_survrhm40_44)*v_popmh40_44[-1]$$

V_EQSA:V_DEATHMH45_49 Deaths (000s), 3-county, males, Hispanic, age 45_49
(Identity)

v_deathmh45_49

$$= (1-v_survrhm45_49)*v_popmh45_49[-1]$$

V_EQSA:V_DEATHMH50_54 Deaths (000s), 3-county, males, Hispanic, age 50_54
(Identity)

v_deathmh50_54

$$= (1-v_survrnh50_54)*v_popmh50_54[-1]$$

V_EQSA:V_DEATHMH55_59 Deaths (000s), 3-county, males, Hispanic, age 55_59
(Identity)

v_deathmh55_59

$$= (1-v_survrnh55_59)*v_popmh55_59[-1]$$

V_EQSA:V_DEATHMH5_9 Deaths (000s), 3-county, males, Hispanic, age 5_9
(Identity)

v_deathmh5_9

$$= (1-v_survrnh5_9)*v_popmh5_9[-1]$$

V_EQSA:V_DEATHMH60_64 Deaths (000s), 3-county, males, Hispanic, age 60_64
(Identity)

v_deathmh60_64

$$= (1-v_survrnh60_64)*v_popmh60_64[-1]$$

V_EQSA:V_DEATHMH65_69 Deaths (000s), 3-county, males, Hispanic, age 65_69
(Identity)

v_deathmh65_69

$$= (1-v_survrnh65_69)*v_popmh65_69[-1]$$

V_EQSA:V_DEATHMH70_74 Deaths (000s), 3-county, males, Hispanic, age 70_74
(Identity)

v_deathmh70_74

$$= (1-v_survrnh70_74)*v_popmh70_74[-1]$$

V_EQSA:V_DEATHMH75_79 Deaths (000s), 3-county, males, Hispanic, age 75_79
(Identity)

v_deathmh75_79

$$= (1-v_survrnh75_79)*v_popmh75_79[-1]$$

V_EQSA:V_DEATHMH80_84 Deaths (000s), 3-county, males, Hispanic, age 80_84
(Identity)

v_deathmh80_84

$$= (1-v_survrmh80_84)*v_popmh80_84[-1]$$

V_EQSA:V_DEATHMH85& Deaths (000s), 3-county, males, Hispanic, age 85&
(Identity)

v_deathmh85&

$$= (1-v_survrmh85&)*v_popmh85&[-1]$$

V_EQSA:V_DEATHMNH Deaths (000s), 3-county, males, non-hispanic
(Identity)

v_deathmnh

$$= v_deathmnh0_4+v_deathmnh5_9+v_deathmnh10_14+v_deathmnh15_19+ \\ v_deathmnh40_44+v_deathmnh45_49+v_deathmnh50_54+v_deathmnh55_59+ \\ v_deathmnh60_64+v_deathmnh65_69+v_deathmnh70_74+v_deathmnh75_79+ \\ v_deathmnh80_84+v_deathmnh85&$$

V_EQSA:V_DEATHMNH0_4 Deaths (000s), 3-county, males, non-Hispanic, age 0_4
(Identity)

v_deathmnh0_4

$$= (1-v_survrmnh0_4)*v_popmnh0_4[-1]$$

V_EQSA:V_DEATHMNH10_14 Deaths (000s), 3-county, males, non-Hispanic, age
10_ 14
(Identity)

v_deathmnh10_14

$$= (1-v_survrmnh10_14)*v_popmnh10_14[-1]$$

V_EQSA:V_DEATHMNH15_19 Deaths (000s), 3-county, males, non-Hispanic, age
15_ 19
(Identity)

v_deathmnh15_19

$$= (1-v_survrmnh15_19)*v_popmnh15_19[-1]$$

V_EQSA:V_DEATHMNH20_24 Deaths (000s), 3-county, males, non-Hispanic, age
20_ 24
(Identity)

v_deathmnh20_24

$$= (1-v_survrmnh20_24)*v_popmnh20_24[-1]$$

V_EQSA:V_DEATHMNH25_29 Deaths (000s), 3-county, males, non-Hispanic, age
25_ 29
(Identity)

v_deathmnh25_29

$$= (1-v_survrmnh25_29)*v_popmnh25_29[-1]$$

V_EQSA:V_DEATHMNH30_34 Deaths (000s), 3-county, males, non-Hispanic, age
30_ 34
(Identity)

v_deathmnh30_34

$$= (1-v_survrmnh30_34)*v_popmnh30_34[-1]$$

V_EQSA:V_DEATHMNH35_39 Deaths (000s), 3-county, males, non-Hispanic, age
35_ 39
(Identity)

v_deathmnh35_39

$$= (1-v_survrmnh35_39)*v_popmnh35_39[-1]$$

V_EQSA:V_DEATHMNH40_44 Deaths (000s), 3-county, males, non-Hispanic, age
40_ 44
(Identity)

v_deathmnh40_44

$$= (1-v_survrmnh40_44)*v_popmnh40_44[-1]$$

V_EQSA:V_DEATHMNH45_49 Deaths (000s), 3-county, males, non-Hispanic, age
45_ 49
(Identity)

v_deathmnh45_49

$$= (1-v_survrmnh45_49)*v_popmnh45_49[-1]$$

V_EQSA:V_DEATHMNH50_54 Deaths (000s), 3-county, males, non-Hispanic, age
50_ 54
(Identity)

v_deathmnh50_54

$$= (1-v_survrmnh50_54)*v_popmnh50_54[-1]$$

V_EQSA:V_DEATHMNH55_59 Deaths (000s), 3-county, males, non-Hispanic, age
55_ 59
(Identity)

v_deathmnh55_59

$$= (1-v_{\text{survrmnh55_59}})*v_{\text{popmnh55_59}}[-1]$$

V_EQSA:V_DEATHMNH5_9 Deaths (000s), 3-county, males, non-Hispanic, age 5_9
(Identity)

v_deathmnh5_9

$$= (1-v_{\text{survrmnh5_9}})*v_{\text{popmnh5_9}}[-1]$$

V_EQSA:V_DEATHMNH60_64 Deaths (000s), 3-county, males, non-Hispanic, age
60_ 64
(Identity)

v_deathmnh60_64

$$= (1-v_{\text{survrmnh60_64}})*v_{\text{popmnh60_64}}[-1]$$

V_EQSA:V_DEATHMNH65_69 Deaths (000s), 3-county, males, non-Hispanic, age
65_ 69
(Identity)

v_deathmnh65_69

$$= (1-v_{\text{survrmnh65_69}})*v_{\text{popmnh65_69}}[-1]$$

V_EQSA:V_DEATHMNH70_74 Deaths (000s), 3-county, males, non-Hispanic, age
70_ 74
(Identity)

v_deathmnh70_74

$$= (1-v_{\text{survrmnh70_74}})*v_{\text{popmnh70_74}}[-1]$$

V_EQSA:V_DEATHMNH75_79 Deaths (000s), 3-county, males, non-Hispanic, age
75_ 79
(Identity)

v_deathmnh75_79

$$= (1-v_{\text{survrmnh75_79}})*v_{\text{popmnh75_79}}[-1]$$

V_EQSA:V_DEATHMNH80_84 Deaths (000s), 3-county, males, non-Hispanic, age
80_ 84

(Identity)

v_deathmnh80_84

$$= (1 - v_survrmnh80_84) * v_popmnh80_84[-1]$$

V_EQSA:V_DEATHMNH85& Deaths (000s), 3-county, males, non-Hispanic, age 85&
(Identity)

v_deathmnh85&

$$= (1 - v_survrmnh85\&) * v_popmnh85\&[-1]$$

V_EQSA:V_DEATHS Deaths (000s), 3-county, total
(Identity)

v_deaths

$$= v_deathfh + v_deathfnh + v_deathmh + v_deathmnh$$

V_EQSA:V_ECON

Ordinary Least Squares

ANNUAL data for 37 periods from 1970 to 2006

Date: 11 SEP 2008

v_econ-m_emppv

$$= \begin{matrix} 0.00094 & * & v_hutot & + & 0.00006 & * & v_hutot[-1] & + & 0.00126 & * & v_hutot[-2] \\ (4.04782) & & & & (0.18259) & & & & (5.19784) & & \end{matrix}$$

$$+ \begin{matrix} 54.6890 & * & \text{step}(89,1) & - & 29.8586 \\ (14.5671) & & & & (4.85248) \end{matrix}$$

Polynomial lags:

v_hutot
from 0 to 2 degree 2 none

Sum Sq	4004.96	Std Err	11.1873	LHS Mean	90.7193
R Sq	0.9498	R Bar Sq	0.9436	F 4, 32	151.505
D.W. (1)	1.0606	D.W. (2)	1.8622		

V_ECON=??+m_emppv

V_EQSA:V_EFI

Cochrane-Orcutt

ANNUAL data for 24 periods from 1983 to 2006

Date: 11 SEP 2008

log(v_efi/v_pop)

$$= \begin{matrix} -0.00218 & * & ruc & + & 0.31903 & * & \log(v_ydp/jpc/v_pop) \\ (0.16550) & & & & (0.95795) & & \end{matrix}$$

$$+ \begin{matrix} 0.02612 & * & \log(\text{sp}500) & + & 5.99622 & * & (v_econ.1/v_pop.1) & - & 3.65124 \\ (0.55715) & & & & (2.15447) & & & & (4.36918) \end{matrix}$$

Sum Sq	0.0207	Std Err	0.0339	LHS Mean	-3.7983
R Sq	0.8734	R Bar Sq	0.8382	F 5, 18	24.8354
D.W. (1)	1.6722	D.W. (2)	2.4561		

AR_0 = + 0.53813 * AR_1

(2.34156)

V_EFI=exp(??)*v_POP
 V_EQSA:V_EFINANCIAL
 (Identity)

v_efinancial

= v_efi+v_efinre

V_EQSA:V_EFINRE

Cochrane-Orcutt

ANNUAL data for 16 periods from 1991 to 2006

Date: 11 SEP 2008

log(v_efinre)

$$= \begin{matrix} 0.93123 & * & \log(v_pop) & - & 0.02769 & * & ruc & - & 3.97917 \\ (11.3222) & & & & (2.53373) & & & & (5.69305) \end{matrix}$$

Sum Sq	0.0045	Std Err	0.0193	LHS Mean	3.5782
R Sq	0.9885	R Bar Sq	0.9857	F 3, 12	345.234
D.W.(1)	2.0920	D.W.(2)	2.5118		

$$AR_0 = + 0.52249 * AR_1 \\ (2.23815)$$

V_EFINRE=exp(??)

