Spain Results

|-> RESET

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| NLOGIT 5 (tm) Feb 25, 2017, 06:55:29PM |

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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\spain\spain\_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 LOCATION was in use. Replaced with X116

Error 535: Warning: Name LOCATION was in use. Replaced with X117

|-> 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 63 bad observations among 3690 individuals. |

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

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Normal exit: 5 iterations. Status=0, F= 3560.473

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3560.47328

Estimation based on N = 3627, K = 6

Inf.Cr.AIC = 7132.9 AIC/N = 1.967

Model estimated: Feb 25, 2017, 18:56:43

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

Constants only -3933.6760 .0949 .0932

Response data are given as ind. choices

Number of obs.= 3690, skipped 63 obs

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| Standard Prob. 95% Confidence

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

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

MON| -1.60760\*\*\* .08343 -19.27 .0000 -1.77112 -1.44407

FAM| -.32965\*\*\* .06255 -5.27 .0000 -.45225 -.20705

PUB| -.93843\*\*\* .06942 -13.52 .0000 -1.07450 -.80236

SEED| .17254\*\*\* .04885 3.53 .0004 .07679 .26829

P| -1.52113\*\*\* .09400 -16.18 .0000 -1.70536 -1.33690

A| -3.68011\*\*\* .18577 -19.81 .0000 -4.04421 -3.31602

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

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Line search at iteration 10 does not improve fn. Exiting optimization.

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Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2918.29693

Restricted log likelihood -3984.66677

Chi squared [ 13 d.f.] 2132.73968

Significance level .00000

McFadden Pseudo R-squared .2676183

Estimation based on N = 3627, K = 13

Inf.Cr.AIC = 5862.6 AIC/N = 1.616

Model estimated: Feb 25, 2017, 19:02:31

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

No coefficients -3984.6668 .2676 .2663

Constants only -3933.6760 .2581 .2568

At start values -7495.3247 .6107 .6100

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 63 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.02111\*\*\* .20500 -14.74 .0000 -3.42290 -2.61931

FAM| -1.67578\*\*\* .14633 -11.45 .0000 -1.96258 -1.38897

PUB| -2.09697\*\*\* .12701 -16.51 .0000 -2.34590 -1.84804

SEED| -.68202\*\*\* .08012 -8.51 .0000 -.83906 -.52498

P| -7.84519\*\* 3.37382 -2.33 .0201 -14.45775 -1.23263

|Nonrandom parameters in utility functions

A| -3.09815\*\*\* .13508 -22.94 .0000 -3.36290 -2.83339

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

NsMON| .23114 .46038 .50 .6156 -.67120 1.13347

NsFAM| 2.09253\*\*\* .18636 11.23 .0000 1.72728 2.45779

NsPUB| .03351 .28824 .12 .9075 -.53143 .59845

NsSEED| .90777\*\*\* .08282 10.96 .0000 .74545 1.07009

LsP| .07290 5.00302 .01 .9884 -9.73284 9.87863

|Variance parameter tau in GMX scale parameter

TauScale| .19427 57.43137 .00 .9973 -112.36914 112.75768

|Weighting parameter gamma in GMX model

GammaMXL| .03699 .47883 .08 .9384 -.90151 .97549

| Sample Mean Sample Std.Dev.

Sigma(i)| 2.18888 11.75952 .19 .8523 -20.85935 25.23712

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

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

|-> histogram; rhs=logl\_obs;

title = Spain Monsanto $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.563435 .869102 -5.603848 0.0 10902 168

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DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\spain\spain\_emotional.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 LOCATION was in use. Replaced with X116

Error 535: Warning: Name LOCATION was in use. Replaced with X117

|-> 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= 3417.815

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3417.81532

Estimation based on N = 3609, K = 6

Inf.Cr.AIC = 6847.6 AIC/N = 1.897

Model estimated: Feb 25, 2017, 19:12:39

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

Constants only -3918.8576 .1279 .1263

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| -2.04427\*\*\* .08590 -23.80 .0000 -2.21263 -1.87592

