

APPENDIX 2: SAVED RESULTS**2(a) MAIZE RESULTS*****MODEL 1******ITERATIONS OMITTED***

	Number of obs	=	120
	Wald chi2(21)	=	3.51e+09
Log likelihood = 130.37732	Prob > chi2	=	0.0000

lgy	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
frontier					
lgarea	.3411861	.104335	3.27	0.001	.1366932 .5456789
lglab	.0247196	.0457058	0.54	0.589	-.0648621 .1143014
lgseed	.1970921	.0634491	3.11	0.002	.0727342 .32145
lgfert	-.0036127	.0337769	-0.11	0.915	-.0698142 .0625887
lgcap	-.0638108	.0600766	-1.06	0.288	-.1815587 .0539371
t	-.00816	.0628815	-0.13	0.897	-.1314054 .1150854
t2	-.0029793	.0014111	-2.11	0.035	-.005745 -.0002135
tlgarea	.0499741	.0078103	6.40	0.000	.0346661 .065282
tlglab	-.0327089	.0061739	-5.30	0.000	-.0448095 -.0206083
tlgseed	-.0233777	.0061975	-3.77	0.000	-.0355247 -.0112308
tlgfert	-.0090811	.0039699	-2.29	0.022	-.0168619 -.0013003
tlgcap	.0094804	.0034404	2.76	0.006	.0027374 .0162235
dum2	-1.246779	.111081	-11.22	0.000	-1.464494 -1.029065
dum3	1.351087	.0894006	15.11	0.000	1.175865 1.526309
dum4	.2052378	.1338257	1.53	0.125	-.0570558 .4675314
dum5	.6775269	.1022993	6.62	0.000	.477024 .8780298
dum6	.7169505	.0562424	12.75	0.000	.6067175 .8271836
dum7	.1346908	.0872219	1.54	0.123	-.0362611 .3056426
dum8	.1237604	.0384265	3.22	0.001	.0484459 .1990749
dum9	.7059414	.0253036	27.90	0.000	.6563473 .7555354
dum10	.4090005	.0669633	6.11	0.000	.2777549 .5402462

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      _cons |    8.016452      .      .      .      .      .
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usigmas    |
      lgeffgap |  -10.36948    1.026478   -10.10    0.000   -12.38134   -8.357618
      _cons |  -5.830294    .2536628   -22.98    0.000   -6.327464   -5.333124
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vsigmas    |
      _cons |  -25.18765    20.82723    -1.21    0.227   -66.00827    15.63296
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MODEL 2

ITERATIONS OMITTED

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                                     Number of obs      =          110
                                     Wald chi2(21)        =      8.13e+09
Log likelihood = 128.55848          Prob > chi2        =      0.0000

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      lgy |      Coef.   Std. Err.      z    P>|z|    [95% Conf. Interval]
-----+-----
frontier  |
      lgarea | .2590345   .1166585     2.22  0.026    .030388    .487681
      lglab  | .0512274   .041845     1.22  0.221   -.0307872   .1332421
      lgseed | .1966723   .0113926    17.26  0.000    .1743433   .2190013
      lgfert | .0013944   .0229303     0.06  0.952   -.0435481   .0463369
      lgcap  | .0017364   .0614638     0.03  0.977   -.1187305   .1222033
      t      | .0855951   .0180684     4.74  0.000    .0501818   .1210085
      t2     | -.0007547   .0011328    -0.67  0.505   -.002975    .0014656
      tlgarea | .0384464   .0043201     8.90  0.000    .0299791   .0469136
      tlglab  | -.0254359   .0045821    -5.55  0.000   -.0344166   -.0164551
      tlgseed | -.0236202   .0013114   -18.01  0.000   -.0261904   -.02105
      tlgfert | -.0083909   .0016601    -5.05  0.000   -.0116446   -.0051372
      tlgcap  | .0060875   .0034407     1.77  0.077   -.0006562   .0128312
      dum2   | -1.441355   .0957977   -15.05  0.000   -1.629115   -1.253595