V_EQSA:V_EGOODSPROD
 (Identity)

v_egoodsprod

= v_emin+v_econ+v_eman

V_EQSA:V_EGOV

(Identity)

v_egov

= v_egovf+v_egovs1

V_EQSA:V_EGOVF

Cochrane-Orcutt

ANNUAL data for 30 periods from 1977 to 2006

Date: 11 SEP 2008

v_egovf

$$= \begin{matrix} 20.2993 & * & \log(eg91/np*v_pop) & - & 0.01595 & * & spike(80,1) \\ (11.4256) & & & & (0.04671) & & \\ + & 0.61965 & * & spike(90,1) & + & 0.24167 & * & spike(100,1) & - & 45.9532 \\ (1.82711) & & & (0.70045) & & & & (7.12014) \end{matrix}$$

Sum Sq	4.2301	Std Err	0.4198	LHS Mean	26.4901
R Sq	0.9889	R Bar Sq	0.9866	F 5, 24	426.702
D.W.(1)	1.4550	D.W.(2)	1.8217		

$$AR_0 = + 0.74413 * AR_1 \\ (5.80220)$$

V_EQSA:V_EGOVSL
(Identity)

v_egovsl

$$= v_egovsled+v_egovslxed$$

V_EQSA:V_EGOVSLED
(Identity)

v_egovsled

$$= v_ek_12-v_esed$$

V_EQSA:V_EGOVSLXED
Ordinary Least Squares
ANNUAL data for 31 periods from 1976 to 2006
Date: 11 SEP 2008

log(v_egovslxed)

$$= \begin{array}{l} 0.93703 * \log(egsl/np*v_pop) - 0.04126 * \text{step}(95,1) \\ (29.6032) \qquad\qquad\qquad (1.93456) \\ - 0.01577 * \text{movavg}(3,ruc) - 0.40366 \\ (2.31558) \qquad\qquad\qquad (2.21943) \end{array}$$

Sum Sq	0.0235	Std Err	0.0295	LHS Mean	4.3639
R Sq	0.9928	R Bar Sq	0.9920	F 3, 27	1236.45
D.W.(1)	1.2078	D.W.(2)	2.1620		

V_EGOVSLXED=exp(??)

V_EQSA:V_EINFO

Cochrane-Orcutt

ANNUAL data for 31 periods from 1976 to 2006

Date: 11 SEP 2008

log(v_einfo/v_pop)

$$= \begin{array}{l} 1.22134 * \log(einf/np) - 0.00837 * \text{utlb}00004 + 1.53980 \\ (5.10325) \qquad\qquad\qquad (3.04798) \qquad\qquad\qquad (1.32822) \end{array}$$

Sum Sq	0.0433	Std Err	0.0400	LHS Mean	-4.6605
R Sq	0.8855	R Bar Sq	0.8728	F 3, 27	69.6265
D.W.(1)	1.4778	D.W.(2)	1.8637		

$$\text{AR}_0 = + 0.89969 * \text{AR}_1 \\ (9.13895)$$

V_EINFO=exp(??)*v_pop

V_EQSA:V_EK_12

Ordinary Least Squares

ANNUAL data for 16 periods from 1991 to 2006

Date: 15 SEP 2008

log(v_ek_12)

$$= \begin{array}{l} 1.13680 * \log(v_pop5_19) + 0.03106 * ruc - 2.85282 \\ (27.9492) \qquad\qquad\qquad (4.72707) \qquad\qquad\qquad (9.5086) \end{array}$$

Sum Sq	0.0044	Std Err	0.0183	LHS Mean	4.9644
R Sq	0.9894	R Bar Sq	0.9878	F 2, 13	609.307

D.W.(1) 1.6086 D.W.(2) 2.7769

V_EK_12=exp(??)

V_EQSA:V_EL&HACCOMO

Ordinary Least Squares

ANNUAL data for 16 periods from 1991 to 2006

Date: 11 SEP 2008

log(v_el&haccomo)

$$= \begin{array}{r} 0.40586 * \log(v_pop) - 0.01977 * ruc - 0.06727 * \text{step}(102,1) \\ (3.65516) \qquad (1.77615) \qquad (2.29941) \\ + 0.28716 \\ (0.29679) \end{array}$$

Sum Sq	0.0024	Std Err	0.0142	LHS Mean	3.5149
R Sq	0.9618	R Bar Sq	0.9523	F 3, 12	100.779
D.W.(1)	1.7012	D.W.(2)	2.6052		

V_EL&HACCOMO=exp(??)

V_EQSA:V_EL&HARTS

Cochrane-Orcutt

ANNUAL data for 31 periods from 1976 to 2006

Date: 11 SEP 2008

log(v_el&harts)

$$= \begin{array}{r} 0.53666 * \log(m2(v_ydp/jpc)) - 0.62896 * (v_enf.1/v_pop.1) \\ (4.55545) \qquad (1.09981) \\ - 0.00933 * ruc - 0.12930 \\ (1.27815) \qquad (0.17033) \end{array}$$

Sum Sq	0.0229	Std Err	0.0297	LHS Mean	2.9468
R Sq	0.9896	R Bar Sq	0.9880	F 4, 26	617.258
D.W.(1)	1.4785	D.W.(2)	2.1078		

AR_0 = + 0.87680 * AR_1
(10.8238)

V_EL&HARTS=exp(??)

V_EQSA:V_EL&HF&DRINK

Ordinary Least Squares

ANNUAL data for 28 periods from 1979 to 2006

Date: 11 SEP 2008

log(v_el&hf&drink/v_pop)

$$= \begin{array}{r} 0.00336 * ruc + 0.75815 * \log(cnfourtr/np) \\ (0.39682) \qquad (5.47522) \\ + 2.49805 * v_enf.1/v_pop.1 - 0.07538 * \text{step}(101,1) - 4.74650 \\ (4.74421) \qquad (3.11225) \qquad (19.4317) \end{array}$$

Sum Sq	0.0342	Std Err	0.0386	LHS Mean	-3.5859
R Sq	0.9138	R Bar Sq	0.8988	F 4, 23	60.9560
D.W.(1)	0.7947	D.W.(2)	1.5124		

V_EL&HF&DRINK=exp(??)*v_pop

V_EQSA:V_ELEIS&HOSP

(Identity)

v_eleis&hosp

$$= v_el&harts+v_el&haccomo+v_el&hf&drink$$

V_EQSA:V_EMAN
(Identity)

v_eman

$$= v_emand+v_emannd$$

V_EQSA:V_EMAND
(Identity)

v_emand

$$= v_emandaero+v_emandcompu+v_emandoth$$

V_EQSA:V_EMANDAERO

Cochrane-Orcutt

ANNUAL data for 29 periods from 1978 to 2006

Date: 11 SEP 2008

log(v_emandaero)

$$= -0.39130 * \log(v_wrtlp/(ypcompwsdp/eeap)) \\ (0.27327) \\ + 0.08929 * \log(gfmlco) + 0.34552 * \log(ipsg3364) \\ (0.49728) \quad (1.84306) \\ + 0.05373 * \text{spike}(2000,1) + 0.03768 * p_firm37 + 3.45655 \\ (0.83551) \quad (2.03730) \quad (0.34314)$$

Sum Sq	0.1217	Std Err	0.0744	LHS Mean	3.0803
R Sq	0.9419	R Bar Sq	0.9260	F 6, 22	59.4316
D.W.(1)	1.7215	D.W.(2)	1.8848		

$$AR_0 = +0.83461 * AR_1 \\ (8.21629)$$

V_EMANDAERO=EXP(??)

V_EQSA:V_EMANDCOMPU

Cochrane-Orcutt

ANNUAL data for 16 periods from 1991 to 2006

Date: 11 SEP 2008

log(v_emandcompu)

$$= 1.01009 * \log(emd334) + 0.00027 * v_wrtlp/(ypcompwsdp/eeap) \\ (11.6289) \quad (0.47990) \\ + 0.02920 * v_enf.1/eea.1 + 2.77431 \\ (2.66607) \quad (5.15707)$$

Sum Sq	0.0027	Std Err	0.0156	LHS Mean	3.9316
R Sq	0.9832	R Bar Sq	0.9771	F 4, 11	160.656
D.W.(1)	1.5113	D.W.(2)	2.1326		

$$AR_0 = +0.65525 * AR_1 \\ (2.29257)$$

V_EMANDCOMPU=exp(??)

V_EQSA:V_EMANDOTH

Cochrane-Orcutt

ANNUAL data for 14 periods from 1993 to 2006

Date: 11 SEP 2008

log(v_emandoth)

$$= \begin{array}{r} 0.69532 * \log(\text{ipsg335}) + 0.65935 * \log(\text{v_econ}) - 2.79146 \\ (4.72636) \qquad\qquad\qquad (5.04771) \qquad\qquad\qquad (4.03306) \end{array}$$

Sum Sq	0.0032	Std Err	0.0178	LHS Mean	4.1713
R Sq	0.9730	R Bar Sq	0.9649	F 3, 10	120.244
D.W. (1)	1.3440	D.W. (2)	1.7421		

$$\text{AR}_0 = + 0.93121 * \text{AR}_1 \\ (22.8181)$$

V_EMANDOTH=exp(??)

V_EQSA:V_EMANNND

Cochrane-Orcutt

ANNUAL data for 31 periods from 1976 to 2006

Date: 11 SEP 2008

log(v_emannd)

$$= \begin{array}{r} 0.91307 * \log(\text{emn}) + 0.37126 * \log(\text{v_pop}) - 1.24198 \\ (3.65565) \qquad\qquad\qquad (1.48339) \qquad\qquad\qquad (0.51461) \end{array}$$

Sum Sq	0.0169	Std Err	0.0250	LHS Mean	3.3994
R Sq	0.9751	R Bar Sq	0.9724	F 3, 27	353.165
D.W. (1)	1.8745	D.W. (2)	1.8063		

$$\text{AR}_0 = + 0.89199 * \text{AR}_1 \\ (11.6599)$$

V_EMANNND=exp(??)

V_EQSA:V_EMB

Ordinary Least Squares

ANNUAL data for 33 periods from 1974 to 2006

Date: 11 SEP 2008

log(v_emb)

$$= \begin{array}{r} 0.99245 * \log(\text{v_enf}) + 0.00096 * \text{ruc} + 0.27723 \\ (234.709) \qquad\qquad\qquad (0.80248) \qquad\qquad\qquad (7.79345) \end{array}$$

Sum Sq	0.0015	Std Err	0.0072	LHS Mean	7.3439
R Sq	0.9997	R Bar Sq	0.9997	F 2, 30	49402.1
D.W. (1)	0.7127	D.W. (2)	1.6035		

V_EMB=exp(??)

