US Results

|-> RESET

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| NLOGIT 5 (tm) Mar 06, 2017, 08:38:39PM |

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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$

|-> create; price1=-price$

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

Model: U(A, B)=P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;checkdata;

Fcn =mon(n), fam(n), pub(n), seed(n) $

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| Inspecting the data set before estimation. |

| These errors mark observations which will be skipped. |

| Row Individual = 1st row then group number of data block |

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

10936 3646 Sum of LHS variable for all alts is zero

10939 3647 Sum of LHS variable for all alts is zero

10942 3648 Sum of LHS variable for all alts is zero

10945 3649 Sum of LHS variable for all alts is zero

10948 3650 Sum of LHS variable for all alts is zero

10951 3651 Sum of LHS variable for all alts is zero

10954 3652 Sum of LHS variable for all alts is zero

10957 3653 Sum of LHS variable for all alts is zero

10990 3664 Sum of LHS variable for all alts is zero

10993 3665 Sum of LHS variable for all alts is zero

10996 3666 Sum of LHS variable for all alts is zero

10999 3667 Sum of LHS variable for all alts is zero

11002 3668 Sum of LHS variable for all alts is zero

11005 3669 Sum of LHS variable for all alts is zero

11008 3670 Sum of LHS variable for all alts is zero

11011 3671 Sum of LHS variable for all alts is zero

11014 3672 Sum of LHS variable for all alts is zero

11044 3682 Sum of LHS variable for all alts is zero

11047 3683 Sum of LHS variable for all alts is zero

11050 3684 Sum of LHS variable for all alts is zero

11053 3685 Sum of LHS variable for all alts is zero

11056 3686 Sum of LHS variable for all alts is zero

11059 3687 Sum of LHS variable for all alts is zero

11062 3688 Sum of LHS variable for all alts is zero

11065 3689 Sum of LHS variable for all alts is zero

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: Mar 06, 2017, 20:39:05

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

Constants only -4009.0062 .1317 .1305

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

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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 2.03818 2.43918

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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Normal exit: 19 iterations. Status=0, F= 2841.426

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Random Parameters Logit Model

Dependent variable CHOICE

Log likelihood function -2841.42632

Restricted log likelihood -4026.41404

Chi squared [ 10 d.f.] 2369.97543

Significance level .00000

McFadden Pseudo R-squared .2943035

Estimation based on N = 3665, K = 10

Inf.Cr.AIC = 5702.9 AIC/N = 1.556

Model estimated: Mar 06, 2017, 20:42:30

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

No coefficients -4026.4140 .2943 .2933

Constants only -4009.0062 .2912 .2903

At start values -3481.0643 .1837 .1826

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

Number of obs.= 3690, skipped 25 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.42533\*\*\* .20107 -17.04 .0000 -3.81943 -3.03123

FAM| -1.30318\*\*\* .13620 -9.57 .0000 -1.57011 -1.03624

PUB| -1.96855\*\*\* .13832 -14.23 .0000 -2.23964 -1.69745

SEED| .42551\*\*\* .10012 4.25 .0000 .22927 .62175

|Nonrandom parameters in utility functions

P| 3.55951\*\*\* .15176 23.46 .0000 3.26207 3.85695

A| -8.13472\*\*\* .31608 -25.74 .0000 -8.75424 -7.51521

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

NsMON| 2.26228\*\*\* .23970 9.44 .0000 1.79248 2.73208

NsFAM| 2.11213\*\*\* .15407 13.71 .0000 1.81016 2.41411

NsPUB| 1.77878\*\*\* .16696 10.65 .0000 1.45154 2.10601

NsSEED| 1.33172\*\*\* .07627 17.46 .0000 1.18223 1.48121

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

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|-> 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$

|-> create; price1=-price$

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

Model: U(A, B)=P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;checkdata;

