Germany Output

|-> RESET

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

| NLOGIT 5 (tm) Feb 25, 2017, 06:52:59PM |

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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\Austria.Germany\AUS\_Monsanto.csv"$

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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 83 bad observations among 3690 individuals. |

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

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

Normal exit: 5 iterations. Status=0, F= 3348.634

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3348.63361

Estimation based on N = 3607, K = 6

Inf.Cr.AIC = 6709.3 AIC/N = 1.860

Model estimated: Feb 25, 2017, 18:53:32

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

Constants only -3919.3465 .1456 .1441

Response data are given as ind. choices

Number of obs.= 3690, skipped 83 obs

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| Standard Prob. 95% Confidence

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

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

MON| -2.36198\*\*\* .09381 -25.18 .0000 -2.54584 -2.17812

FAM| -.60502\*\*\* .06439 -9.40 .0000 -.73121 -.47882

PUB| -1.49074\*\*\* .07366 -20.24 .0000 -1.63510 -1.34637

SEED| .41188\*\*\* .05307 7.76 .0000 .30786 .51589

P| -1.52998\*\*\* .09956 -15.37 .0000 -1.72512 -1.33484

A| -3.63328\*\*\* .19213 -18.91 .0000 -4.00985 -3.25670

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

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Line search at iteration 12 does not improve fn. Exiting optimization.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2806.71594

Restricted log likelihood -3962.69453

Chi squared [ 13 d.f.] 2311.95716

Significance level .00000

McFadden Pseudo R-squared .2917153

Estimation based on N = 3607, K = 13

Inf.Cr.AIC = 5639.4 AIC/N = 1.563

Model estimated: Feb 25, 2017, 19:03:58

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

No coefficients -3962.6945 .2917 .2904

Constants only -3919.3465 .2839 .2826

At start values -7291.7457 .6151 .6144

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 83 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.90649\*\*\* .25753 -15.17 .0000 -4.41125 -3.40174

FAM| -1.49760\*\*\* .11397 -13.14 .0000 -1.72098 -1.27423

PUB| -2.72723\*\*\* .19394 -14.06 .0000 -3.10734 -2.34712

SEED| -.00892 .08207 -.11 .9134 -.16977 .15193

P| -7.14207\*\* 3.22870 -2.21 .0270 -13.47022 -.81393

|Nonrandom parameters in utility functions

A| -2.43222\*\*\* .14064 -17.29 .0000 -2.70787 -2.15657

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

NsMON| .31636 .52179 .61 .5443 -.70632 1.33904

NsFAM| 1.63598\*\*\* .14330 11.42 .0000 1.35512 1.91684

NsPUB| 1.18968\*\*\* .22461 5.30 .0000 .74946 1.62991

NsSEED| .75493\*\*\* .06832 11.05 .0000 .62103 .88883

LsP| .16300 4.26655 .04 .9695 -8.19929 8.52529

|Variance parameter tau in GMX scale parameter

TauScale| .24807 12.39304 .02 .9840 -24.04184 24.53797

|Weighting parameter gamma in GMX model

GammaMXL| .06440 .66133 .10 .9224 -1.23178 1.36059

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.75679 23.77204 .07 .9411 -44.83555 48.34913

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

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|-> histogram; rhs=logl\_obs

title=histogram AUS Monsanto $

Error 71: Variable list contains a name not in the expected table.

Error 539: Variable list: The unidentifiable string is LOGL\_OBSTITLE

Error 83: RHS/RH1 variable in list not in the variable names table.

|-> histogram; rhs=logl\_obs ;

title=histogram AUS Monsanto $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.536523 .853876 -5.726105 0.0 10848 222

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

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

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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 11 bad observations among 3690 individuals. |

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

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

Normal exit: 6 iterations. Status=0, F= 3348.176

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3348.17583

Estimation based on N = 3679, K = 6

Inf.Cr.AIC = 6708.4 AIC/N = 1.823

Model estimated: Feb 25, 2017, 19:13:09

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

Constants only -4004.6815 .1639 .1625

Response data are given as ind. choices

Number of obs.= 3690, skipped 11 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -2.57186\*\*\* .09597 -26.80 .0000 -2.75996 -2.38375

FAM| -.75479\*\*\* .06482 -11.64 .0000 -.88184 -.62774

PUB| -1.69143\*\*\* .07487 -22.59 .0000 -1.83818 -1.54469

SEED| .41138\*\*\* .05378 7.65 .0000 .30596 .51679

P| -1.53571\*\*\* .10042 -15.29 .0000 -1.73253 -1.33888

A| -3.72766\*\*\* .19463 -19.15 .0000 -4.10913 -3.34619

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

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

Line search at iteration 9 does not improve fn. Exiting optimization.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2673.11243

