United States Models

|-> RESET

O---------------------------------------------------------O

| NLOGIT 5 (tm) Feb 25, 2017, 07:50:44PM |

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| Plainview, New York 11803 |

| Registered to Joanna Karavolias |

| University of Florida |

| Registration Number 1206-0012703-LSL |

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-------Initializing NLOGIT Version 5 (May 1, 2012)--------

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|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\US\US\_Monsanto.csv"$

Last observation read from data file was 11070

Error 535: Warning: Name Q7\_1\_VIT was in use. Replaced with X89

Error 535: Warning: Name Q11\_10\_6 was in use. Replaced with X123

Error 535: Warning: Name LOCATION was in use. Replaced with X125

Error 535: Warning: Name LOCATION was in use. Replaced with X126

|-> create; CDProd = total\_CD \* producer$

|-> create; CDPrice = total\_CD \* price$

|-> create; TechPri= total\_te \* price$

|-> create; NepPri= total\_ne \* price$

|-> create; monsanto=producer=1$

|-> create; sfc=producer=2$

|-> create; public=producer=3$

|-> GMXLOGIT; Lhs = choice; Choices =A, B, C;

Model: U(A, B)=P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;

Fcn =mon(n), fam(n), pub(n), seed(n), P(L) $;

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

|WARNING: Bad observations were found in the sample. |

|Found 25 bad observations among 3690 individuals. |

|You can use ;CheckData to get a list of these points. |

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

Normal exit: 5 iterations. Status=0, F= 3481.064

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3481.06426

Estimation based on N = 3665, K = 6

Inf.Cr.AIC = 6974.1 AIC/N = 1.903

Model estimated: Feb 25, 2017, 19:51:30

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

Constants only -4009.0062 .1317 .1301

Response data are given as ind. choices

Number of obs.= 3690, skipped 25 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

MON| -1.90438\*\*\* .08818 -21.60 .0000 -2.07721 -1.73155

FAM| -.71900\*\*\* .06815 -10.55 .0000 -.85258 -.58543

PUB| -1.11083\*\*\* .07103 -15.64 .0000 -1.25004 -.97162

SEED| .51833\*\*\* .05436 9.54 .0000 .41179 .62487

P| -2.23868\*\*\* .10230 -21.88 .0000 -2.43918 -2.03818

A| -4.56396\*\*\* .19807 -23.04 .0000 -4.95216 -4.17575

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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Initial iterations cannot improve function.Status=3

Error 805: Initial iterations cannot improve function.Status=3

Function= .97172281234D+04, at entry, .44998849092D+04 at exit

Error 1025: Failed to fit model. See earlier diagnostic.

|-> histogram; rhs=logl\_obs ;

title=US Monsanto $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.696438 1.355269 -9.527155 0.0 10998 72

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DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\US\US\_emotional.csv"$

Last observation read from data file was 11502

Error 535: Warning: Name Q7\_1\_VIT was in use. Replaced with X89

Error 535: Warning: Name Q11\_10\_6 was in use. Replaced with X123

Error 535: Warning: Name LOCATION was in use. Replaced with X125

Error 535: Warning: Name LOCATION was in use. Replaced with X126

|-> create; CDProd = total\_CD \* producer$

|-> create; CDPrice = total\_CD \* price$

|-> create; TechPri= total\_te \* price$

|-> create; NepPri= total\_ne \* price$

|-> create; monsanto=producer=1$

|-> create; sfc=producer=2$

|-> create; public=producer=3$

|-> GMXLOGIT; Lhs = choice; Choices =A, B, C;

Model: U(A, B)=P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;

Fcn =mon(n), fam(n), pub(n), seed(n), P(L) $;

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

|WARNING: Bad observations were found in the sample. |

|Found 150 bad observations among 3834 individuals. |

|You can use ;CheckData to get a list of these points. |

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

Normal exit: 5 iterations. Status=0, F= 3460.682

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3460.68207

Estimation based on N = 3684, K = 6

Inf.Cr.AIC = 6933.4 AIC/N = 1.882

Model estimated: Feb 25, 2017, 19:57:45

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

Constants only -4013.7778 .1378 .1363

Response data are given as ind. choices

Number of obs.= 3834, skipped 150 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