V_EQSA:V_EMIN

Cochrane-Orcutt

ANNUAL data for 20 periods from 1987 to 2006

Date: 11 SEP 2008

log(v_emin)

$$= \begin{array}{r} 0.60033 * \log(\text{cp_prodn}) - 0.00004 * \text{m2}(\text{v_wrpriv/wpi}) \\ (2.33511) \qquad\qquad\qquad (2.28864) \\ - 0.13331 * \text{step}(100,1) - 1.32509 \\ (1.05209) \qquad\qquad\qquad (0.68393) \end{array}$$

Sum Sq	0.1239	Std Err	0.0909	LHS Mean	1.7107
R Sq	0.9342	R Bar Sq	0.9167	F 4, 15	53.2768
D.W. (1)	1.4892	D.W. (2)	1.9289		

$$\text{AR}_0 = + 0.48464 * \text{AR}_1$$

(1.76199)

V_EMIN=exp(??)
 V_EQSA:V_ENF
 (Identity)

v_enf

= v_epriv+v_egov

V_EQSA:V_EPRIV
 (Identity)

v_epriv

= v_emin+v_eman+v_econ+v_ettu+v_einfo+v_efinancial+v_esp&b+v_esed&health+
 v_eleis&hosp+v_esoth

V_EQSA:V_ERT
 (Identity)

v_ert

= v_ertbldgmat+v_ertclo+v_ertf&b+v_ertmv&p+v_ertoth

V_EQSA:V_ERTBLDGMAT

Ordinary Least Squares

ANNUAL data for 24 periods from 1983 to 2006

Date: 11 SEP 2008

log(v_ertbldgmat)

= 0.72946 * log(m2(v_ydp/jpc)) + 0.25638 * log(m2(v_hutot))
 (15.1354) (7.01904)
 - 5.08135
 (13.3374)

Sum Sq	0.1029	Std Err	0.0700	LHS Mean	2.4513
R Sq	0.9561	R Bar Sq	0.9519	F 2, 21	228.669
D.W. (1)	0.4633	D.W. (2)	0.9409		

V_ERTBLDGMAT=exp(??)

V_EQSA:V_ERTCLO

Cochrane-Orcutt

ANNUAL data for 17 periods from 1990 to 2006

Date: 11 SEP 2008

log(v_ertclo)

= - 1.61811 * v_enf.1/v_pop.1 + 0.76165 * log(m2(v_ydp/jpc))
 (2.10338) (9.48977)
 - 0.50269
 (0.80411)

Sum Sq	0.0063	Std Err	0.0220	LHS Mean	3.9157
R Sq	0.9875	R Bar Sq	0.9846	F 3, 13	341.169
D.W. (1)	1.7477	D.W. (2)	2.2562		

AR_0 = + 0.64346 * AR_1

(2.62564)

V_ERTCLO=exp(??)
 V_EQSA:V_ERTF&B
 Cochrane-Orcutt
 ANNUAL data for 31 periods from 1976 to 2006
 Date: 11 SEP 2008

log(v_ertf&b)

$$= \begin{array}{r} 0.61126 * \log((v_pop)) + 0.96004 * v_enf.1/v_pop.1 - 1.79900 \\ (4.46977) \qquad\qquad\qquad (1.45351) \qquad\qquad\qquad (1.61534) \end{array}$$

Sum Sq	0.0324	Std Err	0.0346	LHS Mean	3.4478
R Sq	0.9865	R Bar Sq	0.9850	F 3, 27	658.754
D.W.(1)	1.3047	D.W.(2)	1.6165		

$$AR_0 = + 0.81825 * AR_1 \\ (11.5033)$$

V_ERTF&B=exp(??)
 V_EQSA:V_ERTMV&P
 Cochrane-Orcutt
 ANNUAL data for 31 periods from 1976 to 2006
 Date: 11 SEP 2008

log(v_ertmv&p)

$$= \begin{array}{r} 0.62728 * \log(m2(v_ydp/jpc)) - 0.03018 * ruc \\ (5.82343) \qquad\qquad\qquad (5.02825) \\ - 0.46943 * v_enf.1/v_pop.1 - 0.43335 \\ (1.01325) \qquad\qquad\qquad (0.60718) \end{array}$$

Sum Sq	0.0153	Std Err	0.0242	LHS Mean	3.1887
R Sq	0.9953	R Bar Sq	0.9946	F 4, 26	1382.03
D.W.(1)	1.4006	D.W.(2)	2.2839		

$$AR_0 = + 0.83526 * AR_1 \\ (4.94675)$$

V_ERTMV&P=exp(??)
 V_EQSA:V_ERTOTH
 Ordinary Least Squares
 ANNUAL data for 16 periods from 1991 to 2006
 Date: 11 SEP 2008

log(v_ertoth)

$$= \begin{array}{r} 0.03268 * \log(m2(v_hutot)) - 0.34101 * v_enf.1/v_pop.1 \\ (1.23799) \qquad\qquad\qquad (0.86433) \\ + 0.47498 * \log(m2(v_ydp/jpc)) - 0.04630 * ruc + 1.21548 \\ (13.2768) \qquad\qquad\qquad (5.86743) \qquad\qquad\qquad (4.45603) \end{array}$$

Sum Sq	0.0019	Std Err	0.0132	LHS Mean	4.3679
R Sq	0.9954	R Bar Sq	0.9937	F 4, 11	591.086
D.W.(1)	1.9025	D.W.(2)	2.4824		

V_ERTOTH=exp(??)
 V_EQSA:V_ESED
 (Identity)

v_esed

$$= v_ek_12*v_esed\%ek_12+v_esedadd$$

V_EQSA:V_ESED%EK_12
 Ordinary Least Squares
 ANNUAL data for 18 periods from 1977 to 1994
 Date: 11 SEP 2008

v_esed%ek_12

$$= 0.00063 * \text{ttrend} - 0.01161$$

(7.33788) (0.87398)

Sum Sq	0.0009	Std Err	0.0076	LHS Mean	0.0850
R Sq	0.7709	R Bar Sq	0.7566	F 1, 16	53.8445
D.W.(1)	0.6359	D.W.(2)	1.3460		

V_EQSA:V_ESED&HEALTH
 (Identity)

v_esed&health

$$= v_eshc\&sa+v_esed$$

V_EQSA:V_ESERVPROV
 (Identity)

v_eservprov

$$= v_ettu+v_einfo+v_efinancial+v_esp\&b+v_esed\&health+v_eleis\&hosp+v_esoth+v_egov$$

V_EQSA:V_ESHC&SA
 Cochrane-Orcutt
 ANNUAL data for 16 periods from 1991 to 2006
 Date: 15 SEP 2008

log(v_eshc&sa/v_pop65&)

$$= 1.16777 * \log(eehs62/np65a)$$

(3.40847)

$$- 0.01130 * \text{spike}(2000,1)+\text{spike}(2001,1) + 0.02657$$

(1.33659) (0.08329)

Sum Sq	0.0013	Std Err	0.0103	LHS Mean	-1.1569
R Sq	0.9799	R Bar Sq	0.9749	F 3, 12	194.842
D.W.(1)	1.6663	D.W.(2)	1.9059		

$$\text{AR}_0 = + 0.76261 * \text{AR}_1$$

(7.15289)

V_ESHC&SA=exp(??)*v_POP65&
 V_EQSA:V_ESOTH
 Cochrane-Orcutt
 ANNUAL data for 31 periods from 1976 to 2006
 Date: 11 SEP 2008

log(v_esoth)

$$= 1.16950 * \log(v_pop) - 5.51722$$

(17.2422) (9.9563)

Sum Sq	0.0182	Std Err	0.0255	LHS Mean	3.8544
R Sq	0.9956	R Bar Sq	0.9953	F 2, 28	3202.82

D.W.(1) 1.6806 D.W.(2) 1.9237

AR_0 = + 0.75537 * AR_1
(6.55722)

V_ESOTH=exp(??)

V_EQSA:V_ESP&B

Ordinary Least Squares

ANNUAL data for 29 periods from 1978 to 2006

Date: 11 SEP 2008

log(v_esp&b)

= 1.44943 * log((v_enf.1-v_esp&b.1)) + 0.23208 * step(93,1)
(23.5603) (6.17118)

- 5.23247
(12.5111)

Sum Sq	0.0845	Std Err	0.0570	LHS Mean	5.0805
R Sq	0.9902	R Bar Sq	0.9894	F 2, 26	1313.87
D.W.(1)	1.0155	D.W.(2)	2.0346		

V_ESP&B=exp(??)

V_EQSA:V_ETRANS&WARE

Cochrane-Orcutt

ANNUAL data for 17 periods from 1990 to 2006

Date: 11 SEP 2008

log(v_etrans&ware/v_pop)

= 0.78880 * log(etaw/np) - 0.23048 * log(v_wrpriv/wpi) + 1.34741
(3.00113) (1.47996) (0.62990)

Sum Sq	0.0063	Std Err	0.0220	LHS Mean	-4.3323
R Sq	0.7982	R Bar Sq	0.7516	F 3, 13	17.1365
D.W.(1)	1.3368	D.W.(2)	1.1939		

AR_0 = + 0.54163 * AR_1
(3.02129)

V_ETRANS&WARE=exp(??)*v_POP

V_EQSA:V_ETRANSWU

(Identity)

v_etranswu

= v_ertil+v_etrans&ware

V_EQSA:V_ETTU

(Identity)

v_ettu

= v_ewt+v_ert+v_etranswu

V_EQSA:V_EUTIL

Ordinary Least Squares

ANNUAL data for 8 periods from 1999 to 2006

Date: 11 SEP 2008

log(v_ertil)

$$= \begin{array}{r} 0.96428 * \log(v_pop) - 5.84704 \\ (13.7250) \qquad \qquad \qquad (9.9001) \end{array}$$

Sum Sq	0.0014	Std Err	0.0152	LHS Mean	2.2587
R Sq	0.9691	R Bar Sq	0.9640	F 1, 6	188.377
D.W.(1)	1.3764	D.W.(2)	2.1200		

V_EUTIL=exp(??)

V_EQSA:V_EWT

Ordinary Least Squares

ANNUAL data for 17 periods from 1990 to 2006

Date: 11 SEP 2008

log(v_ewt)

$$= \begin{array}{r} 1.00255 * \log(v_ert.1) - 0.05628 * ruc - 0.68744 \\ (14.4474) \qquad \qquad \qquad (4.85510) \qquad \qquad \qquad (1.67695) \end{array}$$

Sum Sq	0.0173	Std Err	0.0351	LHS Mean	4.2993
R Sq	0.9746	R Bar Sq	0.9709	F 2, 14	268.355
D.W.(1)	0.7202	D.W.(2)	1.3948		

V_EWT=exp(??)

V_EQSA:V_GAS

Ordinary Least Squares

ANNUAL data for 28 periods from 1980 to 2007

Date: 11 SEP 2008

log(v_gas)

$$= \begin{array}{r} 0.95445 * \log(v_pop) - 0.06522 * \log(pgas) \\ (36.9844) \qquad \qquad \qquad (2.70308) \\ - 0.12418 * spike(95,1) - 0.42670 \\ (4.67804) \qquad \qquad \qquad (2.08401) \end{array}$$

Sum Sq	0.0160	Std Err	0.0258	LHS Mean	7.2888
R Sq	0.9907	R Bar Sq	0.9895	F 3, 24	847.927
D.W.(1)	1.3983	D.W.(2)	1.8163		

V_GAS=exp(??)