FAM| -.89012\*\*\* .06592 -13.50 .0000 -1.01932 -.76092

PUB| -1.39036\*\*\* .07196 -19.32 .0000 -1.53139 -1.24933

SEED| .17350\*\*\* .05051 3.43 .0006 .07450 .27250

P| -1.51286\*\*\* .09653 -15.67 .0000 -1.70206 -1.32366

A| -4.00492\*\*\* .19721 -20.31 .0000 -4.39145 -3.61839

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

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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 -2729.41137

Restricted log likelihood -3964.89175

Chi squared [ 13 d.f.] 2470.96076

Significance level .00000

McFadden Pseudo R-squared .3116051

Estimation based on N = 3609, K = 13

Inf.Cr.AIC = 5484.8 AIC/N = 1.520

Model estimated: Feb 25, 2017, 19:19:00

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

No coefficients -3964.8917 .3116 .3104

Constants only -3918.8576 .3035 .3023

At start values -7325.1261 .6274 .6267

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 81 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -5.08130\*\*\* .32925 -15.43 .0000 -5.72662 -4.43597

FAM| -2.53459\*\*\* .17324 -14.63 .0000 -2.87414 -2.19504

PUB| -3.83050\*\*\* .26871 -14.26 .0000 -4.35715 -3.30385

SEED| -.46370\*\*\* .12025 -3.86 .0001 -.69939 -.22800

P| -6.99268\*\*\* 2.45496 -2.85 .0044 -11.80431 -2.18104

|Nonrandom parameters in utility functions

A| -3.49530\*\*\* .17145 -20.39 .0000 -3.83133 -3.15926

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

NsMON| .33314 .49153 .68 .4979 -.63024 1.29653

NsFAM| 1.79141\*\*\* .18110 9.89 .0000 1.43645 2.14636

NsPUB| 1.04611\*\*\* .20236 5.17 .0000 .64949 1.44273

NsSEED| 1.48043\*\*\* .14281 10.37 .0000 1.20053 1.76033

LsP| .14123 3.65563 .04 .9692 -7.02368 7.30614

|Variance parameter tau in GMX scale parameter

TauScale| .31609 21.02397 .02 .9880 -40.89013 41.52231

|Weighting parameter gamma in GMX model

GammaMXL| .03993 .29858 .13 .8936 -.54529 .62514

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.86134 5.07356 .37 .7137 -8.08265 11.80533

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

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

|-> histogram; rhs=logl\_obs ;

title=Spain Emotional $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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LOGL\_OBS| -.540966 .850888 -6.027909 0.0 10854 216

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DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\spain\spain\_simple.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 LOCATION was in use. Replaced with X116

Error 535: Warning: Name LOCATION was in use. Replaced with X117

|-> 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= 3433.379

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3433.37897

Estimation based on N = 3609, K = 6

Inf.Cr.AIC = 6878.8 AIC/N = 1.906

Model estimated: Feb 25, 2017, 19:22:47

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

Constants only -3913.5139 .1227 .1211

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| -1.93791\*\*\* .08431 -22.99 .0000 -2.10315 -1.77267

FAM| -.81828\*\*\* .06507 -12.58 .0000 -.94581 -.69075

PUB| -1.40818\*\*\* .07225 -19.49 .0000 -1.54978 -1.26658

SEED| .06011 .04963 1.21 .2258 -.03715 .15737

P| -1.41585\*\*\* .09548 -14.83 .0000 -1.60299 -1.22871

A| -3.95892\*\*\* .19647 -20.15 .0000 -4.34399 -3.57384

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

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Line search at iteration 5 does not improve fn. Exiting optimization.

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

Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2702.16633

Restricted log likelihood -3964.89175

Chi squared [ 13 d.f.] 2525.45084

Significance level .00000

McFadden Pseudo R-squared .3184766

Estimation based on N = 3609, K = 13

Inf.Cr.AIC = 5430.3 AIC/N = 1.505

Model estimated: Feb 25, 2017, 19:26:45

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

No coefficients -3964.8917 .3185 .3172

Constants only -3913.5139 .3095 .3083

At start values -7089.3533 .6188 .6182

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 81 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -5.08362\*\*\* .27697 -18.35 .0000 -5.62646 -4.54078