Restricted log likelihood -4041.79461

Chi squared [ 13 d.f.] 2737.36437

Significance level .00000

McFadden Pseudo R-squared .3386323

Estimation based on N = 3679, K = 13

Inf.Cr.AIC = 5372.2 AIC/N = 1.460

Model estimated: Feb 25, 2017, 19:18:25

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

No coefficients -4041.7946 .3386 .3375

Constants only -4004.6815 .3325 .3313

At start values -7450.4131 .6412 .6406

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 11 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -5.51336\*\*\* .43272 -12.74 .0000 -6.36148 -4.66525

FAM| -2.29350\*\*\* .13593 -16.87 .0000 -2.55992 -2.02708

PUB| -3.58046\*\*\* .23051 -15.53 .0000 -4.03226 -3.12866

SEED| -.02629 .11450 -.23 .8184 -.25071 .19813

P| -7.37414\*\* 3.09288 -2.38 .0171 -13.43608 -1.31221

|Nonrandom parameters in utility functions

A| -2.66614\*\*\* .15800 -16.87 .0000 -2.97582 -2.35646

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

NsMON| 1.89035\*\*\* .38756 4.88 .0000 1.13074 2.64996

NsFAM| 1.84905\*\*\* .13430 13.77 .0000 1.58582 2.11228

NsPUB| .33907 .37853 .90 .3704 -.40283 1.08096

NsSEED| 1.13284\*\*\* .09795 11.57 .0000 .94086 1.32481

LsP| .03477 3.54983 .01 .9922 -6.92276 6.99230

|Variance parameter tau in GMX scale parameter

TauScale| 1.64794 121.9469 .01 .9892 -237.36351 240.65940

|Weighting parameter gamma in GMX model

GammaMXL| .27599 .49716 .56 .5788 -.69843 1.25041

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.96621 9.40388 .21 .8344 -16.46506 20.39747

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

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

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

|-> histogram; rhs=logl\_obs ;

title=histogram AUS Emotional $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.515547 .825001 -5.308849 0.0 11040 30

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

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

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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 3690 individuals. |

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

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

Normal exit: 5 iterations. Status=0, F= 3346.530

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3346.52965

Estimation based on N = 3609, K = 6

Inf.Cr.AIC = 6705.1 AIC/N = 1.858

Model estimated: Feb 25, 2017, 19:23:08

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

Constants only -3897.5626 .1414 .1398

Response data are given as ind. choices

Number of obs.= 3690, skipped 81 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -2.36988\*\*\* .09432 -25.12 .0000 -2.55475 -2.18501

FAM| -.50939\*\*\* .06384 -7.98 .0000 -.63452 -.38426

PUB| -1.34755\*\*\* .07212 -18.69 .0000 -1.48890 -1.20620

SEED| .46629\*\*\* .05275 8.84 .0000 .36291 .56968

P| -1.50026\*\*\* .09916 -15.13 .0000 -1.69461 -1.30591

A| -3.52555\*\*\* .18904 -18.65 .0000 -3.89606 -3.15504

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

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

Initial iterations cannot improve function.Status=3

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

Function= .70271789366D+04, at entry, .33893895343D+04 at exit

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

|-> histogram; rhs=logl\_obs ;

title= AUS Simple $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.588510 .968771 -5.228297 0.0 10854 216

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

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

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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 117 bad observations among 3690 individuals. |

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

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

Normal exit: 5 iterations. Status=0, F= 3304.931

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3304.93130

Estimation based on N = 3573, K = 6

Inf.Cr.AIC = 6621.9 AIC/N = 1.853

Model estimated: Feb 25, 2017, 19:29:17

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

Constants only -3893.6252 .1512 .1496

Response data are given as ind. choices

Number of obs.= 3690, skipped 117 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -2.42759\*\*\* .09501 -25.55 .0000 -2.61380 -2.24139

FAM| -.71789\*\*\* .06523 -11.00 .0000 -.84574 -.59003

PUB| -1.59335\*\*\* .07494 -21.26 .0000 -1.74023 -1.44646

SEED| .35106\*\*\* .05361 6.55 .0000 .24598 .45614

P| -1.49650\*\*\* .10058 -14.88 .0000 -1.69363 -1.29937

A| -3.66532\*\*\* .19592 -18.71 .0000 -4.04931 -3.28133

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

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

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

Line search at iteration 14 does not improve fn. Exiting optimization.

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

Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2752.92523

Restricted log likelihood -3925.34171

Chi squared [ 13 d.f.] 2344.83296

Significance level .00000

McFadden Pseudo R-squared .2986788

Estimation based on N = 3573, K = 13

Inf.Cr.AIC = 5531.9 AIC/N = 1.548

Model estimated: Feb 25, 2017, 19:38:52

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

No coefficients -3925.3417 .2987 .2974

Constants only -3893.6252 .2930 .2917

At start values -7271.4687 .6214 .6207

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 117 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -7.57906\*\*\* .52669 -14.39 .0000 -8.61135 -6.54676