V_EQSA:V_HU1

Cochrane-Orcutt

ANNUAL data for 37 periods from 1971 to 2007

Date: 11 SEP 2008

log(v_hu1/v_hutot)

$$= \begin{array}{r} 1.39885 * \log(husps1/husps) + 0.00964 * v_enf.1/eea.1 \\ (5.01677) \qquad \qquad \qquad (0.65356) \\ + 0.00965 * lifesre - 0.30984 \\ (2.24586) \qquad \qquad \qquad (1.04203) \end{array}$$

Sum Sq	0.2420	Std Err	0.0870	LHS Mean	-0.3531
R Sq	0.8770	R Bar Sq	0.8616	F 4, 32	57.0194
D.W.(1)	1.9475	D.W.(2)	2.1826		

$$AR_0 = + 0.56911 * AR_1 \\ (3.84103)$$

V_HU1=exp(??)*v_hutot

V_EQSA:V_HU2&

(Identity)

v_hu2&

= v_humf

V_EQSA:V_HUMF
(Identity)

v_humf

= v_hutot-v_hu1

V_EQSA:V_HUTOT
Ordinary Least Squares
ANNUAL data for 21 periods from 1987 to 2007
Date: 11 SEP 2008

v_hutot

= 349.662 * diffya(v_pop)
(17.0646)

Sum Sq	3E+09	Std Err	12350.3	LHS Mean	44466.4	Res Mean	575.559
R Sq	0.4949	R Bar Sq	0.4949	F 1, 20	19.5955	%RMSE	28.5266
D.W.(1)	0.8837	D.W.(2)	1.1900				

V_EQSA:V_NETMIG
(Identity)

v_netmig

= v_nmig0_64+v_nmig65&

V_EQSA:V_NMIG Net migration (000s), 3-county, total
(Identity)

v_nmig

= v_nmigm+v_nmigf

V_EQSA:V_NMIG0_64
Ordinary Least Squares
ANNUAL data for 26 periods from 1981 to 2006
Date: 11 SEP 2008

v_nmig0_64

= 0.46565 * diff(v_enf+v_embgovfmil) + 520.425 * v_enf.1/v_pop.1
(4.64592) (3.12975)
+ 19.7158 * applosangeles\$.3/appphx\$.3 - 210.246
(2.16055) (2.89750)

Sum Sq	6349.16	Std Err	16.9882	LHS Mean	75.0979
R Sq	0.6929	R Bar Sq	0.6511	F 3, 22	16.5486
D.W.(1)	0.9612	D.W.(2)	1.4857		

V_EQSA:V_NMIG65&
Ordinary Least Squares
ANNUAL data for 26 periods from 1981 to 2006
Date: 11 SEP 2008

v_nmig65&/v_pop.1

$$\begin{aligned}
 &= \frac{0.23013}{(3.83250)} * \frac{np65a.1}{np.1} + \frac{0.00165}{(2.46158)} * \frac{applosangeles$.3}{appphx$.3} \\
 &+ \frac{0.03861}{(5.19587)} * \frac{(v_enf.1/v_pop.1)}{(eea.1/np.1)} \\
 &- \frac{0.00600}{(7.05568)} * spike(100,1) - \frac{0.06805}{(6.35566)}
 \end{aligned}$$

Sum Sq	0.0000	Std Err	0.0008	LHS Mean	0.0017
R Sq	0.8332	R Bar Sq	0.8014	F	4, 21 26.2201
D.W.(1)	1.5605	D.W.(2)	2.0841		

V_NMIG65&=(??)*v_pop.1

V_EQSA:V_NMIGF Net migration (000s), 3-county, females
(Identity)

v_nmigf

$$= v_nmigfnh+v_nmigfh$$

V_EQSA:V_NMIGFH Net migration (000s), 3-county, females, Hispanic
(Identity)

v_nmigfh

$$\begin{aligned}
 &= v_nmigfh0_4+v_nmigfh5_9+v_nmigfh10_14+v_nmigfh15_19+v_nmigfh20_24+ \\
 &v_nmigfh25_29+v_nmigfh30_34+v_nmigfh35_39+v_nmigfh40_44+v_nmigfh45_49+ \\
 &v_survrnmh50_54+v_nmigfh55_59+v_nmigfh60_64+v_nmigfh65_69+v_nmigfh70_74+ \\
 &v_nmigfh75_79+v_nmigfh80_84+v_nmigfh85&
 \end{aligned}$$

V_EQSA:V_NMIGFH0_4 Net migration (000s), 3-county, females, Hispanic, age
0_

4

(Identity)

v_nmigfh0_4

$$= v_nmig0_64.a*(v_nmigfh0_4[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFH10_14 Net migration (000s), 3-county, females, Hispanic, age
10_14

(Identity)

v_nmigfh10_14

$$= v_nmig0_64.a*(v_nmigfh10_14[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFH15_19 Net migration (000s), 3-county, females, Hispanic, age
15_19

(Identity)

v_nmigfh15_19

$$= v_nmig0_64.a*(v_nmigfh15_19[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFH20_24 Net migration (000s), 3-county, females, Hispanic, age

20_24
 (Identity)
 v_nmigfh20_24
 = v_nmig0_64.a*(v_nmigfh20_24[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH25_29 Net migration (000s), 3-county, females, Hispanic, age
 25_29
 (Identity)
 v_nmigfh25_29
 = v_nmig0_64.a*(v_nmigfh25_29[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH30_34 Net migration (000s), 3-county, females, Hispanic, age
 30_34
 (Identity)
 v_nmigfh30_34
 = v_nmig0_64.a*(v_nmigfh30_34[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH35_39 Net migration (000s), 3-county, females, Hispanic, age
 35_39
 (Identity)
 v_nmigfh35_39
 = v_nmig0_64.a*(v_nmigfh35_39[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH40_44 Net migration (000s), 3-county, females, Hispanic, age
 40_44
 (Identity)
 v_nmigfh40_44
 = v_nmig0_64.a*(v_nmigfh40_44[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH45_49 Net migration (000s), 3-county, females, Hispanic, age
 45_49
 (Identity)
 v_nmigfh45_49
 = v_nmig0_64.a*(v_nmigfh45_49[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH50_54 Net migration (000s), 3-county, females, Hispanic, age
 50_54
 (Identity)
 v_nmigfh50_54
 = v_nmig0_64.a*(v_nmigfh50_54[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGFH55_59 Net migration (000s), 3-county, females, Hispanic, age
55_59
(Identity)

v_nmigfh55_59

$$= v_nmig0_64.a*(v_nmigfh55_59[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFH5_9 Net migration (000s), 3-county, females, Hispanic, age
5_9
(Identity)

v_nmigfh5_9

$$= v_nmig0_64.a*(v_nmigfh5_9[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFH60_64 Net migration (000s), 3-county, females, Hispanic, age
60_64
(Identity)

v_nmigfh60_64

$$= v_nmig0_64.a*(v_nmigfh60_64[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFH65_69 Net migration (000s), 3-county, females, Hispanic, age
65_69
(Identity)

v_nmigfh65_69

$$= v_nmig65\&.a*(v_nmigfh65_69[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFH70_74 Net migration (000s), 3-county, females, Hispanic, age
70_74
(Identity)

v_nmigfh70_74

$$= v_nmig65\&.a*(v_nmigfh70_74[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFH75_79 Net migration (000s), 3-county, females, Hispanic, age
75_79
(Identity)

v_nmigfh75_79

$$= v_nmig65\&.a*(v_nmigfh75_79[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFH80_84 Net migration (000s), 3-county, females, Hispanic, age
80_84
(Identity)

v_nmigfh80_84

$$= v_nmig65\&.a*(v_nmigfh80_84[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFH85& Net migration (000s), 3-county, females, Hispanic, age 85

+

(Identity)

v_nmigfh85&

$$= v_nmig65\&.a*(v_nmigfh85\&[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFNH Net migration (000s), 3-county, females, non-Hispanic (Identity)

v_nmigfnh

$$= v_nmigfnh0_4+v_nmigfnh5_9+v_nmigfnh10_14+v_nmigfnh15_19+v_nmigfnh20_24+v_nmigfnh25_29+v_nmigfnh30_34+v_nmigfnh35_39+v_nmigfnh40_44+v_nmigfnh45_49+v_survrnmh50_54+v_nmigfnh55_59+v_nmigfnh60_64+v_nmigfnh65_69+v_nmigfnh70_74+v_nmigfnh75_79+v_nmigfnh80_84+v_nmigfnh85\&$$

V_EQSA:V_NMIGFNH0_4 Net migration (000s), 3-county, females, non-Hispanic, age 0_4

(Identity)

v_nmigfnh0_4

$$= v_nmig0_64.a*(v_nmigfnh0_4[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH10_14 Net migration (000s), 3-county, females, non-Hispanic, age 10_14

(Identity)

v_nmigfnh10_14

$$= v_nmig0_64.a*(v_nmigfnh10_14[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH15_19 Net migration (000s), 3-county, females, non-Hispanic, age 15_19

(Identity)

v_nmigfnh15_19

$$= v_nmig0_64.a*(v_nmigfnh15_19[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH20_24 Net migration (000s), 3-county, females, non-Hispanic, age 20_24

(Identity)

v_nmigfnh20_24

$$= v_nmig0_64.a*(v_nmigfnh20_24[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH25_29 Net migration (000s), 3-county, females, non-Hispanic,
age 25_29

(Identity)

v_nmigfnh25_29

$$= v_nmig0_64.a*(v_nmigfnh25_29[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH30_34 Net migration (000s), 3-county, females, non-Hispanic,
age 30_34

(Identity)

v_nmigfnh30_34

$$= v_nmig0_64.a*(v_nmigfnh30_34[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH35_39 Net migration (000s), 3-county, females, non-Hispanic,
age 35_39

(Identity)

v_nmigfnh35_39

$$= v_nmig0_64.a*(v_nmigfnh35_39[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH40_44 Net migration (000s), 3-county, females, non-Hispanic,
age 40_44

(Identity)

v_nmigfnh40_44

$$= v_nmig0_64.a*(v_nmigfnh40_44[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH45_49 Net migration (000s), 3-county, females, non-Hispanic,
age 45_49

(Identity)

v_nmigfnh45_49

$$= v_nmig0_64.a*(v_nmigfnh45_49[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH50_54 Net migration (000s), 3-county, females, non-Hispanic,
age 50_54