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dum3		1.289959	.072183	17.87	0.000	1.148483	1.431435
dum4		.1026234	.1266988	0.81	0.418	-.1457016	.3509484
dum5		.5718584	.1085169	5.27	0.000	.3591692	.7845477
dum6		.7194403	.0384197	18.73	0.000	.6441391	.7947414
dum7		.1894907	.0728762	2.60	0.009	.0466561	.3323253
dum8		.1503512	.0202918	7.41	0.000	.11058	.1901224
dum9		.7014975	.0104178	67.34	0.000	.6810791	.721916
dum10		.3628506	.0602634	6.02	0.000	.2447364	.4809648
_cons		7.697636	.	.	.	.	.

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usigmas							
lgteff_1		-.2714281	.8819565	-0.31	0.758	-2.000031	1.457175
lgtrade		-.2371258	.1055448	-2.25	0.025	-.4439898	-.0302617
lgtradegap		-.6314003	.0733497	-8.61	0.000	-.7751631	-.4876375
_cons		-2.11129	1.731413	-1.22	0.223	-5.504798	1.282217

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vsigmas							
_cons		-26.99296	32.13169	-0.84	0.401	-89.96992	35.98399

MODEL 3

				Number of obs	=	110
				Wald chi2(21)	=	5.37e+09
Log likelihood =	80.497044			Prob > chi2	=	0.0000

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	lgy	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
frontier							
lgarea		.5848168	.0637389	9.18	0.000	.4598909	.7097427
lglab		.0898372	.101754	0.88	0.377	-.109597	.2892714
lgseed		.1789757	.079356	2.26	0.024	.0234408	.3345105
lgfert		.0022194	.0289444	0.08	0.939	-.0545107	.0589494
lgcap		-.2255648	.0387745	-5.82	0.000	-.3015614	-.1495681

t		-.0521748	.0304557	-1.71	0.087	-.111867	.0075173
t2		-.002703	.0031142	-0.87	0.385	-.0088067	.0034006
tlgarea		.035906	.0051113	7.02	0.000	.0258882	.0459239
tlglab		-.0170525	.0053543	-3.18	0.001	-.0275468	-.0065583
tlgseed		-.0251265	.0089823	-2.80	0.005	-.0427315	-.0075215
tlgfert		-.0059253	.0041857	-1.42	0.157	-.0141292	.0022786
tlgcap		.0094894	.0024971	3.80	0.000	.0045952	.0143836
dum2		-1.033139	.1151338	-8.97	0.000	-1.258797	-.8074812
dum3		1.209899	.0608754	19.87	0.000	1.090585	1.329213
dum4		.5616563	.1331858	4.22	0.000	.3006169	.8226957
dum5		.6419486	.0221641	28.96	0.000	.5985077	.6853894
dum6		.561937	.0659597	8.52	0.000	.4326583	.6912157
dum7		.4142434	.1020702	4.06	0.000	.2141896	.6142972
dum8		-.0264776	.0647672	-0.41	0.683	-.153419	.1004638
dum9		.5471454	.0079184	69.10	0.000	.5316255	.5626652
dum10		.5756291	.0394888	14.58	0.000	.4982326	.6530257
_cons		6.579336	.	.	.	.	.

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usigmas							
lgteff_1		-2.383035	.8763934	-2.72	0.007	-4.100734	-.6653352
eac		-1.311586	.4357232	-3.01	0.003	-2.165588	-.4575839
ecowas		-1.544955	.8363496	-1.85	0.065	-3.18417	.0942599
comm		-1.251836	.5639429	-2.22	0.026	-2.357144	-.1465285
sadc		-.4017689	.6204273	-0.65	0.517	-1.617784	.8142462
_cons		-1.699358	.8720557	-1.95	0.051	-3.408556	.0098397

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vsigmas							
_cons		-26.98734	43.87474	-0.62	0.538	-112.9802	59.00556

MODEL 4

FINAL MODEL

	Number of obs	=	110
	Wald chi2(20)	=	.
Log likelihood = 132.95812	Prob > chi2	=	.