MON| -2.00510\*\*\* .08813 -22.75 .0000 -2.17783 -1.83236

FAM| -.75293\*\*\* .06751 -11.15 .0000 -.88524 -.62062

PUB| -1.26522\*\*\* .07147 -17.70 .0000 -1.40529 -1.12515

SEED| .47027\*\*\* .05348 8.79 .0000 .36546 .57508

P| -2.15105\*\*\* .10097 -21.30 .0000 -2.34895 -1.95315

A| -4.62299\*\*\* .19895 -23.24 .0000 -5.01292 -4.23306

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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Line search at iteration 6 does not improve fn. Exiting optimization.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -3011.23088

Restricted log likelihood -4047.28767

Chi squared [ 13 d.f.] 2072.11359

Significance level .00000

McFadden Pseudo R-squared .2559879

Estimation based on N = 3684, K = 13

Inf.Cr.AIC = 6048.5 AIC/N = 1.642

Model estimated: Feb 25, 2017, 20:07:00

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

No coefficients -4047.2877 .2560 .2547

Constants only -4013.7778 .2498 .2485

At start values -9185.6113 .6722 .6716

Response data are given as ind. choices

Replications for simulated probs. = 100

Used pseudo random draws (Mersenne twister)

RPL model with panel has 426 groups

Fixed number of obsrvs./group= 9

BHHH estimator used for asymp. variance

Number of obs.= 3834, skipped 150 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

|Random parameters in utility functions

MON| -2.63027\*\*\* .16840 -15.62 .0000 -2.96033 -2.30022

FAM| -1.73357\*\*\* .09237 -18.77 .0000 -1.91463 -1.55252

PUB| -2.21587\*\*\* .13492 -16.42 .0000 -2.48031 -1.95144

SEED| -.47736\*\*\* .07861 -6.07 .0000 -.63143 -.32329

P| -2.78520\*\*\* .59622 -4.67 .0000 -3.95377 -1.61663

|Nonrandom parameters in utility functions

A| -2.39367\*\*\* .15391 -15.55 .0000 -2.69532 -2.09202

|Distns. of RPs. Std.Devs or limits of triangular

NsMON| .01013 .54615 .02 .9852 -1.06030 1.08057

NsFAM| .02581 .23103 .11 .9110 -.42699 .47862

NsPUB| .00270 .51855 .01 .9958 -1.01364 1.01904

NsSEED| .53640\*\*\* .08358 6.42 .0000 .37259 .70021

LsP| .01629 2.14262 .01 .9939 -4.18315 4.21574

|Variance parameter tau in GMX scale parameter

TauScale| .00978 29.57337 .00 .9997 -57.95295 57.97251

|Weighting parameter gamma in GMX model

GammaMXL| .00101 .30505 .00 .9974 -.59688 .59890

| Sample Mean Sample Std.Dev.

Sigma(i)| .12098 21.20710 .01 .9954 -41.44417 41.68614

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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

|-> histogram; rhs=logl\_obs ;

title=US Emotional $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.556255 .876945 -5.369085 0.0 11103 399

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DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\US\US\_simple.csv"$

Last observation read from data file was 11313

Error 535: Warning: Name Q7\_1\_VIT was in use. Replaced with X89

Error 535: Warning: Name Q11\_10\_6 was in use. Replaced with X123

Error 535: Warning: Name LOCATION was in use. Replaced with X125

Error 535: Warning: Name LOCATION was in use. Replaced with X126

|-> create; CDProd = total\_CD \* producer$

|-> create; CDPrice = total\_CD \* price$

|-> create; TechPri= total\_te \* price$

|-> create; NepPri= total\_ne \* price$

|-> create; monsanto=producer=1$

|-> create; sfc=producer=2$

|-> create; public=producer=3$

|-> GMXLOGIT; Lhs = choice; Choices =A, B, C;

Model: U(A, B)=P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;

Fcn =mon(n), fam(n), pub(n), seed(n), P(L) $;

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

|WARNING: Bad observations were found in the sample. |

|Found 81 bad observations among 3771 individuals. |

|You can use ;CheckData to get a list of these points. |

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

Normal exit: 5 iterations. Status=0, F= 3447.623

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3447.62295

Estimation based on N = 3690, K = 6

Inf.Cr.AIC = 6907.2 AIC/N = 1.872

Model estimated: Feb 25, 2017, 20:08:12

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

Constants only -4022.9585 .1430 .1415

Response data are given as ind. choices

Number of obs.= 3771, skipped 81 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