FAM| -2.78170\*\*\* .18118 -15.35 .0000 -3.13680 -2.42661

PUB| -3.40862\*\*\* .20225 -16.85 .0000 -3.80503 -3.01221

SEED| -.92823\*\*\* .11318 -8.20 .0000 -1.15006 -.70641

P| -4.52213\*\*\* 1.33293 -3.39 .0007 -7.13463 -1.90963

|Nonrandom parameters in utility functions

A| -3.90996\*\*\* .19870 -19.68 .0000 -4.29940 -3.52052

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

NsMON| .06029 .49944 .12 .9039 -.91859 1.03917

NsFAM| 1.85432\*\*\* .16961 10.93 .0000 1.52190 2.18674

NsPUB| .87146\*\*\* .22688 3.84 .0001 .42677 1.31614

NsSEED| 1.49690\*\*\* .12611 11.87 .0000 1.24973 1.74407

LsP| .06922 1.94655 .04 .9716 -3.74595 3.88439

|Variance parameter tau in GMX scale parameter

TauScale| .05150 6.70997 .01 .9939 -13.09980 13.20280

|Weighting parameter gamma in GMX model

GammaMXL| .00716 .29325 .02 .9805 -.56759 .58191

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.91183 1.35213 1.41 .1574 -.73830 4.56196

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

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

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

|-> histogram; rhs=logl\_obs ;

title=Spain simple $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.539706 .841813 -6.021503 0.0 10854 216

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\spain\spain\_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 LOCATION was in use. Replaced with X116

Error 535: Warning: Name LOCATION was in use. Replaced with X117

|-> 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 108 bad observations among 3690 individuals. |

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

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

Normal exit: 5 iterations. Status=0, F= 3420.944

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3420.94398

Estimation based on N = 3582, K = 6

Inf.Cr.AIC = 6853.9 AIC/N = 1.913

Model estimated: Feb 25, 2017, 19:29:56

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

Constants only -3924.1502 .1282 .1266

Response data are given as ind. choices

Number of obs.= 3690, skipped 108 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -2.04439\*\*\* .08638 -23.67 .0000 -2.21369 -1.87508

FAM| -1.09732\*\*\* .06775 -16.20 .0000 -1.23010 -.96454

PUB| -1.47911\*\*\* .07352 -20.12 .0000 -1.62321 -1.33502

SEED| .21262\*\*\* .05230 4.07 .0000 .11012 .31513

P| -1.52691\*\*\* .09792 -15.59 .0000 -1.71883 -1.33499

A| -3.82802\*\*\* .20073 -19.07 .0000 -4.22145 -3.43459

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

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

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

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

Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2691.34493

Restricted log likelihood -3935.22922

Chi squared [ 13 d.f.] 2487.76858

Significance level .00000

McFadden Pseudo R-squared .3160894

Estimation based on N = 3582, K = 13

Inf.Cr.AIC = 5408.7 AIC/N = 1.510

Model estimated: Feb 25, 2017, 19:36:16

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

No coefficients -3935.2292 .3161 .3148

Constants only -3924.1502 .3142 .3129

At start values -7902.2028 .6594 .6588

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 108 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -4.21032\*\*\* .28918 -14.56 .0000 -4.77710 -3.64354

FAM| -2.70342\*\*\* .16459 -16.43 .0000 -3.02601 -2.38083

PUB| -3.39084\*\*\* .20916 -16.21 .0000 -3.80078 -2.98090

SEED| -.63038\*\*\* .09397 -6.71 .0000 -.81456 -.44620

P| -4.02005\*\*\* 1.05179 -3.82 .0001 -6.08151 -1.95859

|Nonrandom parameters in utility functions

A| -2.92630\*\*\* .18357 -15.94 .0000 -3.28610 -2.56651

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

NsMON| .27122 .65351 .42 .6781 -1.00964 1.55209

NsFAM| .29213 .27460 1.06 .2874 -.24607 .83034

NsPUB| .12510 .49570 .25 .8008 -.84646 1.09667

NsSEED| .63221\*\*\* .10039 6.30 .0000 .43545 .82897

LsP| .02624 2.46084 .01 .9915 -4.79693 4.84940

|Variance parameter tau in GMX scale parameter

TauScale| .27452 19.11062 .01 .9885 -37.18161 37.73065

|Weighting parameter gamma in GMX model

GammaMXL| .02874 .31411 .09 .9271 -.58691 .64439

| Sample Mean Sample Std.Dev.