lgy	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
-----+-----						
frontier						
lgarea	.2994653	.	.	.	.	.
lglab	.0680982	.0408711	1.67	0.096	-.0120077	.148204
lgseed	.2619215	.0763364	3.43	0.001	.1123049	.4115381
lgfert	-.0187181	.0239036	-0.78	0.434	-.0655682	.0281321
lgcap	-.0997081	.0090089	-11.07	0.000	-.1173652	-.0820509
t	.0529952	.0371968	1.42	0.154	-.0199092	.1258996
t2	.00013	.0008255	0.16	0.875	-.001488	.0017479
tlgarea	.0416532	.0046324	8.99	0.000	.0325739	.0507325
tlglab	-.0242756	.0093677	-2.59	0.010	-.0426361	-.0059152
tlgseed	-.0322503	.0064587	-4.99	0.000	-.0449091	-.0195915
tlgfert	-.0024211	.001903	-1.27	0.203	-.0061508	.0013087
tlgcap	.0060471	.0027246	2.22	0.026	.0007069	.0113873
dum2	-1.378611	.1033374	-13.34	0.000	-1.581148	-1.176073
dum3	1.324459	.1552672	8.53	0.000	1.020141	1.628777
dum4	.341361	.0183265	18.63	0.000	.3054416	.3772803
dum5	.6737419	.1494786	4.51	0.000	.3807691	.9667146
dum6	.6627483	.0960086	6.90	0.000	.4745749	.8509216
dum7	.2282015	.1276232	1.79	0.074	-.0219353	.4783383
dum8	.1352575	.0833314	1.62	0.105	-.0280691	.2985841
dum9	.7691012	.1489255	5.16	0.000	.4772126	1.06099

dum10		.4859625	.0408682	11.89	0.000	.4058623	.5660626
_cons		8.100203	.9934239	8.15	0.000	6.153128	10.04728
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usigmas							
lgteff_1		-.1235612	.8013163	-0.15	0.877	-1.694112	1.44699
lgtrade		-.151665	.1531811	-0.99	0.322	-.4518943	.1485644
lgtradegap		-.6585742	.0713734	-9.23	0.000	-.7984635	-.5186849
eac		-.2892428	.549955	-0.53	0.599	-1.367135	.7886491
ecowas		-1.302262	1.018296	-1.28	0.201	-3.298086	.6935617
comm		-1.258206	.5794875	-2.17	0.030	-2.393981	-.1224317
sadc		-1.021059	.6136249	-1.66	0.096	-2.223741	.1816239
rgl		-.8884723	.7291555	-1.22	0.223	-2.317591	.5406462
cp		1.373048	.784898	1.75	0.080	-.1653242	2.911419
_cons		-1.727006	3.084159	-0.56	0.576	-7.771846	4.317834
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vsigmas							
_cons		-25.178	20.36565	-1.24	0.216	-65.09393	14.73794