MON| -1.94686\*\*\* .08882 -21.92 .0000 -2.12094 -1.77279

FAM| -.70940\*\*\* .06876 -10.32 .0000 -.84417 -.57463

PUB| -1.23511\*\*\* .07204 -17.15 .0000 -1.37629 -1.09392

SEED| .58508\*\*\* .05519 10.60 .0000 .47691 .69325

P| -2.39482\*\*\* .10377 -23.08 .0000 -2.59821 -2.19143

A| -4.83343\*\*\* .20040 -24.12 .0000 -5.22621 -4.44065

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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Line search at iteration 7 does not improve fn. Exiting optimization.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2989.65110

Restricted log likelihood -4053.87935

Chi squared [ 13 d.f.] 2128.45649

Significance level .00000

McFadden Pseudo R-squared .2625209

Estimation based on N = 3690, K = 13

Inf.Cr.AIC = 6005.3 AIC/N = 1.627

Model estimated: Feb 25, 2017, 20:14:09

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

No coefficients -4053.8793 .2625 .2612

Constants only -4022.9585 .2569 .2555

At start values -9948.2801 .6995 .6990

Response data are given as ind. choices

Replications for simulated probs. = 100

Used pseudo random draws (Mersenne twister)

RPL model with panel has 419 groups

Fixed number of obsrvs./group= 9

BHHH estimator used for asymp. variance

Number of obs.= 3771, skipped 81 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

|Random parameters in utility functions

MON| -4.23326\*\*\* .32309 -13.10 .0000 -4.86650 -3.60001

FAM| -2.79483\*\*\* .21920 -12.75 .0000 -3.22445 -2.36521

PUB| -3.28931\*\*\* .25253 -13.03 .0000 -3.78427 -2.79435

SEED| -.42926\*\*\* .10167 -4.22 .0000 -.62854 -.22999

P| -6.79328\*\*\* 1.96793 -3.45 .0006 -10.65035 -2.93621

|Nonrandom parameters in utility functions

A| -2.60635\*\*\* .15002 -17.37 .0000 -2.90038 -2.31232

|Distns. of RPs. Std.Devs or limits of triangular

NsMON| .25005 .67766 .37 .7121 -1.07814 1.57824

NsFAM| 1.08329\*\*\* .18301 5.92 .0000 .72459 1.44198

NsPUB| .36685 .43393 .85 .3979 -.48364 1.21734

NsSEED| .99341\*\*\* .10241 9.70 .0000 .79269 1.19412

LsP| .03003 4.42413 .01 .9946 -8.64111 8.70117

|Variance parameter tau in GMX scale parameter

TauScale| .26263 30.68271 .01 .9932 -59.87437 60.39964

|Weighting parameter gamma in GMX model

GammaMXL| .02724 .27899 .10 .9222 -.51957 .57406

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.16967 41.29163 .03 .9774 -79.76045 82.09978

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

Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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

|-> histogram; rhs=logl\_obs ;

title=US Simple $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.552270 .876841 -5.154175 0.0 11097 216

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\US\US\_benefit.csv"$

Last observation read from data file was 11070

Error 535: Warning: Name Q7\_1\_VIT was in use. Replaced with X89

Error 535: Warning: Name Q11\_10\_6 was in use. Replaced with X123

Error 535: Warning: Name LOCATION was in use. Replaced with X125

Error 535: Warning: Name LOCATION was in use. Replaced with X126

|-> create; CDProd = total\_CD \* producer$

|-> create; CDPrice = total\_CD \* price$

|-> create; TechPri= total\_te \* price$

|-> create; NepPri= total\_ne \* price$

|-> create; monsanto=producer=1$

|-> create; sfc=producer=2$

|-> create; public=producer=3$

|-> GMXLOGIT; Lhs = choice; Choices =A, B, C;

Model: U(A, B)=P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;

Fcn =mon(n), fam(n), pub(n), seed(n), P(L) $;

