

Agricultural rent in land use models: Comparison of frequently used proxies

D Supplementary materials

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D1 Models

The *agr_rent* is replaced by the different proxies for the agricultural rent tested. General formula:

$$I(\ln(pst/oth)) = agr_rent + forestry_rent + density + revenues + Slope + TEXT$$

$$I(\ln(agr/oth)) = agr_rent + forestry_rent + density + revenues + Slope + TEXT$$

$$I(\ln(for/oth)) = agr_rent + forestry_rent + density + revenues + Slope + TEXT$$

$$I(\ln(urb/oth)) = agr_rent + forestry_rent + density + revenues + Slope + TEXT$$

Model	Model presentation	Interpretation
SEM	$\tilde{y} = X\beta + \varepsilon$ $\varepsilon = \lambda W\varepsilon + u$	Unobserved omitted variables follow a spatial pattern, data measurement errors
SAR	$\tilde{y} = \rho W\tilde{y} + X\beta + \varepsilon$	Land use share for one location is determined jointly with that of neighboring locations.
SLX	$\tilde{y} = X\beta + WX\gamma + \varepsilon$	Land use share for one location is determined by the explanatory variables of neighboring locations.
SDM	$\tilde{y} = \rho W\tilde{y} + X\beta + WX\gamma + \varepsilon$	A combination of SLX and SAR
SAC	$\tilde{y} = \rho W\tilde{y} + X\beta + \varepsilon$ $\varepsilon = \lambda W\varepsilon + u$	A combination of SEM and SAR
SDEM	$\tilde{y} = X\beta + WX\gamma + \varepsilon$ $\varepsilon = \lambda W\varepsilon + u$	A combination of SEM and SLX
GNS	$\tilde{y} = \rho W\tilde{y} + X\beta + WX\gamma + \varepsilon$ $\varepsilon = \lambda W\varepsilon + u$	A combination of SLX and SAC

Table D1: Summary table of the estimated spatial model specifications

D1.1 Land shadow price

Table D2: Land shadow price, OLS

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	1.711*** (0.271)	1.040*** (0.210)	1.990*** (0.199)	-4.695*** (0.209)
Shadow price	-2.645*** (0.229)	0.540*** (0.178)	-0.670*** (0.168)	0.001 (0.176)
For revenue	0.015*** (0.001)	0.007*** (0.001)	0.008*** (0.001)	0.009*** (0.001)
Pop density	-0.0002*** (0.0001)	-0.0004*** (0.0001)	-0.001*** (0.0001)	0.0005*** (0.0001)
Pop revenues	-0.118*** (0.014)	0.071*** (0.011)	0.034*** (0.010)	0.323*** (0.011)
Slope	-0.211*** (0.008)	-0.329*** (0.006)	-0.097*** (0.006)	-0.250*** (0.006)
TEXT2	1.480*** (0.131)	1.707*** (0.101)	0.028 (0.096)	0.965*** (0.101)
TEXT3	2.670*** (0.139)	2.718*** (0.108)	0.792*** (0.102)	1.691*** (0.107)
TEXT4	3.099*** (0.209)	2.904*** (0.162)	0.685*** (0.153)	1.489*** (0.161)
R^2	0.267	0.425	0.143	0.409
Moran's I	0.611***	0.445***	0.442***	0.375***
Log Lik.	-24609.97	-22362.51	-21878.84	-22300.19
AIC.	49239.94	44745.02	43777.68	44620.38
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01			

Table D3: Land shadow price, SLX

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
x(Intercept)	1.9221*** (0.3160)	0.2801 (0.2450)	2.3623*** (0.2330)	-5.3926*** (0.2450)
xShadow price	3.6517** (1.5980)	1.2061 (1.2390)	1.1898 (1.1770)	1.4893 (1.2370)
xFor revenue	-0.0083 (0.0050)	-0.0049 (0.0040)	-0.0073* (0.0040)	-0.0038 (0.0040)
xPop density	-2e-04** (0.0000)	-3e-04*** (0.0000)	-4e-04*** (0.0000)	3e-04*** (0.0000)
xPop revenues	0.0331 (0.0280)	0.0549** (0.0220)	0.0475** (0.0210)	0.2522*** (0.0220)
xSlope	-0.0904*** (0.0260)	-0.2010*** (0.0200)	0.0361* (0.0190)	-0.1974*** (0.0200)
xTEXT2	0.4723*** (0.1830)	0.6629*** (0.1420)	0.1355 (0.1350)	0.2699* (0.1410)
xTEXT3	0.8794*** (0.2160)	1.1544*** (0.1670)	0.3875** (0.1590)	0.5133*** (0.1670)
xTEXT4	1.0604*** (0.2960)	1.3483*** (0.2290)	0.1940 (0.2180)	0.1630 (0.2290)
xlag.Shadow price	-6.5451*** (1.6380)	-0.8431 (1.2710)	-2.0264* (1.2070)	-1.7206 (1.2680)
xlag.For revenue	0.0233*** (0.0050)	0.0114*** (0.0040)	0.0143*** (0.0040)	0.0129*** (0.0040)
xlag.Pop density	2e-04 (0.0000)	-4e-04*** (0.0000)	-6e-04*** (0.0000)	2e-04 (0.0000)
xlag.Pop revenues	-0.2171*** (0.0350)	0.0333 (0.0270)	-0.0107 (0.0250)	0.0926*** (0.0270)
xlag.Slope	-0.1252*** (0.0270)	-0.1364*** (0.0210)	-0.1409*** (0.0200)	-0.0506** (0.0210)
xlag.TEXT2	1.6343*** (0.2590)	1.8896*** (0.2010)	-0.4479** (0.1900)	1.2605*** (0.2000)
xlag.TEXT3	2.9845*** (0.2850)	2.6322*** (0.2210)	0.5722*** (0.2100)	1.9686*** (0.2210)
xlag.TEXT4	3.1023*** (0.4350)	2.3348*** (0.3380)	0.4387 (0.3210)	2.1541*** (0.3370)
R^2	0.286	0.439	0.158	0.417
Log Lik.	-24494.86	-22254.2	-21800.75	-22236.56
AIC.	49025.72	44544.4	43637.5	44509.13

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D4: Land shadow price, SEM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	-0.037 (0.619)	1.370*** (0.458)	1.077** (0.426)	-3.801*** (0.400)
Shadow price	-0.479 (0.661)	0.888* (0.481)	-0.027 (0.446)	0.384 (0.406)
For revenue	0.010*** (0.002)	0.008*** (0.002)	0.008*** (0.001)	0.009*** (0.001)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.0001)	-0.0004*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.024 (0.017)	0.074*** (0.015)	0.053*** (0.014)	0.284*** (0.015)
Slope	-0.142*** (0.014)	-0.267*** (0.012)	-0.036*** (0.011)	-0.244*** (0.011)
TEXT2	0.520*** (0.114)	0.701*** (0.105)	0.165* (0.100)	0.395*** (0.111)
TEXT3	0.999*** (0.133)	1.271*** (0.122)	0.446*** (0.116)	0.769*** (0.128)
TEXT4	1.318*** (0.183)	1.573*** (0.168)	0.371** (0.160)	0.492*** (0.177)
R^2	0.668	0.635	0.448	0.569
λ	0.851***	0.775***	0.765***	0.687***
Log Lik.	-21115.67	-20355.9	-19935.91	-20908.4
AIC.	42253.34	40733.8	39893.83	41838.8

Note: *p<0.1; **p<0.05; ***p<0.01

Table D5: Land shadow price, SAR

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.213 (0.142)	0.129	0.334*** (0.103)	-1.982*** (0.174)
Shadow price	-0.468*** (0.127)	0.036	-0.174 (0.115)	-0.223* (0.128)
For revenue	0.002*** (0.0004)	0.001	0.002*** (0.0004)	0.002*** (0.0005)
Pop density	-0.0002*** (0.0001)	-0.0003	-0.0003*** (0.00004)	0.0002*** (0.0001)
Pop revenues	-0.019* (0.010)	0.032	0.020*** (0.006)	0.156*** (0.009)
Slope	-0.045*** (0.005)	-0.102	-0.023*** (0.004)	-0.100*** (0.005)
TEXT2	0.413*** (0.080)	0.661	0.032	0.464*** (0.083)
TEXT3	0.727*** (0.087)	1.028	0.294*** (0.014)	0.741*** (0.089)
TEXT4	0.964*** (0.130)	1.215	0.219** (0.090)	0.560*** (0.133)
R^2	0.67	0.638	0.452	0.567
ρ	0.833***	0.743***	0.755***	0.652***
Log Lik.	-21085.25	-20321.76	-19903.76	-20930.1
AIC.	42192.5	40665.52	39829.52	41882.21