Fcn =mon(n), fam(n), pub(n), seed(n) $

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

| Inspecting the data set before estimation. |

| These errors mark observations which will be skipped. |

| Row Individual = 1st row then group number of data block |

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

9694 3232 Sum of LHS variable for all alts is zero

9700 3234 Sum of LHS variable for all alts is zero

9703 3235 Sum of LHS variable for all alts is zero

9709 3237 Sum of LHS variable for all alts is zero

9712 3238 Sum of LHS variable for all alts is zero

9718 3240 Sum of LHS variable for all alts is zero

11422 3808 Sum of LHS variable for all alts is zero

11428 3810 Sum of LHS variable for all alts is zero

11434 3812 Sum of LHS variable for all alts is zero

11437 3813 Sum of LHS variable for all alts is zero

11443 3815 Sum of LHS variable for all alts is zero

11476 3826 Sum of LHS variable for all alts is zero

11479 3827 Sum of LHS variable for all alts is zero

11482 3828 Sum of LHS variable for all alts is zero

11485 3829 Sum of LHS variable for all alts is zero

11488 3830 Sum of LHS variable for all alts is zero

11491 3831 Sum of LHS variable for all alts is zero

11494 3832 Sum of LHS variable for all alts is zero

11500 3834 Sum of LHS variable for all alts is zero

Normal exit: 5 iterations. Status=0, F= 3585.515

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3585.51501

Estimation based on N = 3815, K = 6

Inf.Cr.AIC = 7183.0 AIC/N = 1.883

Model estimated: Mar 06, 2017, 20:42:51

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

Constants only -4157.4357 .1376 .1364

Response data are given as ind. choices

Number of obs.= 3834, skipped 19 obs

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| Standard Prob. 95% Confidence

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

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

MON| -2.00457\*\*\* .08628 -23.23 .0000 -2.17368 -1.83545

FAM| -.78827\*\*\* .06639 -11.87 .0000 -.91839 -.65814

PUB| -1.29296\*\*\* .07035 -18.38 .0000 -1.43084 -1.15509

SEED| .43917\*\*\* .05236 8.39 .0000 .33655 .54179

P| 2.12148\*\*\* .09888 21.46 .0000 1.92768 2.31528

A| -4.62325\*\*\* .19610 -23.58 .0000 -5.00760 -4.23889

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

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Normal exit: 17 iterations. Status=0, F= 2874.717

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Random Parameters Logit Model

Dependent variable CHOICE

Log likelihood function -2874.71746

Restricted log likelihood -4191.20588

Chi squared [ 10 d.f.] 2632.97684

Significance level .00000

McFadden Pseudo R-squared .3141073

Estimation based on N = 3815, K = 10

Inf.Cr.AIC = 5769.4 AIC/N = 1.512

Model estimated: Mar 06, 2017, 20:46:16

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

No coefficients -4191.2059 .3141 .3132

Constants only -4157.4357 .3085 .3076

At start values -3585.5150 .1982 .1972

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

Number of obs.= 3834, skipped 19 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.71034\*\*\* .20728 -17.90 .0000 -4.11661 -3.30407

FAM| -1.62632\*\*\* .15135 -10.75 .0000 -1.92295 -1.32969

PUB| -2.29503\*\*\* .13505 -16.99 .0000 -2.55973 -2.03033

SEED| .37707\*\*\* .10136 3.72 .0002 .17840 .57573

|Nonrandom parameters in utility functions

P| 3.62733\*\*\* .15499 23.40 .0000 3.32356 3.93109

A| -8.73556\*\*\* .33349 -26.19 .0000 -9.38918 -8.08194

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

NsMON| 2.41138\*\*\* .27257 8.85 .0000 1.87716 2.94560

NsFAM| 2.45344\*\*\* .16024 15.31 .0000 2.13939 2.76750

NsPUB| 1.68834\*\*\* .16697 10.11 .0000 1.36109 2.01558

NsSEED| 1.46756\*\*\* .08263 17.76 .0000 1.30562 1.62950

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

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|-> 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$

|-> create; price1=-price$

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

Model: U(A, B)=P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;checkdata;

Fcn =mon(n), fam(n), pub(n), seed(n) $

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

| Inspecting the data set before estimation. |

| These errors mark observations which will be skipped. |

| Row Individual = 1st row then group number of data block |

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

11233 3745 Sum of LHS variable for all alts is zero

11236 3746 Sum of LHS variable for all alts is zero

11239 3747 Sum of LHS variable for all alts is zero

11242 3748 Sum of LHS variable for all alts is zero

11245 3749 Sum of LHS variable for all alts is zero

11248 3750 Sum of LHS variable for all alts is zero

11251 3751 Sum of LHS variable for all alts is zero

11254 3752 Sum of LHS variable for all alts is zero

11257 3753 Sum of LHS variable for all alts is zero

11290 3764 Sum of LHS variable for all alts is zero

11296 3766 Sum of LHS variable for all alts is zero

11299 3767 Sum of LHS variable for all alts is zero

11302 3768 Sum of LHS variable for all alts is zero

11305 3769 Sum of LHS variable for all alts is zero

11311 3771 Sum of LHS variable for all alts is zero

Normal exit: 5 iterations. Status=0, F= 3508.726

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Start values obtained using MNL model