MODEL 1

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lgy		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
-----+-----							
frontier							
lgarea		.1221576	.0907364	1.35	0.178	-.0556824	.2999977
lglab		.0701682	.0248295	2.83	0.005	.0215034	.1188331
lgseed		.3167917	.033454	9.47	0.000	.2512231	.3823603
lgfert		.0269366	.0108189	2.49	0.013	.0057319	.0481413
lgcap		-.0063855	.0579908	-0.11	0.912	-.1200454	.1072743
t		-.1640349	.0511809	-3.21	0.001	-.2643477	-.0637222
t2		-.0116098	.0009383	-12.37	0.000	-.0134489	-.0097708
tlgarea		.0678975	.0038582	17.60	0.000	.0603356	.0754594
tlglab		-.0192659	.0038618	-4.99	0.000	-.026835	-.0116969
tlgseed		-.0375343	.0056444	-6.65	0.000	-.0485972	-.0264714
tlgfert		-.0084693	.0015067	-5.62	0.000	-.0114225	-.0055162
tlgcap		.010239	.0014555	7.03	0.000	.0073863	.0130918
dum2		-.0889523	.0743375	-1.20	0.231	-.2346511	.0567464
dum3		-.2308189	.037061	-6.23	0.000	-.3034571	-.1581807
dum4		-.3532692	.0908329	-3.89	0.000	-.5312985	-.1752399
dum5		.0287751	.0571642	0.50	0.615	-.0832646	.1408148
dum6		.7900146	.102121	7.74	0.000	.5898611	.990168
dum7		-.5361499	.1330331	-4.03	0.000	-.79689	-.2754097
dum8		.0549268	.048443	1.13	0.257	-.0400196	.1498733
dum9		.5738252	.1174439	4.89	0.000	.3436393	.8040112
dum10		.7449166	.086356	8.63	0.000	.575662	.9141711
dum11		-.2791955	.0295039	-9.46	0.000	-.3370221	-.2213689
_cons		6.928921	.	.	.	.	.
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usigmas      |
      lgeffgap | -7.441243   .7624467   -9.76   0.000   -8.935611   -5.946875
      _cons    | -5.107979   .20967   -24.36   0.000   -5.518925   -4.697034
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vsigmas      |
      _cons    | -28.11144   41.62795   -0.68   0.499   -109.7007   53.47786
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MODEL 2

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                                     Number of obs   =          121
                                     Wald chi2(21)     =           .
Log likelihood =    126.7475          Prob > chi2      =           .

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      lgy |      Coef.   Std. Err.      z    P>|z|    [95% Conf. Interval]
-----+-----
frontier  |
      lgarea |   .0951478           .           .           .           .
      lglab  |   .1349688   .0610605     2.21   0.027   .0152925   .2546451
      lgseed |   .3623883   .0241173    15.03   0.000   .3151193   .4096572
      lgfert |   .0304653   .002727     11.17   0.000   .0251205   .03581
      lgcap  |  -.0614483   .0286268     -2.15   0.032  -.1175559  -.0053407
      t      |  -.2028717   .0457275     -4.44   0.000  -.292496  -.1132474
      t2     |  -.013638   .0008521    -16.00   0.000  -.0153081  -.0119678
      tlgarea |   .0666096   .0041287    16.13   0.000   .0585175   .0747016
      tlglab  |  -.0154975   .0060312     -2.57   0.010  -.0273184  -.0036765
      tlgseed |  -.0412934   .004101    -10.07   0.000  -.0493311  -.0332556
      tlgfert |  -.0089501   .00074    -12.10   0.000  -.0104004  -.0074998
      tlgcap  |   .0143225   .0011491    12.46   0.000   .0120703   .0165748
      dum2    |  -.1580024   .0429622     -3.68   0.000  -.2422069  -.073798
      dum3    |  -.4263012   .0529136     -8.06   0.000  -.5300099  -.3225924
      dum4    |  -.4160178   .0408388    -10.19   0.000  -.4960604  -.3359753
      dum5    |  -.0543262   .0452858     -1.20   0.230  -.1430847   .0344322

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dum6		.6733384	.054327	12.39	0.000	.5668594	.7798174
dum7		-.7251504	.0974117	-7.44	0.000	-.9160739	-.5342269
dum8		-.0453306	.0624579	-0.73	0.468	-.1677458	.0770847
dum9		.4927543	.055319	8.91	0.000	.384331	.6011776
dum10		.5056325	.0882165	5.73	0.000	.3327314	.6785337
dum11		-.3729136	.0399111	-9.34	0.000	-.4511379	-.2946892
_cons		6.929238	.4575529	15.14	0.000	6.032451	7.826025
-----+-----							
usigmas							
lgteff_1		.1054469	.5649378	0.19	0.852	-1.001811	1.212705
lgtrade		-.1733058	.0910205	-1.90	0.057	-.3517028	.0050912
lgtradegap		-.4239156	.0467108	-9.08	0.000	-.5154672	-.332364
_cons		-2.156245	1.632563	-1.32	0.187	-5.356009	1.043519
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vsigmas							
_cons		-25.30009	21.91762	-1.15	0.248	-68.25784	17.65766

MODEL 3