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D6: Land shadow price, SDM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.497*** (0.191)	0.082	0.708*** (0.167)	-1.757*** (0.211)
Shadow price	2.181 (1.789)	1.186	1.162** (0.533)	1.260** (0.511)
For revenue	0.00004 (0.00004)	-0.001	-0.003 (0.002)	0.001
Pop density	-0.0002 (0.0002)	-0.0002*** (0.00003)	-0.0003*** (0.00005)	0.0004*** (0.0001)
Pop revenues	0.054*** (0.019)	0.080*** (0.015)	0.067*** (0.015)	0.258*** (0.018)
Slope	-0.107*** (0.024)	-0.196*** (0.015)	0.026*** (0.005)	-0.203*** (0.016)
TEXT2	0.436** (0.197)	0.530*** (0.060)	0.143* (0.082)	0.237** (0.102)
TEXT3	0.848*** (0.122)	0.979*** (0.050)	0.339*** (0.092)	0.467*** (0.128)
TEXT4	1.104*** (0.170)	1.216*** (0.141)	0.208* (0.125)	0.109 (0.139)
lag.Shadow price	-2.635 (1.778)	-1.109	-1.354** (0.548)	-1.368** (0.537)
lag.For revenue	0.002*** (0.001)	0.002	0.004* (0.002)	0.002
lag.Pop density	0.0001 (0.0003)	-0.0001	-0.0001*** (0.00002)	-0.0002** (0.0001)
lag.Pop revenues	-0.103*** (0.022)	-0.062*** (0.013)	-0.066*** (0.018)	-0.143*** (0.022)
lag.Slope	0.068** (0.029)	0.108*** (0.016)	-0.055*** (0.006)	0.120*** (0.017)
lag.TEXT2	-0.070 (0.278)	0.188	-0.263*** (0.097)	0.281* (0.162)
lag.TEXT3	-0.182 (0.118)	0.061	-0.106 (0.089)	0.353* (0.195)
lag.TEXT4	-0.266 (0.286)	-0.092 (0.205)	-0.023	0.804*** (0.253)
ρ	0.835***	0.756***	0.751***	0.675***
N	8818			
R^2	0.672	0.64	0.455	0.572
Log Lik.	-21059.94	-20290.03	-19885.5	-20876.9
AIC.	42157.89	40618.06	39809	41791.8

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D7: Land shadow price, SDEM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	3.119*** (0.890)	1.729*** (0.619)	2.921*** (0.581)	-4.706*** (0.534)
Shadow price	2.140** (0.981)	1.413 (0.920)	1.461* (0.880)	1.242 (1.004)
For revenue	0.002 (0.003)	0.001 (0.003)	-0.001 (0.003)	0.003 (0.003)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.0001)	-0.0003*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.039** (0.017)	0.085*** (0.016)	0.072*** (0.015)	0.264*** (0.017)
Slope	-0.119*** (0.015)	-0.206*** (0.014)	0.012 (0.013)	-0.207*** (0.015)
TEXT2	0.524*** (0.117)	0.675*** (0.105)	0.095 (0.100)	0.338*** (0.112)
TEXT3	0.991*** (0.135)	1.192*** (0.122)	0.372*** (0.116)	0.626*** (0.130)
TEXT4	1.332*** (0.186)	1.435*** (0.169)	0.239 (0.161)	0.313* (0.181)
lag.Shadow price	-4.376*** (1.251)	-0.931 (1.062)	-2.063** (1.011)	-1.397 (1.104)
lag.For revenue	0.011** (0.004)	0.005 (0.003)	0.008** (0.003)	0.005 (0.004)
lag.Pop density	-0.0005** (0.0002)	-0.001*** (0.0002)	-0.001*** (0.0002)	-0.00000 (0.0002)
lag.Pop revenues	-0.236*** (0.038)	-0.057* (0.031)	-0.096*** (0.029)	0.077*** (0.030)
lag.Slope	-0.118*** (0.026)	-0.150*** (0.020)	-0.118*** (0.019)	-0.051** (0.020)
lag.TEXT2	0.564* (0.319)	1.089*** (0.262)	-0.329 (0.248)	0.619** (0.253)
lag.TEXT3	0.994*** (0.358)	1.762*** (0.288)	0.340 (0.273)	1.160*** (0.275)
lag.TEXT4	1.800*** (0.512)	2.115*** (0.426)	0.436 (0.404)	1.808*** (0.416)
λ	0.84***	0.76***	0.754***	0.678***
<i>N</i>	8818			
<i>R</i> ²	0.672	0.641	0.455	0.571
Log Lik.	-21059.32	-20288.62	-19884.64	-20882.65
AIC.	42156.64	40615.23	39807.28	41803.3

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D8: Land shadow price, SAC

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
(Intercept)	0.1363 (NaN)	0.0299 (NaN)	0.1968*** (0.0620)	-4.2225*** (0.5730)
Shadow price	-0.2258*** (0.0510)	0.0125 (NaN)	-0.0940* (0.0480)	1.1232* (0.5970)
For revenue	8e-04*** (0.0000)	3e-04* (0.0000)	7e-04*** (0.0000)	0.0116*** (0.0020)
Pop density	-1e-04*** (0.0000)	-2e-04*** (0.0000)	-3e-04*** (0.0000)	4e-04*** (0.0000)
Pop revenues	-0.0164*** (0.0050)	0.0256*** (0.0050)	0.0111** (0.0040)	0.2891*** (0.0160)
Slope	-0.0258*** (0.0030)	-0.0778*** (0.0020)	-0.0134*** (0.0030)	-0.2624*** (0.0140)
TEXT2	0.2789*** (0.0540)	0.5722*** (0.0630)	-0.0032 (NaN)	0.2900*** (0.1080)
TEXT3	0.4687*** (0.0640)	0.8601*** (0.0730)	0.1856*** (0.0410)	0.6049*** (0.1280)
TEXT4	0.6753*** (0.0970)	1.0342*** (0.1090)	0.1230 (0.0750)	0.3439** (0.1720)
R^2	0.677	0.639	0.46	0.573
λ	-0.467		-0.422	0.841***
ρ	0.916***	0.813	0.871***	-0.4
Log Lik.	-20992.85	-20310.56	-19842.86	-20870.43
AIC.	42009.69	40645.12	39709.72	41764.85

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D9: Land shadow price, GNS

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
(Intercept)	4.6426*** (1.2890)	3.2530*** (0.8960)	4.3331*** (0.8310)	-0.8715*** (0.1430)
Shadow price	1.7177*** (0.4760)	1.3429** (0.6140)	1.2545 (NaN)	1.1088*** (0.2520)
For revenue	0.0026 (NaN)	8e-04 (0.0010)	-7e-04 (NaN)	0.0000 (NaN)
Pop density	-3e-04*** (0.0000)	-3e-04*** (0.0000)	-4e-04*** (0.0000)	3e-04*** (0.0000)
Pop revenues	0.0206 (0.0160)	0.0781*** (0.0150)	0.0601*** (0.0150)	0.2663*** (0.0180)
Slope	-0.1324*** (0.0140)	-0.2188*** (0.0140)	0.0022 (NaN)	-0.2081*** (0.0160)
TEXT2	0.5018*** (0.1070)	0.6710*** (0.1100)	0.0886 (0.0900)	0.1790*** (0.0660)
TEXT3	0.9432*** (0.1260)	1.2112*** (0.1240)	0.3690*** (0.1150)	0.4206*** (0.0490)
TEXT4	1.3656*** (0.1800)	1.5115*** (0.1710)	0.2624* (0.1450)	0.1348 (NaN)
lag.Shadow price	-3.9715*** (1.4240)	-0.6083 (0.5230)	-1.9068*** (0.3960)	-1.1677*** (0.3060)
lag.For revenue	0.0116 (NaN)	0.0063** (0.0030)	0.0103*** (0.0030)	0.0013*** (0.0000)
lag.Pop density	-7e-04*** (0.0000)	-8e-04*** (0.0000)	-9e-04*** (0.0000)	-3e-04*** (0.0000)
lag.Pop revenues	-0.2698*** (0.0450)	-0.0716** (0.0330)	-0.1248*** (0.0370)	-0.2115*** (0.0210)
lag.Slope	-0.2140*** (0.0320)	-0.2655*** (0.0270)	-0.1378*** (0.0240)	0.1674*** (0.0170)
lag.TEXT2	0.5680 (NaN)	1.1648*** (0.3030)	-0.2784 (NaN)	0.1174 (0.0810)
lag.TEXT3	1.0104 (NaN)	2.0449*** (0.3410)	0.4069 (NaN)	0.0137 (NaN)
lag.TEXT4	2.2198*** (0.3820)	2.7302*** (0.4840)	0.5405 (0.4030)	0.3714 (NaN)
R^2	0.68	0.644	0.462	0.579
λ	0.928***	0.863***	0.874***	-0.497
ρ	-0.503	-0.353	-0.419	0.844***
Log Lik.	-20951.44	-20251.25	-19827.74	-20800.97
AIC.	41942.88	40542.49	39695.48	41641.95