(Identity)

v_nmigfnh50_54

$$= v_nmig0_64.a*(v_nmigfnh50_54[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH55_59 Net migration (000s), 3-county, females, non-Hispanic,

age 55_59

(Identity)

v_nmigfnh55_59

$$= v_nmig0_64.a*(v_nmigfnh55_59[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH5_9 Net migration (000s), 3-county, females, non-Hispanic,

a

ge 5_9

(Identity)

v_nmigfnh5_9

$$= v_nmig0_64.a*(v_nmigfnh5_9[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH60_64 Net migration (000s), 3-county, females, non-Hispanic,

age 60_64

(Identity)

v_nmigfnh60_64

$$= v_nmig0_64.a*(v_nmigfnh60_64[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGFNH65_69 Net migration (000s), 3-county, females, non-Hispanic,

age 65_69

(Identity)

v_nmigfnh65_69

$$= v_nmig65\&.a*(v_nmigfnh65_69[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFNH70_74 Net migration (000s), 3-county, females, non-Hispanic,

age 70_74

(Identity)

v_nmigfnh70_74

$$= v_nmig65\&.a*(v_nmigfnh70_74[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFNH75_79 Net migration (000s), 3-county, females, non-Hispanic,

age 75_79

(Identity)

v_nmigfnh75_79

$$= v_nmig65\&.a*(v_nmigfnh75_79[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFNH80_84 Net migration (000s), 3-county, females, non-Hispanic,

age 80_84

(Identity)

v_nmigfnh80_84

$$= v_nmig65\&.a*(v_nmigfnh80_84[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGFNH85& Net migration (000s), 3-county, females, non-Hispanic,
a

ge 85+

(Identity)

v_nmigfnh85&

$$= v_nmig65\&.a*(v_nmigfnh85\&[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGH Net migration (000s), 3-county, Hispanic
(Identity)

v_nmigh

$$= v_nmigmh+v_nmigfh$$

V_EQSA:V_NMIGM Net migration (000s), 3-county, males
(Identity)

v_nmigm

$$= v_nmigmnh+v_nmigmh$$

V_EQSA:V_NMIGMH Net migration (000s), 3-county, males, Hispanic
(Identity)

v_nmigmh

$$= v_nmigmh0_4+v_nmigmh5_9+v_nmigmh10_14+v_nmigmh15_19+v_nmigmh20_24+v_nmigmh25_29+v_nmigmh30_34+v_nmigmh35_39+v_nmigmh40_44+v_nmigmh45_49+v_survrnmh50_54+v_nmigmh55_59+v_nmigmh60_64+v_nmigmh65_69+v_nmigmh70_74+v_nmigmh75_79+v_nmigmh80_84+v_nmigmh85\&$$

V_EQSA:V_NMIGMH0_4 Net migration (000s), 3-county, males, Hispanic, age 0_4
(Identity)

v_nmigmh0_4

$$= v_nmig0_64.a*(v_nmigmh0_4[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH10_14 Net migration (000s), 3-county, males, Hispanic, age
10
_14
(Identity)

v_nmigmh10_14

$$= v_nmig0_64.a*(v_nmigmh10_14[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH15_19 Net migration (000s), 3-county, males, Hispanic, age
15
_19
(Identity)

v_nmigmh15_19

$$= v_nmig0_64.a*(v_nmigmh15_19[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH20_24 Net migration (000s), 3-county, males, Hispanic, age
20
_24
(Identity)

v_nmigmh20_24

$$= v_nmig0_64.a*(v_nmigmh20_24[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH25_29 Net migration (000s), 3-county, males, Hispanic, age
25
_29
(Identity)

v_nmigmh25_29

$$= v_nmig0_64.a*(v_nmigmh25_29[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH30_34 Net migration (000s), 3-county, males, Hispanic, age
30
_34
(Identity)

v_nmigmh30_34

$$= v_nmig0_64.a*(v_nmigmh30_34[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH35_39 Net migration (000s), 3-county, males, Hispanic, age
35
_39
(Identity)

v_nmigmh35_39

$$= v_nmig0_64.a*(v_nmigmh35_39[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMH40_44 Net migration (000s), 3-county, males, Hispanic, age

40
 (Identity) _44
 v_nmigmh40_44
 = v_nmig0_64.a*(v_nmigmh40_44[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGMH45_49 Net migration (000s), 3-county, males, Hispanic, age
 45
 (Identity) _49
 v_nmigmh45_49
 = v_nmig0_64.a*(v_nmigmh45_49[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGMH50_54 Net migration (000s), 3-county, males, Hispanic, age
 50
 (Identity) _54
 v_nmigmh50_54
 = v_nmig0_64.a*(v_nmigmh50_54[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGMH55_59 Net migration (000s), 3-county, males, Hispanic, age
 55
 (Identity) _59
 v_nmigmh55_59
 = v_nmig0_64.a*(v_nmigmh55_59[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGMH5_9 Net migration (000s), 3-county, males, Hispanic, age 5_9
 (Identity)
 v_nmigmh5_9
 = v_nmig0_64.a*(v_nmigmh5_9[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGMH60_64 Net migration (000s), 3-county, males, Hispanic, age
 55
 (Identity) _59
 v_nmigmh60_64
 = v_nmig0_64.a*(v_nmigmh60_64[106a1]/v_nmig0_64[106a1])

V_EQSA:V_NMIGMH65_69 Net migration (000s), 3-county, males, Hispanic, age
 65
 (Identity) _69

v_nmigmh65_69

$$= v_nmig65\&.a*(v_nmigmh65_69[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMH70_74 Net migration (000s), 3-county, males, Hispanic, age
70

_74

(Identity)

v_nmigmh70_74

$$= v_nmig65\&.a*(v_nmigmh70_74[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMH75_79 Net migration (000s), 3-county, males, Hispanic, age
75

_79

(Identity)

v_nmigmh75_79

$$= v_nmig65\&.a*(v_nmigmh75_79[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMH80_84 Net migration (000s), 3-county, males, Hispanic, age
80

_84

(Identity)

v_nmigmh80_84

$$= v_nmig65\&.a*(v_nmigmh80_84[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMH85& Net migration (000s), 3-county, males, Hispanic, age 85+
(Identity)

v_nmigmh85&

$$= v_nmig65\&.a*(v_nmigmh85\&[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMNH Net migration (000s), 3-county, males, non-Hispanic
(Identity)

v_nmigmnh

$$= v_nmigmnh0_4+v_nmigmnh5_9+v_nmigmnh10_14+v_nmigmnh15_19+v_nmigmnh20_24+ \\ v_nmigmnh25_29+v_nmigmnh30_34+v_nmigmnh35_39+v_nmigmnh40_44+v_nmigmnh45_4 \\ 9 \\ +v_survrnmnh50_54+v_nmigmnh55_59+v_nmigmnh60_64+v_nmigmnh65_69+ \\ v_nmigmnh70_74+v_nmigmnh75_79+v_nmigmnh80_84+v_nmigmnh85\&$$

V_EQSA:V_NMIGMNH0_4 Net migration (000s), 3-county, males, non-Hispanic,
age

0_4

(Identity)

v_nmigmnh0_4

$$= v_nmig0_64.a*(v_nmigmnh0_4[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH10_14 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 10_14

(Identity)

v_nmigmnh10_14

$$= v_nmig0_64.a*(v_nmigmnh10_14[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH15_19 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 15_19

(Identity)

v_nmigmnh15_19

$$= v_nmig0_64.a*(v_nmigmnh15_19[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH20_24 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 20_24

(Identity)

v_nmigmnh20_24

$$= v_nmig0_64.a*(v_nmigmnh20_24[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH25_29 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 25_29

(Identity)

v_nmigmnh25_29

$$= v_nmig0_64.a*(v_nmigmnh25_29[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH30_34 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 30_34

(Identity)

v_nmigmnh30_34

$$= v_nmig0_64.a*(v_nmigmnh30_34[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH35_39 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 35_39

(Identity)

v_nmigmnh35_39

$$= v_nmig0_64.a*(v_nmigmnh35_39[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH40_44 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 40_44

(Identity)

v_nmigmnh40_44

$$= v_nmig0_64.a*(v_nmigmnh40_44[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH45_49 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 45_49

(Identity)

v_nmigmnh45_49

$$= v_nmig0_64.a*(v_nmigmnh45_49[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH50_54 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 50_54

(Identity)

v_nmigmnh50_54

$$= v_nmig0_64.a*(v_nmigmnh50_54[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH55_59 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 55_59

(Identity)

v_nmigmnh55_59

$$= v_nmig0_64.a*(v_nmigmnh55_59[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH5_9 Net migration (000s), 3-county, males, non-Hispanic,
age

5_9

(Identity)

v_nmigmnh5_9

$$= v_nmig0_64.a*(v_nmigmnh5_9[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH60_64 Net migration (000s), 3-county, males, non-Hispanic,
a

ge 60_64

(Identity)

v_nmigmnh60_64

$$= v_nmig0_64.a*(v_nmigmnh60_64[106a1]/v_nmig0_64[106a1])$$

V_EQSA:V_NMIGMNH65_69 Net migration (000s), 3-county, males, non-Hispanic,
a
ge 65_69

(Identity)

v_nmigmnh65_69

$$= v_nmig65\&.a*(v_nmigmnh65_69[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMNH70_74 Net migration (000s), 3-county, males, non-Hispanic,
a
ge 70_74

(Identity)

v_nmigmnh70_74

$$= v_nmig65\&.a*(v_nmigmnh70_74[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMNH75_79 Net migration (000s), 3-county, males, non-Hispanic,
a
ge 75_79

(Identity)

v_nmigmnh75_79

$$= v_nmig65\&.a*(v_nmigmnh75_79[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMNH80_84 Net migration (000s), 3-county, males, non-Hispanic,
a
ge 80_84

(Identity)

v_nmigmnh80_84

$$= v_nmig65\&.a*(v_nmigmnh80_84[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGMNH85& Net migration (000s), 3-county, males, non-Hispanic,
age
85+

(Identity)

v_nmigmnh85&

$$= v_nmig65\&.a*(v_nmigmnh85\&[106a1]/v_nmig65\&[106a1])$$

V_EQSA:V_NMIGNH Net migration (000s), 3-county, non-Hispanic
(Identity)

v_nmignh

$$= v_nmigmnh+v_nmigfnh$$

V_EQSA:V_POP Population (000s), 3-county, total/Source: US Census Bureau
(Identity)

v_pop

$$= v_popm+v_popf$$

V_EQSA:V_POP5_19 Population (000s), 3-county, school age
(Identity)

v_pop5_19

$$= v_popmnh5_9+v_popmh5_9+v_popfnh5_9+v_popfh5_9+v_popmnh10_14+v_popmh10_14+v_popfnh10_14+v_popfh10_14+v_popmnh15_19+v_popmh15_19+v_popfnh15_19+v_popfh15_19$$

V_EQSA:V_POP65& Population (000s), 3-county, age 65 and over
(Identity)

v_pop65&

$$= v_popmnh65_69+v_popmh65_69+v_popfnh65_69+v_popfh65_69+v_popmnh70_74+v_popmh70_74+v_popfnh70_74+v_popfh70_74+v_popmnh75_79+v_popmh75_79+v_popfnh75_79+v_popfh75_79+v_popmnh80_84+v_popmh80_84+v_popfnh80_84+v_popfh80_84+v_popmnh85&+v_popmh85&+v_popfnh85&+v_popfh85&$$