Sigma(i)| .39004 11.63722 .03 .9733 -22.41849 23.19858

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

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

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

|-> histogram; rhs=logl\_obs ;

title=Spain benefit $

|-> dstat; rhs=logl\_obs$

Descriptive Statistics for 1 variables

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

Variable| Mean Std.Dev. Minimum Maximum Cases Missing

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

LOGL\_OBS| -.540562 .850542 -5.668138 0.0 10782 288

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

DSTAT results are matrix LASTDSTA in current project.

|-> reset$

|-> import; file="E:\GM Project copy\Choice Experiment\spain\spain\_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 LOCATION was in use. Replaced with X116

Error 535: Warning: Name LOCATION was in use. Replaced with X117

|-> 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 63 bad observations among 3690 individuals. |

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

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

Normal exit: 5 iterations. Status=0, F= 3449.066

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

Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3449.06606

Estimation based on N = 3627, K = 6

Inf.Cr.AIC = 6910.1 AIC/N = 1.905

Model estimated: Feb 25, 2017, 19:41:16

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

Constants only -3976.0154 .1325 .1310

Response data are given as ind. choices

Number of obs.= 3690, skipped 63 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -2.13942\*\*\* .08849 -24.18 .0000 -2.31285 -1.96598

FAM| -1.04989\*\*\* .06687 -15.70 .0000 -1.18095 -.91883

PUB| -1.55427\*\*\* .07417 -20.96 .0000 -1.69964 -1.40890

SEED| .16830\*\*\* .05284 3.19 .0014 .06473 .27187

P| -1.49220\*\*\* .09860 -15.13 .0000 -1.68546 -1.29895

A| -3.74156\*\*\* .20041 -18.67 .0000 -4.13435 -3.34877

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

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

Line search at iteration 10 does not improve fn. Exiting optimization.

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

Generalized Mixed (RP) Logit Model

Dependent variable CHOICE

Log likelihood function -2664.88861

Restricted log likelihood -3984.66677

Chi squared [ 13 d.f.] 2639.55632

Significance level .00000

McFadden Pseudo R-squared .3312142

Estimation based on N = 3627, K = 13

Inf.Cr.AIC = 5355.8 AIC/N = 1.477

Model estimated: Feb 25, 2017, 19:46:58

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

No coefficients -3984.6668 .3312 .3300

Constants only -3976.0154 .3298 .3286

At start values -8107.5139 .6713 .6707

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 63 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -5.18079\*\*\* .28533 -18.16 .0000 -5.74004 -4.62155

FAM| -3.59153\*\*\* .22167 -16.20 .0000 -4.02599 -3.15706

PUB| -4.38695\*\*\* .28303 -15.50 .0000 -4.94167 -3.83223

SEED| -.98980\*\*\* .13481 -7.34 .0000 -1.25403 -.72557

P| -7.79648\*\* 3.08393 -2.53 .0115 -13.84088 -1.75208

|Nonrandom parameters in utility functions

A| -3.60330\*\*\* .18586 -19.39 .0000 -3.96758 -3.23901

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

NsMON| .05921 .43509 .14 .8918 -.79355 .91197

NsFAM| 1.62887\*\*\* .16887 9.65 .0000 1.29789 1.95985

NsPUB| 1.78341\*\*\* .22303 8.00 .0000 1.34628 2.22055

NsSEED| 1.35558\*\*\* .11984 11.31 .0000 1.12070 1.59046

LsP| .01890 2.40702 .01 .9937 -4.69877 4.73657

|Variance parameter tau in GMX scale parameter

TauScale| .04846 3.16191 .02 .9878 -6.14877 6.24568

|Weighting parameter gamma in GMX model

GammaMXL| .01873 .76406 .02 .9804 -1.47879 1.51626

| Sample Mean Sample Std.Dev.

Sigma(i)| 1.85832 1.41854 1.31 .1902 -.92198 4.63861

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

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

|-> histogram; rhs=logl\_obs ;

title=Spain 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| -.533974 .843525 -5.517215 0.0 10902 168

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DSTAT results are matrix LASTDSTA in current project.