Note: *p<0.1; **p<0.05; ***p<0.01

D1.2 Land Prices

Table D10: Land prices, OLS

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.650*** (0.232)	1.386*** (0.182)	1.840*** (0.171)	-4.736*** (0.181)
Land price	-0.694*** (0.036)	-0.028 (0.028)	-0.330*** (0.026)	0.053* (0.028)
For revenue	0.019*** (0.001)	0.007*** (0.001)	0.009*** (0.001)	0.009*** (0.001)
Pop density	-0.0002*** (0.0001)	-0.0004*** (0.0001)	-0.001*** (0.0001)	0.0005*** (0.0001)
Pop revenues	-0.071*** (0.014)	0.079*** (0.011)	0.063*** (0.010)	0.318*** (0.011)
Slope	-0.179*** (0.008)	-0.329*** (0.006)	-0.083*** (0.006)	-0.252*** (0.006)
TEXT2	1.555*** (0.129)	1.706*** (0.102)	0.060 (0.095)	0.960*** (0.101)
TEXT3	2.686*** (0.137)	2.739*** (0.108)	0.818*** (0.101)	1.683*** (0.107)
TEXT4	3.241*** (0.206)	2.893*** (0.162)	0.737*** (0.152)	1.483*** (0.160)
R^2	0.287	0.424	0.156	0.409
Moran's I	0.602***	0.445***	0.434***	0.375***
Log Lik.	-24489.22	-22366.61	-21808.19	-22298.33
AIC.	48998.45	44753.23	43636.39	44616.66

Note: *p<0.1; **p<0.05; ***p<0.01

Table D11: Land prices, SLX

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
x(Intercept)	0.4948*	0.5207**	1.9861***	-5.4918***
	(0.2830)	(0.2220)	(0.2100)	(0.2220)
xLand price	0.1157	0.2691***	0.0400	0.4003***
	(0.1220)	(0.0960)	(0.0910)	(0.0960)
xFor revenue	-0.0116**	-0.0070*	-0.0082**	-0.0067*
	(0.0050)	(0.0040)	(0.0040)	(0.0040)
xPop density	-2e-04**	-3e-04***	-4e-04***	3e-04***
	(0.0000)	(0.0000)	(0.0000)	(0.0000)
xPop revenues	0.0321	0.0498**	0.0460**	0.2474***
	(0.0280)	(0.0220)	(0.0210)	(0.0220)
xSlope	-0.1143***	-0.1982***	0.0253	-0.1919***
	(0.0250)	(0.0200)	(0.0190)	(0.0200)
xTEXT2	0.4761***	0.6500***	0.1361	0.2544*
	(0.1800)	(0.1420)	(0.1340)	(0.1410)
xTEXT3	0.8574***	1.1371***	0.3799**	0.4873***
	(0.2130)	(0.1680)	(0.1580)	(0.1670)
xTEXT4	1.0697***	1.3347***	0.1962	0.1496
	(0.2920)	(0.2290)	(0.2160)	(0.2290)
xlag.Land price	-0.8892***	-0.3273***	-0.4029***	-0.4044***
	(0.1330)	(0.1040)	(0.0990)	(0.1040)
xlag.For revenue	0.0315***	0.0132***	0.0169***	0.0161***
	(0.0050)	(0.0040)	(0.0040)	(0.0040)
xlag.Pop density	2e-04	-4e-04***	-6e-04***	2e-04
	(0.0000)	(0.0000)	(0.0000)	(0.0000)
xlag.Pop revenues	-0.1478***	0.0493*	0.0296	0.0926***
	(0.0340)	(0.0270)	(0.0260)	(0.0270)
xlag.Slope	-0.0578**	-0.1367***	-0.1106***	-0.0551***
	(0.0270)	(0.0210)	(0.0200)	(0.0210)
xlag.TEXT2	1.7579***	1.8985***	-0.3946**	1.2696***
	(0.2550)	(0.2010)	(0.1890)	(0.2000)
xlag.TEXT3	2.9698***	2.6845***	0.5978***	1.9776***
	(0.2810)	(0.2210)	(0.2080)	(0.2200)
xlag.TEXT4	3.5107***	2.3120***	0.5784*	2.1808***
	(0.4290)	(0.3370)	(0.3180)	(0.3360)
R^2	0.305	0.439	0.171	0.418
Log Lik.	-24377.26	-22251.71	-21734.13	-22229.14
AIC.	48790.52	44539.42	43504.26	44494.29

Note: *p<0.1; **p<0.05; ***p<0.01

Table D12: Land prices, SEM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.210 (0.419)	1.880*** (0.330)	1.421*** (0.305)	-3.828*** (0.303)
Land price	-0.295*** (0.066)	0.056 (0.055)	-0.190*** (0.051)	0.167*** (0.051)
For revenue	0.012*** (0.002)	0.007*** (0.001)	0.008*** (0.001)	0.008*** (0.001)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.0001)	-0.0003*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.029* (0.017)	0.074*** (0.015)	0.059*** (0.014)	0.278*** (0.015)
Slope	-0.145*** (0.014)	-0.268*** (0.012)	-0.037*** (0.011)	-0.246*** (0.011)
TEXT2	0.537*** (0.114)	0.695*** (0.105)	0.173* (0.100)	0.386*** (0.111)
TEXT3	1.024*** (0.133)	1.267*** (0.122)	0.461*** (0.116)	0.758*** (0.128)
TEXT4	1.336*** (0.183)	1.567*** (0.168)	0.381** (0.160)	0.484*** (0.177)
R^2	0.669	0.635	0.449	0.569
λ	0.846***	0.776***	0.759***	0.688***
Log Lik.	-21106.22	-20357.08	-19929.17	-20903.59
AIC.	42234.45	40736.16	39880.35	41829.19

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D13: Land prices, SAR

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.034	0.134	0.315	-2.146*** (0.154)
Land price	-0.133*** (0.028)	0.021 (0.025)	-0.099*** (0.021)	0.035 (0.023)
For revenue	0.003*** (0.001)	0.001* (0.0004)	0.002*** (0.0004)	0.002*** (0.0005)
Pop density	-0.0002** (0.0001)	-0.0003*** (0.00005)	-0.0003*** (0.00004)	0.0002*** (0.0001)
Pop revenues	-0.010 (0.011)	0.030*** (0.004)	0.029*** (0.009)	0.150*** (0.010)
Slope	-0.040*** (0.005)	-0.103*** (0.004)	-0.019*** (0.004)	-0.101*** (0.005)
TEXT2	0.434*** (0.095)	0.659*** (0.064)	0.041	0.463*** (0.083)
TEXT3	0.743*** (0.101)	1.026*** (0.077)	0.306	0.730*** (0.090)
TEXT4	1.003*** (0.139)	1.211*** (0.117)	0.237	0.563*** (0.133)
R^2	0.671	0.638	0.454	0.567
ρ	0.828***	0.743***	0.749***	0.652***
Log Lik.	-21073.71	-20321.29	-19892.62	-20930.09
AIC.	42169.42	40664.59	39807.25	41882.18

Note: *p<0.1; ** p<0.05; *** p<0.01

Table D14: Land prices, SDM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.271 (0.371)	0.141 (0.112)	0.634*** (0.155)	-1.793*** (0.201)
Land price	-0.054*** (0.005)	0.183*** (0.064)	0.021	0.333*** (0.081)
For revenue	-0.002	-0.003* (0.002)	-0.004* (0.002)	-0.001 (0.003)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.00005)	-0.0003*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.055** (0.022)	0.077*** (0.017)	0.067*** (0.016)	0.254*** (0.018)
Slope	-0.112*** (0.019)	-0.193*** (0.015)	0.024*** (0.008)	-0.199*** (0.016)
TEXT2	0.438*** (0.128)	0.522*** (0.087)	0.141* (0.075)	0.224* (0.116)
TEXT3	0.845*** (0.123)	0.966*** (0.094)	0.335*** (0.075)	0.445*** (0.118)
TEXT4	1.102*** (0.201)	1.207*** (0.113)	0.205* (0.117)	0.097 (0.135)
lag.Land price	-0.086	-0.190*** (0.069)	-0.119*** (0.022)	-0.333*** (0.089)
lag.For revenue	0.005	0.004** (0.002)	0.006*** (0.002)	0.004 (0.003)
lag.Pop density	0.0001	-0.0001* (0.0001)	-0.0001*** (0.00001)	-0.0002** (0.0001)
lag.Pop revenues	-0.090*** (0.032)	-0.059*** (0.018)	-0.054*** (0.018)	-0.142*** (0.022)
lag.Slope	0.079*** (0.018)	0.105*** (0.016)	-0.047*** (0.010)	0.116*** (0.018)
lag.TEXT2	-0.039 (0.096)	0.192* (0.108)	-0.250*** (0.090)	0.287 (0.191)
lag.TEXT3	-0.163 (0.228)	0.080 (0.095)	-0.090* (0.053)	0.366* (0.192)
lag.TEXT4	-0.172 (0.362)	-0.094	0.018	0.818*** (0.231)
ρ	0.83***	0.756***	0.746***	0.675***
N	8818			
R^2	0.673	0.641	0.456	0.573
Log Lik.	-21050.4	-20287.89	-19877.76	-20868.83
AIC.	42138.79	40613.77	39793.52	41775.65