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

|WARNING: Bad observations were found in the sample. |

|Found 80 bad observations among 3690 individuals. |

|You can use ;CheckData to get a list of these points. |

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

Normal exit: 5 iterations. Status=0, F= 3454.176

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3454.17634

Estimation based on N = 3610, K = 6

Inf.Cr.AIC = 6920.4 AIC/N = 1.917

Model estimated: Feb 25, 2017, 20:26:14

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

Constants only -3956.5194 .1270 .1254

Response data are given as ind. choices

Number of obs.= 3690, skipped 80 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

MON| -1.92337\*\*\* .08897 -21.62 .0000 -2.09775 -1.74899

FAM| -.81555\*\*\* .06854 -11.90 .0000 -.94988 -.68121

PUB| -1.27521\*\*\* .07340 -17.37 .0000 -1.41907 -1.13135

SEED| .49049\*\*\* .05557 8.83 .0000 .38158 .59941

P| -2.07043\*\*\* .10291 -20.12 .0000 -2.27213 -1.86874

A| -4.14529\*\*\* .19955 -20.77 .0000 -4.53641 -3.75418

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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

Line search at iteration 2 does not improve fn. Exiting optimization.

With < 4 iterations, this may not be a good solution to the

optimization. (The log-likelihood is flat.) Try refitting

with ;Output=3 and examining the derivatives.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2867.37506

Restricted log likelihood -3965.99036

Chi squared [ 13 d.f.] 2197.23061

Significance level .00000

McFadden Pseudo R-squared .2770091

Estimation based on N = 3610, K = 13

Inf.Cr.AIC = 5760.8 AIC/N = 1.596

Model estimated: Feb 25, 2017, 20:30:57

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

No coefficients -3965.9904 .2770 .2757

Constants only -3956.5194 .2753 .2740

At start values -9853.8564 .7090 .7085

Response data are given as ind. choices

Replications for simulated probs. = 100

Used pseudo random draws (Mersenne twister)

RPL model with panel has 410 groups

Fixed number of obsrvs./group= 9

BHHH estimator used for asymp. variance

Number of obs.= 3690, skipped 80 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

|Random parameters in utility functions

MON| -2.01812\*\*\* .13744 -14.68 .0000 -2.28751 -1.74874

FAM| -1.98932\*\*\* .11785 -16.88 .0000 -2.22030 -1.75833

PUB| -1.83599\*\*\* .12467 -14.73 .0000 -2.08033 -1.59164

SEED| -.55387\*\*\* .08037 -6.89 .0000 -.71139 -.39636

P| -2.72250\*\*\* .59158 -4.60 .0000 -3.88198 -1.56302

|Nonrandom parameters in utility functions

A| -2.27598\*\*\* .17224 -13.21 .0000 -2.61356 -1.93840

|Distns. of RPs. Std.Devs or limits of triangular

NsMON| .00613 .48998 .01 .9900 -.95421 .96647

NsFAM| .08908 .33409 .27 .7898 -.56573 .74389

NsPUB| .01846 .44632 .04 .9670 -.85630 .89323

NsSEED| .54433\*\*\* .07592 7.17 .0000 .39553 .69314

LsP| .01016 1.75779 .01 .9954 -3.43506 3.45537

|Variance parameter tau in GMX scale parameter

TauScale| .00611 27.41129 .00 .9998 -53.71904 53.73125

|Weighting parameter gamma in GMX model

GammaMXL| .00061 .32947 .00 .9985 -.64514 .64636

| Sample Mean Sample Std.Dev.

Sigma(i)| .18596 21.63577 .01 .9931 -42.21937 42.59129

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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

|-> histogram; rhs=logl\_obs ;

title=US benefit $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.552283 .856966 -4.907164 0.0 10860 210

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\US\US\_control.csv"$

Last observation read from data file was 11070

Error 535: Warning: Name Q7\_1\_VIT was in use. Replaced with X89

Error 535: Warning: Name Q11\_10\_6 was in use. Replaced with X123

Error 535: Warning: Name LOCATION was in use. Replaced with X125

Error 535: Warning: Name LOCATION was in use. Replaced with X126

|-> create; CDProd = total\_CD \* producer$

|-> create; CDPrice = total\_CD \* price$

|-> create; TechPri= total\_te \* price$

|-> create; NepPri= total\_ne \* price$

|-> create; monsanto=producer=1$

|-> create; sfc=producer=2$

|-> create; public=producer=3$

|-> GMXLOGIT; Lhs = choice; Choices =A, B, C;