V_EQSA:V_POPF Population (000s), 3-county, females
(Identity)

v_popf

$$= v_popfnh+v_popfh$$

V_EQSA:V_POPFH
(Identity)

v_popfh

$$= v_popfh0_4+v_popfh5_9+v_popfh10_14+v_popfh15_19+v_popfh20_24+v_popfh25_29+v_popfh30_34+v_popfh35_39+v_popfh40_44+v_popfh45_49+v_survrnmh50_54+v_popfh55_59+v_popfh60_64+v_popfh65_69+v_popfh70_74+v_popfh75_79+v_popfh80_84+v_popfh85&$$

V_EQSA:V_POPFH0_4
(Identity)

v_popfh0_4

$$= 0.8*(v_popfh0_4[-1]*v_survrhf0_4[-1])+0.488*(v_birthsh)+v_nmigfh0_4$$

V_EQSA:V_POPFH10_14
(Identity)

v_popfh10_14

$$= 0.8*(v_popfh10_14[-1]*v_survrfh10_14[-1])+0.2*(v_popfh5_9[-1]*v_survrfh5_9[-1])+v_nmigfh10_14$$

V_EQSA:V_POPFH15_19

(Identity)

v_popfh15_19

$$= 0.8*(v_popfh15_19[-1]*v_survrfh15_19[-1])+0.2*(v_popfh10_14[-1]*v_survrfh10_14[-1])+v_nmigfh15_19$$

V_EQSA:V_POPFH20_24

(Identity)

v_popfh20_24

$$= 0.8*(v_popfh20_24[-1]*v_survrfh20_24[-1])+0.2*(v_popfh15_19[-1]*v_survrfh15_19[-1])+v_nmigfh20_24$$

V_EQSA:V_POPFH25_29

(Identity)

v_popfh25_29

$$= 0.8*(v_popfh25_29[-1]*v_survrfh25_29[-1])+0.2*(v_popfh20_24[-1]*v_survrfh20_24[-1])+v_nmigfh25_29$$

V_EQSA:V_POPFH30_34

(Identity)

v_popfh30_34

$$= 0.8*(v_popfh30_34[-1]*v_survrfh30_34[-1])+0.2*(v_popfh25_29[-1]*v_survrfh25_29[-1])+v_nmigfh30_34$$

V_EQSA:V_POPFH35_39

(Identity)

v_popfh35_39

$$= 0.8*(v_popfh35_39[-1]*v_survrfh35_39[-1])+0.2*(v_popfh30_34[-1]*v_survrfh30_34[-1])+v_nmigfh35_39$$

V_EQSA:V_POPFH40_44

(Identity)

v_popfh40_44

$$= 0.8*(v_popfh40_44[-1]*v_survrfh40_44[-1])+0.2*(v_popfh35_39[-1]*v_survrfh35_39[-1])+v_nmigfh40_44$$

V_EQSA:V_POPFH45_49
(Identity)

v_popfh45_49

$$= 0.8*(v_popfh45_49[-1]*v_survrfh45_49[-1])+0.2*(v_popfh40_44[-1]*v_survrfh40_44[-1])+v_nmigfh45_49$$

V_EQSA:V_POPFH50_54
(Identity)

v_popfh50_54

$$= 0.8*(v_popfh50_54[-1]*v_survrfh50_54[-1])+0.2*(v_popfh45_49[-1]*v_survrfh45_49[-1])+v_nmigfh50_54$$

V_EQSA:V_POPFH55_59
(Identity)

v_popfh55_59

$$= 0.8*(v_popfh55_59[-1]*v_survrfh55_59[-1])+0.2*(v_popfh50_54[-1]*v_survrfh50_54[-1])+v_nmigfh55_59$$

V_EQSA:V_POPFH5_9
(Identity)

v_popfh5_9

$$= 0.8*(v_popfh5_9[-1]*v_survrfh5_9[-1])+0.2*(v_popfh0_4[-1]*v_survrfh0_4[-1])+v_nmigfh5_9$$

V_EQSA:V_POPFH60_64
(Identity)

v_popfh60_64

$$= 0.8*(v_popfh60_64[-1]*v_survrfh60_64[-1])+0.2*(v_popfh55_59[-1]*v_survrfh55_59[-1])+v_nmigfh60_64$$

V_EQSA:V_POPFH65_69
(Identity)

v_popfh65_69

$$= 0.8*(v_popfh65_69[-1]*v_survrfh65_69[-1])+0.2*(v_popfh60_64[-1]*v_survrfh60_64[-1])+v_nmigfh65_69$$

V_EQSA:V_POPFH70_74
(Identity)

v_popfh70_74

$$= 0.8*(v_popfh70_74[-1]*v_survrfh70_74[-1])+0.2*(v_popfh65_69[-1]*$$

v_survrfh65_69[-1])+v_nmigfh70_74

V_EQSA:V_POPFH75_79
(Identity)

v_popfh75_79

= 0.8*(v_popfh75_79[-1]*v_survrfh75_79[-1])+0.2*(v_popfh70_74[-1]*
v_survrfh70_74[-1])+v_nmigfh75_79

V_EQSA:V_POPFH80_84
(Identity)

v_popfh80_84

= 0.8*(v_popfh80_84[-1]*v_survrfh80_84[-1])+0.2*(v_popfh75_79[-1]*
v_survrfh75_79[-1])+v_nmigfh80_84

V_EQSA:V_POPFH85&
(Identity)

v_popfh85&

= v_popfh85&[-1]*v_survrfh85&[-1]+0.2*(v_popfh80_84[-1]*v_survrfh80_84[-1])
+
v_nmigfh85&

V_EQSA:V_POPFNH
(Identity)

v_popfnh

= v_popfnh0_4+v_popfnh5_9+v_popfnh10_14+v_popfnh15_19+v_popfnh20_24+
v_popfnh25_29+v_popfnh30_34+v_popfnh35_39+v_popfnh40_44+v_popfnh45_49+
v_survrnmh50_54+v_popfnh55_59+v_popfnh60_64+v_popfnh65_69+v_popfnh70_74+
v_popfnh75_79+v_popfnh80_84+v_popfnh85&

V_EQSA:V_POPFNH0_4
(Identity)

v_popfnh0_4

= 0.8*(v_popfnh0_4[-1]*v_survrfnh0_4[-1])+0.488*(v_birthsnh)+v_nmigfnh0_4

V_EQSA:V_POPFNH10_14
(Identity)

v_popfnh10_14

= 0.8*(v_popfnh10_14[-1]*v_survrfnh10_14[-1])+0.2*(v_popfnh5_9[-1]*
v_survrfnh5_9[-1])+v_nmigfnh10_14

V_EQSA:V_POPFNH15_19

(Identity)

v_popfnh15_19

$$= 0.8*(v_popfnh15_19[-1]*v_survrfnh15_19[-1])+0.2*(v_popfnh10_14[-1]*v_survrfnh10_14[-1])+v_nmigfnh15_19$$

V_EQSA:V_POPFNH20_24
(Identity)

v_popfnh20_24

$$= 0.8*(v_popfnh20_24[-1]*v_survrfnh20_24[-1])+0.2*(v_popfnh15_19[-1]*v_survrfnh15_19[-1])+v_nmigfnh20_24$$

V_EQSA:V_POPFNH25_29
(Identity)

v_popfnh25_29

$$= 0.8*(v_popfnh25_29[-1]*v_survrfnh25_29[-1])+0.2*(v_popfnh20_24[-1]*v_survrfnh20_24[-1])+v_nmigfnh25_29$$

V_EQSA:V_POPFNH30_34
(Identity)

v_popfnh30_34

$$= 0.8*(v_popfnh30_34[-1]*v_survrfnh30_34[-1])+0.2*(v_popfnh25_29[-1]*v_survrfnh25_29[-1])+v_nmigfnh30_34$$

V_EQSA:V_POPFNH35_39
(Identity)

v_popfnh35_39

$$= 0.8*(v_popfnh35_39[-1]*v_survrfnh35_39[-1])+0.2*(v_popfnh30_34[-1]*v_survrfnh30_34[-1])+v_nmigfnh35_39$$

V_EQSA:V_POPFNH40_44
(Identity)

v_popfnh40_44

$$= 0.8*(v_popfnh40_44[-1]*v_survrfnh40_44[-1])+0.2*(v_popfnh35_39[-1]*v_survrfnh35_39[-1])+v_nmigfnh40_44$$

V_EQSA:V_POPFNH45_49
(Identity)

v_popfnh45_49

$$= 0.8*(v_popfnh45_49[-1]*v_survrfnh45_49[-1])+0.2*(v_popfnh40_44[-1]*v_survrfnh40_44[-1])+v_nmigfnh45_49$$

V_EQSA:V_POPFNH50_54
(Identity)

v_popfnh50_54

$$= 0.8*(v_popfnh50_54[-1]*v_survrfnh50_54[-1])+0.2*(v_popfnh45_49[-1]*v_survrfnh45_49[-1])+v_nmigfnh50_54$$

V_EQSA:V_POPFNH55_59
(Identity)

v_popfnh55_59

$$= 0.8*(v_popfnh55_59[-1]*v_survrfnh55_59[-1])+0.2*(v_popfnh50_54[-1]*v_survrfnh50_54[-1])+v_nmigfnh55_59$$

V_EQSA:V_POPFNH5_9
(Identity)

v_popfnh5_9

$$= 0.8*(v_popfnh5_9[-1]*v_survrfnh5_9[-1])+0.2*(v_popfnh0_4[-1]*v_survrfnh0_4[-1])+v_nmigfnh5_9$$

V_EQSA:V_POPFNH60_64
(Identity)

v_popfnh60_64

$$= 0.8*(v_popfnh60_64[-1]*v_survrfnh60_64[-1])+0.2*(v_popfnh55_59[-1]*v_survrfnh55_59[-1])+v_nmigfnh60_64$$

V_EQSA:V_POPFNH65_69
(Identity)

v_popfnh65_69

$$= 0.8*(v_popfnh65_69[-1]*v_survrfnh65_69[-1])+0.2*(v_popfnh60_64[-1]*v_survrfnh60_64[-1])+v_nmigfnh65_69$$

V_EQSA:V_POPFNH70_74
(Identity)

v_popfnh70_74

$$= 0.8*(v_popfnh70_74[-1]*v_survrfnh70_74[-1])+0.2*(v_popfnh65_69[-1]*v_survrfnh65_69[-1])+v_nmigfnh70_74$$

V_EQSA:V_POPFNH75_79
(Identity)

v_popfnh75_79

$$= 0.8*(v_popfnh75_79[-1]*v_survrfnh75_79[-1])+0.2*(v_popfnh70_74[-1]*v_survrfnh70_74[-1])+v_nmigfnh75_79$$

V_EQSA:V_POPFNH80_84
(Identity)

v_popfnh80_84

$$= 0.8*(v_popfnh80_84[-1]*v_survrfnh80_84[-1])+0.2*(v_popfnh75_79[-1]*v_survrfnh75_79[-1])+v_nmigfnh80_84$$