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D15: Land prices, SDEM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	2.290*** (0.715)	2.004*** (0.526)	2.797*** (0.488)	-4.803*** (0.463)
Land price	-0.110 (0.075)	0.124* (0.070)	-0.006 (0.067)	0.283*** (0.076)
For revenue	0.0003 (0.003)	-0.001 (0.003)	-0.003 (0.003)	0.001 (0.003)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.0001)	-0.0003*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.045*** (0.017)	0.083*** (0.016)	0.075*** (0.015)	0.260*** (0.017)
Slope	-0.120*** (0.015)	-0.205*** (0.014)	0.012 (0.013)	-0.204*** (0.015)
TEXT2	0.538*** (0.117)	0.667*** (0.105)	0.098 (0.100)	0.326*** (0.111)
TEXT3	0.999*** (0.135)	1.185*** (0.122)	0.372*** (0.116)	0.608*** (0.130)
TEXT4	1.344*** (0.186)	1.425*** (0.169)	0.243 (0.161)	0.302* (0.181)
lag.Land price	-0.486*** (0.127)	-0.076 (0.103)	-0.314*** (0.097)	-0.228** (0.102)
lag.For revenue	0.016*** (0.004)	0.007** (0.003)	0.011*** (0.003)	0.007** (0.003)
lag.Pop density	-0.0005** (0.0002)	-0.001*** (0.0002)	-0.001*** (0.0002)	0.00002 (0.0002)
lag.Pop revenues	-0.202*** (0.039)	-0.058* (0.031)	-0.070** (0.030)	0.070** (0.030)
lag.Slope	-0.102*** (0.026)	-0.152*** (0.021)	-0.107*** (0.019)	-0.054*** (0.020)
lag.TEXT2	0.635** (0.317)	1.079*** (0.262)	-0.298 (0.246)	0.613** (0.253)
lag.TEXT3	1.058*** (0.355)	1.774*** (0.288)	0.380 (0.271)	1.161*** (0.275)
lag.TEXT4	1.888*** (0.509)	2.098*** (0.426)	0.478 (0.401)	1.799*** (0.416)
λ	0.835***	0.76***	0.749***	0.678***
<i>N</i>	8818			
<i>R</i> ²	0.673	0.641	0.456	0.572
Log Lik.	-21051.27	-20288.49	-19877.46	-20876.35
AIC.	42140.53	40614.98	39792.92	41790.71

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D16: Land prices, SAC

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
(Intercept)	0.0419 (NaN)	0.0209 (0.0400)	0.1804* (0.0930)	-3.9434*** (0.4290)
Land price	-0.0698*** (0.0170)	0.0231 (0.0200)	-0.0571*** (0.0150)	0.2637*** (0.0670)
For revenue	0.0012*** (0.0000)	3e-04 (0.0000)	0.0010*** (0.0000)	0.0099*** (0.0020)
Pop density	-1e-04*** (0.0000)	-2e-04*** (0.0000)	-3e-04*** (0.0000)	4e-04*** (0.0000)
Pop revenues	-0.0111** (0.0040)	0.0230*** (0.0070)	0.0170*** (0.0060)	0.2832*** (0.0160)
Slope	-0.0231*** (0.0030)	-0.0783*** (0.0060)	-0.0113*** (0.0030)	-0.2605*** (0.0140)
TEXT2	0.2938*** (0.0560)	0.5681*** (0.0630)	0.0037 (NaN)	0.2749* (0.1460)
TEXT3	0.4806*** (0.0660)	0.8537*** (0.0750)	0.1951*** (0.0430)	0.5837*** (0.1580)
TEXT4	0.7068*** (0.1000)	1.0277*** (0.1110)	0.1383* (0.0830)	0.3291* (0.1970)
R^2	0.678	0.639	0.461	0.573
λ	-0.46	-0.224	-0.413	0.845***
ρ	0.913***	0.814***	0.867***	-0.41
Log Lik.	-20985.64	-20309.68	-19835.38	-20863.42
AIC.	41995.29	40643.36	39694.75	41750.83

Note: *p<0.1; **p<0.05; ***p<0.01

Table D17: Land prices, GNS

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
(Intercept)	4.1561*** (0.6610)	3.5873*** (0.7450)	4.3680*** (0.7880)	-0.8794*** (0.1200)
Land price	-0.1357 (NaN)	0.1204* (0.0710)	-0.0253 (NaN)	0.3386*** (0.0670)
For revenue	0.0010 (NaN)	-0.0011 (0.0010)	-0.0021 (0.0020)	-0.0023* (0.0010)
Pop density	-3e-04*** (0.0000)	-3e-04*** (0.0000)	-4e-04*** (0.0000)	3e-04*** (0.0000)
Pop revenues	0.0262 (NaN)	0.0754*** (0.0160)	0.0638*** (0.0160)	0.2611*** (0.0180)
Slope	-0.1355*** (0.0130)	-0.2178*** (0.0130)	0.0018 (NaN)	-0.2013*** (0.0160)
TEXT2	0.5138*** (0.0790)	0.6625*** (0.1100)	0.0923 (NaN)	0.1638** (0.0680)
TEXT3	0.9548*** (0.1010)	1.2017*** (0.1270)	0.3723 (NaN)	0.3976*** (0.0660)
TEXT4	1.3735*** (0.1690)	1.5017*** (0.1710)	0.2647*** (0.0640)	0.1201 (0.1390)
lag.Land price	-0.5514*** (0.1410)	0.0268 (0.0290)	-0.3605** (0.1600)	-0.3397*** (0.0710)
lag.For revenue	0.0170*** (0.0040)	0.0072*** (0.0030)	0.0130*** (0.0030)	0.0037*** (0.0010)
lag.Pop density	-7e-04*** (0.0000)	-8e-04*** (0.0000)	-8e-04*** (0.0000)	-3e-04*** (0.0000)
lag.Pop revenues	-0.2391*** (0.0360)	-0.0790 (0.0530)	-0.1001* (0.0540)	-0.2089*** (0.0210)
lag.Slope	-0.2144*** (0.0280)	-0.2693*** (0.0280)	-0.1321*** (0.0250)	0.1611*** (0.0170)
lag.TEXT2	0.6235 (NaN)	1.1468*** (0.2930)	-0.2518 (0.3100)	0.1266* (0.0740)
lag.TEXT3	1.0789*** (0.1820)	2.0419*** (0.3430)	0.4500* (0.2470)	0.0293 (0.0540)
lag.TEXT4	2.2710*** (0.4840)	2.7157*** (0.4800)	0.5677 (0.5620)	0.3855** (0.1960)
R^2	0.681	0.644	0.462	0.58
λ	0.926***	0.864***	0.87***	-0.501
ρ	-0.502	-0.356	-0.414	0.845***
Log Lik.	-20944.89	-20250.55	-19823.05	-20790.96
AIC.	41929.77	40541.09	39686.1	41621.91

Note:

*p<0.1; **p<0.05; ***p<0.01

D1.3 Farmers' revenues

Table D18: Farmers' revenues, OLS

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.621** (0.277)	1.168*** (0.214)	2.703*** (0.201)	-5.201*** (0.212)
Farmers' revenues	-1.040*** (0.306)	0.409* (0.235)	-2.320*** (0.221)	1.052*** (0.233)
For revenue	0.019*** (0.001)	0.006*** (0.001)	0.010*** (0.001)	0.009*** (0.001)
Pop density	-0.0003*** (0.0001)	-0.0004*** (0.0001)	-0.001*** (0.0001)	0.0004*** (0.0001)
Pop revenues	-0.136*** (0.014)	0.073*** (0.011)	0.045*** (0.010)	0.316*** (0.011)
Slope	-0.207*** (0.008)	-0.329*** (0.006)	-0.099*** (0.005)	-0.248*** (0.006)
TEXT2	1.468*** (0.132)	1.714*** (0.102)	-0.028 (0.096)	0.993*** (0.101)
TEXT3	2.582*** (0.140)	2.737*** (0.108)	0.759*** (0.101)	1.696*** (0.107)
TEXT4	3.119*** (0.210)	2.909*** (0.162)	0.594*** (0.153)	1.537*** (0.161)
R^2	0.257	0.424	0.152	0.41
Moran's I	0.618***	0.445***	0.437***	0.374***
Log Lik.	-24670.37	-22365.62	-21832.19	-22290.03
AIC.	49360.74	44751.23	43684.37	44600.06