Model: U(A, B)=P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;

Fcn =mon(n), fam(n), pub(n), seed(n), P(L) $;

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

|WARNING: Bad observations were found in the sample. |

|Found 78 bad observations among 3690 individuals. |

|You can use ;CheckData to get a list of these points. |

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

Normal exit: 5 iterations. Status=0, F= 3396.438

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3396.43784

Estimation based on N = 3612, K = 6

Inf.Cr.AIC = 6804.9 AIC/N = 1.884

Model estimated: Feb 25, 2017, 20:36:32

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

Constants only -3947.4346 .1396 .1380

Response data are given as ind. choices

Number of obs.= 3690, skipped 78 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

MON| -2.14529\*\*\* .09020 -23.78 .0000 -2.32208 -1.96850

FAM| -1.02614\*\*\* .06854 -14.97 .0000 -1.16046 -.89181

PUB| -1.58310\*\*\* .07566 -20.92 .0000 -1.73139 -1.43481

SEED| .43662\*\*\* .05560 7.85 .0000 .32765 .54558

P| -1.86320\*\*\* .10196 -18.27 .0000 -2.06305 -1.66336

A| -3.99062\*\*\* .20238 -19.72 .0000 -4.38728 -3.59396

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Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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

Line search at iteration 11 does not improve fn. Exiting optimization.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2767.93448

Restricted log likelihood -3968.18759

Chi squared [ 13 d.f.] 2400.50621

Significance level .00000

McFadden Pseudo R-squared .3024688

Estimation based on N = 3612, K = 13

Inf.Cr.AIC = 5561.9 AIC/N = 1.540

Model estimated: Feb 25, 2017, 20:44:55

R2=1-LogL/LogL\* Log-L fncn R-sqrd R2Adj

No coefficients -3968.1876 .3025 .3012

Constants only -3947.4346 .2988 .2975

At start values -9231.9301 .7002 .6996

Response data are given as ind. choices

Replications for simulated probs. = 100

Used pseudo random draws (Mersenne twister)

RPL model with panel has 410 groups

Fixed number of obsrvs./group= 9

BHHH estimator used for asymp. variance

Number of obs.= 3690, skipped 78 obs

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

| Standard Prob. 95% Confidence

CHOICE| Coefficient Error z |z|>Z\* Interval

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

|Random parameters in utility functions

MON| -4.90567\*\*\* .30459 -16.11 .0000 -5.50265 -4.30869

FAM| -3.20821\*\*\* .21183 -15.15 .0000 -3.62340 -2.79303

PUB| -3.86692\*\*\* .23360 -16.55 .0000 -4.32478 -3.40907

SEED| -.61798\*\*\* .13390 -4.62 .0000 -.88043 -.35554

P| -5.61903\*\*\* 1.62247 -3.46 .0005 -8.79901 -2.43905

|Nonrandom parameters in utility functions

A| -2.72127\*\*\* .17517 -15.53 .0000 -3.06461 -2.37794

|Distns. of RPs. Std.Devs or limits of triangular

NsMON| .04837 .70233 .07 .9451 -1.32818 1.42491

NsFAM| 1.41450\*\*\* .17627 8.02 .0000 1.06902 1.75997

NsPUB| .18916 .43095 .44 .6607 -.65550 1.03381

NsSEED| 1.35647\*\*\* .12290 11.04 .0000 1.11559 1.59735

LsP| .19644 2.46281 .08 .9364 -4.63058 5.02345

|Variance parameter tau in GMX scale parameter

TauScale| .04345 9.27394 .00 .9963 -18.13315 18.22004

|Weighting parameter gamma in GMX model

GammaMXL| .00732 .46704 .02 .9875 -.90806 .92270

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.51723 1.94500 .78 .4354 -2.29489 5.32936

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

Note: \*\*\*, \*\*, \* ==> Significance at 1%, 5%, 10% level.

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

|-> histogram; rhs=logl\_obs ;

title=US Control$

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.538579 .862788 -5.222376 0.0 10863 207

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

DSTAT results are matrix LASTDSTA in current project.