FAM| -2.94424\*\*\* .19114 -15.40 .0000 -3.31886 -2.56962

PUB| -4.64265\*\*\* .30433 -15.26 .0000 -5.23913 -4.04618

SEED| -.00430 .13217 -.03 .9740 -.26335 .25475

P| -12.1282\*\* 5.39179 -2.25 .0245 -22.6959 -1.5605

|Nonrandom parameters in utility functions

A| -2.65198\*\*\* .14915 -17.78 .0000 -2.94432 -2.35965

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

NsMON| 1.27308\*\*\* .28703 4.44 .0000 .71051 1.83566

NsFAM| 1.07997\*\*\* .11634 9.28 .0000 .85194 1.30800

NsPUB| .75829\*\*\* .16680 4.55 .0000 .43136 1.08522

NsSEED| 1.16772\*\*\* .08442 13.83 .0000 1.00226 1.33317

LsP| .11453 1.17977 .10 .9227 -2.19778 2.42685

|Variance parameter tau in GMX scale parameter

TauScale| 1.25234 48.51303 .03 .9794 -93.83144 96.33612

|Weighting parameter gamma in GMX model

GammaMXL| 1.09698 2.14297 .51 .6087 -3.10317 5.29713

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.89106 34.77679 .05 .9566 -66.27019 70.05231

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

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

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

|-> histogram; rhs=logl\_obs ;

title=AUS Benefit $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.532485 .870806 -5.732841 0.0 10758 312

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

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

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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) $;

Error 1052: You did not provide ;FCN=label(distn),... for RPL model.

Error 1052: You did not provide ;FCN=label(distn),... for RPL model.

|-> reset$

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

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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) $;

Error 1052: You did not provide ;FCN=label(distn),... for RPL model.

Error 1052: You did not provide ;FCN=label(distn),... for RPL model.

|-> reset$

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

Last observation read from data file was 11070

Error 535: Warning: Name LOCATION was in use. Replaced with X113

Error 535: Warning: Name LOCATION was in use. Replaced with X114

|-> 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 83 bad observations among 3690 individuals. |

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

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

Normal exit: 6 iterations. Status=0, F= 3330.553

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3330.55323

Estimation based on N = 3607, K = 6

Inf.Cr.AIC = 6673.1 AIC/N = 1.850

Model estimated: Feb 25, 2017, 19:42:11

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

Constants only -3837.3239 .1321 .1305

Response data are given as ind. choices

Number of obs.= 3690, skipped 83 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -1.80325\*\*\* .08931 -20.19 .0000 -1.97830 -1.62820

FAM| .08264 .06255 1.32 .1865 -.03996 .20525

PUB| -1.13736\*\*\* .07168 -15.87 .0000 -1.27786 -.99686

SEED| .33908\*\*\* .05122 6.62 .0000 .23869 .43946

P| -1.72551\*\*\* .09958 -17.33 .0000 -1.92068 -1.53034

A| -3.96917\*\*\* .18921 -20.98 .0000 -4.34001 -3.59834

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

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

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 -3010.21911

Restricted log likelihood -3962.69453

Chi squared [ 13 d.f.] 1904.95084

Significance level .00000

McFadden Pseudo R-squared .2403605

Estimation based on N = 3607, K = 13

Inf.Cr.AIC = 6046.4 AIC/N = 1.676

Model estimated: Feb 25, 2017, 19:47:47

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

No coefficients -3962.6945 .2404 .2390

Constants only -3837.3239 .2155 .2141

At start values -7048.2326 .5729 .5721

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 83 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.76368\*\*\* .24256 -15.52 .0000 -4.23909 -3.28826

FAM| -1.39400\*\*\* .14156 -9.85 .0000 -1.67146 -1.11655

PUB| -2.91432\*\*\* .18122 -16.08 .0000 -3.26950 -2.55913

SEED| -.56738\*\*\* .09279 -6.11 .0000 -.74924 -.38551

P| -4.89475\*\*\* 1.41221 -3.47 .0005 -7.66262 -2.12687

|Nonrandom parameters in utility functions

A| -2.51047\*\*\* .14773 -16.99 .0000 -2.80002 -2.22092

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

NsMON| .12929 .59220 .22 .8272 -1.03140 1.28997

NsFAM| 1.92589\*\*\* .16679 11.55 .0000 1.59900 2.25279

NsPUB| .00222 .52226 .00 .9966 -1.02139 1.02583

NsSEED| .79318\*\*\* .08674 9.14 .0000 .62317 .96319

LsP| .03227 2.45963 .01 .9895 -4.78851 4.85306

|Variance parameter tau in GMX scale parameter

TauScale| .11289 17.75767 .01 .9949 -34.69149 34.91728

|Weighting parameter gamma in GMX model

GammaMXL| .01493 .46018 .03 .9741 -.88701 .91688

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.97842 1.81642 1.09 .2761 -1.58171 5.53854

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

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

|-> histogram; rhs=logl\_obs ;

title=AUS control $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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LOGL\_OBS| -.552345 .896931 -5.358593 0.0 10848 222

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DSTAT results are matrix LASTDSTA in current project.