Note: *p<0.1; **p<0.05; ***p<0.01

Table D19: Farmers' revenues, SLX

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
x(Intercept)	0.7032** (0.3240)	0.3063 (0.2490)	3.0868*** (0.2350)	-6.0275*** (0.2480)
xFarmers' revenues	-2.0458 (2.7040)	-2.9623 (2.0810)	-1.0284 (1.9650)	-5.3773*** (2.0740)
xFor revenue	-0.0118** (0.0050)	-0.0049 (0.0040)	-0.0085** (0.0040)	-0.0030 (0.0040)
xPop density	-2e-04** (0.0000)	-3e-04*** (0.0000)	-4e-04*** (0.0000)	4e-04*** (0.0000)
xPop revenues	0.0381 (0.0290)	0.0549** (0.0220)	0.0432** (0.0210)	0.2557*** (0.0220)
xSlope	-0.0923*** (0.0260)	-0.2006*** (0.0200)	0.0391** (0.0190)	-0.1985*** (0.0200)
xTEXT2	0.4750*** (0.1840)	0.6617*** (0.1420)	0.1216 (0.1340)	0.2747* (0.1410)
xTEXT3	0.8607*** (0.2180)	1.1499*** (0.1680)	0.3724** (0.1580)	0.5067*** (0.1670)
xTEXT4	1.0581*** (0.2980)	1.3400*** (0.2290)	0.1666 (0.2170)	0.1612 (0.2290)
xlag.Farmers' revenues	1.1491 (2.7500)	3.3384 (2.1160)	-1.5342 (1.9980)	6.4439*** (2.1090)
xlag.For revenue	0.0306*** (0.0050)	0.0107*** (0.0040)	0.0183*** (0.0040)	0.0116*** (0.0040)
xlag.Pop density	1e-04 (0.0000)	-4e-04*** (0.0000)	-6e-04*** (0.0000)	2e-04 (0.0000)
xlag.Pop revenues	-0.2498*** (0.0350)	0.0346 (0.0270)	0.0075 (0.0250)	0.0766*** (0.0270)
xlag.Slope	-0.1200** (0.0270)	-0.1368*** (0.0210)	-0.1466*** (0.0200)	-0.0474** (0.0210)
xlag.TEXT2	1.6223*** (0.2610)	1.9029*** (0.2010)	-0.5472*** (0.1900)	1.3077*** (0.2000)
xlag.TEXT3	2.8111*** (0.2870)	2.6574*** (0.2210)	0.5430*** (0.2080)	1.9509*** (0.2200)
xlag.TEXT4	3.3012*** (0.4390)	2.3494*** (0.3380)	0.2513 (0.3190)	2.3046*** (0.3370)
R^2	0.274	0.439	0.168	0.419
Log Lik.	-24565.05	-22254.8	-21748.16	-22225.66
AIC.	49166.11	44545.6	43532.32	44487.33

Note:

* p<0.1; ** p<0.05; *** p<0.01

Table D20: Farmers' revenues, SEM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.834 (0.669)	2.057*** (0.480)	2.302*** (0.440)	-3.904*** (0.411)
Farmers' revenues	-2.190** (0.966)	-0.127 (0.676)	-2.316*** (0.615)	0.686 (0.555)
For revenue	0.012*** (0.002)	0.007*** (0.002)	0.009*** (0.001)	0.008*** (0.001)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.0001)	-0.0003*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.025 (0.017)	0.076*** (0.015)	0.057*** (0.014)	0.284*** (0.015)
Slope	-0.143*** (0.014)	-0.268*** (0.012)	-0.039*** (0.011)	-0.244*** (0.011)
TEXT2	0.516*** (0.114)	0.697*** (0.105)	0.155 (0.100)	0.400*** (0.111)
TEXT3	0.993*** (0.133)	1.270*** (0.122)	0.440*** (0.116)	0.775*** (0.127)
TEXT4	1.309*** (0.183)	1.568*** (0.168)	0.358** (0.160)	0.500*** (0.177)
R^2	0.668	0.635	0.449	0.569
λ	0.852***	0.776***	0.762***	0.686***
Log Lik.	-21113.36	-20357.59	-19928.92	-20908.09
AIC.	42248.71	40737.18	39879.85	41838.17

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D21: Farmers' revenues, SAR

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.176 (0.160)	0.232 (0.146)	0.621*** (0.134)	-2.107*** (0.168)
Farmers' revenues	-0.509*** (0.167)	-0.170 (0.240)	-0.801*** (0.164)	-0.023 (0.027)
For revenue	0.003*** (0.0005)	0.001 (0.001)	0.002*** (0.0004)	0.003*** (0.0005)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.00005)	-0.0003*** (0.00005)	0.0002*** (0.0001)
Pop revenues	-0.020*** (0.008)	0.034*** (0.011)	0.024*** (0.006)	0.154*** (0.009)
Slope	-0.045*** (0.005)	-0.102*** (0.005)	-0.024*** (0.003)	-0.099*** (0.005)
TEXT2	0.400*** (0.085)	0.656*** (0.078)	0.012	0.465*** (0.089)
TEXT3	0.705*** (0.090)	1.028*** (0.084)	0.287*** (0.040)	0.734*** (0.092)
TEXT4	0.947*** (0.133)	1.205*** (0.124)	0.189** (0.095)	0.565*** (0.135)
R^2	0.67	0.638	0.454	0.567
ρ	0.835***	0.744***	0.751***	0.652***
Log Lik.	-21086.91	-20321.34	-19893.53	-20931.27
AIC.	42195.83	40664.67	39809.05	41884.55

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D22: Farmers' revenues, SDM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	0.398*** (0.148)	0.126*** (0.047)	0.975*** (0.181)	-1.966*** (0.222)
Farmers' revenues	-1.858	-1.973*** (0.638)	-1.640*** (0.613)	-3.824** (1.787)
For revenue	-0.002 (0.001)	-0.002 (0.001)	-0.004	0.001
Pop density	-0.0002*** (0.00003)	-0.0002*** (0.0001)	-0.0003*** (0.00005)	0.0004*** (0.0001)
Pop revenues	0.054*** (0.017)	0.080*** (0.016)	0.066*** (0.013)	0.259*** (0.018)
Slope	-0.107*** (0.016)	-0.196*** (0.015)	0.028	-0.203*** (0.016)
TEXT2	0.433*** (0.074)	0.528*** (0.077)	0.137* (0.071)	0.237** (0.121)
TEXT3	0.839*** (0.120)	0.974*** (0.083)	0.331*** (0.058)	0.460*** (0.146)
TEXT4	1.093*** (0.102)	1.208*** (0.121)	0.194 (0.144)	0.101 (0.222)
lag.Farmers' revenues	1.516	1.965*** (0.665)	0.848 (0.614)	4.123** (1.817)
lag.For revenue	0.005*** (0.001)	0.003** (0.001)	0.006	0.001
lag.Pop density	0.0001	-0.0001 (0.0001)	-0.0001	-0.0002* (0.0001)
lag.Pop revenues	-0.105*** (0.024)	-0.061*** (0.018)	-0.059*** (0.014)	-0.148*** (0.023)
lag.Slope	0.068*** (0.016)	0.107*** (0.016)	-0.057	0.121*** (0.018)
lag.TEXT2	-0.084	0.187** (0.076)	-0.295*** (0.072)	0.296* (0.170)
lag.TEXT3	-0.211 (0.146)	0.070 (0.061)	-0.104	0.351* (0.191)
lag.TEXT4	-0.258	-0.093 (0.072)	-0.079 (0.146)	0.859*** (0.303)
ρ	0.837***	0.756***	0.747***	0.674***
N	8818			
R^2	0.672	0.64	0.456	0.572
Log Lik.	-21063.93	-20290.27	-19875.94	-20874.48
AIC.	42165.87	40618.53	39789.88	41786.96

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D23: Farmers' revenues, SDEM

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
	(1)	(2)	(3)	(4)
Constant	2.733*** (0.916)	2.035*** (0.629)	3.861*** (0.583)	-5.207*** (0.541)
Farmers' revenues	-1.986 (1.694)	-1.547 (1.586)	-1.849 (1.518)	-3.369* (1.727)
For revenue	0.001 (0.003)	-0.0005 (0.003)	-0.002 (0.003)	0.003 (0.003)
Pop density	-0.0002*** (0.0001)	-0.0002*** (0.0001)	-0.0003*** (0.0001)	0.0004*** (0.0001)
Pop revenues	0.039** (0.017)	0.085*** (0.016)	0.072*** (0.015)	0.264*** (0.017)
Slope	-0.119*** (0.015)	-0.206*** (0.014)	0.012 (0.013)	-0.206*** (0.015)
TEXT2	0.518*** (0.117)	0.672*** (0.105)	0.081 (0.100)	0.342*** (0.112)
TEXT3	0.974*** (0.135)	1.190*** (0.122)	0.361*** (0.116)	0.621*** (0.130)
TEXT4	1.317*** (0.186)	1.426*** (0.169)	0.213 (0.161)	0.313* (0.181)
lag.Farmers' revenues	-0.098 (2.017)	1.532 (1.748)	-0.856 (1.663)	4.196** (1.839)
lag.For revenue	0.016*** (0.004)	0.006* (0.003)	0.012*** (0.003)	0.004 (0.004)
lag.Pop density	-0.0005** (0.0002)	-0.001** (0.0002)	-0.001*** (0.0002)	-0.00001 (0.0002)
lag.Pop revenues	-0.239*** (0.038)	-0.053* (0.031)	-0.084*** (0.029)	0.070** (0.030)
lag.Slope	-0.117*** (0.026)	-0.151*** (0.020)	-0.121*** (0.019)	-0.049** (0.020)
lag.TEXT2	0.543* (0.320)	1.086*** (0.262)	-0.380 (0.247)	0.644** (0.253)
lag.TEXT3	0.945*** (0.359)	1.776*** (0.288)	0.330 (0.271)	1.158*** (0.274)
lag.TEXT4	1.778*** (0.514)	2.109*** (0.427)	0.356 (0.402)	1.861*** (0.417)
λ	0.841***	0.76***	0.75***	0.677***
N	8818			
R^2	0.672	0.64	0.456	0.572
Log Lik.	-21063.24	-20289.72	-19877.62	-20880.66
AIC.	42164.48	40617.44	39793.24	41799.31