Dependent variable Choice

Log likelihood function -3508.72568

Estimation based on N = 3756, K = 6

Inf.Cr.AIC = 7029.5 AIC/N = 1.872

Model estimated: Mar 06, 2017, 20:46:37

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

Constants only -4091.7651 .1425 .1413

Response data are given as ind. choices

Number of obs.= 3771, skipped 15 obs

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

| Standard Prob. 95% Confidence

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

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

MON| -1.94784\*\*\* .08785 -22.17 .0000 -2.12002 -1.77567

FAM| -.70816\*\*\* .06798 -10.42 .0000 -.84140 -.57493

PUB| -1.23769\*\*\* .07135 -17.35 .0000 -1.37753 -1.09784

SEED| .58743\*\*\* .05449 10.78 .0000 .48063 .69422

P| 2.36952\*\*\* .10240 23.14 .0000 2.16882 2.57022

A| -4.80271\*\*\* .19802 -24.25 .0000 -5.19082 -4.41461

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

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Normal exit: 19 iterations. Status=0, F= 2821.607

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Random Parameters Logit Model

Dependent variable CHOICE

Log likelihood function -2821.60674

Restricted log likelihood -4126.38776

Chi squared [ 10 d.f.] 2609.56203

Significance level .00000

McFadden Pseudo R-squared .3162042

Estimation based on N = 3756, K = 10

Inf.Cr.AIC = 5663.2 AIC/N = 1.508

Model estimated: Mar 06, 2017, 20:50:02

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

No coefficients -4126.3878 .3162 .3153

Constants only -4091.7651 .3104 .3095

At start values -3508.7257 .1958 .1948

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

Number of obs.= 3771, skipped 15 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.56233\*\*\* .21612 -16.48 .0000 -3.98592 -3.13873

FAM| -1.41884\*\*\* .14067 -10.09 .0000 -1.69455 -1.14313

PUB| -2.15477\*\*\* .13883 -15.52 .0000 -2.42687 -1.88267

SEED| .65008\*\*\* .10563 6.15 .0000 .44306 .85711

|Nonrandom parameters in utility functions

P| 3.87897\*\*\* .15918 24.37 .0000 3.56697 4.19096

A| -8.79989\*\*\* .33109 -26.58 .0000 -9.44881 -8.15097

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

NsMON| 2.56941\*\*\* .26242 9.79 .0000 2.05507 3.08374

NsFAM| 2.21152\*\*\* .15408 14.35 .0000 1.90954 2.51350

NsPUB| 1.78474\*\*\* .17272 10.33 .0000 1.44623 2.12326

NsSEED| 1.51110\*\*\* .08772 17.23 .0000 1.33916 1.68303

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

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

|-> reset$

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

Last observation read from data file was 10854

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$

|-> create; price1=-price$

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

Model: U(A, B)=P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;checkdata;

Fcn =mon(n), fam(n), pub(n), seed(n) $

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

| Inspecting the data set before estimation. |

| These errors mark observations which will be skipped. |

| Row Individual = 1st row then group number of data block |

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

10750 3584 Sum of LHS variable for all alts is zero

10753 3585 Sum of LHS variable for all alts is zero

10756 3586 Sum of LHS variable for all alts is zero

10765 3589 Sum of LHS variable for all alts is zero

10768 3590 Sum of LHS variable for all alts is zero

10771 3591 Sum of LHS variable for all alts is zero

10786 3596 Sum of LHS variable for all alts is zero

10798 3600 Sum of LHS variable for all alts is zero

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: Mar 06, 2017, 20:50:22

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

Constants only -3956.5194 .1270 .1258

Response data are given as ind. choices

Number of obs.= 3618, skipped 8 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 1.86874 2.27213

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

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

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Normal exit: 18 iterations. Status=0, F= 2697.845

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Random Parameters Logit Model

Dependent variable CHOICE

Log likelihood function -2697.84505

Restricted log likelihood -3965.99036

Chi squared [ 10 d.f.] 2536.29062

Significance level .00000

McFadden Pseudo R-squared .3197550

Estimation based on N = 3610, K = 10

Inf.Cr.AIC = 5415.7 AIC/N = 1.500

Model estimated: Mar 06, 2017, 20:53:20

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

No coefficients -3965.9904 .3198 .3188

Constants only -3956.5194 .3181 .3172

At start values -3454.1763 .2190 .2179

Response data are given as ind. choices

Replications for simulated probs. = 100

Used pseudo random draws (Mersenne twister)

RPL model with panel has 402 groups

Fixed number of obsrvs./group= 9

Number of obs.= 3618, skipped 8 obs

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

| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.48155\*\*\* .20452 -17.02 .0000 -3.88241 -3.08069