V_EQSA:V_POPFNH85&
(Identity)

v_popfnh85&

$$= v_popfnh85\&[-1]*v_survrfnh85\&[-1]+0.2*(v_popfnh80_84[-1]*v_survrfnh80_84[-1])+v_nmigfnh85\&$$

V_EQSA:V_POPH Population (000s), 3-county, Hispanic
(Identity)

v_poph

$$= v_popmh+v_popfh$$

V_EQSA:V_POPM Population (000s), 3-county, males
(Identity)

v_popm

$$= v_popmnh+v_popmh$$

V_EQSA:V_POPMH
(Identity)

v_popmh

$$= v_popmh0_4+v_popmh5_9+v_popmh10_14+v_popmh15_19+v_popmh20_24+v_popmh25_29+v_popmh30_34+v_popmh35_39+v_popmh40_44+v_popmh45_49+v_survrmnh50_54+v_popmh55_59+v_popmh60_64+v_popmh65_69+v_popmh70_74+v_popmh75_79+v_popmh80_84+v_popmh85\&$$

V_EQSA:V_POPMH0_4
(Identity)

v_popmh0_4

$$= 0.8*(v_popmh0_4[-1]*v_survrmh0_4[-1])+0.512*(v_birthsh)+v_nmigmh0_4$$

V_EQSA:V_POPMH10_14
(Identity)

v_popmh10_14

$$= 0.8*(v_popmh10_14[-1]*v_survrh10_14[-1])+0.2*(v_popmh5_9[-1]*v_survrh5_9[-1])+v_nmigmh10_14$$

V_EQSA:V_POPMH15_19

(Identity)

v_popmh15_19

$$= 0.8*(v_popmh15_19[-1]*v_survrh15_19[-1])+0.2*(v_popmh10_14[-1]*v_survrh10_14[-1])+v_nmigmh15_19$$

V_EQSA:V_POPMH20_24

(Identity)

v_popmh20_24

$$= 0.8*(v_popmh20_24[-1]*v_survrh20_24[-1])+0.2*(v_popmh15_19[-1]*v_survrh15_19[-1])+v_nmigmh20_24$$

V_EQSA:V_POPMH25_29

(Identity)

v_popmh25_29

$$= 0.8*(v_popmh25_29[-1]*v_survrh25_29[-1])+0.2*(v_popmh20_24[-1]*v_survrh20_24[-1])+v_nmigmh25_29$$

V_EQSA:V_POPMH30_34

(Identity)

v_popmh30_34

$$= 0.8*(v_popmh30_34[-1]*v_survrh30_34[-1])+0.2*(v_popmh25_29[-1]*v_survrh25_29[-1])+v_nmigmh30_34$$

V_EQSA:V_POPMH35_39

(Identity)

v_popmh35_39

$$= 0.8*(v_popmh35_39[-1]*v_survrh35_39[-1])+0.2*(v_popmh30_34[-1]*v_survrh30_34[-1])+v_nmigmh35_39$$

V_EQSA:V_POPMH40_44

(Identity)

v_popmh40_44

$$= 0.8*(v_popmh40_44[-1]*v_survrh40_44[-1])+0.2*(v_popmh35_39[-1]*v_survrh35_39[-1])+v_nmigmh40_44$$

V_EQSA:V_POPMH45_49
(Identity)

v_popmh45_49

$$= 0.8*(v_popmh45_49[-1]*v_survrh45_49[-1])+0.2*(v_popmh40_44[-1]*v_survrh40_44[-1])+v_nmigmh45_49$$

V_EQSA:V_POPMH50_54
(Identity)

v_popmh50_54

$$= 0.8*(v_popmh50_54[-1]*v_survrh50_54[-1])+0.2*(v_popmh45_49[-1]*v_survrh45_49[-1])+v_nmigmh50_54$$

V_EQSA:V_POPMH55_59
(Identity)

v_popmh55_59

$$= 0.8*(v_popmh55_59[-1]*v_survrh55_59[-1])+0.2*(v_popmh50_54[-1]*v_survrh50_54[-1])+v_nmigmh55_59$$

V_EQSA:V_POPMH5_9
(Identity)

v_popmh5_9

$$= 0.8*(v_popmh5_9[-1]*v_survrh5_9[-1])+0.2*(v_popmh0_4[-1]*v_survrh0_4[-1])+v_nmigmh5_9$$

V_EQSA:V_POPMH60_64
(Identity)

v_popmh60_64

$$= 0.8*(v_popmh60_64[-1]*v_survrh60_64[-1])+0.2*(v_popmh55_59[-1]*v_survrh55_59[-1])+v_nmigmh60_64$$

V_EQSA:V_POPMH65_69
(Identity)

v_popmh65_69

$$= 0.8*(v_popmh65_69[-1]*v_survrh65_69[-1])+0.2*(v_popmh60_64[-1]*v_survrh60_64[-1])+v_nmigmh65_69$$

V_EQSA:V_POPMH70_74
(Identity)

v_popmh70_74

$$= 0.8*(v_popmh70_74[-1]*v_survrh70_74[-1])+0.2*(v_popmh65_69[-1]*$$

v_survrnh65_69[-1])+v_nmigh70_74

V_EQSA:V_POPMH75_79
(Identity)

v_popmh75_79

= 0.8*(v_popmh75_79[-1]*v_survrnh75_79[-1])+0.2*(v_popmh70_74[-1]*
v_survrnh70_74[-1])+v_nmigh75_79

V_EQSA:V_POPMH80_84
(Identity)

v_popmh80_84

= 0.8*(v_popmh80_84[-1]*v_survrnh80_84[-1])+0.2*(v_popmh75_79[-1]*
v_survrnh75_79[-1])+v_nmigh80_84

V_EQSA:V_POPMH85&
(Identity)

v_popmh85&

= v_popmh85&[-1]*v_survrnh85&[-1]+0.2*(v_popmh80_84[-1]*v_survrnh80_84[-1])
+
v_nmigh85&

V_EQSA:V_POPMNH
(Identity)

v_popmnh

= v_popmnh0_4+v_popmnh5_9+v_popmnh10_14+v_popmnh15_19+v_popmnh20_24+
v_popmnh25_29+v_popmnh30_34+v_popmnh35_39+v_popmnh40_44+v_popmnh45_49+
v_survrnh50_54+v_popmnh55_59+v_popmnh60_64+v_popmnh65_69+v_popmnh70_74+
v_popmnh75_79+v_popmnh80_84+v_popmnh85&

V_EQSA:V_POPMNH0_4
(Identity)

v_popmnh0_4

= 0.8*(v_popmnh0_4[-1]*v_survrnh0_4[-1])+0.512*(v_birthsnh)+v_nmighmnh0_4

V_EQSA:V_POPMNH10_14
(Identity)

v_popmnh10_14

= 0.8*(v_popmnh10_14[-1]*v_survrnh10_14[-1])+0.2*(v_popmnh5_9[-1]*
v_survrnh5_9[-1])+v_nmighmnh10_14

V_EQSA:V_POPMNH15_19

(Identity)

v_popmnh15_19

$$= 0.8*(v_popmnh15_19[-1]*v_survrmnh15_19[-1])+0.2*(v_popmnh10_14[-1]*v_survrmnh10_14[-1])+v_nmigmnh15_19$$

V_EQSA:V_POPMNH20_24
(Identity)

v_popmnh20_24

$$= 0.8*(v_popmnh20_24[-1]*v_survrmnh20_24[-1])+0.2*(v_popmnh15_19[-1]*v_survrmnh15_19[-1])+v_nmigmnh20_24$$

V_EQSA:V_POPMNH25_29
(Identity)

v_popmnh25_29

$$= 0.8*(v_popmnh25_29[-1]*v_survrmnh25_29[-1])+0.2*(v_popmnh20_24[-1]*v_survrmnh20_24[-1])+v_nmigmnh25_29$$

V_EQSA:V_POPMNH30_34
(Identity)

v_popmnh30_34

$$= 0.8*(v_popmnh30_34[-1]*v_survrmnh30_34[-1])+0.2*(v_popmnh25_29[-1]*v_survrmnh25_29[-1])+v_nmigmnh30_34$$

V_EQSA:V_POPMNH35_39
(Identity)

v_popmnh35_39

$$= 0.8*(v_popmnh35_39[-1]*v_survrmnh35_39[-1])+0.2*(v_popmnh30_34[-1]*v_survrmnh30_34[-1])+v_nmigmnh35_39$$

V_EQSA:V_POPMNH40_44
(Identity)

v_popmnh40_44

$$= 0.8*(v_popmnh40_44[-1]*v_survrmnh40_44[-1])+0.2*(v_popmnh35_39[-1]*v_survrmnh35_39[-1])+v_nmigmnh40_44$$

V_EQSA:V_POPMNH45_49
(Identity)

v_popmnh45_49

$$= 0.8*(v_popmnh45_49[-1]*v_survrmnh45_49[-1])+0.2*(v_popmnh40_44[-1]*v_survrmnh40_44[-1])+v_nmigmnh45_49$$

V_EQSA:V_POPMNH50_54
(Identity)

v_popmnh50_54

$$= 0.8*(v_popmnh50_54[-1]*v_survrnmnh50_54[-1])+0.2*(v_popmnh45_49[-1]*v_survrnmnh45_49[-1])+v_nmigmnh50_54$$

V_EQSA:V_POPMNH55_59
(Identity)

v_popmnh55_59

$$= 0.8*(v_popmnh55_59[-1]*v_survrnmnh55_59[-1])+0.2*(v_popmnh50_54[-1]*v_survrnmnh50_54[-1])+v_nmigmnh55_59$$

V_EQSA:V_POPMNH5_9
(Identity)

v_popmnh5_9

$$= 0.8*(v_popmnh5_9[-1]*v_survrnmnh5_9[-1])+0.2*(v_popmnh0_4[-1]*v_survrnmnh0_4[-1])+v_nmigmnh5_9$$

V_EQSA:V_POPMNH60_64
(Identity)

v_popmnh60_64

$$= 0.8*(v_popmnh60_64[-1]*v_survrnmnh60_64[-1])+0.2*(v_popmnh55_59[-1]*v_survrnmnh55_59[-1])+v_nmigmnh60_64$$

V_EQSA:V_POPMNH65_69
(Identity)

v_popmnh65_69

$$= 0.8*(v_popmnh65_69[-1]*v_survrnmnh65_69[-1])+0.2*(v_popmnh60_64[-1]*v_survrnmnh60_64[-1])+v_nmigmnh65_69$$

V_EQSA:V_POPMNH70_74
(Identity)

v_popmnh70_74

$$= 0.8*(v_popmnh70_74[-1]*v_survrnmnh70_74[-1])+0.2*(v_popmnh65_69[-1]*v_survrnmnh65_69[-1])+v_nmigmnh70_74$$