Note:

*p<0.1; **p<0.05; ***p<0.01

Table D24: Farmers' revenues, SAC

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
(Intercept)	0.1491 (NaN)	0.1112 (0.1510)	0.3762 (NaN)	-3.8821*** (0.5680)
Farmers' revenues	-0.3049 (NaN)	-0.1567 (NaN)	-0.4825*** (0.1260)	0.8110 (0.6630)
For revenue	0.0012*** (0.0000)	4e-04 (NaN)	0.0012*** (0.0000)	0.0099*** (0.0020)
Pop density	-1e-04*** (0.0000)	-2e-04*** (0.0000)	-3e-04*** (0.0000)	4e-04*** (0.0000)
Pop revenues	-0.0162 (NaN)	0.0269*** (0.0040)	0.0141*** (0.0050)	0.2897*** (0.0160)
Slope	-0.0256*** (0.0020)	-0.0778*** (0.0060)	-0.0143*** (0.0030)	-0.2631*** (0.0140)
TEXT2	0.2679*** (0.0100)	0.5663*** (0.0610)	-0.0187 (NaN)	0.2915*** (0.1110)
TEXT3	0.4537*** (0.0500)	0.8582*** (0.0710)	0.1830*** (0.0390)	0.6093*** (0.1320)
TEXT4	0.6603*** (0.0810)	1.0230*** (0.1110)	0.0976 (0.1040)	0.3472* (0.1810)
R^2	0.677	0.639	0.461	0.572
λ	-0.47	-0.222	-0.416	0.839***
ρ	0.917***	0.814***	0.868***	-0.395
Log Lik.	-20992.65	-20309.97	-19834.74	-20871.68
AIC.	42009.29	40643.94	39693.47	41767.36

Note: *p<0.1; **p<0.05; ***p<0.01

Table D25: Farmers' revenues, GNS

	<i>Dependent variable:</i>			
	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
(Intercept)	5.0153*** (0.7970)	3.8909*** (0.6730)	0.5697*** (0.1250)	-0.9721*** (0.1400)
Farmers' revenues	-2.1934* (1.1740)	-1.5402*** (0.1910)	-1.6173 (NaN)	-3.5296** (1.6000)
For revenue	0.0017 (NaN)	-1e-04 (0.0000)	-0.0033 (NaN)	3e-04 (0.0010)
Pop density	-3e-04*** (0.0000)	-3e-04*** (0.0000)	-3e-04*** (0.0000)	3e-04*** (0.0000)
Pop revenues	0.0204 (0.0150)	0.0785*** (0.0150)	0.0535*** (0.0140)	0.2674*** (0.0180)
Slope	-0.1323*** (0.0140)	-0.2187*** (0.0130)	0.0236 (NaN)	-0.2080*** (0.0160)
TEXT2	0.4969*** (0.1060)	0.6674*** (0.1020)	0.1448*** (0.0140)	0.1773** (0.0690)
TEXT3	0.9312*** (0.1240)	1.2076*** (0.1190)	0.3352 (NaN)	0.4134*** (0.0620)
TEXT4	1.3508*** (0.1850)	1.5025*** (0.1660)	0.2265*** (0.0450)	0.1230 (NaN)
lag.Farmers' revenues	-1.3717 (1.0770)	1.2544 (NaN)	1.1513 (NaN)	3.6604** (1.6150)
lag.For revenue	0.0173 (NaN)	0.0066*** (0.0020)	0.0046 (NaN)	9e-04 (0.0010)
lag.Pop density	-7e-04*** (0.0000)	-8e-04*** (0.0000)	1e-04 (NaN)	-3e-04*** (0.0000)
lag.Pop revenues	-0.2683*** (0.0440)	-0.0674** (0.0330)	-0.0509*** (0.0140)	-0.2141*** (0.0210)
lag.Slope	-0.2141*** (0.0340)	-0.2673*** (0.0270)	-0.0404 (NaN)	0.1674*** (0.0170)
lag.TEXT2	0.5563 (NaN)	1.1574*** (0.2880)	-0.2461 (NaN)	0.1260 (0.0780)
lag.TEXT3	0.9872 (NaN)	2.0533*** (0.3340)	-0.2099 (NaN)	0.0154 (0.0300)
lag.TEXT4	2.2012*** (0.3550)	2.7239*** (0.4710)	-0.1875*** (0.0370)	0.4084 (NaN)
R^2	0.68	0.644	0.462	0.579
λ	0.929***	0.864***	-0.409	-0.496
ρ	-0.507	-0.354	0.866***	0.844***
Log Lik.	-20952.46	-20252.19	-19822.81	-20798.85
AIC.	41944.92	40544.38	39685.62	41637.7

Note:

*p<0.1; **p<0.05; ***p<0.01

Proxy	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
Land shadow price	312.7065 < 2.2e-16	325.6753 < 2.2e-16	287.0825 < 2.2e-16	106.8259 < 2.2e-16
Land prices	315.5557 < 2.2e-16	333.4682 < 2.2e-16	289.641 < 2.2e-16	115.9688 < 2.2e-16
Farmers' revenues	303.3948 < 2.2e-16	330.8311 < 2.2e-16	294.3477 < 2.2e-16	113.4367 < 2.2e-16

Table D26: Hausman test for the difference between OLS and SEM estimates

Proxy	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
Land shadow price	70.4738 < 2.22e-16	7.4987 0.00617	31.737 0	6.2782 0.01222
Land prices	65.6626 0	7.6944 0.00554	29.2527 0	5.9252 0.01493
Farmers' revenues	72.356 < 2.22e-16	7.6126 0.0058	30.3203 0	6.0478 0.01392

Table D27: LM test for residual spatial autocorrelation from SAR

Proxy	ln(pst/oth)	ln(agr/oth)	ln(for/oth)	ln(urb/oth)
Land shadow price	75.0466 < 2.22e-16	17.8209 2e-05	26.335 0	25.2062 0
Land prices	71.7574 < 2.22e-16	18.3835 2e-05	24.4982 0	25.9631 0
Farmers' revenues	78.1218 < 2.22e-16	18.0562 2e-05	25.2086 0	25.0459 0

Table D28: LM test for residual spatial autocorrelation from SDM

D2 Impacts of the variables in the SAR, SDM, SAC, and GNS

	Direct	p-value	Indirect	p-value	Total	p-value
Shadow price	0.042	NaN	0.1	NaN	0.142	NaN
For revenue	0.001	NaN	0.002	NaN	0.003	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.036	NaN	0.088	NaN	0.124	NaN
Slope	-0.116	NaN	-0.281	NaN	-0.398	NaN
TEXT2	0.753	NaN	1.821	NaN	2.573	NaN
TEXT3	1.17	NaN	2.832	NaN	4.002	NaN
TEXT4	1.383	NaN	3.346	NaN	4.729	NaN

Table D29: Impacts of Shadow price on agricultural share for SAR

	Direct	p-value	Indirect	p-value	Total	p-value
Land price	0.024	NaN	0.058	NaN	0.082	NaN
For revenue	0.001	NaN	0.002	NaN	0.003	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.034	NaN	0.083	NaN	0.117	NaN
Slope	-0.117	NaN	-0.284	NaN	-0.401	NaN
TEXT2	0.75	NaN	1.817	NaN	2.567	NaN
TEXT3	1.168	NaN	2.83	NaN	3.997	NaN
TEXT4	1.379	NaN	3.341	NaN	4.72	NaN

Table D30: Impacts of Land prices on agricultural share for SAR

	Direct	p-value	Indirect	p-value	Total	p-value
Farmers' revenues	-0.193	0.536	-0.468	0.536	-0.661	0.536
For revenue	0.001	0.193	0.002	0.192	0.003	0.192
Pop density	-0.000	0.000	-0.001	0.000	-0.001	0.000
Pop revenues	0.038	0.003	0.092	0.003	0.131	0.003
Slope	-0.117	0.000	-0.283	0.000	-0.399	0.000
TEXT2	0.747	0.000	1.810	0.000	2.557	0.000
TEXT3	1.170	0.000	2.837	0.000	4.006	0.000
TEXT4	1.372	0.000	3.327	0.000	4.699	0.000

Table D31: Impacts of Agri revenue on agricultural share for SAR

	Direct	p-value	Indirect	p-value	Total	p-value
Shadow price	1.144	NaN	-0.829	NaN	0.315	NaN
For revenue	-0.001	NaN	0.006	NaN	0.005	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.079	NaN	-0.008	NaN	0.071	NaN
Slope	-0.204	NaN	-0.158	NaN	-0.363	NaN
TEXT2	0.645	NaN	2.297	NaN	2.941	NaN
TEXT3	1.135	NaN	3.126	NaN	4.261	NaN
TEXT4	1.377	NaN	3.228	NaN	4.604	NaN