FAM| -1.89016\*\*\* .16940 -11.16 .0000 -2.22218 -1.55814

PUB| -2.32108\*\*\* .15522 -14.95 .0000 -2.62530 -2.01686

SEED| .29658\*\*\* .11106 2.67 .0076 .07891 .51426

|Nonrandom parameters in utility functions

P| 3.52183\*\*\* .16014 21.99 .0000 3.20795 3.83570

A| -8.26861\*\*\* .34253 -24.14 .0000 -8.93997 -7.59726

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

NsMON| 2.06583\*\*\* .29812 6.93 .0000 1.48153 2.65012

NsFAM| 2.80235\*\*\* .20761 13.50 .0000 2.39545 3.20925

NsPUB| 1.88516\*\*\* .18346 10.28 .0000 1.52559 2.24473

NsSEED| 1.52576\*\*\* .08894 17.15 .0000 1.35144 1.70009

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

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

|-> reset$

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

Last observation read from data file was 10908

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$

|-> create; price1=-price$

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

Model: U(A, B)=P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds/

U(C)=a+P\*Price1+Mon\*monsanto+Fam\*sfc+pub\*public+seed\*seeds;

pds=9; parameter;checkdata;

Fcn =mon(n), fam(n), pub(n), seed(n) $

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

| Inspecting the data set before estimation. |

| These errors mark observations which will be skipped. |

| Row Individual = 1st row then group number of data block |

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

9883 3295 Sum of LHS variable for all alts is zero

9886 3296 Sum of LHS variable for all alts is zero

9889 3297 Sum of LHS variable for all alts is zero

9892 3298 Sum of LHS variable for all alts is zero

9895 3299 Sum of LHS variable for all alts is zero

9898 3300 Sum of LHS variable for all alts is zero

9901 3301 Sum of LHS variable for all alts is zero

9904 3302 Sum of LHS variable for all alts is zero

9907 3303 Sum of LHS variable for all alts is zero

10855 3619 Sum of LHS variable for all alts is zero

10858 3620 Sum of LHS variable for all alts is zero

10864 3622 Sum of LHS variable for all alts is zero

10867 3623 Sum of LHS variable for all alts is zero

10873 3625 Sum of LHS variable for all alts is zero

10879 3627 Sum of LHS variable for all alts is zero

10882 3628 Sum of LHS variable for all alts is zero

10885 3629 Sum of LHS variable for all alts is zero

10888 3630 Sum of LHS variable for all alts is zero

10891 3631 Sum of LHS variable for all alts is zero

10894 3632 Sum of LHS variable for all alts is zero

10897 3633 Sum of LHS variable for all alts is zero

10900 3634 Sum of LHS variable for all alts is zero

10903 3635 Sum of LHS variable for all alts is zero

10906 3636 Sum of LHS variable for all alts is zero

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

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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: Mar 06, 2017, 20:53:40

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

Constants only -3947.4346 .1396 .1384

Response data are given as ind. choices

Number of obs.= 3636, skipped 24 obs

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| 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 1.66336 2.06305

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

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

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Normal exit: 16 iterations. Status=0, F= 2716.640

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Random Parameters Logit Model

Dependent variable CHOICE

Log likelihood function -2716.64018

Restricted log likelihood -3968.18759

Chi squared [ 10 d.f.] 2503.09481

Significance level .00000

McFadden Pseudo R-squared .3153952

Estimation based on N = 3612, K = 10

Inf.Cr.AIC = 5453.3 AIC/N = 1.510

Model estimated: Mar 06, 2017, 20:56:27

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

No coefficients -3968.1876 .3154 .3144

Constants only -3947.4346 .3118 .3108

At start values -3396.4378 .2002 .1990

Response data are given as ind. choices

Replications for simulated probs. = 100

Used pseudo random draws (Mersenne twister)

RPL model with panel has 404 groups

Fixed number of obsrvs./group= 9

Number of obs.= 3636, skipped 24 obs

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| Standard Prob. 95% Confidence

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

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

|Random parameters in utility functions

MON| -3.62726\*\*\* .18900 -19.19 .0000 -3.99769 -3.25682

FAM| -1.96975\*\*\* .15832 -12.44 .0000 -2.28006 -1.65944

PUB| -2.56326\*\*\* .14105 -18.17 .0000 -2.83970 -2.28682

SEED| .27767\*\*\* .10092 2.75 .0059 .07988 .47547

|Nonrandom parameters in utility functions

P| 3.01654\*\*\* .14471 20.85 .0000 2.73292 3.30017

A| -7.49618\*\*\* .31842 -23.54 .0000 -8.12027 -6.87209

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

NsMON| 1.59844\*\*\* .19524 8.19 .0000 1.21578 1.98111

NsFAM| 2.32953\*\*\* .16868 13.81 .0000 1.99892 2.66013

NsPUB| 1.50295\*\*\* .17051 8.81 .0000 1.16875 1.83715

NsSEED| 1.52677\*\*\* .09163 16.66 .0000 1.34717 1.70637

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

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