V_EQSA:V_POPMNH75_79
(Identity)

v_popmnh75_79

$$= 0.8*(v_popmnh75_79[-1]*v_survrnmh75_79[-1])+0.2*(v_popmnh70_74[-1]*v_survrnmh70_74[-1])+v_nmigmnh75_79$$

V_EQSA:V_POPMNH80_84
(Identity)

v_popmnh80_84

$$= 0.8*(v_popmnh80_84[-1]*v_survrnmh80_84[-1])+0.2*(v_popmnh75_79[-1]*v_survrnmh75_79[-1])+v_nmigmnh80_84$$

V_EQSA:V_POPMNH85&
(Identity)

v_popmnh85&

$$= v_popmnh85\&[-1]*v_survrnmh85\&[-1]+0.2*(v_popmnh80_84[-1]*v_survrnmh80_84[-1])+v_nmigmnh85\&$$

V_EQSA:V_POPNH Population (000s), 3-county, females, non-Hispanic
(Identity)

v_popnh

$$= v_popmnh+v_popfnh$$

V_EQSA:V_TXSFOOD
(Identity)

v_txsfood

$$= 0.71348*(cnfhome+cnffree)/ypd*v_ydp$$

V_EQSA:V_TXSRB
Cochrane-Orcutt
ANNUAL data for 41 periods from 1966 to 2006
Date: 11 SEP 2008

log(v_txsrb)

$$= 0.97616 * \log(v_yp/yp*cnfout) \\ (81.7016) \\ + 0.32333 * (v_enf.1/v_pop.1)/(eea.1/np.1) - 0.05118 \\ (1.38790) \quad (0.25147)$$

Sum Sq	0.0288	Std Err	0.0279	LHS Mean	7.3156
R Sq	0.9995	R Bar Sq	0.9994	F 3, 37	22631.0
D.W.(1)	1.7659	D.W.(2)	1.6409		

$$AR_0 = + 0.63048 * AR_1 \\ (4.88929)$$

V_TXSRB=exp(??)
V_EQSA:V_TXSRET
(Identity)

v_txsret

$$= v_txsrb+v_txsrslf+v_txsfood+(v_gas*pgas)$$

V_EQSA:V_TXSRSLF

Cochrane-Orcutt

ANNUAL data for 40 periods from 1967 to 2006

Date: 11 SEP 2008

log(v_txsrslf/cpi)

$$= \begin{array}{l} 1.13038 * \log(v_ydp/cpi) - 1.42365 * \log(csv/cons) \\ (13.7931) \qquad\qquad\qquad (3.63389) \\ + 0.02390 * \log(cdmvna/cons) + 0.35071 * \log(cpicxfae.1/cpi.1) \\ (0.46389) \qquad\qquad\qquad (1.37420) \\ + 0.06124 * \log(v_hutot) - 3.84410 \\ (3.79354) \qquad\qquad\qquad (3.78342) \end{array}$$

Sum Sq	0.0161	Std Err	0.0221	LHS Mean	9.3040
R Sq	0.9975	R Bar Sq	0.9971	F 6, 33	2225.17
D.W.(1)	1.7949	D.W.(2)	1.5939		

$$AR_0 = + 0.81129 * AR_1 \\ (8.48883)$$

V_TXSRSLF=exp(??)*cpi

V_EQSA:V_WRGOVFCIV

Ordinary Least Squares

ANNUAL data for 24 periods from 1983 to 2006

Date: 11 SEP 2008

log(v_wrgovfciv)

$$= \begin{array}{l} 0.83518 * \log(ypcompwsdg/(eg91+egsl)) \\ (8.41101) \\ - 5.53929 * eg91/(eg91+egsl) + 8.86233 \\ (5.08193) \qquad\qquad\qquad (17.4615) \end{array}$$

Sum Sq	0.0166	Std Err	0.0281	LHS Mean	10.8912
R Sq	0.9929	R Bar Sq	0.9922	F 2, 21	1464.33
D.W.(1)	0.8695	D.W.(2)	1.7781		

V_WRGOVFCIV=EXP(??)

V_EQSA:V_WRGOVMIL

(Identity)

v_wrgovfmil

$$= v_wrgovfmil[-1]*(1+(gfmlpay/100))$$

V_EQSA:V_WRGOVSL

Cochrane-Orcutt

ANNUAL data for 29 periods from 1978 to 2006

Date: 11 SEP 2008

log(v_wrgovsl)

$$= \begin{array}{l} 0.97160 * \log(gslcwss/egsl) - 0.95484 * v_egovsl.1/v_enf.1 \\ (9.8404) \qquad\qquad\qquad (0.97463) \end{array}$$

$$+ 7.17671$$

$$(19.4129)$$

Sum Sq	0.0106	Std Err	0.0206	LHS Mean	10.2496
R Sq	0.9972	R Bar Sq	0.9968	F 3, 25	2944.66
D.W.(1)	2.0576	D.W.(2)	1.6904		

$$AR_0 = + 0.86102 * AR_1$$

$$(7.34680)$$

V_WRGOVSL=exp(??)
 V_EQSA:V_WRPRIV
 Ordinary Least Squares
 ANNUAL data for 25 periods from 1982 to 2006
 Date: 11 SEP 2008

log(v_wrpriv)

$$= 1.03372 * \log(ypcompwsdp/eeap)$$

$$(40.6811)$$

$$+ 0.01828 * (v_enf.1/v_pop.1)/(eea.1/np.1)$$

$$(0.10758)$$

$$+ 0.03689 * \text{step}(100,1) + 6.74582$$

$$(2.84546) \quad (29.5475)$$

Sum Sq	0.0067	Std Err	0.0178	LHS Mean	10.2229
R Sq	0.9969	R Bar Sq	0.9965	F 3, 21	2266.35
D.W.(1)	0.4152	D.W.(2)	1.0458		

V_WRPRIV=EXP(??)
 V_EQSA:V_WRTLTP
 (Identity)

v_wrtlp

$$= v_ytlp/v_emb*1000$$

V_EQSA:V_YDIVINTRENT
 Cochrane-Orcutt
 ANNUAL data for 32 periods from 1975 to 2006
 Date: 11 SEP 2008

log(v_ydivintrent/v_ytlp)

$$=$$

$$+ 0.86323 * \log((yprentadj+ypadiv+ypaint)/(ypcompwsd+yppropadjf+yppropadjnf+ypcompsuppai))$$

$$(13.5514)$$

$$- 0.03850 * v_pop.1/np.1 + 0.36271$$

$$(10.3062) \quad (3.48854)$$

Sum Sq	0.0157	Std Err	0.0237	LHS Mean	-1.3285
R Sq	0.9738	R Bar Sq	0.9710	F 3, 28	346.890
D.W.(1)	1.4979	D.W.(2)	1.8097		

$$AR_0 = + 0.53970 * AR_1$$

$$(3.62864)$$

V_YDIVINTRENT=exp(??)*v_ytlp
 V_EQSA:V_YDP
 (Identity)

v_ydp

$$= v_yp*disc$$

V_EQSA:V_YGOV
(Identity)

v_ygov

$$= v_ygovfmil+v_ygovfciv+v_ygovsl$$

V_EQSA:V_YGOVFCIV
Ordinary Least Squares
ANNUAL data for 29 periods from 1978 to 2006
Date: 11 SEP 2008

log(v_ygovfciv)

$$= \begin{matrix} 0.99691 & * & \log(v_egovf*v_wrgovfciv) & - & 6.87194 \\ (177.498) & & & & (87.0845) \end{matrix}$$

Sum Sq	0.0069	Std Err	0.0160	LHS Mean	7.1247
R Sq	0.9991	R Bar Sq	0.9991	F 1, 27	31505.6
D.W. (1)	1.0928	D.W. (2)	1.4451		

V_YGOVFCIV=EXP(??)
V_EQSA:V_YGOVFMIL
(Identity)

v_ygovfmil

$$= v_embgovfmil*v_wrgovfmil/1000$$

V_EQSA:V_YGOVSL
Ordinary Least Squares
ANNUAL data for 29 periods from 1978 to 2006
Date: 11 SEP 2008

log(v_ygovsl)

$$= \begin{matrix} 0.97796 & * & \log(v_egovsl*v_wrgovsl) & - & 6.55808 \\ (165.998) & & & & (71.9766) \end{matrix}$$

Sum Sq	0.0109	Std Err	0.0201	LHS Mean	8.5540
R Sq	0.9990	R Bar Sq	0.9990	F 1, 27	27555.4
D.W. (1)	0.7282	D.W. (2)	1.7691		

V_YGOVSL=EXP(??)
V_EQSA:V_YP
(Identity)

v_yp

$$= v_ytlp+v_ydivintrent+v_ytp+v_yresadj-v_ypcsi$$

V_EQSA:V_YPCSI
Cochrane-Orcutt
ANNUAL data for 18 periods from 1989 to 2006

Date: 11 SEP 2008

log(v_ypcsi)

$$= \begin{matrix} 0.94443 & * & \log(v_ytlp) & + & 0.46410 & * & \log(rtxsigf) & - & 0.66412 \\ (111.558) & & & & (2.42686) & & & & (1.77355) \end{matrix}$$

Sum Sq	0.0018	Std Err	0.0114	LHS Mean	8.9583
R Sq	0.9993	R Bar Sq	0.9992	F 3, 14	6847.33
D.W.(1)	2.2904	D.W.(2)	1.9651		

$$AR_0 = + 0.19982 * AR_1 \\ (0.93786)$$

V_YPCSI=exp(??)

V_EQSA:V_YPRIV

Ordinary Least Squares

ANNUAL data for 32 periods from 1975 to 2006

Date: 11 SEP 2008

v_ypriv

$$= \begin{matrix} 1.27813 & * & v_epriv*v_wrpriv/1000 & - & 176.323 \\ (441.255) & & & & (1.49891) \end{matrix}$$

Sum Sq	4480374	Std Err	386.453	LHS Mean	42080.1
R Sq	0.9998	R Bar Sq	0.9998	F 1, 30	194706
D.W.(1)	0.5890	D.W.(2)	1.4165		

V_EQSA:V_YTLP

(Identity)

v_ytlp

$$= v_ypriv+v_ygov$$

V_EQSA:V_YTP

Cochrane-Orcutt

ANNUAL data for 26 periods from 1981 to 2006

Date: 15 SEP 2008

log(v_ytp/v_pop65&)

$$= \begin{matrix} 1.04502 & * & \log(yptrf/np65a) & - & 0.29322 \\ (15.5654) & & & & (1.24461) \end{matrix}$$

Sum Sq	0.0071	Std Err	0.0175	LHS Mean	2.9927
R Sq	0.9982	R Bar Sq	0.9980	F 2, 23	6345.61
D.W.(1)	0.9940	D.W.(2)	1.5133		

$$AR_0 = + 0.86358 * AR_1 \\ (8.48941)$$

V_YTP=exp(??)*v_pop65&

V_EQSA:YBASSSP

(Identity)

ybasssp

$$= ybasssp.1*(cpi/cpi.1)$$