Table D32: Impacts of Shadow price on agricultural share for the Durbin model

	Direct	p-value	Indirect	p-value	Total	p-value
Land price	0.173	NaN	-0.202	NaN	-0.029	NaN
For revenue	-0.003	NaN	0.008	NaN	0.005	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.077	NaN	-0.002	NaN	0.075	NaN
Slope	-0.201	NaN	-0.159	NaN	-0.361	NaN
TEXT2	0.636	NaN	2.285	NaN	2.921	NaN
TEXT3	1.124	NaN	3.16	NaN	4.283	NaN
TEXT4	1.366	NaN	3.19	NaN	4.556	NaN

Table D33: Impacts of Land prices on agricultural share for the Durbin model

	Direct	p-value	Indirect	p-value	Total	p-value
Farmers' revenues	-1.881	NaN	1.849	NaN	-0.031	NaN
For revenue	-0.001	NaN	0.006	NaN	0.005	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.079	NaN	-0.003	NaN	0.077	NaN
Slope	-0.204	NaN	-0.159	NaN	-0.363	NaN
TEXT2	0.642	NaN	2.289	NaN	2.931	NaN
TEXT3	1.13	NaN	3.147	NaN	4.277	NaN
TEXT4	1.367	NaN	3.201	NaN	4.569	NaN

Table D34: Impacts of Agri revenue on agricultural share for the Durbin model

	Direct	p-value	Indirect	p-value	Total	p-value
Shadow price	0.015	NaN	0.052	NaN	0.067	NaN
For revenue	0	NaN	0.001	NaN	0.002	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.031	NaN	0.106	NaN	0.137	NaN
Slope	-0.093	NaN	-0.322	NaN	-0.415	NaN
TEXT2	0.682	NaN	2.37	NaN	3.052	NaN
TEXT3	1.026	NaN	3.562	NaN	4.588	NaN
TEXT4	1.233	NaN	4.284	NaN	5.517	NaN

Table D35: Impacts of Shadow price on agricultural share for SAC

	Direct	p-value	Indirect	p-value	Total	p-value
Land price	0.028	0.233	0.096	0.238	0.124	0.237
For revenue	0.000	0.167	0.001	0.170	0.001	0.169
Pop density	-0.000	0.000	-0.001	0.000	-0.001	0.000
Pop revenues	0.028	0.000	0.096	0.000	0.124	0.000
Slope	-0.093	0.000	-0.327	0.000	-0.420	0.000
TEXT2	0.678	0.000	2.372	0.000	3.050	0.000
TEXT3	1.019	0.000	3.564	0.000	4.583	0.000
TEXT4	1.227	0.000	4.290	0.000	5.517	0.000

Table D36: Impacts of Land prices on agricultural share for SAC

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	Direct	p-value	Indirect	p-value	Total	p-value
Farmers' revenues	-0.187	NaN	-0.652	NaN	-0.838	NaN
For revenue	0.001	NaN	0.002	NaN	0.002	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.032	NaN	0.112	NaN	0.144	NaN
Slope	-0.093	NaN	-0.324	NaN	-0.417	NaN
TEXT2	0.676	NaN	2.356	NaN	3.031	NaN
TEXT3	1.024	NaN	3.57	NaN	4.594	NaN
TEXT4	1.221	NaN	4.255	NaN	5.476	NaN

Table D37: Impacts of Agri revenue on agricultural share for SAC

	Direct	p-value	Indirect	p-value	Total	p-value
Shadow price	1.389	0.020	-0.846	0.072	0.543	0.274
For revenue	0.001	0.684	0.005	0.029	0.005	0.004
Pop density	-0.000	0.000	-0.001	0.000	-0.001	0.000
Pop revenues	0.082	0.000	-0.077	0.004	0.005	0.789
Slope	-0.211	0.000	-0.147	0.000	-0.358	0.000
TEXT2	0.632	0.000	0.725	0.002	1.357	0.000
TEXT3	1.142	0.000	1.264	0.000	2.407	0.000
TEXT4	1.418	0.000	1.717	0.000	3.135	0.000

Table D38: Impacts of Shadow price on agricultural share for GNS

	Direct	p-value	Indirect	p-value	Total	p-value
Land price	0.121	NaN	-0.013	NaN	0.109	NaN
For revenue	-0.001	NaN	0.006	NaN	0.004	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.08	NaN	-0.083	NaN	-0.003	NaN
Slope	-0.21	NaN	-0.15	NaN	-0.359	NaN
TEXT2	0.623	NaN	0.711	NaN	1.334	NaN
TEXT3	1.132	NaN	1.26	NaN	2.392	NaN
TEXT4	1.408	NaN	1.702	NaN	3.11	NaN

Table D39: Impacts of Land prices on agricultural share for GNS

	Direct	p-value	Indirect	p-value	Total	p-value
Farmers' revenues	-1.617	NaN	1.406	NaN	-0.211	NaN
For revenue	0	NaN	0.005	NaN	0.005	NaN
Pop density	0	NaN	-0.001	NaN	-0.001	NaN
Pop revenues	0.083	NaN	-0.074	NaN	0.008	NaN
Slope	-0.211	NaN	-0.148	NaN	-0.359	NaN
TEXT2	0.628	NaN	0.72	NaN	1.348	NaN
TEXT3	1.138	NaN	1.27	NaN	2.409	NaN
TEXT4	1.409	NaN	1.713	NaN	3.122	NaN

Table D40: Impacts of Agri revenue on agricultural share for GNS

D3 Elasticities

Agr rent / Model	Min.	1st Qu.	Median	Mean	3rd Qu.	Max	St.Dev
Shadow price							
OLS	0	0.235	0.264	0.31	0.367	0.555	0.106
SLX	0	0.158	0.178	0.209	0.247	0.374	0.072
SEM	0.001	0.387	0.435	0.511	0.605	0.914	0.175
SAR	0	0.062	0.07	0.082	0.097	0.146	0.028
SDM	0	0.137	0.154	0.181	0.214	0.324	0.062
SDEM	0	0.21	0.236	0.277	0.328	0.496	0.095
SAC	0	0.029	0.033	0.038	0.045	0.069	0.013
GNS	0	0.236	0.266	0.312	0.37	0.559	0.107
Land price							
OLS	-0.441	-0.09	-0.068	-0.074	-0.052	0	0.035
SLX	-0.907	-0.186	-0.139	-0.153	-0.108	0	0.072
SEM	0	0.104	0.134	0.148	0.18	0.878	0.069
SAR	0	0.152	0.196	0.216	0.262	1.279	0.101
SDM	-0.444	-0.091	-0.068	-0.075	-0.053	0	0.035
SDEM	0	0.09	0.116	0.128	0.155	0.758	0.06
SAC	0	0.229	0.295	0.325	0.395	1.927	0.152
GNS	0	0.201	0.259	0.285	0.346	1.691	0.133
Farmers' revenues							
OLS	0.078	0.229	0.251	0.266	0.31	0.399	0.063
SLX	0.072	0.211	0.231	0.245	0.285	0.367	0.058
SEM	-0.124	-0.096	-0.078	-0.083	-0.071	-0.024	0.02
SAR	-0.645	-0.501	-0.406	-0.43	-0.37	-0.126	0.101
SDM	-0.03	-0.024	-0.019	-0.02	-0.017	-0.006	0.005
SDEM	-0.014	-0.011	-0.009	-0.01	-0.008	-0.003	0.002
SAC	-0.818	-0.635	-0.515	-0.546	-0.47	-0.16	0.129
GNS	-0.206	-0.16	-0.13	-0.137	-0.118	-0.04	0.032

Table D41: Elasticities of agricultural land with respect to different agricultural rent proxies

D4 NRMSE - In-sample with signal

	s_ot	s_ag	s_pa	s_fo	s_ur
Shadow Price					
OLS	0.1211	0.2340	0.1882	0.1882	0.0676
SEM	0.0778	0.1218	0.0772	0.1141	0.0545
SAR	0.0766	0.1269	0.0779	0.1176	0.0544
SDM	0.0767	0.1234	0.0769	0.1139	0.0539
SAC	0.0741	0.1288	0.0744	0.1129	0.0583
GNS	0.0741	0.1190	0.0736	0.1093	0.0515
SLX	0.1197	0.2289	0.1860	0.1822	0.0675
SDEM	0.0772	0.1235	0.0776	0.1137	0.0531
GNS	0.0741	0.1190	0.0736	0.1093	0.0515
Land price					
OLS	0.1230	0.2294	0.1850	0.1865	0.0667
SEM	0.0781	0.1204	0.0768	0.1135	0.0546
SAR	0.0770	0.1253	0.0779	0.1166	0.0542
SDM	0.0768	0.1222	0.0769	0.1133	0.0543
SAC	0.0744	0.1277	0.0745	0.1120	0.0596
GNS	0.0743	0.1175	0.0729	0.1086	0.0520
SLX	0.1213	0.2240	0.1834	0.1805	0.0673
SDEM	0.0774	0.1222	0.0772	0.1130	0.0533
GNS	0.0743	0.1175	0.0729	0.1086	0.0520
Farmers' revenues					
OLS	0.1248	0.2348	0.1942	0.1921	0.0660
SEM	0.0781	0.1214	0.0775	0.1144	0.0544
SAR	0.0769	0.1264	0.0783	0.1177	0.0543
SDM	0.0771	0.1230	0.0775	0.1140	0.0540
SAC	0.0742	0.1285	0.0746	0.1126	0.0583
SLX	0.1241	0.2289	0.1917	0.1854	0.0663
SDEM	0.0775	0.1232	0.0781	0.1139	0.0531
GNS	0.0739	0.1185	0.0745	0.1093	0.0517

Table D42: In-sample estimation fit

D5 Moran's I on models residuals (two-sided)

Proxy / Spec.	ln(pst/oth)	pval	ln(agr/oth)	pval	ln(for/oth)	pval	ln(urb/oth)	pval
Shadow price								
OLS	0.61111	< 2.22e-16	0.44531	< 2.22e-16	0.44174	< 2.22e-16	0.37507	< 2.22e-16
SEM	-0.05299	< 2.22e-16	-0.02812	0	-0.03158	0	-0.02933	0
SAR	-0.04623	< 2.22e-16	-0.01508	0.00655	-0.03102	0	-0.0138	0.01292
SDM	-0.0477	< 2.22e-16	-0.02325	3e-05	-0.02826	0	-0.02765	0
SAC	0.00037	0.9296	0.00198	0.70402	0.00032	0.93759	-0.01342	0.01565
SLX	0.61406	< 2.22e-16	0.44844	< 2.22e-16	0.44292	< 2.22e-16	0.37248	< 2.22e-16
SDEM	-0.04931	< 2.22e-16	-0.02518	1e-05	-0.02919	0	-0.02734	0
GNS	-0.00176	0.7643	-0.00085	0.89396	-5e-04	0.94417	-0.00075	0.90829
Land price								
OLS	0.60205	< 2.22e-16	0.44535	< 2.22e-16	0.43376	< 2.22e-16	0.37541	< 2.22e-16
SEM	-0.05174	< 2.22e-16	-0.02845	0	-0.03035	0	-0.02967	0
SAR	-0.04462	0	-0.01527	0.00588	-0.02978	0	-0.0134	0.01575
SDM	-0.04665	< 2.22e-16	-0.02361	2e-05	-0.02725	0	-0.02806	0
SAC	0.00057	0.90184	0.00198	0.70326	0.00047	0.91617	-0.01345	0.01538
SLX	0.60427	< 2.22e-16	0.44764	< 2.22e-16	0.43476	< 2.22e-16	0.37224	< 2.22e-16
SDEM	-0.04838	< 2.22e-16	-0.02541	0	-0.0282	0	-0.02754	0
GNS	-0.00173	0.76911	-0.00102	0.86863	-0.00039	0.95951	-9e-04	0.8866
Farmers' revenues								
OLS	0.61779	< 2.22e-16	0.44522	< 2.22e-16	0.4366	< 2.22e-16	0.37352	< 2.22e-16
SEM	-0.05313	< 2.22e-16	-0.02824	0	-0.03072	0	-0.02906	0
SAR	-0.04684	< 2.22e-16	-0.01519	0.00615	-0.03032	0	-0.01354	0.0147
SDM	-0.04867	< 2.22e-16	-0.0234	2e-05	-0.02765	0	-0.02756	0
SAC	3e-04	0.94039	0.00198	0.70365	0.00038	0.92871	-0.01359	0.01436
SLX	0.62109	< 2.22e-16	0.44825	< 2.22e-16	0.4369	< 2.22e-16	0.37093	< 2.22e-16
SDEM	-0.05029	< 2.22e-16	-0.02529	0	-0.02838	0	-0.02725	0
GNS	-0.00186	0.75092	-0.00091	0.88474	0.00049	0.91263	-0.00069	0.91622

Table D43: Moran's I of the residuals

Table D44: Lagrange multiplier tests (OLS Model)

Proxy	LM Test	Models											
		<i>ln(pst/oth)</i>			<i>ln(agr/oth)</i>			<i>ln(for/oth)</i>			<i>ln(urb/oth)</i>		
		Statistic	df	p-value	Statistic	df	p-value	Statistic	df	p-value	Statistic	df	p-value
Shadow price	LMerr	12316.45	1	0e+00	6539.94	1	0e+00	6435.5	1	0e+00	4639.46	1	0e+00
	LMlag	12220.83	1	0e+00	6326.48	1	0e+00	6558.38	1	0e+00	4386.88	1	0e+00
	RLMerr	288.74	1	0e+00	388.54	1	0e+00	15.13	1	1.003e-04	325.31	1	0e+00
	RLMlag	193.12	1	0e+00	175.08	1	0e+00	138.01	1	0e+00	72.73	1	0e+00
	SARMA	12509.57	2	0e+00	6715.02	2	0e+00	6573.51	2	0e+00	4712.19	2	0e+00
Land prices	LMerr	11953.76	1	0e+00	6541.02	1	0e+00	6205.16	1	0e+00	4647.8	1	0e+00
	LMlag	11844.58	1	0e+00	6334.06	1	0e+00	6319.84	1	0e+00	4378.88	1	0e+00
	RLMerr	293.5	1	0e+00	386.85	1	0e+00	19.32	1	1.104e-05	338	1	0e+00
	RLMlag	184.32	1	0e+00	179.9	1	0e+00	134	1	0e+00	69.08	1	1.11e-16
	SARMA	12138.08	2	0e+00	6720.92	2	0e+00	6339.16	2	0e+00	4716.88	2	0e+00
Farmers' revenues	LMerr	12587.16	1	0e+00	6537.24	1	0e+00	6286.63	1	0e+00	4601.14	1	0e+00
	LMlag	12469.42	1	0e+00	6327.88	1	0e+00	6422.28	1	0e+00	4341.44	1	0e+00
	RLMerr	295.65	1	0e+00	387.84	1	0e+00	13.63	1	2.23e-04	325.52	1	0e+00
	RLMlag	177.91	1	0e+00	178.47	1	0e+00	149.28	1	0e+00	65.82	1	4.441e-16
	SARMA	12765.07	2	0e+00	6715.72	2	0e+00	6435.91	2	0e+00	4666.97	2	0e+00

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Table D45: Lagrange multiplier tests (SLX Model)

Proxy	LM Test	Models											
		$\ln(pst/oth)$			$\ln(agr/oth)$			$\ln(for/oth)$			$\ln(urb/oth)$		
		Statistic	df	p-value	Statistic	df	p-value	Statistic	df	p-value	Statistic	df	p-value
Shadow price	LMerr	12435.72	1	0e+00	6632.2	1	0e+00	6469.87	1	0e+00	4575.67	1	0e+00
	LMlag	12499.14	1	0e+00	6651.46	1	0e+00	6488.71	1	0e+00	4624.34	1	0e+00
	RLMerr	11.02	1	9.037e-04	8.68	1	3.224e-03	4.52	1	3.351e-02	3.68	1	5.505e-02
	RLMlag	74.43	1	0e+00	27.94	1	1.253e-07	23.36	1	1.346e-06	52.35	1	4.654e-13
	SARMA	12510.15	2	0e+00	6660.14	2	0e+00	6493.23	2	0e+00	4628.02	2	0e+00
Land prices	LMerr	12042.43	1	0e+00	6608.43	1	0e+00	6233.82	1	0e+00	4569.78	1	0e+00
	LMlag	12115.76	1	0e+00	6648.84	1	0e+00	6258.39	1	0e+00	4629.5	1	0e+00
	RLMerr	7.41	1	6.472e-03	3.2	1	7.376e-02	2.05	1	1.52e-01	6.97	1	8.288e-03
	RLMlag	80.75	1	0e+00	43.61	1	4.014e-11	26.62	1	2.473e-07	66.69	1	3.331e-16
	SARMA	12123.17	2	0e+00	6652.04	2	0e+00	6260.44	2	0e+00	4636.47	2	0e+00
Farmers' revenues	LMerr	12722.02	1	0e+00	6626.52	1	0e+00	6295.33	1	0e+00	4537.55	1	0e+00
	LMlag	12769.49	1	0e+00	6649.84	1	0e+00	6328.47	1	0e+00	4587.44	1	0e+00
	RLMerr	13.91	1	1.914e-04	7.59	1	5.858e-03	1.58	1	2.088e-01	3.85	1	4.98e-02
	RLMlag	61.39	1	4.663e-15	30.92	1	2.686e-08	34.72	1	3.805e-09	53.73	1	2.298e-13
	SARMA	12783.41	2	0e+00	6657.44	2	0e+00	6330.05	2	0e+00	4591.29	2	0e+00

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